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Jennifer C. Sedlachek
Project Manager

ExxonMobil

January 22, 2015

Mr. Mark Detterman
Alameda County Health Care Services Agency
Department of Environmental Health
1131 Harbor Bay Parkway, Room 250
Alameda, California 94502-6577

RECEIVED

By Alameda County Environmental Health at 9:56 am, Jan 26, 2015

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

Dear Mr. Detterman:

Attached for your review and comment is a copy of the letter report entitled *Well Installation Report*, dated January 22, 2015, for the above-referenced site. The report was prepared by Cardno ERI of Petaluma, California, and details activities at 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 January 22, 2015

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

w/o attachment
Mr. Greg Gurss, Cardno ERI

January 22, 2015
Cardno ERI 2735C.R08

Ms. Jennifer C. Sedlachek
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SUBJECT **Well Installation Report**
Former Exxon Service Station 79374
990 San Pablo Avenue, Albany, California

Alameda County Department of Environmental Health RO 0002974

Ms. Sedlachek:

At the request of ExxonMobil Environmental Services (EMES), on behalf of Exxon Mobil Corporation, Cardno ERI prepared this well installation report for the site. The purpose of the work was to install and sample off-site groundwater monitoring wells MW7 and MW8 to monitor the extent of dissolved-phase petroleum hydrocarbons in groundwater downgradient of the site. The work was conducted in accordance with the *Work Plan for Well Installation (Work Plan)*, dated July 7, 2014 (Cardno ERI, 2014a), which was approved by the Alameda County Health Care Services Agency in a letter dated August 22, 2014 (Appendix A). An extension for this report to January 23, 2015, was granted in electronic correspondence dated October 24, 2014 (Appendix A).

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). A Generalized Site Plan is included as Plate 2. A tabular site conceptual model for the site detailing additional site information is included as Appendix B.

January 22, 2015
Cardno ERI 2735C.R08 Former Exxon Service Station 79374, Albany, California

A retail outlet for Benjamin Moore paints and painting products and associated asphalt parking area currently occupies the site. The surrounding areas consist of residential and commercial properties (Plate 2). The City of Albany Fire Department and Police Department are located south of the site on Buchanan Street. ACEH case number RO0000119, identified as Firestone #3655 in the GeoTracker database, is located across San Pablo Avenue to the east. A Shell Service Station and an Atlantic Richfield Company Service Station (Arco) are located approximately 350 and 500 feet away, respectively, south-southeast of the site.

In 1945, a service station owned by Signal Oil Company occupied the site (EDR, 2009a). 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 1975 (EDR, 2009a; EDR, 2009b). In 1983, the service station was demolished and one used-oil UST and four gasoline USTs were removed. The resulting tank cavity was backfilled with sand and compacted to 90% (City of Albany, 1983).

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 and approximately 1½ miles southwest of the active northwest trending Hayward fault.

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 boring logs 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, 2011; Cardno ERI, 2012a). Fill material was encountered in the boring for well SVE3 (located in the former UST pit) to approximately 7 feet bgs. CPT soil borings indicate the presence of predominantly silt and clay between approximately 20 and 60 feet bgs, the maximum depth explored. Coarse-grained layers up to 3 feet thick are interbedded with the silt and clay. Historical groundwater elevation data indicate that DTW ranges from 5 to 11 feet bgs beneath the site with varying groundwater flow directions. The distribution of dissolved-phase hydrocarbons suggests that the dominant groundwater flow direction is west to southwest.

PREVIOUS WORK

Cumulative groundwater monitoring and sampling data are summarized in Tables 1A and 1B. Well construction details are presented in Table 2. Cumulative soil analytical results are summarized in Tables 3A and 3B. Select soil and groundwater analytical results are illustrated on Plates 3 and 4, respectively. A tabular site conceptual model for the site detailing additional site information is included as Appendix B.

Fueling System Activities

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

Site Assessment Activities

Six exploratory borings (B1 through B6) were advanced on site in 2008. Maximum residual 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. Maximum dissolved-phase TPHg, TPHd, and benzene concentrations were also reported in the samples collected from soil borings B1 and B2, and the laboratory reported an immiscible sheen in the samples (EC&A, 2008).

Monitoring wells MW1 through MW6 and borings CPT1/HP1 and CPT2/HP2 were installed on site in 2010. Maximum residual concentrations of TPHg and TPHd in soil were reported in samples collected at 10.5 feet bgs from borings MW3 and MW5, located west of the former USTs. Dissolved-phase hydrocarbons were adequately delineated vertically at the site with petroleum hydrocarbon concentrations near or below laboratory reporting limits in groundwater samples collected deeper than 27.5 feet bgs (Cardno ERI, 2011).

In January 2012, Cardno ERI installed SVE wells SVE1 through SVE3, AS well AS1, and monitoring well MW3A to be used during feasibility testing (Cardno ERI, 2012a).

In February and March 2014, Cardno ERI installed soil vapor wells SVS1 through SVS3 at the site and advanced on-site and off-site borings B7 through B17 (Cardno ERI, 2014a).

Remediation Activities

According to City of Albany (City) permit number 82-0708, the USTs were removed and the resulting excavation backfilled in 1983 (City of Albany, 1983). It is unknown if over-excavation was performed during UST removal.

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Between January 31 and February 1, 2012, Cardno ERI conducted three 4-hour feasibility tests: a DPE only test, a combined AS and DPE test, and an AS only test. Approximately 93 pounds of TPHg and 0.09 pound of benzene were removed during feasibility testing (Cardno ERI, 2012b).

Groundwater Monitoring Activities

Groundwater monitoring began at the site in 2010 following the installation of wells MW1 through MW6. Maximum concentrations are present in wells MW3 and MW4, located west of the former USTs. In 2008, the laboratory reported an immiscible sheen in the samples collected from soil borings B1 and B2 (EC&A, 2008). Neither NAPL nor sheen have been observed in the groundwater monitoring wells at the site.

Soil Vapor Monitoring Activities

Concentrations of vapor-phase petroleum hydrocarbons exceed ESLs by up to two to three orders of magnitude in wells SVS1 through SVS3. Maximum concentrations are present in well SVS3, located in the vicinity of the suspected locations of the former dispenser islands. During the most recent soil vapor sampling event (August 2014), benzene was reported at 21,000 micrograms per cubic meter ($\mu\text{g}/\text{m}^3$) in well SVS3 (Cardno ERI, 2014c).

WELL INSTALLATION

The well installations were conducted in general accordance with the Work Plan, standard field protocols (Appendix C), a site-specific health and safety plan, and applicable regulatory guidelines under the advisement of a professional geologist.

The locations of the wells were adjusted from the locations proposed in the Work Plan. The location of well MW7 was moved approximately 10 feet northwest due to the proximity of a gas line. The location of well MW8 was moved approximately 40 feet north due to the presence of subsurface gas and water lines in addition to overhead electrical lines.

Pre-Drilling Activities

Cardno ERI obtained a well installation permit from the Alameda County Public Works Agency and an encroachment permit from the City of Albany to install and sample monitoring wells MW7 and MW8 (Appendix D). Cardno ERI personnel visited the site to check for obstructions and to mark the proposed locations. Underground Service Alert was notified at least 48 hours prior to the onset of field activities.

Well Installation Activities

On December 8, 2014, Cardno ERI observed the installation of wells MW7 and MW8 at the site. Boring locations MW7 and MW8 were manually excavated with hand tools to 8 feet bgs in accordance with EMES' subsurface clearance protocol. The borings were subsequently drilled using a limited-access hollow stem auger drill rig to approximately 15 feet bgs and were sampled at a minimum of 5-foot intervals to total depth for geologic logging purposes. Select soil samples were submitted for laboratory analysis. Wells were constructed in the borings using 2-inch diameter, Schedule 40, PVC casing with a 10-foot screened interval from approximately 5 to 15 feet bgs. Well construction details are included in Table 2 and in the boring logs included in Appendix E.

Development and Sampling

On December 23, 2014, Cardno ERI developed wells MW7 and MW8 using a 2-inch diameter surge block and an electric pump in accordance with the protocols provided in Appendix C. On December 30, 2014, Cardno ERI gauged and sampled the newly-installed wells. Groundwater monitoring and sampling results are included in Tables 1A and 1B. Field data sheets are included in Appendix F.

Laboratory Analyses

Cardno ERI submitted soil and groundwater samples for analysis to Eurofins Calscience, Inc., of Garden Grove, California, a California state-certified laboratory, under COC protocol. Laboratory analytical results and sampling methods are summarized in Tables 1A, 1B, 3A, and 3B. Laboratory analytical reports are included in Appendix G.

Site Survey

On December 23, 2014, Cardno ERI observed Morrow Surveying survey the locations and elevations of wells MW7 and MW8. The survey report is included in Appendix H.

Waste Containment and Disposal

Soil and water generated during assessment activities were temporarily stored on site in 55-gallon drums. Belshire Environmental Services, Inc. transported three 55-gallon drums of soil for recycling to Soil Safe of Adelanto, California. Cardno ERI transported 35 gallons of purge and decon water and 65 gallons of water generated during well development for recycling to InStrat Inc., in Rio Vista, California. Waste documentation is included in Appendix I.

RESULTS

Sediments observed during this investigation consist largely of sands and clays with lesser amounts of silt to 15 feet bgs, the maximum depth explored. A coarse-grained interval of varying thickness was encountered in each boring at depths between approximately 10 and 15 feet bgs. The coarse-grained layer appears to be laterally continuous across the area of exploration although in some of the locations it has lenses of fine-grained sediment within it. Groundwater was encountered at 12.5 and 5 feet bgs in borings MW7 and MW8, respectively. Groundwater rose following installation to depths of 7.07 and 4.10 feet bgs, respectively.

Residual petroleum hydrocarbons were below screening levels in well MW8, located west of the site. With the exception of TPHd (120 mg/kg) and TPHg (540 mg/kg) in boring MW7 at 10 feet bgs, residual petroleum hydrocarbons were below reporting limits in soil samples collected during this investigation.

Dissolved-phase TPHd (2,900 µg/L), TPHg (7,300 µg/L), benzene (52 µg/L), toluene (8.9 µg/L), ethylbenzene (32 µg/L), total xylenes (15 µg/L), and DIPE (13 µg/L) were reported in well MW7. Dissolved-phase concentrations were not reported in the sample collected from well MW8.

CONCLUSIONS

Sediments observed during this investigation were consistent with previous investigations. With the exception of the UST area where backfill material is present, there is a coarse-grained layer of varying thickness present at approximately 10 feet bgs across the area of exploration although in some of the locations it has fine-grained lenses within it. Maximum residual hydrocarbon concentrations are encountered between approximately 10 and 12 feet bgs near and southwest of the former USTs. Residual concentrations are adequately delineated and primarily limited to the site and the area directly adjacent to the southwest part of the site.

Dissolved-phase concentrations are adequately delineated by the existing well network and previous soil borings; however, an additional well southwest of the site would be beneficial in further monitoring dissolved-phase concentrations southwest of the site.

SITE CONCEPTUAL MODEL

Based on historical data and the results of the current investigation, Cardno ERI updated the tabular site conceptual model for the site (Appendix B).

RECOMMENDATIONS

Cardno ERI recommends continued soil vapor and groundwater sampling and incorporating the newly-installed wells into the groundwater monitoring and sampling schedule. Based on the dissolved-phase concentrations reported from boring B9 and the location of well MW8, Cardno ERI recommends installing an additional monitoring well south of well MW8 closer to the location proposed in the Work Plan. Based on the location of the water line, gas line, and overhead lines, the well may need to be installed on the west side of Adams Street near the intersection with Buchanan Street.

Cardno ERI also recommends preparing a feasibility study/corrective action plan (FS/CAP), as detailed in the *Response to Comments and Request for Extension* (Cardno ERI, 2014b).

CONTACT INFORMATION

The responsible party contact is Ms. Jennifer C. Sedlachek, ExxonMobil Environmental Services Company, 4096 Piedmont Avenue #194, Oakland, California, 94611. The consultant contact is Mr. Greg Gurss, Cardno ERI, 601 North McDowell Boulevard, Petaluma, California, 94954. The agency contact is Mr. Mark Detterman, Alameda County Health Care Services Agency, Environmental Health Services, 1131 Harbor Bay Parkway, Suite 250, Alameda, California, 94502-6577.

LIMITATIONS

For 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 and the work performed have been undertaken in good faith, with due diligence and with the expertise, experience, capability, and specialized knowledge necessary to perform the work in a good and workmanlike manner and within all accepted standards pertaining to providers of environmental services 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.

January 22, 2015
 Cardno ERI 2735C.R08 Former Exxon Service Station 79374, Albany, California

Please contact Mr. Greg Gurst, Cardno ERI's project manager for this site, at greg.gurst@cardno.com or at (916) 692-3130 with any questions or comments regarding this report.

Sincerely,

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SCANNED IMAGE

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Enclosures:

References

Acronym List

Plate 1	Site Vicinity Map
Plate 2	Generalized Site Plan
Plate 3	Select Soil Analytical Results
Plate 4	Select Groundwater Analytical Results
Table 1A	Cumulative Groundwater Monitoring and Sampling Data
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Table 2	Well Construction Details
Table 3A	Cumulative Soil Analytical Results
Table 3B	Additional Cumulative Soil Analytical Results – HVOCs and PAHs
Appendix A	Correspondence
Appendix B	Site Conceptual Model
Appendix C	Field Protocol
Appendix D	Permits
Appendix E	Boring Logs
Appendix F	Field Data Sheets
Appendix G	Laboratory Analytical Reports
Appendix H	Survey
Appendix I	Waste Disposal Documentation

January 22, 2015
Cardno ERI 2735C.R08 Former Exxon Service Station 79374, Albany, California

cc: Mr. Mark Detterman, Alameda County Health Care Services Agency, Environmental Health Services,
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January 22, 2015
Cardno ERI 2735C.R08 Former Exxon Service Station 79374, Albany, California

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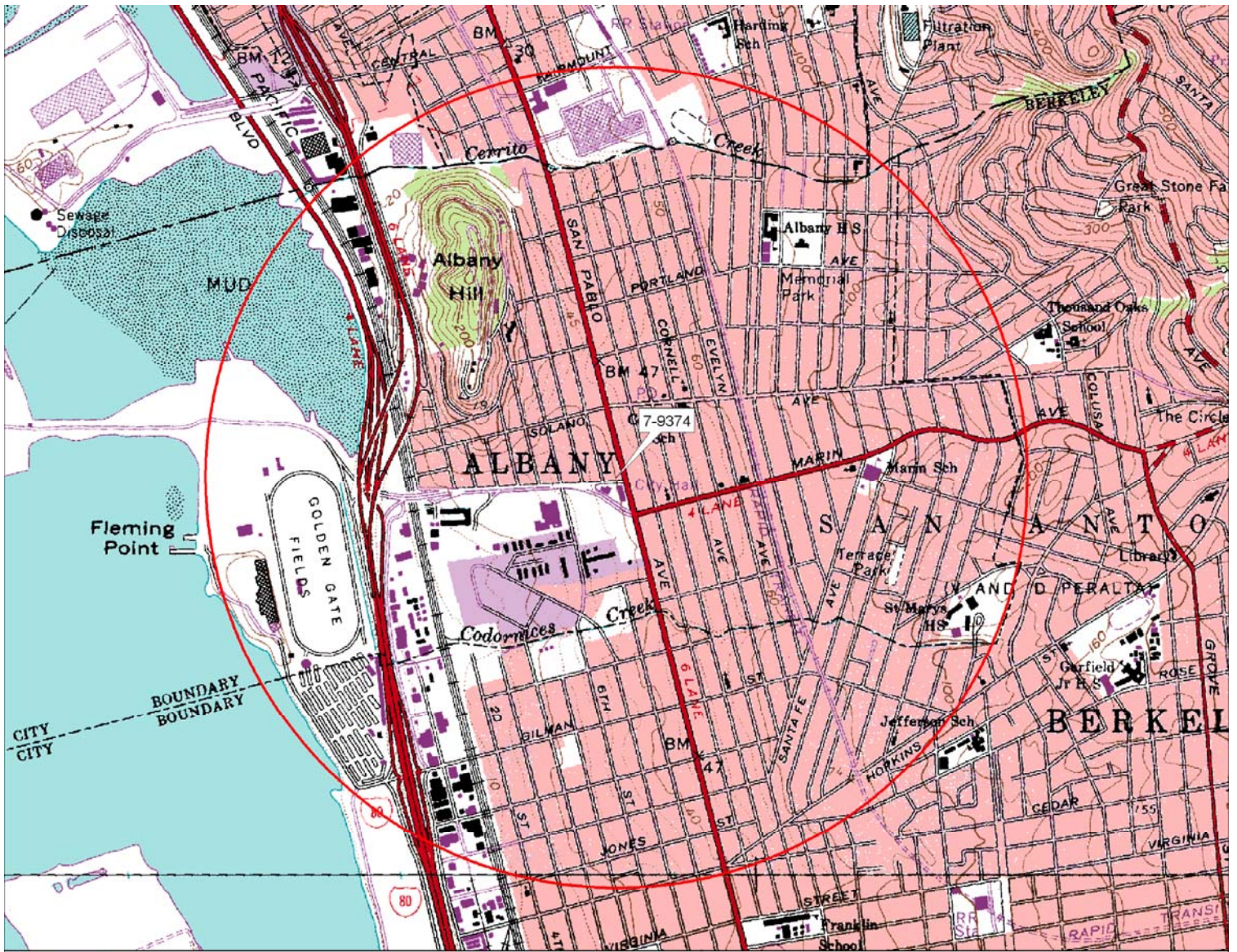
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Cardno ERI 2735C.R08 Former Exxon Service Station 79374, Albany, California

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.*

January 22, 2015
 Cardno ERI 2735C.R08 Former Exxon Service Station 79374, Albany, California

ACRONYM LIST

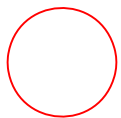
µg/L	Micrograms per liter	NEPA	National Environmental Policy Act
µs	Microsiemens	NGVD	National Geodetic Vertical Datum
1,2-DCA	1,2-dichloroethane	NPDES	National Pollutant Discharge Elimination System
acfm	Actual cubic feet per minute	O&M	Operations and Maintenance
AS	Air sparge	ORP	Oxidation-reduction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



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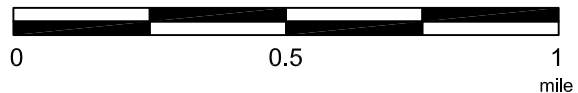
FN 2735 TOPO

EXPLANATION



1/2-mile radius circle

APPROXIMATE SCALE



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



SITE VICINITY MAP

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

PROJECT NO.

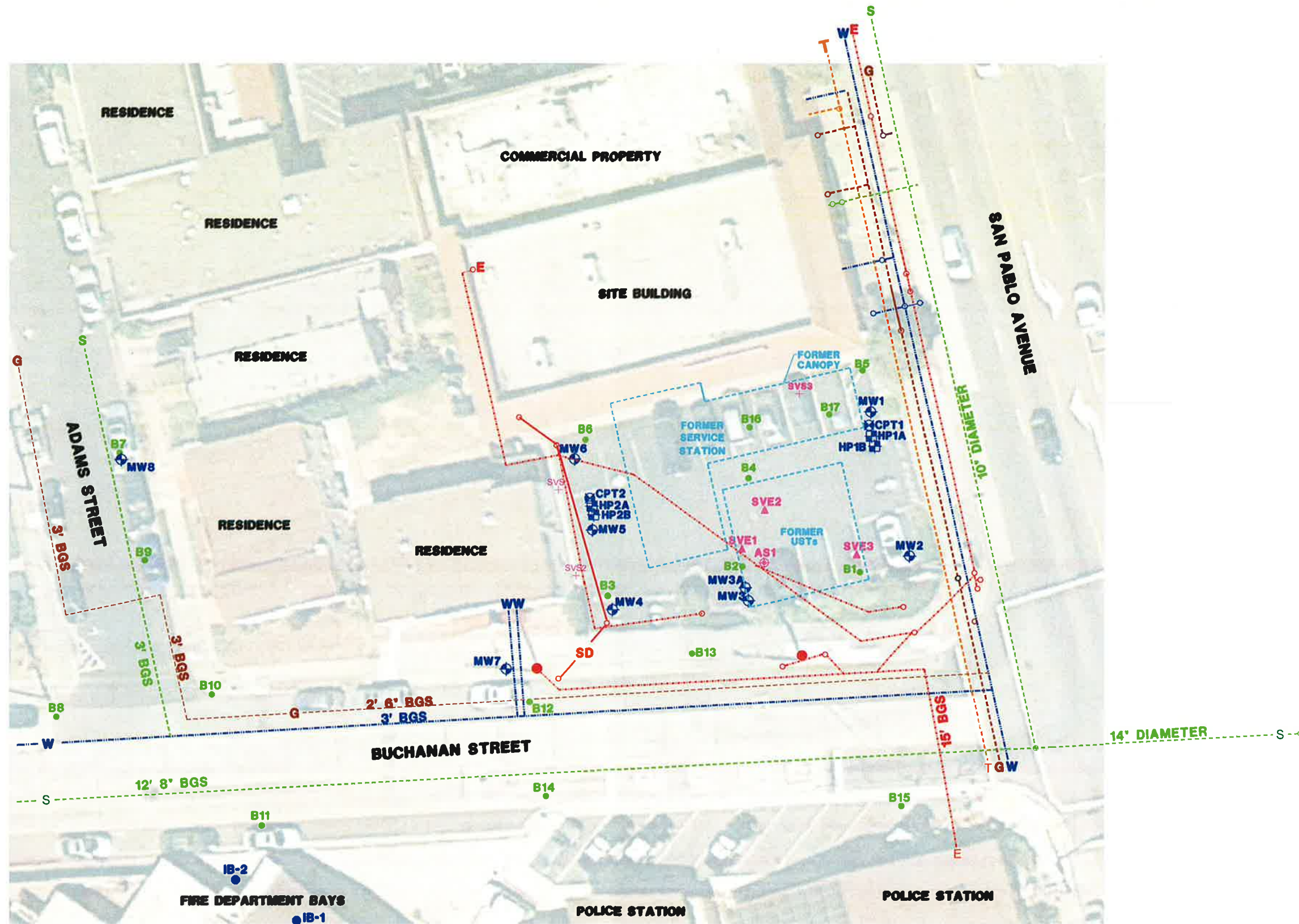
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PLATE

1

UTILITIES LEGEND

- - - TELEPHONE
- - - ELECTRICAL
- - - WATER
- - - GAS
- - - SEWER
- - - STORM DRAIN
- POWER POLE



APPROXIMATE SCALE



FN 2735 GPS AERIAL _SP R08



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

EXPLANATION

- | | | | | | |
|------|--|------|------------------------------|------|----------------------------|
| MW8 | Groundwater Monitoring Well | HP2B | Hydropunch Boring | AS1 | Air Sparge Well |
| B17 | Soil Boring | CPT2 | Cone Penetration Test Boring | SVE3 | Soil Vapor Extraction Well |
| IB-2 | Soil Boring by Other Consultant for City of Albany | SVS3 | Soil Vapor Sampling Well | | |

PROJECT NO.

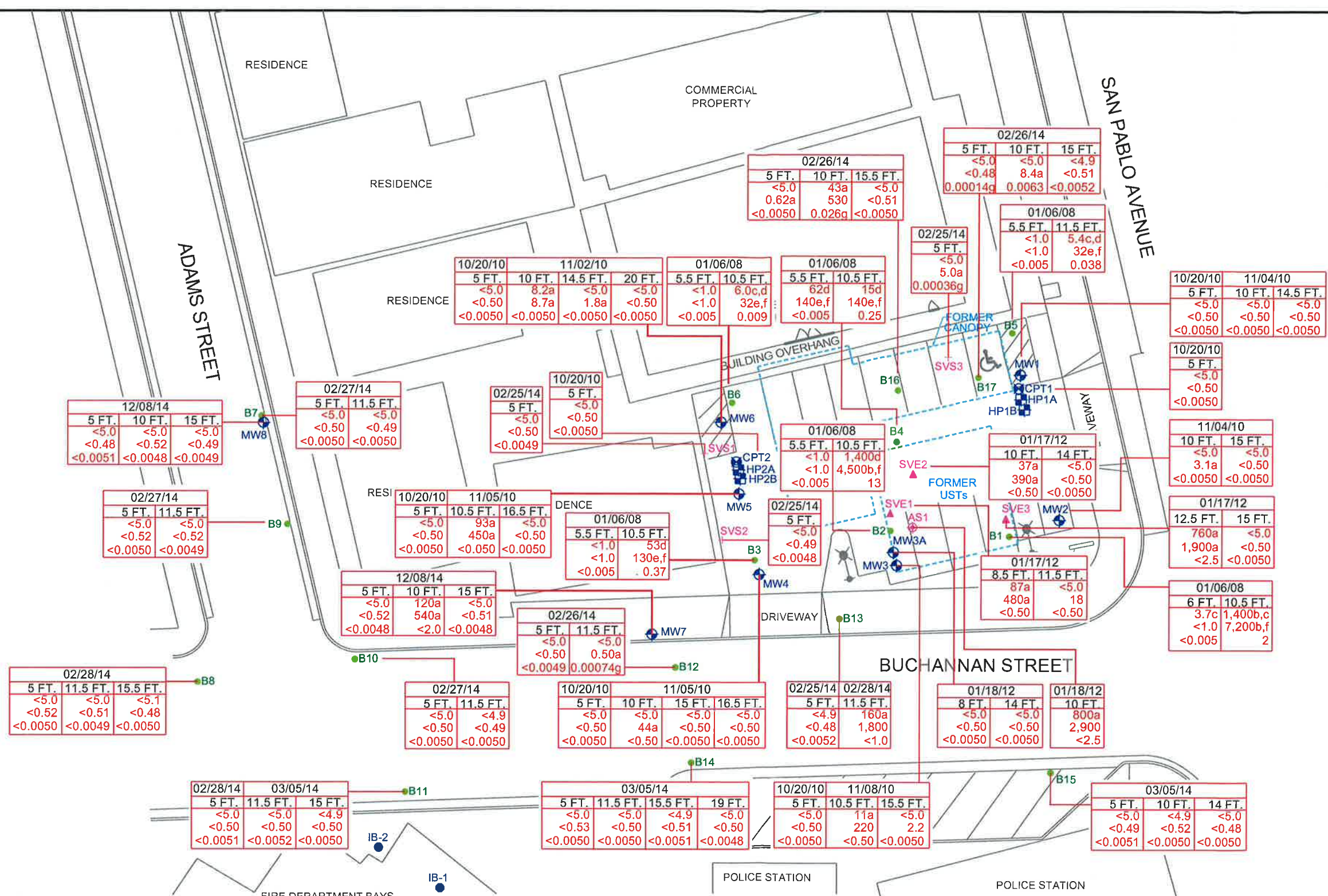
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PLATE

2



- Analyte Concentrations in mg/kg
- | |
|--|
| Sample Date |
| Sample Depth |
| Total Petroleum Hydrocarbons as diesel |
| Total Petroleum Hydrocarbons as gasoline |
| Benzene |
- < Less than the Stated Laboratory Reporting Limit
 - mg/kg Milligrams per Kilogram
 - NM Not Measured
 - a The 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 Estimated value; analyte present at concentration above the method detection limit but below the reporting limit.



FN 27350004 R08



SELECT SOIL ANALYTICAL RESULTS

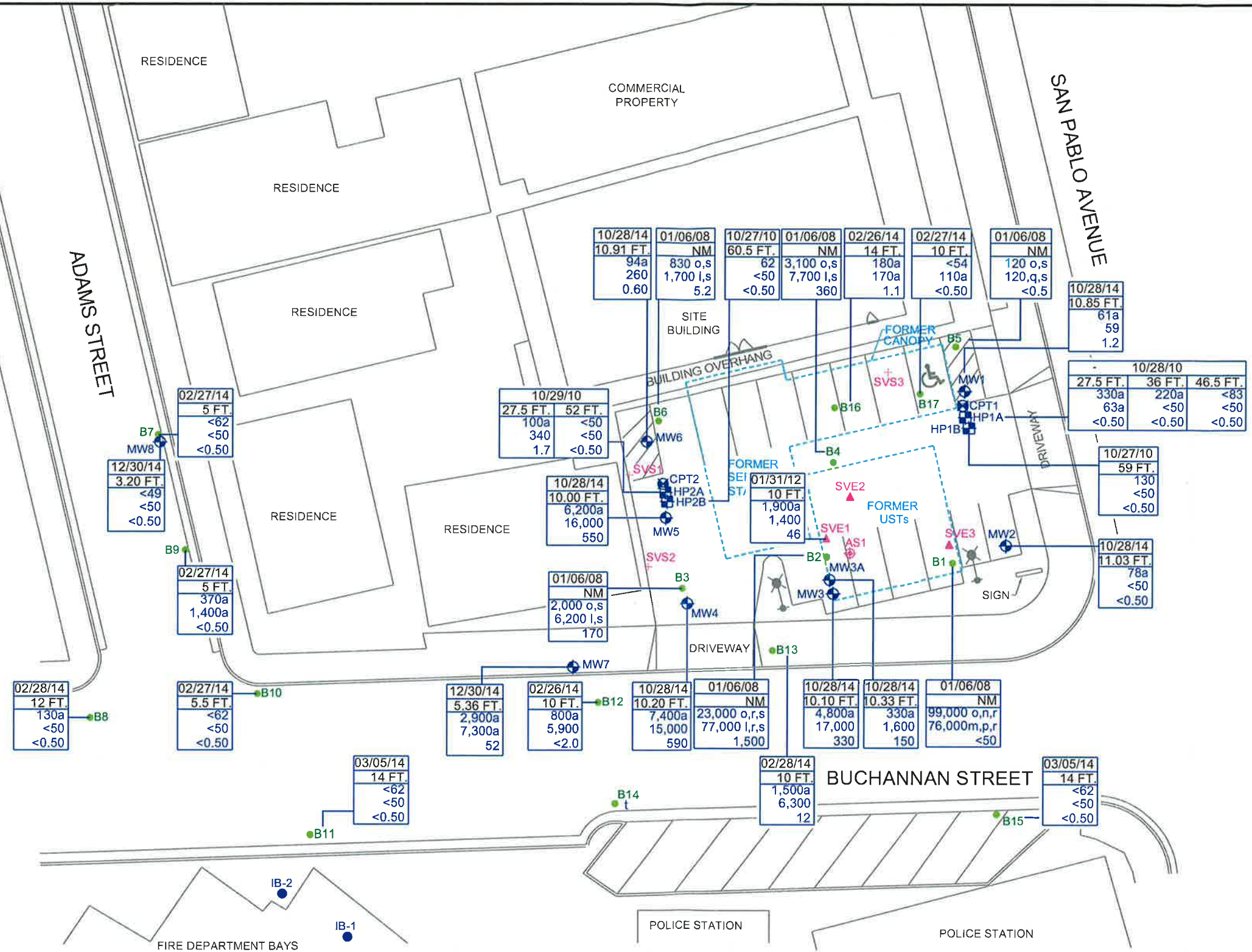
FORMER EXXON SERVICE STATION 79374
 990 San Pablo Avenue
 Albany, California

EXPLANATION

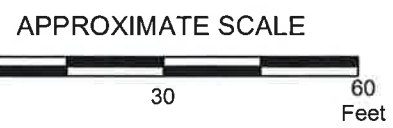
- MW8 Groundwater Monitoring Well
- B17 Soil Boring
- IB-2 Soil Boring by Other Consultant for City of Albany
- HP2B Hydropunch Boring
- CPT2 Cone Penetration Test Boring
- SVS3 Soil Vapor Sampling Well
- AS1 Air Sparge Well
- SVE3 Soil Vapor Extraction Well

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PLATE
3



Analyte Concentrations in ug/L	
Sample Date	Sample Depth
Total Petroleum Hydrocarbons as diesel	
Total Petroleum Hydrocarbons as gasoline	
Benzene	
<	Less Than the Stated Laboratory Reporting Limit
ug/L	Micrograms per Liter
NM	Not Measured
a	The chromatographic pattern does not match that of the specified standard.
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.
t	Groundwater did not enter boring; sample not collected.



FN 27350004 R08



SELECT GROUNDWATER ANALYTICAL RESULTS

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

EXPLANATION			
MW8	Groundwater Monitoring Well	HP2B	Hydropunch Boring
B17	Soil Boring	CPT2	Cone Penetration Test Boring
IB-2	Soil Boring by Other Consultant for City of Albany	SVS3	Soil Vapor Sampling Well
		AS1	Air Sparge Well
		SVE3	Soil Vapor Extraction Well

PROJECT NO.
2735

PLATE
4

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.	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
MW1	04/06/12	---	41.45	8.11	33.34	No	---	<250	130	130	<0.50	2.1	<0.50	<0.50	<0.50
MW1	10/19/12	---	41.45	10.42	31.03	No	---	<250	<50	<50	<0.50	0.51	2.2	<0.50	0.65
MW1	06/11/13	---	41.45	10.48	30.97	No	---	<250	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW1	12/19/13	---	41.45	10.67	30.78	No	---	<250	<50	<50	<0.50	<0.50	1.3	<0.50	0.53
MW1	04/03/14	---	44.19	Elevation converted to NAVD88.											
MW1	04/30/14	---	44.19	9.49	34.70	No	---	---	---	---	---	---	---	---	---
MW1	05/01/14	---	44.19	---	---	---	---	<240	<48	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW1	10/28/14	---	44.19	10.85	33.34	No	---	<250	61a	59	<0.50	1.2	<0.50	0.64	<0.50
MW2															
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
MW2	04/06/12	---	41.25	8.68	32.57	No	---	<250	60	68	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	10/19/12	---	41.25	11.03	30.22	No	---	<250	<50	59a	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	06/11/13	---	41.25	10.67	30.58	No	---	<250	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	12/19/13	---	41.25	10.77	30.48	No	---	<250	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	04/03/14	---	43.99	Elevation converted to NAVD88.											
MW2	04/30/14	---	43.99	9.63	34.36	No	---	---	---	---	---	---	---	---	---
MW2	05/01/14	---	43.99	---	---	---	---	<240	<48	53a	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	10/28/14	---	43.99	11.03	32.96	No	---	<250	78a	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW3															
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
MW3	04/06/12	---	40.42	8.13	32.29	No	---	<250	3,200a	18,000	<20	300	120	1,100	180
MW3	10/19/12	---	40.42	9.37	31.05	No	---	<250	1,700a	11,000a	<10	380	120	740	150

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.	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)
MW3	06/11/13	---	40.42	9.48	30.94	No	---	<250	2,700a	17,000	<10	270	110	990	140
MW3	12/19/13	---	40.42	10.00	30.42	No	---	---	---	---	---	---	---	---	---
MW3	12/20/13	---	40.42	---	---	---	---	<250	2,000a	16,000	<10	310	120	710	120
MW3	04/03/14	---	43.16	Elevation converted to NAVD88.		---	---	---	---	---	---	---	---	---	---
MW3	04/30/14	---	43.16	9.17	33.99	No	---	---	---	---	---	---	---	---	---
MW3	05/01/14	---	43.16	---	---	---	---	<240	3,100a	18,000	<10	230	110	1,100	170
MW3	10/28/14	---	43.16	10.10	33.06	No	---	<250	4,800a	17,000	<20	330	120	1,200	150
MW3A	01/18/12	---	Well installed.		---	---	---	---	---	---	---	---	---	---	---
MW3A	02/06/12	---	40.68	Well surveyed.		---	---	---	---	---	---	---	---	---	---
MW3A	04/06/12	---	40.68	6.02	34.66	No	---	<250	170a	1,300	<2.0	41	7.5	140	38
MW3A	10/19/12	---	40.68	10.44	30.24	No	---	<250	860a	4,400a	<5.0	390	59	410	82
MW3A	06/11/13	---	40.68	9.75	30.93	No	---	<250	160a	1,100	<2.0	99	14	110	3.6
MW3A	12/19/13	---	40.68	10.05	30.63	No	---	<250	270a	1,800	<2.0	150	18	65	4.7
MW3A	04/03/14	---	43.42	Elevation converted to NAVD88.		---	---	---	---	---	---	---	---	---	---
MW3A	04/30/14	---	43.42	7.55	35.87	No	---	---	---	---	---	---	---	---	---
MW3A	05/01/14	---	43.42	---	---	---	---	<240	<48	130a	<0.50	7.0	1.2	7.4	1.3
MW3A	10/28/14	---	43.42	10.33	33.09	No	---	<250	330a	1,600	<0.50	150	17	26	4.0
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
MW4	04/06/12	---	39.30	6.21	33.09	No	---	<250	1,800a	9,100a	<10	380	40	220	410
MW4	10/19/12	---	39.30	10.64	28.66	No	---	1,400a	20,000a	270,000	<10	440	88	2,100	3,800
MW4	03/06/13	---	39.30	8.02	31.28	No	---	---	---	---	---	---	---	---	---
MW4	06/11/13	---	39.30	9.05	30.25	No	---	<250	3,400a	16,000	<10	430	48	520	820
MW4	12/19/13	---	39.30	8.95	30.35	No	---	---	---	---	---	---	---	---	---
MW4	12/20/13	---	39.30	---	---	---	---	<250	2,800a	13,000	<10	590	41	430	530
MW4	03/05/14	---	39.30	---	---	No	---	---	---	---	---	---	---	---	---
MW4	04/03/14	---	42.04	Elevation converted to NAVD88.		---	---	---	---	---	---	---	---	---	---
MW4	04/30/14	---	42.04	6.25	35.79	No	---	---	---	---	---	---	---	---	---
MW4	05/01/14	---	42.04	---	---	---	---	<240	3,000a	13,000	<10	520	46	310	340
MW4	10/28/14	---	42.04	10.20	31.84	No	---	<250	7,400a	15,000	<10	590	42	360	230
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

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.	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)
MW5	10/13/11	---	40.38	9.31	31.07	No	---	660	7,600a	23,000	<20	390	160	1,200	3,100
MW5	04/06/12	---	40.38	6.77	33.61	No	---	<250	880a	6,000a	<5.0	62	17	360	680
MW5	10/19/12	---	40.38	10.64	29.74	No	---	280a	2,100a	15,000	<20	580	63	950	1,400
MW5	06/11/13	---	40.38	10.06	30.32	No	---	<250	2,700a	13,000	<20	540	36	930	1,200
MW5	12/19/13	---	40.38	9.85	30.53	No	---	---	---	---	---	---	---	---	---
MW5	12/20/13	---	40.38	---	---	---	---	<250	2,100a	21,000	<20	370	36	1,500	1,400
MW5	04/03/14	---	43.12	Elevation converted to NAVD88.											
MW5	04/30/14	---	43.12	7.51	35.61	No	---	---	---	---	---	---	---	---	---
MW5	05/01/14	---	43.12	---	---	---	---	<240	2,000a	10,000	<10	170	10	600	510
MW5	10/28/14	---	43.12	10.00	33.12	No	---	360a	6,200a	16,000	<10	550	17	890	360
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
MW6	04/06/12	---	41.06	7.19	33.87	No	---	<250	440a	1,400a	<0.50	2.4	<0.50	13	15
MW6	10/19/12	---	41.06	11.36	29.70	No	---	<250	99a	510a	<0.50	4.2	1.6	8.0	7.0
MW6	06/11/13	---	41.06	10.81	30.25	No	---	<250	150a	500	<0.50	<0.50	<0.50	2.4	1.1
MW6	12/19/13	---	41.06	10.78	30.28	No	---	<250	68a	440	<0.50	<0.50	<0.50	2.3	0.87
MW6	04/03/14	---	43.80	Elevation converted to NAVD88.											
MW6	04/30/14	---	43.80	8.23	35.57	No	---	---	---	---	---	---	---	---	---
MW6	05/01/14	---	43.80	---	---	---	---	<240	450a	1,500	<0.50	2.8	0.57	13	4.8
MW6	10/28/14	---	43.80	10.91	32.89	No	---	<250	94a	260	<0.50	0.60	<0.50	0.56	<0.50
MW7	12/08/14	---	Well installed.												
MW7	12/23/14	---	41.21	Well surveyed.											
MW7	12/30/14	---	41.21	5.36	35.85	No	---	<250	2,900a	7,300a	<5.0	52	8.9	32	15
MW8	12/08/14	---	Well installed.												
MW8	12/23/14	---	39.65	Well surveyed.											
MW8	12/30/14	---	39.65	3.20	36.45	No	---	<250	<49	<50	<0.50	<0.50	<0.50	<0.50	<0.50
AS1	01/18/12	---	Well installed.												
AS1	10/19/12	---	---	10.32	---	No	---	---	---	---	---	---	---	---	---
AS1	06/11/13	---	---	9.82	---	No	---	---	---	---	---	---	---	---	---
AS1	12/19/13	---	---	10.12	---	No	---	---	---	---	---	---	---	---	---
AS1	04/30/14	---	---	7.95	---	No	---	---	---	---	---	---	---	---	---
AS1	10/28/14	---	---	10.35	---	No	---	---	---	---	---	---	---	---	---
SVE1	01/17/12	---	Well installed.												
SVE1	02/06/12	---	40.58	Well surveyed.											
SVE1	10/19/12	---	40.58	10.21	30.37	No	---	---	---	---	---	---	---	---	---

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.	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)
SVE1	06/11/13	---	40.58	9.63	30.95	No	---	---	---	---	---	---	---	---	---
SVE1	12/19/13	---	40.58	9.89	30.69	No	---	---	---	---	---	---	---	---	---
SVE1	04/03/14	---	43.32	Elevation converted to NAVD88.			---	---	---	---	---	---	---	---	---
SVE1	04/30/14	---	43.32	7.70	35.62	No	---	---	---	---	---	---	---	---	---
SVE1	10/28/14	---	43.32	10.17	33.15	No	---	---	---	---	---	---	---	---	---
SVE2	01/17/12	---	Well installed.			---	---	---	---	---	---	---	---	---	---
SVE2	02/06/12	---	40.94	Well surveyed.			---	---	---	---	---	---	---	---	---
SVE2	10/19/12	---	40.94	10.48	30.46	No	---	---	---	---	---	---	---	---	---
SVE2	06/11/13	---	40.94	9.94	31.00	No	---	---	---	---	---	---	---	---	---
SVE2	12/19/13	---	40.94	10.20	30.74	No	---	---	---	---	---	---	---	---	---
SVE2	04/03/14	---	43.68	Elevation converted to NAVD88.			---	---	---	---	---	---	---	---	---
SVE2	04/30/14	---	43.68	8.09	35.59	No	---	---	---	---	---	---	---	---	---
SVE2	10/28/14	---	43.68	10.50	33.18	No	---	---	---	---	---	---	---	---	---
SVE3	01/17/12	---	Well installed.			---	---	---	---	---	---	---	---	---	---
SVE3	02/06/12	---	40.93	Well surveyed.			---	---	---	---	---	---	---	---	---
SVE3	10/19/12	---	40.93	10.39	30.54	No	---	---	---	---	---	---	---	---	---
SVE3	06/11/13	---	40.93	9.65	31.28	No	---	---	---	---	---	---	---	---	---
SVE3	12/19/13	---	40.93	10.31	30.62	No	---	---	---	---	---	---	---	---	---
SVE3	04/03/14	---	43.67	Elevation converted to NAVD88.			---	---	---	---	---	---	---	---	---
SVE3	04/30/14	---	43.67	7.79	35.88	No	---	---	---	---	---	---	---	---	---
SVE3	10/28/14	---	43.67	10.48	33.19	No	---	---	---	---	---	---	---	---	---
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

TABLE 1A
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Former Exxon Service Station 79374
990 San Pablo Avenue
Albany, California

Well ID	Sampling Date	Depth (feet)	TOC Elev. (feet)	DTW (feet)	GW Elev.	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)
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
W-5-B7	02/27/14	5	---	---	---	---	---	<310	<62	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-12-B8	02/28/14	12	---	---	---	---	---	<240	130a	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-5-B9	02/27/14	5	---	---	---	---	---	<310	370a	1,400a	<0.50	<0.50	<0.50	<0.50	<0.50
W-5.5-B10	02/27/14	5.5	---	---	---	---	---	<310	<62	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-14-B11	03/05/14	14	---	---	---	---	---	<310	<62	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-10-B12	02/26/14	10	---	---	---	---	---	<250	800a	5,900	<2.0	<2.0	<2.0	7.5	<2.0
W-10-B13	02/28/14	10	---	---	---	---	---	<250	1,500a	6,300	<5.0	12	8.8	290	22
B14	03/05/14 t	---	---	---	---	---	---	---	---	---	---	---	---	---	---
W-14-B15	03/05/14	14	---	---	---	---	---	<310	<62	<50	1.3	<0.50	<0.50	<0.50	<0.50
W-14-B16	02/26/14	14	---	---	---	---	---	<250	180a	170a	<0.50	1.1	<0.50	5.4	<0.50
W-10-B17	02/27/14	10	---	---	---	---	---	<270	<54	110a	<0.50	<0.50	<0.50	<0.50	<0.50

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 NAVD88, prior to April 2014, datum was mean sea level.
DTW	=	Depth to water.
GW Elev.	=	Groundwater elevation; datum is NAVD88, prior to April 2014, datum was 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 compounds or halogenated volatile organic compounds analyzed using EPA Method 8260B.
Add'l SVOCs	=	Additional semi-volatile organic compounds 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	=	The 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-methylnaphthalene.
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.
t	=	Groundwater did not enter boring, sample not collected.
u	=	Analyzed beyond the EPA-recommended hold time.
v	=	tert-butylbenzene.
w	=	cis-1,2-dichloroethene.

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

Notes:

- x = p-isopropyltoluene.
- y = Tetrachloroethene.
- z = Trichloroethene.

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	11/04/10	---	Well installed.								
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	---	---	
MW1	04/06/12	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---	
MW1	10/19/12	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---	
MW1	06/11/13	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---	
MW1	12/19/13	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---	
MW1	05/01/14	---	<0.50	<0.50	<0.50	5.1	<0.50	<0.50	---	---	
MW1	10/28/14	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	0.67f, 18w, 85u,y, 9.8,z	---	
MW2											
MW2	11/04/10	---	Well installed.								
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	---	---	
MW2	04/06/12	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---	
MW2	10/19/12	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---	
MW2	06/11/13	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---	
MW2	12/19/13	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---	
MW2	05/01/14	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---	
MW2	10/28/14	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	8.8e, 73u,y, 8.9z	---	
MW3											
MW3	11/08/10	---	Well installed.								
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	---	---	
MW3	04/06/12	---	<20	<20	<20	<200	<20	<20	---	---	
MW3	10/19/12	---	<10	<10	<10	<100	<10	<10	---	---	
MW3	06/11/13	---	<10	<10	<10	<100	<10	<10	---	---	
MW3	12/20/13	---	<10	<10	<10	<100	<10	<10	---	---	
MW3	05/01/14	---	<10	<10	<10	<100	<10	<10	---	---	
MW3	10/28/14	---	<20	<20	<20	<200	<20	<20	30b, 110d, 210e, 36g, 290h	---	
MW3A											
MW3A	01/18/12	---	Well installed.								
MW3A	04/06/12	---	<2.0	<2.0	<2.0	<20	<2.0	<2.0	---	---	
MW3A	10/19/12	---	<5.0	<5.0	<5.0	<50	<5.0	<5.0	---	---	
MW3A	06/11/13	---	<2.0	<2.0	<2.0	<20	<2.0	<2.0	---	---	

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)
MW3A	12/19/13	---	<2.0	<2.0	<2.0	<20	<2.0	<2.0	---	---
MW3A	05/01/14	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW3A	10/28/14	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	5.4b, 6.3c, 20d, 28e, 4.6f, 1.6g, 4.6h, 2.9v, 2.0x	---
MW4	11/05/10	---	Well installed.							
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	---	---
MW4	04/06/12	---	<10	<10	<10	<100	<10	<10	---	---
MW4	10/19/12	---	<10	<10	<10	<100	<10	<10	---	---
MW4	06/11/13	---	<10	<10	<10	<100	<10	<10	---	---
MW4	12/20/13	---	<10	<10	<10	<100	<10	<10	---	---
MW4	05/01/14	---	<10	<10	<10	<100	<10	<10	---	---
MW4	10/28/14	---	<10	<10	<10	<100	<10	<10	72b, 24c, 75d, 190e, 350f, 160g, 270h	---
MW5	11/11/10	---	Well installed.							
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	---	---
MW5	04/06/12	---	<0.50	<5.0	<5.0	<50	<5.0	<5.0	---	---
MW5	10/19/12	---	<20	<20	<20	<200	<20	<20	---	---
MW5	06/11/13	---	<20	<20	<20	<200	<20	<20	---	---
MW5	12/20/13	---	<20	<20	<20	<200	<20	<20	---	---
MW5	05/01/14	---	<10	<10	<10	<100	<10	<10	---	---
MW5	10/28/14	---	<10	<10	<10	<100	<10	<10	82b, 33c, 120d, 380e, 730f, 130g, 250h, 14x	---
MW6	11/03/10	---	Well installed.							
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	---	---
MW6	04/06/12	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW6	10/19/12	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW6	06/11/13	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW6	12/19/13	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW6	05/01/14	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW6	10/28/14	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	0.73c, 0.84d, 1.9e, 1.4h	---
MW7	12/08/14	---	Well installed.							
MW7	12/30/14	---	<5.0	<5.0	<5.0	<50	<5.0	13	---	---

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)
MW8	12/08/14	---	Well installed.							
MW8	12/30/14	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
AS1	01/18/12	---	Well installed.							
AS1	10/19/12 - Present	---	Not sampled.							
SVE1	01/17/12	---	Well installed.							
SVE1	10/19/12 - Present	---	Not sampled.							
SVE2	01/17/12	---	Well installed.							
SVE2	10/19/12 - Present	---	Not sampled.							
SVE3	01/17/12	---	Well installed.							
SVE3	10/19/12 - Present	---	Not sampled.							
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	---
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-SVE1-2	01/31/12	10	<1.0	<1.0	<1.0	57	<1.0	<1.0	---	---
W-10-SVE1-1	01/31/12	10	<2.0	<2.0	<2.0	62	<2.0	<2.0	---	---
W-5-B7	02/27/14	5	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
W-12-B8	02/28/14	12	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
W-5-B9	02/27/14	5	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
W-5.5-B10	02/27/14	5.5	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
W-14-B11	03/05/14	14	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---

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)
W-10-B12	02/26/14	10	<2.0	<2.0	<2.0	<20	<2.0	<2.0	---	---
W-10-B13	02/28/14	10	<5.0	<5.0	<5.0	<50	<5.0	<5.0	---	---
B14	03/05/14 t		---	---	---	---	---	---	---	---
W-14-B15	03/05/14	14	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
W-14-B16	02/26/14	14	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
W-10-B17	02/27/14	10	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---

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 NAVD88, prior to April 2014, datum was mean sea level.
DTW	=	Depth to water.
GW Elev.	=	Groundwater elevation; datum is NAVD88, prior to April 2014, datum was 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 compounds or halogenated volatile organic compounds analyzed using EPA Method 8260B.
Add'l SVOCs	=	Additional semi-volatile organic compounds 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	=	The 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-methylnaphthalene.
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.
t	=	Groundwater did not enter boring, sample not collected.
u	=	Analyzed beyond the EPA-recommended hold time.
v	=	tert-butylbenzene.
w	=	cis-1,2-dichloroethene.

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

Notes:

- x = p-isopropyltoluene.
- y = Tetrachloroethene.
- z = Trichloroethene.

TABLE 2
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	44.19	8	17	17	2	Schedule 40 PVC	12-17	0.020	10-17	#3 Sand
MW2	11/04/10	43.99	8	17	17	4	Schedule 40 PVC	12-17	0.020	10-17	#3 Sand
MW3	11/08/10	43.16	8	17	17	4	Schedule 40 PVC	11-16	0.020	9-16	#3 Sand
MW3A	01/18/12	43.42	10	15.5	15.5	4	Schedule 40 PVC	5-15	0.020	4.5-15.5	#2/12 Sand
MW4	11/05/10	42.04	8	17	13	2	Schedule 40 PVC	8-13	0.020	6-13	#3 Sand
MW5	11/05/10	43.12	8	17	14	2	Schedule 40 PVC	9-14	0.020	7-14	#3 Sand
MW6	11/03/10	43.80	10	20	20	2	Schedule 40 PVC	15-20	0.020	13-20	#3 Sand
MW7	12/08/14	41.21	10	15	15	2	Schedule 40 PVC	5-15	0.020	4-15	#3 Sand
MW8	12/08/14	39.65	10	15	15	2	Schedule 40 PVC	5-15	0.020	4-15	#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	43.32	10	15.5	15.5	4	Schedule 40 PVC	5-15	0.020	4.5-15.5	#2/12 Sand
SVE2	01/17/12	43.68	10	15	15	4	Schedule 40 PVC	5-15	0.020	4.5-15	#2/12 Sand
SVE3	01/17/12	43.67	10	15	15	4	Schedule 40 PVC	5-15	0.020	4.5-15.5	#2/12 Sand
SVS1	02/25/14	---	4	5.6	5.6	0.25	PVC	5.4-5.6	0.010	4.6-5.6	#3 Sand
SVS2	02/25/14	---	4	5.6	5.6	0.25	PVC	5.4-5.6	0.010	4.6-5.6	#3 Sand
SVS3	02/25/14	---	4	5.6	5.6	0.25	PVC	5.4-5.6	0.010	4.6-5.6	#3 Sand

Notes:

- TOC = Top of well casing elevation; datum is NAVD88.
- PVC = Polyvinyl chloride.
- feet bgs = Feet below ground surface.

TABLE 3A
CUMULATIVE SOIL ANALYTICAL RESULTS
Former Exxon Service Station 79374
990 San Pablo Boulevard
Albany, California
(Page 1 of 4)

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)	Naphthalene (mg/kg)	VOCs (mg/kg)	Lead (mg/kg)
Environmental Screening Levels, Potential Drinking Water Source (December 2013)																			
Shallow (<10 feet bgs), Residential (Table A-1)			---	100	100	0.023	0.044	2.9	3.3	2.3	0.00033	0.0045	0.075	---	---	---	1.2	---	80
Shallow (<10 feet bgs), Commercial (Table A-2)			---	110	500	0.023	0.044	2.9	3.3	2.3	0.00033	0.0045	0.075	---	---	---	1.2	---	320
Deep (≥10 feet bgs), Residential (Table C-1)			---	110	500	0.023	0.044	2.9	3.3	2.3	0.00033	0.0045	0.075	---	---	---	1.2	---	80
Deep (≥10 feet bgs), Commercial (Table C-2)			---	110	770	0.023	0.044	2.9	3.3	2.3	0.00033	0.0045	0.075	---	---	---	1.2	---	320
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	---	---	---	---	---	---	---	---	---
S-5-B7	02/27/14	5.0	<25	<5.0	<0.50	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.0099	<0.0099	<0.0099	<0.050	---	---
S-11.5-B7	02/27/14	11.5	<25	<5.0	<0.49	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---	---	---
S-5-B8	02/28/14	5.0	<25	<5.0	<0.52	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.050	---	---
S-11.5-B8	02/28/14	11.5	<25	<5.0	<0.51	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0098	<0.0098	<0.0098	---	---	---
S-15.5-B8	02/28/14	15.5	<26	<5.1	<0.48	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---	---	---
S-5-B9	02/27/14	5.0	<25	<5.0	<0.52	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.050	---	---
S-11.5-B9	02/27/14	11.5	<25	<5.0	<0.52	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0098	<0.0098	<0.0098	---	---	---
S-5-B10	02/27/14	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	<0.050	---	---
S-11.5-B10	02/27/14	11.5	<24	<4.9	<0.49	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	---	---	---
S-5-B11	02/28/14	5.0	<25	<5.0	<0.50	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	<0.051	<0.010	<0.010	<0.010	<0.051	---	---
S-11.5-B11	03/05/14	11.5	<25	<5.0	<0.50	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.052	<0.010	<0.010	<0.010	---	---	---
S-15-B11	03/05/14	15.0	<24	<4.9	<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-B12	02/26/14	5.0	<25	<5.0	<0.50	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0098	<0.0098	<0.0098	<0.049	---	---
S-11.5-B12	02/26/14	11.5	<25	<5.0	0.50a	<0.0052	0.00074g	<0.0052	0.00026g	<0.0052	<0.0052	<0.0052	<0.052	<0.010	<0.010	<0.010	---	---	---
S-5-B13	02/25/14	5.0	<24	<4.9	<0.48	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.0052	<0.052	<0.010	<0.010	<0.010	<0.052	---	---
S-11.5-B13	02/28/14	11.5	<25	160a	1,800	<1.0	<1.0	<1.0	16	1.5	<1.0	<1.0	<10	<2.0	<2.0	<2.0	---	---	---

**TABLE 3A
CUMULATIVE SOIL ANALYTICAL RESULTS**
Former Exxon Service Station 79374
990 San Pablo Boulevard
Albany, California
(Page 3 of 4)

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)	Naphthalene (mg/kg)	VOCs (mg/kg)	Lead (mg/kg)
Environmental Screening Levels, Potential Drinking Water Source (December 2013)																			
Shallow (<10 feet bgs), Residential (Table A-1)			---	100	100	0.023	0.044	2.9	3.3	2.3	0.00033	0.0045	0.075	---	---	---	1.2	---	80
Shallow (<10 feet bgs), Commercial (Table A-2)			---	110	500	0.023	0.044	2.9	3.3	2.3	0.00033	0.0045	0.075	---	---	---	1.2	---	320
Deep (≥10 feet bgs), Residential (Table C-1)			---	110	500	0.023	0.044	2.9	3.3	2.3	0.00033	0.0045	0.075	---	---	---	1.2	---	80
Deep (≥10 feet bgs), Commercial (Table C-2)			---	110	770	0.023	0.044	2.9	3.3	2.3	0.00033	0.0045	0.075	---	---	---	1.2	---	320
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	---	---	---
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-MW7	12/08/14	5.0	---	<5.0	<0.52	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	---	---	<0.048	<0.0096	<0.0096	<0.0096	---	---	---
S-10-MW7	12/08/14	10.0	---	120a	540a	<2.0	<2.0	<2.0	<2.0	<2.0	---	---	<20	<4.0	<4.0	<4.0	---	---	---
S-15-MW7	12/08/14	15.0	---	<5.0	<0.51	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	---	---	<0.048	<0.0096	<0.0096	<0.0096	---	---	---
S-5-MW8	12/08/14	5.0	---	<5.0	<0.48	<0.0051	<0.0051	<0.0051	<0.0051	<0.0051	---	---	<0.051	<0.010	<0.010	<0.010	---	---	---
S-10-MW8	12/08/14	10.0	---	<5.0	<0.52	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	---	---	<0.048	<0.0096	<0.0096	<0.0096	---	---	---
S-15-MW8	12/08/14	15.0	---	<5.0	<0.49	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	---	---	<0.049	<0.0097	<0.0097	<0.0097	---	---	---
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	---	---	---
S-5-SVS1	02/25/14	5.0	<25	<5.0	<0.50	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.0049	<0.049	<0.0099	<0.0099	<0.0099	<0.049	---	---
S-5-SVS2	02/25/14	5.0	<25	<5.0	<0.49	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.0048	<0.048	<0.0096	<0.0096	<0.0096	<0.048	---	---
S-5-SVS3	02/25/14	5.0	<25	<5.0	5.0a	<0.0050	0.00036g	<0.0050	0.0030g	0.00088g	<0.0050	<0.0050	0.016g	<0.010	<0.010	<0.010	0.0038g	---	---
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
SP1	03/05/14	---	<24	<4.9	<0.49	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.050	<0.010	<0.010	<0.010	<0.050	ND	5.34

TABLE 3A
CUMULATIVE SOIL ANALYTICAL RESULTS

Former Exxon Service Station 79374
990 San Pablo Boulevard
Albany, California
(Page 4 of 4)

Notes:

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 using 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-Dichloroethane 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.
Lead	=	Total lead analyzed using EPA Method 6010B.
VOCs	=	Volatile organic compounds analyzed using EPA Method 8260B.
HVOCs	=	Halogenated volatile organic compounds analyzed using EPA Method 8260B.
PAHs	=	Polyaromatic hydrocarbons analyzed using EPA Method 8310.
feet bgs	=	Feet below ground surface.
ND	=	Not detected.
---	=	Not analyzed/Not applicable
<	=	Less than the laboratory reporting limit.
a	=	The 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	=	Estimated value; analyte present at concentration above the method detection limit but below the reporting limit.

TABLE 3B
ADDITIONAL CUMULATIVE SOIL ANALYTICAL RESULTS - HVOCs AND PAHs

Former Exxon Service Station 79374

990 San Pablo Boulevard

Albany, California

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Notes:

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 using 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-Dichloroethane 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.
Lead	=	Total lead analyzed using EPA Method 6010B.
VOCs	=	Volatile organic compounds analyzed using EPA Method 8260B.
HVOCs	=	Halogenated volatile organic compounds analyzed using EPA Method 8260B.
PAHs	=	Polyaromatic hydrocarbons analyzed using EPA Method 8310.
feet bgs	=	Feet below ground surface.
ND	=	Not detected.
---	=	Not analyzed/Not applicable
<	=	Less than the laboratory reporting limit.
a	=	The 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	=	Estimated value; analyte present at concentration above the method detection limit but below the reporting limit.

APPENDIX A

CORRESPONDENCE



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August 22, 2014

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4096 Piedmont Ave., #194
Oakland, CA 94611

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

(Sent via E-mail to:

jennifer.c.sedlachek@exxonmobil.com)

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

Dear Ms. Sedlachek and Mrs. Blank:

Alameda County Environmental Health (ACEH) staff has reviewed the case file including the *Work Plan for Well Installation*, dated July 7, 2014, and the *Groundwater Monitoring Report, First and Second Quarter 2014*, dated July 18, 2014, which were prepared and submitted on your behalf by Cardno ERI (Cardno) for the subject site. Thank you for submitting the reports.

Based on ACEH staff review of the work plan, the proposed scope of work is conditionally approved for implementation provided that the technical comments below are incorporated during the proposed work. Submittal of a revised work plan or a work plan addendum is not required unless an alternate scope of work outside that described in the work plan or these technical comments is proposed. We request that you address the following technical comments, perform the proposed work, and send us the report described below. Please provide 72-hour advance written notification to this office (e-mail preferred to: mark.detterman@acqov.org) prior to the start of field activities.

TECHNICAL COMMENTS

1. **Work Plan Modifications** – The referenced work plan proposes a series of actions with which ACEH is in general agreement of undertaking; however, ACEH requests a modification to the approach. Please submit a report by the date specified below.

- a. **Subsurface Clearance Protocols** – The referenced work plan proposes to clear well bore locations with hand tools or an air knife. ACEH requests that clearance not include air knifing due to the likelihood of volatilization of light hydrocarbon fractions, in particular in the vicinity of soil bore B12 / MW7.

TECHNICAL REPORT REQUEST

Please upload technical reports to the ACEH ftp site (Attention: Mark Detterman), and to the State Water Resources Control Board's Geotracker website, in accordance with the following specified file naming convention and schedule:

- **September 19, 2014** – Draft Feasibility Study / Corrective Action Plan
File to be named: RO2974_DRAFT_FEASSTUD_R_yyyy-mm-dd

- **November 15, 2014** – Site Investigation Report
File to be named: RO2974_SWI_R_yyyy-mm-dd
- **December 5, 2014** – Semi-Annual Groundwater Monitoring Report
File to be named: RO2974_GWM_R_yyyy-mm-dd

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

Online case files are available for review at the following website: <http://www.acgov.org/aceh/index.htm>. If your email address does not appear on the cover page of this notification, ACEH is requesting you provide your email address so that we can correspond with you quickly and efficiently regarding your case.

Thank you for your cooperation. If you have any questions, please call me at (510) 567-6876 or send me an electronic mail message at mark.detterman@acgov.org.

Sincerely,



Digitally signed by Mark E. Detterman
DN: cn=Mark E. Detterman, o, ou,
email, c=US
Date: 2014.08.22 15:31:19 -07'00'

Mark E. Detterman, PG, CEG
Senior Hazardous Materials Specialist

Enclosures: Attachment 1 – Responsible Party (ies) Legal Requirements / Obligations
Electronic Report Upload (ftp) Instructions

cc: Rebekah Westrup, Environmental Resolutions, Inc., 601 North McDowell Blvd., Petaluma, CA 94954 (Sent via E-mail to: rebekah.westrup@cardno.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)

Dilan Roe, ACEH (Sent via E-mail to: dilan.roe@acgov.org)
Mark Detterman, ACEH (sent via electronic mail to mark.detterman@acgov.org)
GeoTracker, file

Attachment 1

Responsible Party(ies) Legal Requirements / Obligations

REPORT REQUESTS

These reports are being requested pursuant to California Health and Safety Code Section 25296.10. 23 CCR Sections 2652 through 2654, and 2721 through 2728 outline the responsibilities of a responsible party in response to an unauthorized release from a petroleum UST system, and require your compliance with this request.

ELECTRONIC SUBMITTAL OF REPORTS

ACEH's Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of reports in electronic form. The electronic copy replaces paper copies and is expected to be used for all public information requests, regulatory review, and compliance/enforcement activities. Instructions for submission of electronic documents to the Alameda County Environmental Cleanup Oversight Program FTP site are provided on the attached "Electronic Report Upload Instructions." Submission of reports to the Alameda County FTP site is an addition to existing requirements for electronic submittal of information to the State Water Resources Control Board (SWRCB) GeoTracker website. In September 2004, the SWRCB adopted regulations that require electronic submittal of information for all groundwater cleanup programs. For several years, responsible parties for cleanup of leaks from underground storage tanks (USTs) have been required to submit groundwater analytical data, surveyed locations of monitoring wells, and other data to the GeoTracker database over the Internet. Beginning July 1, 2005, these same reporting requirements were added to Spills, Leaks, Investigations, and Cleanup (SLIC) sites. Beginning July 1, 2005, electronic submittal of a complete copy of all reports for all sites is required in GeoTracker (in PDF format). Please visit the SWRCB website for more information on these requirements (http://www.waterboards.ca.gov/water_issues/programs/ust/electronic_submittal/).

PERJURY STATEMENT

All work plans, technical reports, or technical documents submitted to ACEH must be accompanied by a cover letter from the responsible party that states, at a minimum, the following: "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." This letter must be signed by an officer or legally authorized representative of your company. Please include a cover letter satisfying these requirements with all future reports and technical documents submitted for this fuel leak case.

PROFESSIONAL CERTIFICATION & CONCLUSIONS/RECOMMENDATIONS

The California Business and Professions Code (Sections 6735, 6835, and 7835.1) requires that work plans and technical or implementation reports containing geologic or engineering evaluations and/or judgments be performed under the direction of an appropriately registered or certified professional. For your submittal to be considered a valid technical report, you are to present site specific data, data interpretations, and recommendations prepared by an appropriately licensed professional and include the professional registration stamp, signature, and statement of professional certification. Please ensure all that all technical reports submitted for this fuel leak case meet this requirement.

UNDERGROUND STORAGE TANK CLEANUP FUND

Please note that delays in investigation, later reports, or enforcement actions may result in your becoming ineligible to receive grant money from the state's Underground Storage Tank Cleanup Fund (Senate Bill 2004) to reimburse you for the cost of cleanup.

AGENCY OVERSIGHT

If it appears as though significant delays are occurring or reports are not submitted as requested, we will consider referring your case to the Regional Board or other appropriate agency, including the County District Attorney, for possible enforcement actions. California Health and Safety Code, Section 25299.76 authorizes enforcement including administrative action or monetary penalties of up to \$10,000 per day for each day of violation.

Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC)	REVISION DATE: May 15, 2014
	ISSUE DATE: July 5, 2005
	PREVIOUS REVISIONS: October 31, 2005; December 16, 2005; March 27, 2009; July 8, 2010, July 25, 2010
SECTION: Miscellaneous Administrative Topics & Procedures	SUBJECT: Electronic Report Upload (ftp) Instructions

The Alameda County Environmental Cleanup Oversight Programs (LOP and SLIC) require submission of all reports in electronic form to the county's ftp site. Paper copies of reports will no longer be accepted. The electronic copy replaces the paper copy and will be used for all public information requests, regulatory review, and compliance/enforcement activities.

REQUIREMENTS

- **Please do not submit reports as attachments to electronic mail.**
- Entire report including cover letter must be submitted to the ftp site as a **single portable document format (PDF) with no password protection.**
- It is **preferable** that reports be converted to PDF format from their original format, (e.g., Microsoft Word) rather than scanned.
- **Signature pages and perjury statements must be included and have either original or electronic signature.**
- **Do not password protect the document.** Once indexed and inserted into the correct electronic case file, the document will be secured in compliance with the County's current security standards and a password. **Documents with password protection will not be accepted.**
- Each page in the PDF document should be rotated in the direction that will make it easiest to read on a computer monitor.
- Reports must be named and saved using the following naming convention:

RO#_Report Name_Year-Month-Date (e.g., RO#5555_WorkPlan_2005-06-14)

Submission Instructions

- 1) Obtain User Name and Password
 - a) Contact the Alameda County Environmental Health Department to obtain a User Name and Password to upload files to the ftp site.
 - i) Send an e-mail to deh.loptoxic@acgov.org
 - b) In the subject line of your request, be sure to include **"ftp PASSWORD REQUEST"** and in the body of your request, include the **Contact Information, Site Addresses, and the Case Numbers (RO# available in Geotracker) you will be posting for.**
- 2) Upload Files to the ftp Site
 - a) Using Internet Explorer (IE4+), go to <ftp://alcoftp1.acgov.org>
 - (i) Note: Netscape, Safari, and Firefox browsers will not open the FTP site as they are NOT being supported at this time.
 - b) Click on Page located on the Command bar on upper right side of window, and then scroll down to Open FTP Site in Windows Explorer.
 - c) Enter your User Name and Password. (Note: Both are Case Sensitive.)
 - d) Open "My Computer" on your computer and navigate to the file(s) you wish to upload to the ftp site.
 - e) With both "My Computer" and the ftp site open in separate windows, drag and drop the file(s) from "My Computer" to the ftp window.
- 3) Send E-mail Notifications to the Environmental Cleanup Oversight Programs
 - a) Send email to deh.loptoxic@acgov.org notify us that you have placed a report on our ftp site.
 - b) Copy your Caseworker on the e-mail. Your Caseworker's e-mail address is the entire first name then a period and entire last name @acgov.org. (e.g., firstname.lastname@acgov.org)
 - c) The subject line of the e-mail must start with the RO# followed by **Report Upload**. (e.g., Subject: RO1234 Report Upload) If site is a new case without an RO#, use the street address instead.
 - d) If your document meets the above requirements and you follow the submission instructions, you will receive a notification by email indicating that your document was successfully uploaded to the ftp site.

From: Detterman, Mark, Env. Health [<mailto:Mark.Detterman@acgov.org>]
Sent: Friday, October 24, 2014 1:38 PM
To: Greg Gurss
Subject: RE: Former Exxon 79374, 990 San Pablo Avenue, Albany, CA (No. RO0002974)

Greg,

Thanks for the update. ACEH is in agreement that the requested extension is warranted. Please use this email to document this. I will update Geotracker shortly.

Mark Detterman
Senior Hazardous Materials Specialist, PG, CEG
Alameda County Environmental Health
1131 Harbor Bay Parkway
Alameda, CA 94502
Direct: 510.567.6876
Fax: 510.337.9335
Email: mark.detterman@acgov.org

PDF copies of case files can be downloaded at:

<http://www.acgov.org/aceh/lop/ust.htm>

From: Greg Gurss [<mailto:greg.gurss@cardno.com>]
Sent: Friday, October 24, 2014 1:23 PM
To: Detterman, Mark, Env. Health
Subject: Former Exxon 79374, 990 San Pablo Avenue, Albany, CA (No. RO0002974)

Mr. Detterman,

Alameda County Environmental Health (ACEH) issued a letter dated August 22, 2014 requesting that the Site Investigation Report (2 offsite wells) be submitted by November 15, 2014. Cardno received the encroachment permit from the City of Albany on October 16, 2014. Upon receipt, we contacted the driller to schedule the scope work. The driller informed us that they are not available until December 8, 2014. Based on this, we are requesting an extension for submittal of Site Investigation Report to January 23, 2015.

Please call or email if you should have any questions. Thank you.

Greg A. Gurss
SACRAMENTO BRANCH MANAGER
CARDNO ENGINEERING & ENVIRONMENTAL SERVICES



Phone (+1) 916-692-3100 Fax (+1) 707-789-0414 Direct (+1) 916-692-3130 Mobile (+1) 916-842-6486
Address 701 University Avenue, Suite 200, Sacramento, CA 95825
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This email and its attachments may contain confidential and/or privileged information for the sole use of the intended recipient(s). All electronically supplied data must be checked against an applicable hardcopy version which shall be the only document which Cardno warrants accuracy. If you are not the intended recipient, any use, distribution or copying of the information contained in this email and its attachments is strictly prohibited. If you have received this email in error, please email the sender by replying to this message and immediately delete and destroy any copies of this email and any attachments. The views or opinions expressed are the author's own and may not reflect the views or opinions of Cardno.

APPENDIX B

SITE CONCEPTUAL MODEL

Element	Description	Data Gaps
Geology and Hydrogeology		
Regional Geology and Hydrogeology	<p>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 active northwest trending Hayward fault is located approximately 1.5 miles northeast of the site.</p> <p>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.</p>	None
Site Geology, Hydrogeology, Hydraulic Flow, and Groundwater Gradient	<p>Soil boring logs 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. Fill material was encountered in the boring for well SVE3 (located in the former UST pit) to approximately 7 feet bgs. CPT borings indicate the presence of predominantly silt and clay between approximately 20 and 60 feet bgs, the maximum depth explored. Coarse-grained layers up to 3 feet thick are interbedded with the silt and clay (EC&A, 2008; Cardno ERI, 2011; Cardno ERI, 2012).</p> <p>Historical groundwater elevation data indicate that DTW ranges from 5 to 11 feet bgs beneath the site with varying groundwater flow directions. The distribution of dissolved-phase hydrocarbons suggests that the dominant groundwater flow direction is west to southwest (Cardno ERI, 2014b).</p> <p>Due to varying well construction, Cardno ERI separated the wells into shallow and deep water-bearing zones. Wells MW3A, MW4, MW5, and SVE1 through SVE3 are screened no deeper than 15 feet bgs and are referred to as the shallow water-bearing zone; wells MW1 through MW3 and MW6 have screened intervals that extend deeper than 15 feet bgs and are referred to as the deep water-bearing zone. The groundwater elevations in wells screened deeper than 15 feet are commonly irregular and do not agree with the distribution of petroleum hydrocarbon concentrations. Although the water-bearing zones are referred to as shallow and deep, they likely do not represent unique water-bearing zones. During fourth quarter 2013, the groundwater flow direction in the shallow water-bearing zone was towards the southwest with a hydraulic gradient of approximately 0.008. Due to varying well construction, the groundwater flow in the deep water-bearing zone is not calculated (Cardno ERI, 2014b).</p>	None
Facility History		
Facility Structures and Site Operations	<p>In 1945, a service station owned by Signal Oil Company occupied the site. Humble Oil company acquired the site in 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 1975 (EDR, 2009a; EDR, 2009b).</p> <p>The service station was demolished in 1983. During demolition activities, one used-oil UST and four gasoline USTs were removed and the resulting tank cavity was backfilled with sand and compacted to 90% (City of Albany, 1983).</p> <p>Cardno ERI reviewed eight aerial photographs of the site and site vicinity dated from September 6, 1949, to June 21, 1983 (EDR, 2009b). Based on these photographs, the dispenser islands appeared to be located beneath the station canopy on the northern portion of the site and the former USTs appeared to be located on the southern portion of the site, east of the station's service bays. The location of the former used-oil UST is unknown. The approximate location of the former USTs are shown on Plate 2.</p> <p>A retail outlet for Benjamin Moore paints and painting products and associated asphalt parking currently occupy the site.</p>	None

Element	Description	Data Gaps
Sensitive Receptors, Land Use, and Nearby Sites		
Surface Water Bodies	The site is located approximately 1,630 feet north-northwest of Cordornices Creek. No other surface water bodies have been located within a 300-meter radius of the site.	None
Nearby Wells	There are not public water supply, municipal, or domestic wells located within a ¼-mile radius of the site.	None
Public Use Areas	Two public use areas are present within a 100-meter radius of the site: the City of Albany Police, Fire, and City offices located across Buchanan Street at 1000 San Pablo Avenue and a physical therapy office located in the strip mall approximately 50 meters north of the site.	None
Residences	Sixteen residential buildings have been identified within a 300-meter radius of the site; five of those buildings are located within a 100-meter radius of the site.	None
Sub-Grade	Sub-grade structures have not been identified within a 100-meter radius of the site.	None
Utility Vaults	Twenty-three vaults have been identified on or immediately adjacent to the site. Vault uses include: water, telephone, gas meter, electric, sewer, traffic box, traffic signal, and anode.	None
Storm and Sanitary Sewers	Three storm drains are located on or adjacent to the site. The storm drains daylight along the curb and water flows west along Buchanan Street. The City of Albany Public Works Department confirmed that the storm drains discharge directly into the Bay. Two sanitary sewer cleanout vaults are located on site. The City of Albany Public Works Department confirmed that sewage is discharged at the East Bay Municipal Utilities District Treatment Plant, located 4.5 miles south of the site, at the entrance to the San Francisco Bay Bridge.	None
Other	Other site receptors have not been identified.	None
Nearby Sites	The surrounding areas consist of residential and commercial properties (Plate 2). The City of Albany Fire Department and Police Department are located south of the site on Buchanan Street. ACEH case number RO0000119, identified as Firestone #3655 in the GeoTracker™ database, is located across San Pablo Avenue to the east. A Shell Service Station and an Atlantic Richfield Company Service Station (Arco) are located approximately 350 and 500 feet away, respectively, south-southeast of the site.	None
Release Information		
Release History	The primary sources of petroleum hydrocarbons at the site are the former used-oil UST and the four former gasoline USTs. The USTs were removed in 1983 (City of Albany, 1983).	None
Extent and Distribution of Petroleum Hydrocarbon Concentrations	Non-Aqueous Phase Liquid An immiscible sheen was reported in groundwater samples collected from borings B1 and B2 (EC&A, 2008). Neither NAPL nor sheen have been observed in the groundwater monitoring wells at the site; however, during fourth quarter 2012, concentrations of TPHg (270,000 µg/L) reported in well MW4 were potentially indicative of the presence of NAPL. Although the TPHg concentrations increased, BTEX concentrations were consistent with previous data. Concentrations of TPHg reported since fourth quarter 2012 have and not indicative of the presence of NAPL and fourth quarter 2013 (13,000 µg/L) consistent with historical results. The fourth quarter 2012 TPHd result for well MW4 appears to have been anomalous.	None

Element	Description	Data Gaps
	<p>Hydrocarbons in Groundwater</p> <p>Current and historic maximum dissolved-phase petroleum hydrocarbon concentrations have been reported in well MW3, located in the vicinity of the former USTs, and wells MW4 and MW5, located west of the former USTs. Concentrations are delineated to the east of the site by wells MW1 and MW2 and to the south of the site by borings B11 and B15.</p> <p>Dissolved-phase hydrocarbons are adequately vertically delineated at the site with petroleum hydrocarbon concentrations below or near the laboratory reporting limits in groundwater samples collected deeper than 27.5 feet bgs (Cardno ERI, 2011).</p> <p>Data Gap: Dissolved-phase petroleum hydrocarbons require monitoring off site to the west and southwest near borings B9 and B12.</p> <p>How to Address: Cardno ERI installed two off-site wells near borings B9 and B12. Cardno ERI recommends incorporating the wells into the semi-annual groundwater monitoring and sampling schedule at the site. Cardno ERI recommends installing an additional well south of well MW8.</p>	Yes
	<p>Hydrocarbons in Soil</p> <p>Maximum residual petroleum hydrocarbon concentrations are present at approximately 10.5 feet bgs in the vicinity of the former USTs. With the exception of naphthalene by EPA Method 8310 in boring B13 (5 feet bgs) and TPHg in borings B4 (5 feet bgs) and SVE1 (8.5 feet bgs), residual petroleum hydrocarbon concentrations have been near or below reporting limits in the shallow soil samples collected at the site, including samples collected in the vicinity of the former UST and suspected dispenser island locations. Residual petroleum hydrocarbon concentrations are adequately delineated in both shallow (less than 10 feet bgs) and deep (greater than or equal to 10 feet bgs) soil to the northeast, the northwest, the west, the east, the southwest, and the south by borings B5 through B11, B14, B15, MW1, MW2, and CPT1. Residual TPHg (530 mg/kg) is present to the north at 10 feet bgs in boring B16, but is near or below reporting limits at 5 and 15.5 feet bgs (EC&A, 2008; Cardno ERI, 2011; Cardno ERI, 2014a).</p>	None
	<p>Hydrocarbons in Soil Vapor</p> <p>Maximum vapor-phase concentrations are present in well SVS3, located in the vicinity of the suspected locations of the former dispenser islands. Petroleum hydrocarbons exceed ESLs by up to three orders of magnitude in wells SVS1 through SVS3.</p> <p>Data Gap: Vapor-phase concentrations exceed applicable screening levels.</p> <p>How to Address: Cardno ERI will submit a Feasibility Study/Corrective Action Plan (FS/CAP) to address vapor-phase concentrations.</p>	Yes
Exposure Routes and Potential Receptors		
Exposure Routes and Potential Receptors	<p>Utility trench backfill material is not acting as a preferential pathway for petroleum hydrocarbon concentrations (Cardno ERI, 2014a).</p> <p>There are not public water supply, municipal, or domestic wells located within a quarter mile of the site. The nearest surface water body (Cordornices Creek) is located approximately 1,630 feet south-southeast of the site. Residual and dissolved-phase petroleum hydrocarbons are delineated south and east of the site and are not likely to migrate to Cordornices Creek.</p> <p>A construction worker excavating soil at the site is a potential receptor; however, since the site is paved, direct exposure (via ingestion or dermal contact) to chemicals of concern released during Exxon's operations is not likely.</p> <p>The potential exposure route of vapor inhalation may exist in the commercial/industrial setting for workers in the on-site retail outlet.</p> <p>Users of shallow and deep groundwater are potential receptors.</p> <p>Data Gap: See the groundwater and soil vapor data gaps in the Release Information section.</p>	Yes

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.*
- Cardno ERI. February 28, 2011. *Site Assessment Report, Former Exxon Service Station 79374, 990 San Pablo Avenue, Albany, California.*
- Cardno ERI. April 12, 2012. *Well Installation Report, Former Exxon Service Station 79374, 990 San Pablo Avenue, Albany, California.*
- Cardno ERI. July 7, 2014a. *Work Plan for Well Installation, Former Exxon Service Station 79374, 990 San Pablo Avenue, Albany, California.*
- Cardno ERI. September 5, 2014b. *Response to Comments and Request for Extension, Former Exxon Service Station 79374, 990 San Pablo Avenue, Albany, California.*
- City of Albany. March 28, 1983. *Building Permit 82-0708.*
- Edd Clark & Associates (EC&A). January 31, 2008. *Report of Phase II Environmental Assessment, 990 San Pablo Avenue, Albany, California.*
- Environmental Data Resources Inc. (EDR). December 1, 2009a. *The EDR-City Directory Abstract, 990 San Pablo Avenue, Albany, CA 94706. Inquiry Number:2648519.6.*
- Environmental Data Resources Inc. (EDR). December 1, 2009b. *Certified Sanborn® Map Report, 990 San Pablo Avenue, Albany, CA 94706. Inquiry Number 2648519.36.*
- Graymer, R.W. 2000. *Geological 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.*

APPENDIX C

FIELD PROTOCOLS

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.

GROUNDWATER SAMPLING PROTOCOL

The static water level and separate-phase product level, if present, in each well that contained water and/or separate-phase product are measured with a ORS Interface Probe, which is accurate to the nearest 0.01 foot. To calculate groundwater elevations and evaluate groundwater gradient, depth to water (DTW) levels are subtracted from top of casing elevations.

Groundwater samples collected for subjective evaluation are collected by gently lowering approximately half the length of a clean Teflon® or polypropylene bailer past the air-water interface (if possible) and collecting a sample from near the surface of the water in the well. The samples are checked for measurable free-phase hydrocarbons or sheen. If appropriate, free-phase hydrocarbons are removed from the well.

Before water samples are collected from the groundwater monitoring wells, the wells are purged until a minimum of three well casing volumes is purged and stabilization of the temperature, pH, and conductivity is obtained. Water samples from the wells that do not obtain stability of the temperature, pH, and conductivity are considered to be "grab samples." The quantity of water purged from each well is calculated as follows:

1 well casing volume = $\pi r^2 h (7.48)$ where:

r	=	radius of the well casing in feet
h	=	column of water in the well in feet (depth to bottom - depth to water)
7.48	=	conversion constant from cubic feet to gallons
π	=	ratio of the circumference of a circle to its diameter

Gallons of water purged/gallons in 1 well casing volume = well casing volumes removed.

The wells are purged using a submersible pump. Prior to use at the site and between wells the pump is cleaned.

Five gallons of water are placed in three 15-gallon tubs. Liquinox detergent is added to the first tub of water. The pump and tubing are submerged in the first tub and the water is pumped through the pump. The process is repeated in the second and third tub.

After purging, each well is allowed to recharge to at least 80% of the initial water level. Water samples from wells that do not recover at least 80% (due to slow recharging of the well) between purging and sampling are considered to be "grab samples." Water samples are collected with a new, disposable Teflon® or polypropylene bailer. The groundwater is carefully poured into selected sample containers (40-milliliter [ml] glass vials, 1,000-ml glass amber bottles, etc.), which are filled so as to produce a positive meniscus.

Depending on the required analysis, each sample container is preserved with hydrochloric acid, nitric acid, etc., or it is preservative free. The type of preservative used for each sample is specified on the Chain-of-Custody record.

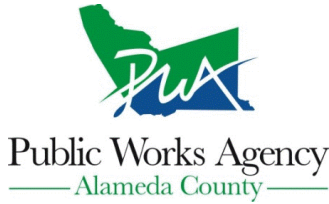
Each vial and glass amber bottle is sealed with a cap containing a Teflon® septum, and subsequently examined for air bubbles to avoid headspace, which would allow volatilization to occur. The samples are promptly transported in iced storage in a thermally-insulated ice chest, accompanied by a Chain-of-Custody record, to a California state-certified laboratory.

Water generated during purging and cleaning is contained and transported off site for treatment and disposal.

APPENDIX D

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: 10/22/2014 By jamesy

Permit Numbers: W2014-0961 to W2014-0962
Permits Valid from 11/03/2014 to 11/07/2014

Application Id: 1413410168769
Site Location: 990 San Pablo Avenue, Albany.

City of Project Site:Albany

Project Start Date: 11/03/2014
Assigned Inspector: Contact Steve Miller at (510) 670-5517 or stevem@acpwa.org

Completion Date:11/07/2014

Applicant: Cardno ERI - Nadya Vicente
601 North McDowell Blvd, Petaluma, CA 94954
Property Owner: Blank Family Trust Trustees
1164 Solano Ave., Albany, CA 94706
Client: Jennifer Sedlachek
4096 Piedmont Ave, Oakland, CA 94611
Contact: Greg Gurss

Phone: 707-280-7487
Phone: 510-527-4337
Phone: 510-547-8196
Phone: 916-842-6486
Cell: --

Receipt Number: WR2014-0421	Total Due:	\$794.00
Payer Name : nadya m vicente	Total Amount Paid:	\$794.00
	Paid By: MC	PAID IN FULL

Works Requesting Permits:

Well Construction-Monitoring-Monitoring - 2 Wells
Driller: Gregg Drilling and Testing - Lic #: 485165 - Method: hstem

Work Total: \$794.00

Specifications

Permit #	Issued Date	Expire Date	Owner Well Id	Hole Diam.	Casing Diam.	Seal Depth	Max. Depth
W2014-0961	10/22/2014	02/01/2015	MW7	10.00 in.	2.00 in.	5.00 ft	15.00 ft
W2014-0962	10/22/2014	02/01/2015	MW8	10.00 in.	2.00 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. Prior to any drilling activities, it shall be the applicant's responsibility to contact and coordinate an Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits or agreements required for that Federal, State, County or City, and follow all City or County Ordinances. No work shall begin until all the permits and requirements have been approved or obtained. It shall also be the applicants responsibilities to provide to the Cities or to Alameda County an 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.

Alameda County Public Works Agency - Water Resources Well Permit

4. 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.
 5. Applicant shall submit the copies of the approved encroachment permit to this office within 60 days.
 6. Applicant shall contact assigned inspector listed on the top of the permit 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.
-



City of Albany



ENCROACHMENT PERMIT PERMANENT OR TEMPORARY CONSTRUCTION WITHIN CITY RIGHT OF WAY PERMIT NO. 14-271

LOCATION: 990 San Pablo Avenue, Albany, California 94706

NAME	ADDRESS	Phone No. Normal/Emergency	Business Lic. No. Workers Comp. No.
Applicant Cardno ERI	601 North McDowell Blvd. Petaluma, California 94954	707-766-2000	WC039901297
Owner:			
Engineer / Architect			
Contractor			

TYPE OF WORK

- Sidewalk Curb & Gutter Sewer Street Tree
 Utility Co. Permanent Structure Other: Install two groundwater monitoring wells for groundwater sampling.

DESCRIPTION OF WORK

Install one well on Buchanan Street approximately 130' west of San Pablo Ave. Install one well on Adams Street approximately 30' north of Buchanan Street. Wells will be installed to 15' below ground surface.

REQUIRED CONDITIONS

- All work shall be in accordance with the attached standard conditions.
- No refund after 120 days or work begins, 70% of fee refundable within 120 days provided no work has begun.
- Permanent structures require City Council approval (City Code 14-2)
- CALL USA 1-800-227-2600 before excavating.
- Call for Final Inspection and Sign-Off 48 hr. in advance at (510) 528-5760 (510) 524-9543.
- Special Conditions may be imposed following City review and prior to issuance of this permit.

Applicant's Signature: Heidi Saffell Date: 09/09/14

STAFF USE ONLY	
Permit Fee Computation	
Total construction cost subject to fee:	
New construction at 8% of construction cost	
In-Lieu slurry seal fee (when street is out)	
Minimum fee per schedule (if greater than % fee)	
Total Fee due (transfer to fee schedule form) (Utilities to be billed; copy of permit to Finance)	<u>137.59</u>
Special Conditions: <u>See Engineer's Special Conditions</u>	
Issued by: <u>[Signature]</u>	Date: <u>10/16/2014</u>
Permit Expiration Date: <u>4/16/2015</u>	(not to exceed 180 days for date issued)
Final Sign-Off by: _____	Date: _____

City of Albany

ENVIRONMENTAL PROTECTION STATEMENT OF RESPONSIBILITY FOR DISCHARGES & DAMAGE

I. PURPOSE

This statement is to provide notice to property owners, contractors, and others of the responsibility for compliance with Albany Municipal Code (AMC) as it relates to protection of public trees and waterways.

Public Trees: Damage to street trees or other trees located on public property is considered damage to public property. Damage to trees includes, but is not limited to cutting any amount of trees roots, ripping or tearing of branches, and peeling, tearing or scarring of tree bark. Damage may cause death and/or a dangerous condition by destabilizing the tree. Restoring a tree to its pre-damaged state can take years. Therefore, preventing damage to trees is a priority to the City of Albany.

Waterways: The City's storm water runoff system conveys rain water directly to the San Francisco Bay through a network of surface flows, underground pipes, and creek channels. Materials discharged to a sidewalk, street gutter, storm drain or creek can cause creeks and the Bay to become polluted. Any material other than rain water is considered an illicit discharge under the Federal Clean Water Act. Examples of illicit discharges include: concrete wash water, stucco wash water, paint wash water, chemicals, and runoff from stockpiled materials such as dirt aggregate, soil products, and other construction materials.

II. RESPONSIBILITY FOR DAMAGE TO PUBLIC TREES AND/OR ILLICIT DISCHARGES TO WATERWAYS

Public Trees: Pursuant to Albany Municipal Code Section 14-1.2., it is unlawful to cause damage to public property. When a public tree is damaged the cost of the damage and the value of the tree will be calculated by a certified arborist in accordance with International Society of Arboriculture Standards. Because valuable resources such as time, energy and money are invested in trees over many years, the calculated value of a tree can be high. The party damaging the tree is liable for all costs associated with the loss of the tree and the repair or replacement of the tree.

Waterways: Pursuant to Albany Municipal Code Section 15.4, it is unlawful to discharge materials (liquid or solid) to a sidewalk, street, gutter, storm drain or creek. An illicit discharge is defined as "any discharge to the City storm drain system that is not composed entirely of storm water...". The contractor and/or property owner is responsible for all fines and costs associated with the illicit discharge.

III. CERTIFICATION OF COMPLIANCE

I understand that as the applicant I am responsible for any damage to public trees and or all illicit discharges resulting from this project and that I am responsible for all fees and fines as a result or non-compliance.

Cardno ERI		09-09-14
Property Owner or Permittee		Date
Cardno ERI	David Daniels	09-09-14
Business Name & Contractor's Authorized Representative		Date

Location or Title of Project: 990 San Pablo Avenue, Albany, California 94706

For more information, contact the Community Development & Environmental Resources Department at (510) 528-5760

City of Albany

SPECIAL PROVISIONS FOR ENCROACHMENT PERMIT FOR PERMANENT IMPROVEMENT IN CITY RIGHT-OF-WAY

Permit # 14-271

Location: 990 San Pablo Avenue, Albany, California 94706

This APPLICATION MUST BE ACCOMPANIED by the DATA and PLANS indicated below:

- Description of Job Alameda County Health Care Services-Conditional Work Plan
- APPROVED Construction Plans and/or Documents Approval
- An Engineer's Estimate of the value of all public improvements and utility services within the public right-of-way
- A Soils Report prepared by a Registered Civil Engineer.
- Others: Specify Cardno ERI's Work Plan for Well Installation dated July 7, 2014. Traffic control plans for each well location

ALL FEES SHALL BE PAID AND DEPOSITS MADE PRIOR TO THE ISSUANCE OF THIS PERMIT: except Utility Companies. Utility Companies will be invoiced.

STANDARDS/SPECIFICATION:

The following conditions and provisions of the Albany Municipal Code apply to this permit. All work shall be in accordance with City Standard Specifications and Drawings.

COMMENCEMENT OF WORK

The permittee shall begin the work or use authorized by a permit issued pursuant to this chapter within ninety (90) days from the date of issuance unless a different period is stated in the permit, or an extension of time is granted by the Director of Community Development & Environmental Resources. If the work or use is not begun accordingly the permit shall become void.

INSPECTION

In general, inspection producers and requirements shall be as established by the Director of Community Development & Environmental Resources. Unless specifically exempted by the City Code, no encroachment work shall take place without inspection by the Director of Community Development & Environmental Resources or his/her authorized agent. Inspections by the City must be requested at least TWENTY-FOUR (24) HOURS (excluding weekends) IN ADVANCE of the work to be performed. No work shall be performed on weekends without PRIOR AUTHORIZATION of the Director of Community Development & Environmental Resources.

DISPLAY OF PERMIT

The permittee shall keep a copy of this permit at the site of the work, or in the cab of a vehicle when movement on a public street is involved. The permit shall be shown to any authorized representative of the Director of Community Development & Environmental Resources or Law Enforcement Officer on demand.

ACCEPTANCE OF PERMIT BY APPLICANT

Acceptance by the applicant of the permit shall be conclusive evidence of the reasonableness of the terms imposed and shall constitute a waiver of any right to legislative determination thereof.

NON-ASSIGNMENT OF PERMIT

Permits shall be issued only to the person making application and may not be assigned to another person by the permittee. If any permittee assigns his permit to another, the permit will be revoked.

CHANGES IN PERMIT AND WORK

No changes may be made in the location, dimensions, character, or duration of the encroachment or use as granted by the permit except upon written authorization of the Director of Community Development & Environmental Resources.

City of Albany

EXCAVATION OF PAVED STREETS

No excavations shall be permitted within the paved area of the public streets unless the applicant can prove to the satisfaction of the Director of Community Development & Environmental Resources that the following conditions exist:

1. Boring of the utility is not feasible; and
2. No reasonable alternative utility alignment is available outside the paved street area; and
3. The cut area and an adjacent area shall be resurfaced as approved by the Director of Community Development & Environmental Resources. The limits of resurfacing shall be as determined by the Director of community Development & Environmental Resources to insure the excavating area blends visually with the surrounding area. The applicant shall be responsible for the replacement of any and all obliterated or removed pavement markers or striping.

REVOCAION OF PERMIT

This encroachment permit may be revoked at any time at the option of the Director of Community Development & Environmental Resources, whenever:

1. It appears that continuing allowance of the permitted work, whether because of changed conditions or otherwise, interferes with full, adequate or safe public use of the right-of-way involved; or
2. The permittee fails to comply with or violates any city ordinance, city standard, safety regulations, or any condition of the issuance of the permit.

Upon revocation of the permit, the permittee shall immediately restore the public right-of-way to a condition as required by the Director of Community Development & Environmental Resources. If the restoration is not completed within the time specified by the Director of Community Development & Environmental Resources, the City may take any and all necessary action so required to restore the right-of-way. Any and all costs incurred by the City will be deducted from any deposits posted by the permittee and if necessary recovered by legal action.

HOURS OF WORK

No work shall commence prior to 8:00 AM and no work shall be conducted after 6:00 PM Monday through Saturday and before 10:00 AM or after 6:00 PM on Sunday and Holidays.

COMPLETION OF WORK

The permittee must complete the work or use authorized by a permit issued pursuant to this chapter within the time specified in the permit. If at any time the Director of Community Development & Environmental Resources finds that the delay in the prosecution or completion of the work or use authorized is due to lack of diligence on the part of the permittee, the permit may be revoked.

PERMITTEE LIABILITY

The permittee shall agree to hold the City, its officers, and employees harmless from any and all liability, claims, suits or actions for any and all damages alleged to have been suffered by any person or property by reason of the permittee's installation, operation, maintenance or removal of the encroachment.

BY MY SIGNATURE HEREUNDER, I state that I have read and understand the above conditions and agree to comply therewith. I hereby attest that I am either the owner of the property or duly authorized agent of the applicant.

APPLICANT'S SIGNATURE Heidi Dieffenbach-Carle Date: 09-09-14

NAME (print): Heidi Dieffenbach-Carle COMPANY: Cardno ERI

City of Albany

Date: 10/13/14

Special Conditions

Encroachment Permit for

Cardno ERI at the request of Exxon Mobil Environmental Services (EMES), to install ground water monitoring wells. One well on Buchanan, One well on Adams.

1. Working hours on the City of Albany shall be from 8:00AM to 6:00PM Monday through Saturday; and 10:00AM to 5:00PM Sunday and Holidays. No startup of heavy equipment is allowed prior to 8:00 AM. Written permission must be obtained from the City Engineer prior to any weekend and holiday work.
2. Applicant shall maintain access to private property and driveways, or provide alternate/temporary access, at all times.
3. **Contact Albany Police Dept. (510-525-7300), Albany Fire Dept. (510-528-5770 X 5), and Albany Building Division (510-528-5760) minimum of 48 hours before work begins.**
4. The driveway and access at the Fire Department and Police Department shall never be blocked at any time.
5. All exploratory holes (borings) under this permit are subject to the Alameda County Public Works Agency Guidelines, Policies & Procedures, the State Water Well Standards, and any instruction by the Health Department. Applicant is required to submit a copy of the Alameda County Permit before any drilling is done.
6. All drill cuttings and boring development water and soil shall be properly and legally handled and disposed of.
7. All soil boring must be completely filled with cement grout mixture. The top 6" of the borings shall be backfilled to match original surface material. The applicant shall be responsible for the replacement of any and all obliterated or removed pavement markings or striping.
8. Provide for traffic control and pedestrian safety and lane closures per the General Provisions of the City and Caltrans Standard Specifications.
9. No open excavations shall be left unsupervised. All excavations shall be back filled or covered at the end the working day.
10. Post for no parking in advance per City requirements. (Minimum of 48 hours)
11. Prior to drilling, notify USA to identify any potential drilling obstructions. At the end of exploratory work, all USA markings shall be removed.
12. Conform to the requirements of the City's monument preservation plan. Any survey monument encountered shall be referenced and preserved or restored per State law.
13. Do not drill within 5 feet of existing sanitary sewers main or laterals and other utilities.
14. Permittee shall be responsible for full compliance with the City's Storm Water program and the Alameda County NPDES permit requirements. For additional information, visit the Alameda Countywide Clean Water Program at <http://www.cleanwaterprogram.org>
15. **Contact the City's Inspector at 510-528-5760 to schedule inspection a minimum of 48 hours in advance of drilling.**

APPENDIX E

BORING LOGS



Cardno[®]
ERI

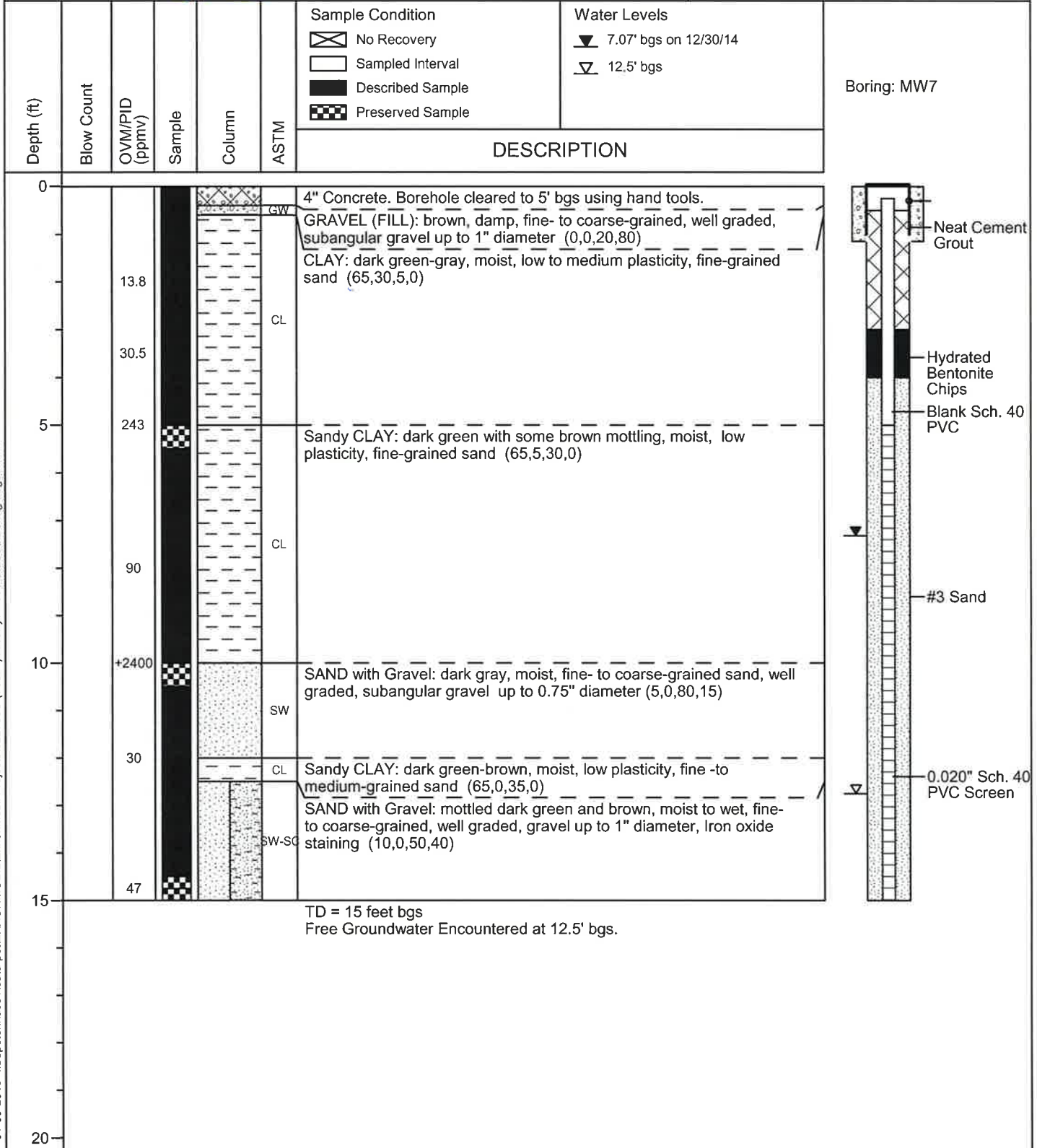
Shaping the Future

BORING LOG MW7

(Page 1 of 1)

Date Drilled : 12/08/2014
 Drilling Co. : Gregg Drilling
 Drilling Method : Hollow-Stem Auger
 Sampling Method : Direct Push
 Borehole Diameter : 10"
 Casing Diameter : 2"
 Location (N-S) : 37.8878386
 Location (E-W) : -122.2987881
 Total Depth : 15' bgs
 GW encountered : 12.5' bgs

Project No. : Former Exxon Service Station 79374
 Site : 990 San Pablo Ave, Albany, California
 Logged By : Nadya M. Vicente
 Reviewed By : David R. Daniels, P.G.8737
 Signature : *[Signature]*

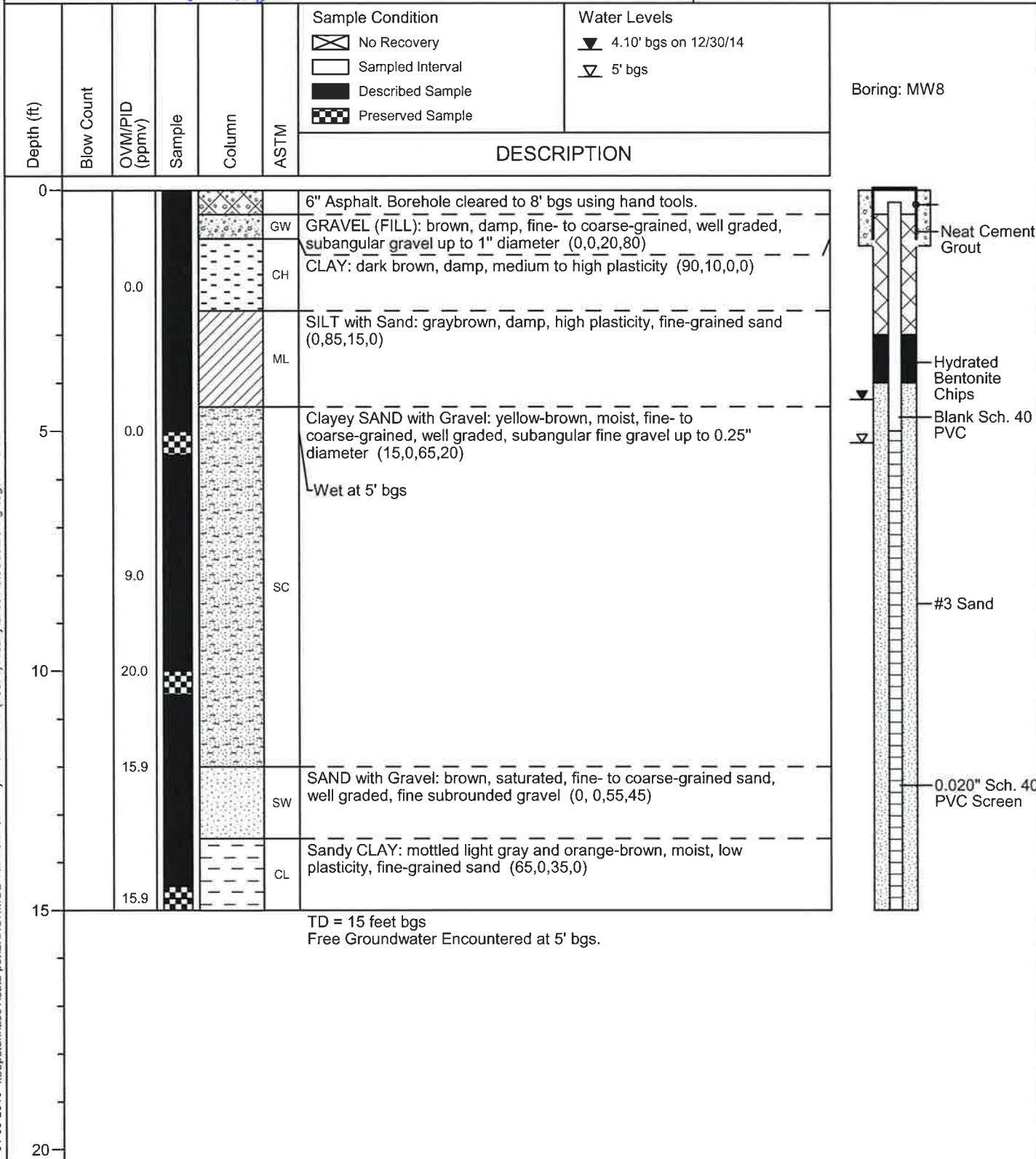


BORING LOG MW8

(Page 1 of 1)

Date Drilled : 12/08/2014
 Drilling Co. : Gregg Drilling
 Drilling Method : Hollow-Stem Auger
 Sampling Method : Direct Push
 Borehole Diameter : 10"
 Casing Diameter : 2"
 Location (N-S) : 37.8879920
 Location (E-W) : -122.2991575
 Total Depth : 15' bgs
 GW encountered : 5' bgs

Project No. : Former Exxon Service Station 79374
 Site : 990 San Pablo Ave, Albany, California
 Logged By : Nadya M. Vicente
 Reviewed By : David R. Daniels, P.G.8737
 Signature : *[Signature]*



01-09-2015 \\USpetermas01\data-pet\EXXONMOBIL\ExxonMobil Projects\022735C (79374) Albany\2735 AutoCad\Boring Logs\MW8.bor

APPENDIX F

FIELD DATA SHEETS



Daily Field Report

Project ID #: 79374 ERI Job # 2735
Subject: Monitoring + Sampling Date: 12-30-14
Equipment Used: Sub pumps, DTW Tape Sheet: 1 of 1
Name(s): Darin Einhell
Time Arrived On Site: _____ Time Departed Site: _____ Total Travel: _____

On site	645
M + S Meeting	645 - 700
opened wells	700 - 715
Decon Equipment	715 - 745
DTW on wells	745 - 805
Purged wells MW8, MW7	810 - 910
Sampled wells MW8, MW7	830 - 930
QCBB	945
off site	1015

Total water	- 35
Purge	- 12
Decon	- 23

WATER SAMPLING SITE STATUS

Date: _____

Inspected by: Darin Einhell

Cardno ERI Job No.: 2735 Station No.: 79374

Site Address: 990 San Pablo Ave Albany

Well ID	Well Head Screws	Rubber Gasket	Well Cap Locking	Lock on Well Cap	Concrete Well Seal	Well Head PVC	Water in Well Vault	Well Tabs	Well Cover	Fence/Gate Condition	# Drums	Drum Contents	Building Condition	Site Appearance	Comments / Well Covers
	N/R/ok	N/R/ok	N/R/ok	N/R/ok	N/R/ok	N/R/ok	Y / N	N/R/ok	N/R/ok	N/R/ok		s/w/e	g/v/o	N/R/ok	
MW8	OK	OK	OK	N	OK	OK	Y	OK	OK	NA	NA	NA	NA	OK	NO LOCK
NW7	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	NO LOCK

N = Not repairable in time available-see comments. Y = Yes. s = Soil. g = Graffiti on walls.
 R = Repaired-see comments N = No. w = Water. v = Vagrants (or evidence of).
 ok = No action needed. e = Empty. o = Open (not secured).

APPENDIX G

LABORATORY ANALYTICAL REPORTS



Calscience



WORK ORDER NUMBER: 14-12-1091

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Cardno ERI

Client Project Name: ExxonMobil 79374/022735C

Attention: Greg Gurs
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Cecile de Guia

Approved for release on 12/23/2014 by:
Cecile deGuia
Project Manager

ResultLink ▶

Email your PM ▶



Eurofins Calscience, Inc. (Calscience) 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 attached to this report. The results in this report are limited to the sample(s) tested and any reproduction thereof must be made in its entirety. The client or recipient of this report is specifically prohibited from making material changes to said report and, to the extent that such changes are made, Calscience is not responsible, legally or otherwise. The client or recipient agrees to indemnify Calscience for any defense to any litigation which may arise.



Calscience

Contents

Client Project Name: ExxonMobil 79374/022735C
Work Order Number: 14-12-1091

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4	Quality Control Sample Data.	17
	4.1 MS/MSD.	17
	4.2 LCS/LCSD.	21
5	Glossary of Terms and Qualifiers.	26
6	Chain-of-Custody/Sample Receipt Form.	27

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 12/11/14. They were assigned to Work Order 14-12-1091.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

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

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.



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Sample Summary

Client: Cardno ERI	Work Order: 14-12-1091
601 North McDowell Blvd.	Project Name: ExxonMobil 79374/022735C
Petaluma, CA 94954-2312	PO Number: 022735C
	Date/Time Received: 12/11/14 10:45
	Number of Containers: 6

Attn: Greg Gurs

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
S-5-MW8	14-12-1091-1	12/08/14 09:30	1	Solid
S-10-MW8	14-12-1091-2	12/08/14 10:05	1	Solid
S-15-MW8	14-12-1091-3	12/08/14 10:15	1	Solid
S-5-MW7	14-12-1091-4	12/08/14 13:15	1	Solid
S-10-MW7	14-12-1091-5	12/08/14 13:25	1	Solid
S-15-MW7	14-12-1091-6	12/08/14 13:35	1	Solid



Calscience

Analytical Report

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

Date Received: 12/11/14
Work Order: 14-12-1091
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Project: ExxonMobil 79374/022735C

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-5-MW8	14-12-1091-1-A	12/08/14 09:30	Solid	GC 48	12/15/14	12/15/14 19:46	141215B08
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		108		61-145			
S-10-MW8	14-12-1091-2-A	12/08/14 10:05	Solid	GC 48	12/15/14	12/15/14 20:02	141215B08
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		103		61-145			
S-15-MW8	14-12-1091-3-A	12/08/14 10:15	Solid	GC 48	12/15/14	12/15/14 20:19	141215B08
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		104		61-145			
S-5-MW7	14-12-1091-4-A	12/08/14 13:15	Solid	GC 48	12/15/14	12/15/14 20:34	141215B08
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		5.0		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		101		61-145			
S-10-MW7	14-12-1091-5-A	12/08/14 13:25	Solid	GC 48	12/15/14	12/15/14 20:51	141215B08
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		120		5.0		1.00	SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		103		61-145			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

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

Date Received: 12/11/14
Work Order: 14-12-1091
Preparation: EPA 3550B
Method: EPA 8015B (M)
Units: mg/kg

Project: ExxonMobil 79374/022735C

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-15-MW7	14-12-1091-6-A	12/08/14 13:35	Solid	GC 48	12/15/14	12/15/14 21:07	141215B08

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel	ND	5.0	1.00	SG

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	104	61-145	

Method Blank	099-15-422-1537	N/A	Solid	GC 48	12/15/14	12/15/14 18:42	141215B08
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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel	ND	5.0	1.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
n-Octacosane	111	61-145	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

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

Date Received: 12/11/14
Work Order: 14-12-1091
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: mg/kg

Project: ExxonMobil 79374/022735C

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-5-MW8	14-12-1091-1-A	12/08/14 09:30	Solid	GC 1	12/12/14	12/14/14 14:39	141212L055
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.48		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		88		42-126			
S-10-MW8	14-12-1091-2-A	12/08/14 10:05	Solid	GC 1	12/12/14	12/14/14 15:15	141212L055
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.52		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		85		42-126			
S-15-MW8	14-12-1091-3-A	12/08/14 10:15	Solid	GC 1	12/12/14	12/14/14 15:51	141212L055
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.49		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		89		42-126			
S-5-MW7	14-12-1091-4-A	12/08/14 13:15	Solid	GC 1	12/12/14	12/14/14 16:26	141212L055
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		0.52		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		88		42-126			
S-10-MW7	14-12-1091-5-A	12/08/14 13:25	Solid	GC 1	12/12/14	12/14/14 18:13	141212L056
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		540		20		40.0	HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene - FID		118		42-126			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

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

Date Received: 12/11/14
Work Order: 14-12-1091
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: mg/kg

Project: ExxonMobil 79374/022735C

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-15-MW7	14-12-1091-6-A	12/08/14 13:35	Solid	GC 1	12/12/14	12/14/14 17:02	141212L055

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.51	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	88	42-126	

Method Blank	099-14-571-2030	N/A	Solid	GC 1	12/12/14	12/14/14 05:44	141212L055
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Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	88	42-126	

Method Blank	099-14-571-2031	N/A	Solid	GC 1	12/12/14	12/14/14 06:19	141212L056
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Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	4.0	8.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene - FID	90	42-126	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

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

Date Received: 12/11/14
Work Order: 14-12-1091
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: ExxonMobil 79374/022735C

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-5-MW8	14-12-1091-1-A	12/08/14 09:30	Solid	GC/MS Q	12/12/14	12/17/14 19:50	141217L030

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.0051	1.00	
Toluene	ND	0.0051	1.00	
Ethylbenzene	ND	0.0051	1.00	
o-Xylene	ND	0.0051	1.00	
p/m-Xylene	ND	0.0051	1.00	
Xylenes (total)	ND	0.0051	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0051	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.051	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	60-132	
Dibromofluoromethane	93	63-141	
1,2-Dichloroethane-d4	98	62-146	
Toluene-d8	97	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

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

Date Received: 12/11/14
Work Order: 14-12-1091
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: ExxonMobil 79374/022735C

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10-MW8	14-12-1091-2-A	12/08/14 10:05	Solid	GC/MS Q	12/12/14	12/17/14 20:16	141217L030

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.0048	1.00	
Toluene	ND	0.0048	1.00	
Ethylbenzene	ND	0.0048	1.00	
o-Xylene	ND	0.0048	1.00	
p/m-Xylene	ND	0.0048	1.00	
Xylenes (total)	ND	0.0048	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0048	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.048	1.00	
Diisopropyl Ether (DIPE)	ND	0.0096	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.0096	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.0096	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
1,4-Bromofluorobenzene	100	60-132		
Dibromofluoromethane	95	63-141		
1,2-Dichloroethane-d4	98	62-146		
Toluene-d8	96	80-120		

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

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

Date Received: 12/11/14
Work Order: 14-12-1091
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: ExxonMobil 79374/022735C

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-15-MW8	14-12-1091-3-A	12/08/14 10:15	Solid	GC/MS Q	12/12/14	12/17/14 20:44	141217L030

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.0049	1.00	
Toluene	ND	0.0049	1.00	
Ethylbenzene	ND	0.0049	1.00	
o-Xylene	ND	0.0049	1.00	
p/m-Xylene	ND	0.0049	1.00	
Xylenes (total)	ND	0.0049	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0049	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.049	1.00	
Diisopropyl Ether (DIPE)	ND	0.0097	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.0097	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.0097	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	60-132	
Dibromofluoromethane	95	63-141	
1,2-Dichloroethane-d4	99	62-146	
Toluene-d8	98	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



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Analytical Report

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

Date Received: 12/11/14
Work Order: 14-12-1091
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: ExxonMobil 79374/022735C

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-5-MW7	14-12-1091-4-A	12/08/14 13:15	Solid	GC/MS Q	12/12/14	12/17/14 21:11	141217L030

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.0048	1.00	
Toluene	ND	0.0048	1.00	
Ethylbenzene	ND	0.0048	1.00	
o-Xylene	ND	0.0048	1.00	
p/m-Xylene	ND	0.0048	1.00	
Xylenes (total)	ND	0.0048	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0048	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.048	1.00	
Diisopropyl Ether (DIPE)	ND	0.0096	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.0096	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.0096	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	100	60-132	
Dibromofluoromethane	95	63-141	
1,2-Dichloroethane-d4	99	62-146	
Toluene-d8	98	80-120	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

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

Date Received: 12/11/14
Work Order: 14-12-1091
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: ExxonMobil 79374/022735C

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-10-MW7	14-12-1091-5-A	12/08/14 13:25	Solid	GC/MS V V	12/12/14	12/19/14 23:05	141219L038

Comment(s): - DF Reporting limits elevated due to matrix interferences.

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Benzene	ND	2.0	200	
Toluene	ND	2.0	200	
Ethylbenzene	ND	2.0	200	
o-Xylene	ND	2.0	200	
p/m-Xylene	ND	2.0	200	
Xylenes (total)	ND	2.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	2.0	200	
Tert-Butyl Alcohol (TBA)	ND	20	200	
Diisopropyl Ether (DIPE)	ND	4.0	200	
Ethyl-t-Butyl Ether (ETBE)	ND	4.0	200	
Tert-Amyl-Methyl Ether (TAME)	ND	4.0	200	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	108	60-132	
Dibromofluoromethane	108	63-141	
1,2-Dichloroethane-d4	101	62-146	
Toluene-d8	103	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

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

Date Received: 12/11/14
Work Order: 14-12-1091
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: ExxonMobil 79374/022735C

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
S-15-MW7	14-12-1091-6-A	12/08/14 13:35	Solid	GC/MS Q	12/12/14	12/17/14 21:37	141217L030

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.0048	1.00	
Toluene	ND	0.0048	1.00	
Ethylbenzene	ND	0.0048	1.00	
o-Xylene	ND	0.0048	1.00	
p/m-Xylene	ND	0.0048	1.00	
Xylenes (total)	ND	0.0048	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0048	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.048	1.00	
Diisopropyl Ether (DIPE)	ND	0.0096	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.0096	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.0096	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	60-132	
Dibromofluoromethane	95	63-141	
1,2-Dichloroethane-d4	99	62-146	
Toluene-d8	97	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

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

Date Received: 12/11/14
Work Order: 14-12-1091
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: ExxonMobil 79374/022735C

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-882-1695	N/A	Solid	GC/MS Q	12/17/14	12/17/14 12:45	141217L030

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.0050	1.00	
Toluene	ND	0.0050	1.00	
Ethylbenzene	ND	0.0050	1.00	
o-Xylene	ND	0.0050	1.00	
p/m-Xylene	ND	0.0050	1.00	
Xylenes (total)	ND	0.0050	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.0050	1.00	
Tert-Butyl Alcohol (TBA)	ND	0.050	1.00	
Diisopropyl Ether (DIPE)	ND	0.010	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.010	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.010	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	101	60-132	
Dibromofluoromethane	90	63-141	
1,2-Dichloroethane-d4	87	62-146	
Toluene-d8	102	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

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

Date Received: 12/11/14
Work Order: 14-12-1091
Preparation: EPA 5030C
Method: EPA 8260B
Units: mg/kg

Project: ExxonMobil 79374/022735C

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-882-1696	N/A	Solid	GC/MS V V	12/19/14	12/19/14 17:28	141219L038

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	50.0	
Toluene	ND	0.50	50.0	
Ethylbenzene	ND	0.50	50.0	
o-Xylene	ND	0.50	50.0	
p/m-Xylene	ND	0.50	50.0	
Xylenes (total)	ND	0.50	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	50.0	
Tert-Butyl Alcohol (TBA)	ND	5.0	50.0	
Diisopropyl Ether (DIPE)	ND	1.0	50.0	
Ethyl-t-Butyl Ether (ETBE)	ND	1.0	50.0	
Tert-Amyl-Methyl Ether (TAME)	ND	1.0	50.0	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	95	60-132	
Dibromofluoromethane	111	63-141	
1,2-Dichloroethane-d4	112	62-146	
Toluene-d8	102	80-120	

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - Spike/Spike Duplicate

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

Date Received: 12/11/14
Work Order: 14-12-1091
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Page 1 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number				
S-5-MW7	Sample	Solid	GC 48	12/15/14	12/15/14 20:34	141215S08				
S-5-MW7	Matrix Spike	Solid	GC 48	12/15/14	12/15/14 19:15	141215S08				
S-5-MW7	Matrix Spike Duplicate	Solid	GC 48	12/15/14	12/15/14 19:30	141215S08				
<u>Parameter</u>	<u>Sample Conc.</u>	<u>Spike Added</u>	<u>MS Conc.</u>	<u>MS %Rec.</u>	<u>MSD Conc.</u>	<u>MSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Diesel	ND	400.0	387.2	97	373.2	93	64-130	4	0-15	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

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

Date Received: 12/11/14
Work Order: 14-12-1091
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Page 2 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-12-0925-2	Sample	Solid	GC 1	12/12/14	12/14/14 06:55	141212S031
14-12-0925-2	Matrix Spike	Solid	GC 1	12/12/14	12/14/14 07:31	141212S031
14-12-0925-2	Matrix Spike Duplicate	Solid	GC 1	12/12/14	12/14/14 08:06	141212S031

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	10.00	9.453	95	9.880	99	48-114	4	0-23	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

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

Date Received: 12/11/14
Work Order: 14-12-1091
Preparation: EPA 5030C
Method: EPA 8260B

Project: ExxonMobil 79374/022735C

Page 3 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-12-1589-1	Sample	Solid	GC/MS Q	12/17/14	12/17/14 13:37	141217S001
14-12-1589-1	Matrix Spike	Solid	GC/MS Q	12/17/14	12/17/14 16:15	141217S001
14-12-1589-1	Matrix Spike Duplicate	Solid	GC/MS Q	12/17/14	12/17/14 16:41	141217S001

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	0.05000	0.04257	85	0.04287	86	61-127	1	0-20	
Toluene	ND	0.05000	0.04474	89	0.04520	90	63-123	1	0-20	
Ethylbenzene	ND	0.05000	0.04103	82	0.04117	82	57-129	0	0-22	
o-Xylene	ND	0.05000	0.04048	81	0.04057	81	70-130	0	0-30	
p/m-Xylene	ND	0.1000	0.08176	82	0.08261	83	70-130	1	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	0.05000	0.04221	84	0.04180	84	57-123	1	0-21	
Tert-Butyl Alcohol (TBA)	ND	0.2500	0.2080	83	0.2275	91	30-168	9	0-34	
Diisopropyl Ether (DIPE)	ND	0.05000	0.03693	74	0.03676	74	57-129	0	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	0.05000	0.04066	81	0.04063	81	55-127	0	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	0.05000	0.04353	87	0.04404	88	58-124	1	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

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

Date Received: 12/11/14
Work Order: 14-12-1091
Preparation: EPA 5030C
Method: EPA 8260B

Project: ExxonMobil 79374/022735C

Page 4 of 4

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
14-12-1783-1	Sample	Solid	GC/MS V V	12/19/14	12/19/14 17:56	141219S013
14-12-1783-1	Matrix Spike	Solid	GC/MS V V	12/19/14	12/19/14 18:24	141219S013
14-12-1783-1	Matrix Spike Duplicate	Solid	GC/MS V V	12/19/14	12/19/14 18:52	141219S013

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	0.05000	0.05781	116	0.05363	107	61-127	8	0-20	
Toluene	ND	0.05000	0.05827	117	0.05397	108	63-123	8	0-20	
Ethylbenzene	ND	0.05000	0.05596	112	0.05279	106	57-129	6	0-22	
o-Xylene	ND	0.05000	0.05815	116	0.05456	109	70-130	6	0-30	
p/m-Xylene	ND	0.1000	0.1179	118	0.1091	109	70-130	8	0-30	
Methyl-t-Butyl Ether (MTBE)	ND	0.05000	0.04610	92	0.04475	89	57-123	3	0-21	
Tert-Butyl Alcohol (TBA)	ND	0.2500	0.2611	104	0.2491	100	30-168	5	0-34	
Diisopropyl Ether (DIPE)	ND	0.05000	0.05082	102	0.04903	98	57-129	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	0.05000	0.04336	87	0.04283	86	55-127	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	0.05000	0.04761	95	0.04519	90	58-124	5	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS

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

Date Received: 12/11/14
Work Order: 14-12-1091
Preparation: EPA 3550B
Method: EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Page 1 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-15-422-1537	LCS	Solid	GC 48	12/15/14	12/15/14 18:58	141215B08
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Diesel		400.0	353.2	88	75-123	



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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS

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

Date Received: 12/11/14
Work Order: 14-12-1091
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Page 2 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-571-2030	LCS	Solid	GC 1	12/12/14	12/14/14 05:08	141212L055
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Gasoline		10.00	10.47	105	70-124	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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Quality Control - LCS

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

Date Received: 12/11/14
Work Order: 14-12-1091
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Page 3 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-14-571-2031	LCS	Solid	GC 1	12/12/14	12/14/14 05:08	141212L056
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Gasoline		10.00	10.47	105	70-124	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



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Quality Control - LCS

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

Date Received: 12/11/14
Work Order: 14-12-1091
Preparation: EPA 5030C
Method: EPA 8260B

Project: ExxonMobil 79374/022735C

Page 4 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-882-1695	LCS	Solid	GC/MS Q	12/17/14	12/17/14 10:47	141217L030
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Benzene		0.05000	0.05110	102	78-120	
Toluene		0.05000	0.05349	107	77-120	
Ethylbenzene		0.05000	0.05185	104	76-120	
o-Xylene		0.05000	0.05326	107	75-125	
p/m-Xylene		0.1000	0.1059	106	75-125	
Methyl-t-Butyl Ether (MTBE)		0.05000	0.04611	92	77-120	
Tert-Butyl Alcohol (TBA)		0.2500	0.2375	95	68-122	
Diisopropyl Ether (DIPE)		0.05000	0.04202	84	78-120	
Ethyl-t-Butyl Ether (ETBE)		0.05000	0.04611	92	78-120	
Tert-Amyl-Methyl Ether (TAME)		0.05000	0.05001	100	75-120	


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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS

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

Date Received: 12/11/14
Work Order: 14-12-1091
Preparation: EPA 5030C
Method: EPA 8260B

Project: ExxonMobil 79374/022735C

Page 5 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-882-1696	LCS	Solid	GC/MS V V	12/19/14	12/19/14 16:05	141219L038
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
Benzene		0.05000	0.05360	107	78-120	
Toluene		0.05000	0.05391	108	77-120	
Ethylbenzene		0.05000	0.05457	109	76-120	
o-Xylene		0.05000	0.05692	114	75-125	
p/m-Xylene		0.1000	0.1112	111	75-125	
Methyl-t-Butyl Ether (MTBE)		0.05000	0.04781	96	77-120	
Tert-Butyl Alcohol (TBA)		0.2500	0.2482	99	68-122	
Diisopropyl Ether (DIPE)		0.05000	0.05106	102	78-120	
Ethyl-t-Butyl Ether (ETBE)		0.05000	0.04673	93	78-120	
Tert-Amyl-Methyl Ether (TAME)		0.05000	0.04791	96	75-120	


 Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Glossary of Terms and Qualifiers

Work Order: 14-12-1091

Page 1 of 1

<u>Qualifiers</u>	<u>Definition</u>
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 suspected matrix interference.
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.
BV	Sample received 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 suspected matrix interference.
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 was in control.
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.
JA	Analyte positively identified but quantitation is an estimate.
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 Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
SG	A silica gel cleanup procedure was performed.
SN	See applicable analysis comment.

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.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.



Calscience

7440 Lincoln Way, Garden Grove, CA 92841-1427 • (714) 895-5494

For courier service / sample drop off information, contact us26_sales@eurofinsus.com or call us.

CHAIN OF CUSTODY RECORD

WO # / LAB USE ONLY
14-12-1091

DATE: 12/8/14
PAGE: 1 OF 1

LABORATORY CLIENT: Cardno / ExxonMobil		CLIENT PROJECT NAME / NUMBER: Former Exxon 79374	P.O. NO.: 02 2735CX
ADDRESS: 601 N. McDowell Blvd		PROJECT CONTACT: Greg Gurss	SAMPLER(S); (PRINT) <i>Nadya Vicente</i>
CITY: Petaluma	STATE: CA	ZIP: 94954	
TEL: (707) 766-2000	E-MAIL: greg.gurss@cardno.com		

REQUESTED ANALYSES

TURNAROUND TIME (Rush surcharges may apply to any TAT not "STANDARD"):
 SAME DAY 24 HR 48 HR 72 HR 5 DAYS STANDARD

COELT EDF GLOBAL ID: **T0619716673** LOG CODE:

SPECIAL INSTRUCTIONS:
 *TPHd - Silica Gel Cleanup
 **Oxys by 8260B: DIPE, ETBE, TAME, and TBA
 Please email PDF files to: norcallsab@eri-us.com

LAB USE ONLY	SAMPLE ID	Field Point Name	SAMPLING		MATRIX	NO. OF CONT.	Unpreserved	Preserved	Field Filtered	<input checked="" type="checkbox"/> TPH(g) (8015B)	<input checked="" type="checkbox"/> TPH(d) (8015B)	TPH <input type="checkbox"/> C6-C36 <input type="checkbox"/> C6-C44	TPH	BTEX 8260B <input checked="" type="checkbox"/>	MTBE 8280B	Oxygenates (8260B)**	Lead Scavengers (8260B)	SVOCs (8270 C)	Pesticides (8081)	PCBs (8082)	PAHs <input type="checkbox"/> 8270 <input type="checkbox"/> 8270 SIM	T22 Metals <input type="checkbox"/> 6010/747X <input type="checkbox"/> 6020/747I	Cr(VI) <input type="checkbox"/> 7196 <input type="checkbox"/> 7199 <input type="checkbox"/> 218.6	
			DATE	TIME																				
1	S-5-MW8	MW8	12/8/14	0930	Soil	1				x	x			x	x	x								
2	S-10-MW8	MW8	12/8/14	1005	Soil	1																		
3	S-15-MW8	MW8	12/8/14	1015	Soil	1																		
4	S-5-MW7	MW7	12/8/14	1315	Soil	1																		
5	S-10-MW7	MW7	12/8/14	1325	Soil	1																		
6	S-15-MW7	MW7	12/8/14	1335	Soil	1																		

Relinquished by: (Signature) <i>[Signature]</i>	Received by: (Signature/Affiliation) <i>Tom O'Malley ECI</i>	Date: 12/10/14	Time: 1135
Relinquished by: (Signature) <i>Tom O'Malley TO GSO 12/10/14 1730</i>	Received by: (Signature/Affiliation) <i>[Signature]</i>	Date: 12/10/14	Time: 1730
Relinquished by: (Signature)	Received by: (Signature/Affiliation)	Date:	Time:



< WebShip > > > > >

800-322-5555 www.gso.com

1091

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:
ETIC, CARDNO ERI, ARCADIS, HALEY & ALDRICH

Delivery Instructions:

Signature Type:
SIGNATURE REQUIRED

Tracking #: 526358033



NPS

ORC

A

GARDEN GROVE

D92845A



31705607

Print Date : 12/10/14 14:56 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 are not limited to, artwork, jewelry, furs, precious metals, tickets, negotiable instruments and other items with intrinsic value.



Calscience

WORK ORDER #: 14-12-1091

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Cardno EPY

DATE: 12/11/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0°C - 6.0°C, not frozen except sediment/tissue)

Temperature 2.8°C - 0.2°C (CF) = 2.6°C [X] 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

Checked by: 836

CUSTODY SEALS INTACT:

[X] Cooler [] _____ [] No (Not Intact) [] Not Present [] N/A

Checked by: 836

[] Sample [] _____ [] No (Not Intact) [X] Not Present

Checked by: 832

SAMPLE CONDITION:

Table with 4 columns: Item, Yes, No, N/A. Rows include Chain-Of-Custody (COC) document(s) received with samples, COC document(s) received complete, 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, Aqueous samples received within 15-minute holding time, Proper preservation noted on COC or sample container, Volatile analysis container(s) free of headspace, Tedlar bag(s) free of condensation.

CONTAINER TYPE:

Solid: [] 4ozCGJ [] 8ozCGJ [] 16ozCGJ [X] Sleeve (S/P) [] EnCores® [] TerraCores® [] _____

Aqueous: [] VOA [] VOA_h [] VOA_{na2} [] 125AGB [] 125AGB_h [] 125AGB_p [] 1AGB [] 1AGB_{na2} [] 1AGB_s

[] 500AGB [] 500AGJ [] 500AGJ_s [] 250AGB [] 250CGB [] 250CGB_s [] 1PB [] 1PB_{na} [] 500PB

[] 250PB [] 250PB_n [] 125PB [] 125PB_{znna} [] 100PJ [] 100PJ_{na2} [] _____ [] _____ [] _____

Air: [] Tedlar® [] Canister Other: [] _____ Trip Blank Lot#: _____ Labeled/Checked by: 832

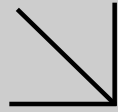
Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 832

Preservative: h: HCL n: HNO3 na2: Na2S2O3 na: NaOH p: H3PO4 s: H2SO4 u: Ultra-pure znna: ZnAc2+NaOH f: Filtered Scanned by: 832





Calscience



WORK ORDER NUMBER: 14-12-2430

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For

Client: Cardno ERI

Client Project Name: ExxonMobil 79374/022735C

Attention: Greg Gurr
601 North McDowell Blvd.
Petaluma, CA 94954-2312

Cecile de Guia

Approved for release on 01/13/2015 by:
Cecile deGuia
Project Manager

ResultLink ▶

Email your PM ▶



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 Work Order Number: 14-12-2430

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 12/31/14. They were assigned to Work Order 14-12-2430.

Unless otherwise noted on the Sample Receiving forms all samples were received in good condition and within the recommended EPA temperature criteria for the methods noted on the COC. The COC and Sample Receiving Documents are integral elements of the analytical report and are presented at the back of the report.

Holding Times:

All samples were analyzed within prescribed holding times (HT) and/or in accordance with the Calscience Sample Acceptance Policy unless otherwise noted in the analytical report and/or comprehensive case narrative, if required.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of ≤ 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

Quality Control:

All quality control parameters (QC) were within established control limits except where noted in the QC summary forms or described further within this report.

Additional Comments:

Air - Sorbent-extracted air methods (EPA TO-4A, EPA TO-10, EPA TO-13A, EPA TO-17): Analytical results are converted from mass/sample basis to mass/volume basis using client-supplied air volumes.

New York NELAP air certification does not certify for all reported methods and analytes, reference the accredited items here: http://www.calscience.com/PDF/New_York.pdf

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

Subcontractor Information:

Unless otherwise noted below (or on the subcontract form), no samples were subcontracted.



Calscience

Sample Summary

Client: Cardno ERI	Work Order:	14-12-2430
601 North McDowell Blvd.	Project Name:	ExxonMobil 79374/022735C
Petaluma, CA 94954-2312	PO Number:	022735C
	Date/Time Received:	12/31/14 09:00
	Number of Containers:	18

Attn: Greg Gurs

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
QCBB	14-12-2430-1	12/30/14 09:45	2	Aqueous
W-7-MW7	14-12-2430-2	12/30/14 09:30	8	Aqueous
W-4-MW8	14-12-2430-3	12/30/14 08:30	8	Aqueous



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Analytical Report

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

Date Received: 12/31/14
Work Order: 14-12-2430
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: ExxonMobil 79374/022735C

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-7-MW7	14-12-2430-2-H	12/30/14 09:30	Aqueous	GC 46	01/02/15	01/03/15 04:35	150102B09
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Motor Oil		ND		250		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		111		68-140			
W-4-MW8	14-12-2430-3-H	12/30/14 08:30	Aqueous	GC 46	01/02/15	01/03/15 04:52	150102B09
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Motor Oil		ND		250		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		107		68-140			
Method Blank	099-15-278-793	N/A	Aqueous	GC 46	01/02/15	01/03/15 03:11	150102B09
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Motor Oil		ND		250		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		104		68-140			

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

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

Date Received: 12/31/14
Work Order: 14-12-2430
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

Project: ExxonMobil 79374/022735C

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-7-MW7	14-12-2430-2-H	12/30/14 09:30	Aqueous	GC 46	01/02/15	01/03/15 04:35	150102B08
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
TPH as Diesel		2900	49		1.00		SG,HD
<u>Surrogate</u>		<u>Rec. (%)</u>	<u>Control Limits</u>		<u>Qualifiers</u>		
n-Octacosane		111	68-140				
W-4-MW8	14-12-2430-3-H	12/30/14 08:30	Aqueous	GC 46	01/02/15	01/03/15 04:52	150102B08
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
TPH as Diesel		ND	49		1.00		SG
<u>Surrogate</u>		<u>Rec. (%)</u>	<u>Control Limits</u>		<u>Qualifiers</u>		
n-Octacosane		107	68-140				
Method Blank	099-15-304-912	N/A	Aqueous	GC 46	01/02/15	01/03/15 03:11	150102B08
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
TPH as Diesel		ND	50		1.00		
<u>Surrogate</u>		<u>Rec. (%)</u>	<u>Control Limits</u>		<u>Qualifiers</u>		
n-Octacosane		104	68-140				

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

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

Date Received: 12/31/14
Work Order: 14-12-2430
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: ug/L

Project: ExxonMobil 79374/022735C

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-7-MW7	14-12-2430-2-E	12/30/14 09:30	Aqueous	GC 25	01/03/15	01/03/15 21:52	150103L018

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	7300	500	10.0	HD

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	91	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-4-MW8	14-12-2430-3-E	12/30/14 08:30	Aqueous	GC 25	01/03/15	01/03/15 22:25	150103L018

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	72	38-134	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-436-9794	N/A	Aqueous	GC 25	01/03/15	01/03/15 16:53	150103L018

Parameter	Result	RL	DF	Qualifiers
TPH as Gasoline	ND	50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	70	38-134	

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

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

Date Received: 12/31/14
Work Order: 14-12-2430
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 79374/022735C

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-7-MW7	14-12-2430-2-B	12/30/14 09:30	Aqueous	GC/MS L	01/08/15	01/08/15 19:20	150108L030

Parameter	Result	RL	DF	Qualifiers
Benzene	52	5.0	10.0	
Toluene	8.9	5.0	10.0	
Ethylbenzene	32	5.0	10.0	
o-Xylene	ND	5.0	10.0	
p/m-Xylene	15	5.0	10.0	
Xylenes (total)	15	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	10.0	
Tert-Butyl Alcohol (TBA)	ND	5.0	10.0	
Diisopropyl Ether (DIPE)	13	5.0	10.0	
Ethyl-t-Butyl Ether (ETBE)	ND	5.0	10.0	
Tert-Amyl-Methyl Ether (TAME)	ND	5.0	10.0	
1,2-Dibromoethane	ND	5.0	10.0	
1,2-Dichloroethane	ND	5.0	10.0	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
1,4-Bromofluorobenzene	102	68-120		
Dibromofluoromethane	91	80-127		
1,2-Dichloroethane-d4	98	80-128		
Toluene-d8	100	80-120		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Analytical Report

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

Date Received: 12/31/14
Work Order: 14-12-2430
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 79374/022735C

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-4-MW8	14-12-2430-3-B	12/30/14 08:30	Aqueous	GC/MS L	01/08/15	01/08/15 19:49	150108L030

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
Toluene	ND	0.50	1.00	
Ethylbenzene	ND	0.50	1.00	
o-Xylene	ND	0.50	1.00	
p/m-Xylene	ND	0.50	1.00	
Xylenes (total)	ND	0.50	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1.00	
Tert-Butyl Alcohol (TBA)	ND	5.0	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1.00	
1,2-Dibromoethane	ND	0.50	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
Surrogate	Rec. (%)	Control Limits	Qualifiers	
1,4-Bromofluorobenzene	93	68-120		
Dibromofluoromethane	94	80-127		
1,2-Dichloroethane-d4	97	80-128		
Toluene-d8	98	80-120		

Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.

Analytical Report

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

Date Received: 12/31/14
Work Order: 14-12-2430
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 79374/022735C

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Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-884-1224	N/A	Aqueous	GC/MS L	01/08/15	01/08/15 12:12	150108L030

Parameter	Result	RL	DF	Qualifiers
Benzene	ND	0.50	1.00	
Toluene	ND	0.50	1.00	
Ethylbenzene	ND	0.50	1.00	
o-Xylene	ND	0.50	1.00	
p/m-Xylene	ND	0.50	1.00	
Xylenes (total)	ND	0.50	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1.00	
Tert-Butyl Alcohol (TBA)	ND	5.0	1.00	
Diisopropyl Ether (DIPE)	ND	0.50	1.00	
Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1.00	
Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1.00	
1,2-Dibromoethane	ND	0.50	1.00	
1,2-Dichloroethane	ND	0.50	1.00	

Surrogate	Rec. (%)	Control Limits	Qualifiers
1,4-Bromofluorobenzene	98	68-120	
Dibromofluoromethane	92	80-127	
1,2-Dichloroethane-d4	102	80-128	
Toluene-d8	101	80-120	



Return to Contents

RL: Reporting Limit. DF: Dilution Factor. MDL: Method Detection Limit.



Calscience

Quality Control - Spike/Spike Duplicate

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

Date Received: 12/31/14
Work Order: 14-12-2430
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: ExxonMobil 79374/022735C

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-01-0011-1	Sample	Aqueous	GC 25	01/03/15	01/03/15 17:59	150103S012
15-01-0011-1	Matrix Spike	Aqueous	GC 25	01/03/15	01/03/15 18:33	150103S012
15-01-0011-1	Matrix Spike Duplicate	Aqueous	GC 25	01/03/15	01/03/15 19:06	150103S012

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	ND	2000	1864	93	1838	92	68-122	1	0-18	


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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - Spike/Spike Duplicate

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

Date Received: 12/31/14
Work Order: 14-12-2430
Preparation: EPA 5030C
Method: EPA 8260B

Project: ExxonMobil 79374/022735C

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-01-0220-1	Sample	Aqueous	GC/MS L	01/08/15	01/08/15 12:41	150108S003
15-01-0220-1	Matrix Spike	Aqueous	GC/MS L	01/08/15	01/08/15 16:01	150108S003
15-01-0220-1	Matrix Spike Duplicate	Aqueous	GC/MS L	01/08/15	01/08/15 16:29	150108S003

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	10.00	9.528	95	9.668	97	75-125	1	0-20	
Toluene	ND	10.00	9.792	98	9.803	98	75-125	0	0-20	
Ethylbenzene	ND	10.00	9.914	99	9.957	100	75-125	0	0-20	
o-Xylene	ND	10.00	10.16	102	10.32	103	75-127	2	0-20	
p/m-Xylene	ND	20.00	20.65	103	20.69	103	75-125	0	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	8.842	88	8.995	90	71-131	2	0-20	
Tert-Butyl Alcohol (TBA)	ND	50.00	70.04	140	69.49	139	20-180	1	0-40	
Diisopropyl Ether (DIPE)	ND	10.00	10.25	102	10.20	102	64-136	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	9.308	93	9.399	94	73-133	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	8.162	82	8.156	82	75-125	0	0-20	
1,2-Dibromoethane	ND	10.00	9.335	93	9.585	96	75-126	3	0-20	
1,2-Dichloroethane	ND	10.00	9.666	97	9.629	96	75-127	0	0-20	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

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

Date Received: 12/31/14
Work Order: 14-12-2430
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: ExxonMobil 79374/022735C

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-15-278-793	LCS	Aqueous	GC 46	01/02/15	01/03/15 04:02	150102B09			
099-15-278-793	LCSD	Aqueous	GC 46	01/02/15	01/03/15 04:19	150102B09			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	2000	2333	117	2300	115	75-117	1	0-13	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS/LCSD

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

Date Received: 12/31/14
Work Order: 14-12-2430
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: ExxonMobil 79374/022735C

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-15-304-912	LCS	Aqueous	GC 46	01/02/15	01/03/15 03:28	150102B08			
099-15-304-912	LCSD	Aqueous	GC 46	01/02/15	01/03/15 03:45	150102B08			
Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Diesel	2000	1846	92	1797	90	75-117	3	0-13	

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RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS

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

Date Received: 12/31/14
Work Order: 14-12-2430
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: ExxonMobil 79374/022735C

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-436-9794	LCS	Aqueous	GC 25	01/03/15	01/03/15 17:26	150103L018
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>Qualifiers</u>
TPH as Gasoline		2000	1833	92	78-120	



Return to Contents

RPD: Relative Percent Difference. CL: Control Limits



Calscience

Quality Control - LCS

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

Date Received: 12/31/14
Work Order: 14-12-2430
Preparation: EPA 5030C
Method: EPA 8260B

Project: ExxonMobil 79374/022735C

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Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number	
099-12-884-1224	LCS	Aqueous	GC/MS L	01/08/15	01/08/15 11:05	150108L030	
<u>Parameter</u>		<u>Spike Added</u>	<u>Conc. Recovered</u>	<u>LCS %Rec.</u>	<u>%Rec. CL</u>	<u>ME CL</u>	<u>Qualifiers</u>
Benzene		10.00	9.173	92	80-120	73-127	
Toluene		10.00	9.286	93	80-120	73-127	
Ethylbenzene		10.00	9.407	94	80-120	73-127	
o-Xylene		10.00	9.796	98	80-120	73-127	
p/m-Xylene		20.00	19.75	99	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)		10.00	9.595	96	75-123	67-131	
Tert-Butyl Alcohol (TBA)		50.00	59.45	119	80-120	73-127	
Diisopropyl Ether (DIPE)		10.00	10.40	104	73-121	65-129	
Ethyl-t-Butyl Ether (ETBE)		10.00	9.927	99	76-124	68-132	
Tert-Amyl-Methyl Ether (TAME)		10.00	8.895	89	80-120	73-127	
1,2-Dibromoethane		10.00	9.725	97	80-120	73-127	
1,2-Dichloroethane		10.00	9.589	96	80-122	73-129	

Total number of LCS compounds: 12

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

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RPD: Relative Percent Difference. CL: Control Limits

Sample Analysis Summary Report

Work Order: 14-12-2430

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<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 8015B (M)	EPA 3510C	500	GC 46	1
EPA 8015B (M)	EPA 5030C	797	GC 25	2
EPA 8260B	EPA 5030C	316	GC/MS L	2

<u>Qualifiers</u>	<u>Definition</u>
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 suspected matrix interference.
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.
BV	Sample received 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 suspected matrix interference.
HD	Chromat. profile inconsistent with pattern(s) of ref. fuel stdns.
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 was in control.
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.
JA	Analyte positively identified but quantitation is an estimate.
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 Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
SG	A silica gel cleanup procedure was performed.
SN	See applicable analysis comment.

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.

Any parameter identified in 40CFR Part 136.3 Table II that is designated as "analyze immediately" with a holding time of <= 15 minutes (40CFR-136.3 Table II, footnote 4), is considered a "field" test and the reported results will be qualified as being received outside of the stated holding time unless received at the laboratory within 15 minutes of the collection time.

A calculated total result (Example: Total Pesticides) is the summation of each component concentration and/or, if "J" flags are reported, estimated concentration. Component concentrations showing not detected (ND) are summed into the calculated total result as zero concentrations.

Sandy Tat

From: Azat Magdanov (Petaluma) <azat.magdanov@cardno.com>
Sent: Friday, January 02, 2015 8:37 AM
To: Sandy Tat
Cc: David R. Daniels
Subject: RE: ExxonMobil 79374/022735C (14-12-2430)

Hi, Sandy.

MW8 was sampled @ 0830 - right sample name W-4-MW8;
MW7 was sampled @ 0930 - right sample name W-7-MW7.

Best regards,

Azat R. Magdanov
SR. STAFF SCIENTIST
MONITORING AND SAMPLING MANAGER
CARDNO ERI

Phone (+1) 707-766-2000 Fax (+1) 707-789-0414 Mobile (+1) 707-304-2306
Address 601 North McDowell Blvd., Petaluma, CA 94954-2312 USA
Email azat.magdanov@cardno.com Web www.cardno.com www.cardnoeri.com

From: David R. Daniels
Sent: Wednesday, December 31, 2014 4:19 PM
To: Azat Magdanov (Petaluma)
Subject: Fwd: ExxonMobil 79374/022735C (14-12-2430)

See below

Sent from my mobile device

Begin forwarded message:

From: "Sandy Tat" <SandyTat@eurofinsUS.com>
To: "David R. Daniels" <david.daniels@cardno.com>
Subject: ExxonMobil 79374/022735C (14-12-2430)

Notify us [here](#) to report this email as spam.



14-12-2430

Consultant Name: Cardno ERI Account #: NA PO#: Direct Bill Cardno ERI
 Consultant Address: 601 N. McDowell Boulevard Invoice To: Direct Bill Cardno ERI
 Consultant City/State/Zip: Petaluma, California, 94954 Report To: Greg Gurs
 ExxonMobil Project Mgr: Jennifer Sedlachek Project Name: 02 2735 C
 Consultant Project Mgr: Greg Gurs ExxonMobil Site #: 79374 Major Project (AFE):
 Consultant Telephone Number: 707-766-2000 Fax No.: 707-789-0414 Site Address: 990 San Pablo Avenue
 Sampler Name (Print): Darin Einhell Site City, State, Zip: Albany, California
 Sampler Signature: Darin Einhell Oversight Agency: Alameda County Environmental Health Department

Sample ID	Field Point Name	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative												Matrix				Analyze For:							RUSH TAT (Pre-Schedule)	5-day TAT	Standard 10-day TAT	Due Date of Report															
								Methanol	Sodium Bisulfate	HCl	NaOH	H ₂ SO ₄ Plastic	H ₂ SO ₄ Glass	HNO ₃	Ice	Other: Unpreserved	None	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Air	Other (specify): Distilled Water	TPHg 8015M	TPHd 8015M	TPHm 8015M	BTEX 8260B	7 Oxygenates 8260B																				
1 2 3 QCBB	QCBB	12-30-14	945	2																																													
W- 7 -MW7	MW7	↓	930	8														2A	X																													X	
W- 4 -MW8	MW8	↓	830	8														2A	X																														X

Comments/Special Instructions:
 PLEASE E-MAIL ALL PDF FILES TO norcallabs@eri-us.com
 GLOBAL ID # T0619716673

Use silica gel cleanup on all TPHd analyses
 Oxygenates = MTBE, ETBE, DIPE, TAME, TBA, 1,2-DCA, EDB
 Set TBA reporting limit at or below 12 ug/L.

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: Darin Einhell Date: 12/30/14 Time: 1120 Received by: [Signature] Date: 12/30/14 Time: 1120
 Relinquished by: [Signature] Date: 12/30/14 Time: 1730 Received by (Lab personnel): [Signature] Date: 12/31/14 Time: 0900

EM30

12/30/2014



800-322-5555 www.gso.com

Ship From

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

Tracking #: 526521206

NPS



Ship To

CEL
SAMPLE RECEIVING
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

ORC
GARDEN GROVE

A

COD: \$0.00

Weight: 0 lb(s)

Reference:

JACOBSON JAMES, BAES, ERI

Delivery Instructions:

D92845A



Signature Type: REQUIRED

32341272

Print Date: 12/30/2014 2:22 PM

Package 1 of 2

Return to Contents

Calscience

WORK ORDER #: **14-12-2430**

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Cardno ERI

DATE: 12/31/14

TEMPERATURE: Thermometer ID: SC2 (Criteria: 0.0 °C – 6.0 °C, not frozen except sediment/tissue)

Temperature 2.8 °C - 0.2 °C (CF) = 2.6 °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 Checked by: 15

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Checked by: 15

Sample _____ No (Not Intact) Not Present Checked by: 172

SAMPLE CONDITION:	Yes	No	N/A
Chain-Of-Custody (COC) document(s) received with samples.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
COC document(s) received complete.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Collection date/time, matrix, and/or # of containers logged in based on sample labels. <input type="checkbox"/> No analysis requested. <input type="checkbox"/> Not relinquished. <input type="checkbox"/> No date/time relinquished.			
Sampler's name indicated on COC.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC.....	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and good condition.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers and sufficient volume for analyses requested.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Analyses received within holding time.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfides <input type="checkbox"/> Dissolved Oxygen.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation noted on COC or sample container.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input type="checkbox"/> Unpreserved vials received for Volatiles analysis			
Volatile analysis container(s) free of headspace.....	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Tedlar bag(s) free of condensation.....	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE:

Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (____) EnCores® TerraCores® _____

Aqueous: VOA VOAh VOAna₂ 125AGB 125AGBh 125AGBp 1AGB 1AGBna₂ 1AGBs

500AGB 500AGJ 500AGJs 250AGB 250CGB 250CGBs 1PB 1PBna 500PB

250PB 250PBn 125PB 125PBzanna 100PJ 100PJna₂ _____ _____ _____

Air: Tedlar® Canister Other: _____ Trip Blank Lot#: _____ Labeled/Checked by: 172

Container: C: Clear A: Amber P: Plastic G: Glass J: Jar B: Bottle Z: Ziploc/Resealable Bag E: Envelope Reviewed by: 802

Preservative: h: HCL n: HNO₃ na₂: Na₂S₂O₃ na: NaOH p: H₃PO₄ s: H₂SO₄ u: Ultra-pure zna: ZnAc₂+NaOH f: Filtered Scanned by: 802

Return to Contents



Calscience

WORK ORDER #: 14-12-2430

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

Comments:

- Sample(s) NOT RECEIVED but listed on COC
- Sample(s) received but NOT LISTED on COC
- Holding time expired – list sample ID(s) and test
- Insufficient quantities for analysis – list test
- Improper container(s) used – list test
- Improper preservative used – list test
- No preservative noted on COC or label – list test & notify lab
- Sample labels illegible – note test/container type
- Sample label(s) do not match COC – Note in comments
 - Sample ID
 - Date and/or Time Collected
 - Project Information
 - # of Container(s)
 - Analysis
- Sample container(s) compromised – Note in comments
 - Water present in sample container
 - Broken
- Sample container(s) not labeled
- Air sample container(s) compromised – Note in comments
 - Flat
 - Very low in volume
 - Leaking (Not transferred - duplicate bag submitted)
 - Leaking (transferred into Calscience Tedlar® Bag*)
 - Leaking (transferred into Client's Tedlar® Bag*)
- Other: _____

*(-2) labeled as W-7-MW8
Q:10 per container*

HEADSPACE – Containers with Bubble > 6mm or ¼ inch:

Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

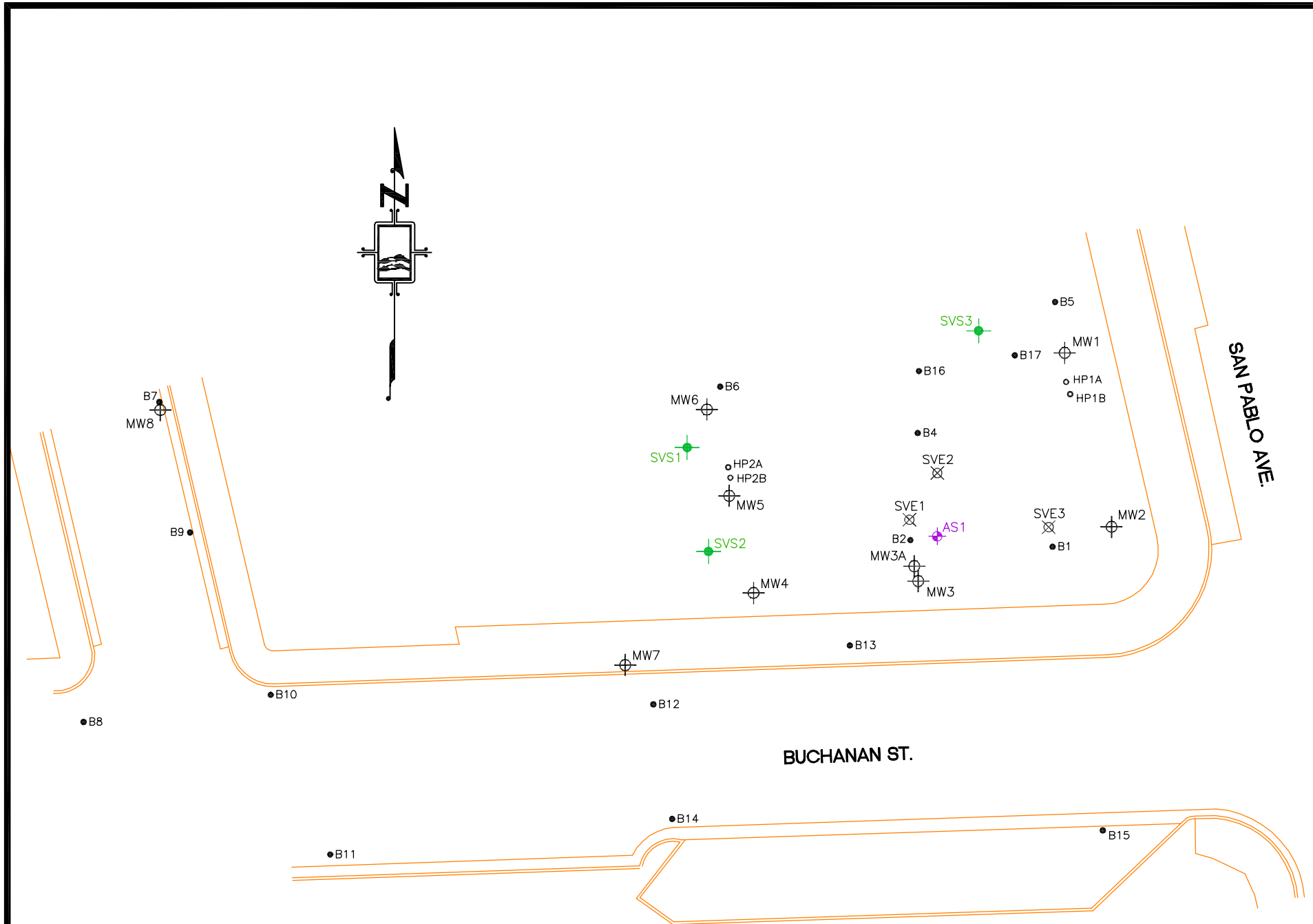
*Transferred at Client's request.

Initial / Date: 972 12/31/14



APPENDIX H

SURVEY



DESC.	NORTHING	EASTING	LATITUDE	LONGITUDE	EL. PVC	EL. RIM	EL. GND
WELLS BORINGS PREVIOUSLY SURVEYED BY CARDNO, CONVERTED TO NAVD 88 BY MORROW:							
B1	2150759.8	6042697.0	37.8879174	-122.2984540			44.1
B2	2150761.3	6042664.8	37.8879199	-122.2985658			43.7
B4	2150785.6	6042666.4	37.8879867	-122.2985617			44.0
B5	2150815.3	6042697.6	37.8880700	-122.2984557			44.7
B6	2150796.1	6042621.6	37.8880132	-122.2987177			44.3
HP1A	2150797.2	6042700.1	37.8880203	-122.2984458			44.5
HP1B	2150794.4	6042701.0	37.8880128	-122.2984424			44.5
HP2A	2150777.8	6042623.4	37.8879631	-122.2987101			43.6
HP2B	2150775.5	6042623.9	37.8879566	-122.2987083			43.5
MW1	2150803.8	6042699.8	37.8880384	-122.2984473	44.19	44.49	
MW2	2150764.3	6042710.4	37.8879305	-122.2984079	43.99	44.37	
MW3	2150752.0	6042666.5	37.8878945	-122.2985590	43.16	43.66	
MW4	2150749.3	6042629.2	37.8878851	-122.2986883	42.04	42.46	
MW5	2150771.3	6042623.6	37.8879453	-122.2987089	43.12	43.40	
MW6	2150790.9	6042618.6	37.8879988	-122.2987277	43.80	44.11	
WELLS SURVEYED BY MORROW ON 2-6-12: (CONVERTED TO NAVD 88 BASED ON 4-3-14 SURVEY)							
MW3A	2150755.4	6042665.6	37.8879037	-122.2985623	43.42	43.69	
SVE1	2150765.9	6042664.6	37.8879326	-122.2985668	43.32	43.77	
SVE2	2150776.5	6042670.9	37.8879620	-122.2985456	43.68	43.95	
SVE3	2150764.2	6042696.1	37.8879296	-122.2984573	43.67	44.18	
AS1	2150762.2	6042670.8	37.8879226	-122.2985448		43.81	
WELLS AND BORINGS SURVEYED BY MORROW ON 4-3-14:							
SVS1	2150782.3	6042614.1	37.8879749	-122.2987427		43.87	
SVS2	2150758.7	6042618.9	37.8879104	-122.2987244		42.90	
SVS3	2150808.8	6042680.3	37.8880511	-122.2985153		44.47	
B7	2150792.6	6042494.3	37.8879969	-122.2991584		40.1	
B8	2150720.0	6042477.1	37.8877967	-122.2992132		39.5	
B9	2150763.0	6042501.3	37.8879160	-122.2991323		39.9	
B10	2150726.2	6042519.6	37.8878158	-122.2990665		40.1	
B11	2150689.9	6042533.1	37.8877171	-122.2990172		40.2	
B12	2150724.0	6042606.4	37.8878144	-122.2987654		41.6	
B13	2150737.4	6042651.0	37.8878535	-122.2986119		42.6	
B14	2150698.0	6042610.7	37.8877432	-122.2987489		41.6	
B15	2150695.4	6042708.4	37.8877413	-122.2984102		43.1	
B16	2150799.7	6042666.7	37.8880253	-122.2985617		44.4	
B17	2150803.2	6042688.5	37.8880363	-122.2984865		44.4	
WELLS SURVEYED ON 12-23-14:							
MW7	2150732.9	6042600.0	37.8878386	-122.2987881	41.21	41.63	
MW8	2150790.8	6042494.5	37.8879920	-122.2991575	39.65	40.06	



	1255 Starboard Drive West Sacramento ~ CA ~ 95691 Phone: 916-372-8124 Fax: 916-372-8538 Email: mark@morrrowsurveying.com www.morrrowsurveying.com	DATE: APRIL, 2014 DATE SURVEYED: 4-3-14 SF, 12-23-14 MS SCALE: 1"=30' SHEET 1 OF 1 FIELD BOOK: MW-57 DRAWING NO. : 1873-155 DRAWN BY: MAM	BASIS OF COORDINATES & ELEVATIONS: COORDINATES ARE CALIFORNIA STATE PLANE ZONE 3 COORDINATES FROM GPS OBSERVATIONS USING CSDS VIRTUAL SURVEY NETWORK. COORDINATE DATUM IS NAD 83. REFERENCE GEOID IS GEOID03. VERTICAL DATUM IS NAVD 88 FROM GPS OBSERVATIONS.	MONITORING WELL EXHIBIT Prepared for: CARDNO ERI
				FORMER EXXON 79374 990 San Pablo Ave. City of Albany Alameda County California

APPENDIX I

WASTE DISPOSAL DOCUMENTATION

Manifest

SOIL SAFE OF CA - TPST Non-Hazardous Soils

↓ Manifest # ↓

Date of Shipment: 1 17 15	Responsible for Payment:	Transport Truck #: 393/733	Facility #: A07	Approval Number: 42671	Load #: 1002
-------------------------------------	--------------------------	--------------------------------------	---------------------------	----------------------------------	------------------------

Generator's Name and Billing Address: EXXONMOBIL OIL CORP. ATTN: EMES ADMINISTRATOR 2555 W. 100TH ST. #1100 TORRANCE, CA 90604	Generator's Phone #: 310-212-2938	
	Person to Contact:	
	FAX#:	Customer Account Number

Consultant's Name and Billing Address:	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) 882-8001	
	Person to Contact: JOE PROVANSAL	
	FAX#: (760) 246-8004	

Transporter Name and Mailing Address: BELSHIRE 25671 TOWNE CENTRE DRIVE FOOTHILL RANCH, CA 92610 BESI: 248797	Transporter's Phone #: 949-460-5200	CAR000183913
	Person to Contact: LARRY MOOTHART	450647
	FAX#: 949-460-5210	Customer Account Number

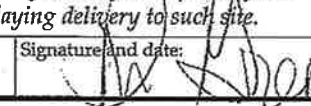
Description of Soil	Moisture Content	Contaminated by:	Approx. Qty:	Description of Delivery	Gross Weight	Tare Weight	Net Weight
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>	3 DM	Soil	38800	37100	1700
Sand <input type="checkbox"/> Organic <input type="checkbox"/> Clay <input type="checkbox"/> Other <input type="checkbox"/>	0 - 10% <input type="checkbox"/> 10 - 20% <input type="checkbox"/> 20% - over <input type="checkbox"/>	Gas <input type="checkbox"/> Diesel <input type="checkbox"/> Other <input type="checkbox"/>					85

List any exception to items listed above: _____ Scale Ticket # **117059**

Generator's and/or consultant's certification: I/We certify that the soil referenced herein is taken entirely from those soils described 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 <input type="checkbox"/> Consultant <input checked="" type="checkbox"/> David Daniels On behalf of Exxon Mobil	Signature and date: 	Month Day Year 12 22 14
--	---	-----------------------------------

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: Don Green	Signature and date: 	Month Day Year 12 23 14
---	---	-----------------------------------

Discrepancies: 79374 1100158	
--	--

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

Print or Type Name: J. PROVANSAL	Signature and date:  1-7-15
--	--

Generator and/or Consultant

Transporter

Recycling Facility

Please print or type.

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No. 133	Manifest Document No. 773570141230	2. Page 1 of
3. Generator's Name and Mailing Address EXXONMOBIL OIL CORP 2555 W. 107TH ST. #1168 TORRANCE, CA 90504		JATIN EMES ADMINISTRATOR 1990 San Pablo Ave, Albany, CA EM 79374		
4. Generator's Phone (310) 7212-2833				
5. Transporter 1 Company Name CARANO	6. US EPA ID Number 3.72	A. State Transporter's ID 707-788-2000		
7. Transporter 2 Company Name	8. US EPA ID Number	B. Transporter 1 Phone		
9. Designated Facility Name and Site Address INSTRAT INC. 1105 C. AIRPORT ROAD RICO VISTA, CA 94571		C. State Transporter's ID		
		D. Transporter 2 Phone		
		E. State Facility's ID		
		F. Facility's Phone 530-753-1829		
11. WASTE DESCRIPTION		12. Containers No. Type	13. Total Quantity	14. Unit Wt./Vol.
a. NON-HAZARDOUS PURGE WATER		1 Trailer	35	gal
b.				
c.				
d.				
G. Additional Descriptions for Materials Listed Above		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 On behalf of Exxon Mobil A714 R. Maydoral		Signature <i>[Signature]</i>		Date Month Day Year 12 30 14
17. Transporter 1 Acknowledgement of Receipt of Materials		Date		
Printed/Typed Name JOE D LEWIS		Signature <i>[Signature]</i>		Month Day Year 1 12 15
18. Transporter 2 Acknowledgement of Receipt of Materials		Date		
Printed/Typed Name		Signature		Month Day Year
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.				
Printed/Typed Name PATRICK M. Lewis LLC		Signature <i>[Signature]</i>		Date Month Day Year 1 12 15

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. 273520141223	2. Page 1 of
3. Generator's Name and Mailing Address EXXONMOBIL OIL CORP. 2555 W. 190TH ST. #1106 TORRANCE, CA 90504		ATTN: EMES ADMINISTRATOR 990 San Pablo Ave. Albany, CA. (EM 2735-79374)			
4. Generator's Phone (310) 212-2938					
5. Transporter 1 Company Name CARDNO		6. US EPA ID Number		A. State Transporter's ID 707-766-2000	
7. Transporter 2 Company Name		8. US EPA ID Number		B. Transporter 1 Phone	
9. Designated Facility Name and Site Address INSTRAT INC. 1105 C. AIRPORT ROAD RIO VISTA, CA 94571		10. US EPA ID Number		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 530-753-1829	
11. WASTE DESCRIPTION			12. Containers		13. Total Quantity
			No.	Type	14. Unit Wt./Vol.
a. NON-HAZARDOUS PURGE WATER			01	Trailer	65 GAL
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above			H. Handling Codes for Wastes Listed Above		
15. Special Handling instructions and Additional Information					
<p>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.</p>					
Printed/Typed Name <i>on behalf of</i> ExxonMobil Azar R. Magdones				Signature <i>[Signature]</i>	
				Date 12 23 2015	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name JOE D. LEWIS				Signature <i>[Signature]</i>	
				Date 1 16 15	
18. Transporter 2 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name				Signature	
				Date	
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.					
Printed/Typed Name MICHAEL WHITEHEAD				Signature <i>[Signature]</i>	
				Date 1 16 15	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY

