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Jennifer C. Sedlachek
Project Manager

ExxonMobil

July 9, 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 11:00 am, Jul 13, 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 *Groundwater Monitoring Report, Second Quarter 2015*, dated July 9, 2015, for the above-referenced site. The report was prepared by Cardno 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's *Groundwater Monitoring Report, Second Quarter 2015*, dated July 9, 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

July 9, 2015
Cardno 2735C.Q152 Former Exxon Service Station 79374, Albany, California

RESULTS AND CONCLUSIONS

Groundwater Gradient

Due to varying well construction, the wells are separated 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 the quarter, the groundwater flow direction in the shallow water-bearing zone was towards the southwest under a hydraulic gradient of approximately 0.038. Due to varying well construction, the groundwater flow in the deep water-bearing zone was not calculated. Groundwater elevation maps for the shallow and deep water-bearing zones are included as Plates 3 and 4, respectively.

Non-Aqueous Phase Liquid

During the fourth quarter 2012 sampling event, concentrations of TPHg (270,000 µg/L) were two orders of magnitude higher in well MW4 than previous concentrations, potentially indicative of the presence of NAPL. Although the TPHg concentrations increased, BTEX concentrations were consistent with previous data. NAPL has not been observed at the site. Concentrations of TPHg reported in well MW4 since second quarter 2013 have been consistent with historical results. A sheen was observed in wells MW4 and MW5 during this event.

Hydrocarbons in Groundwater

Petroleum hydrocarbons, including HVOCs, were reported in each well sampled at the site:

- Concentrations of TCE and PCE were reported in upgradient wells MW1 and MW2 and do not coincide with fuel hydrocarbon concentrations.
- Maximum petroleum hydrocarbon concentrations were reported in well MW3, located in the vicinity of the former USTs, and wells MW4 and MW5, located west of the former USTs.
- Petroleum hydrocarbons were consistent with recent results.

RECOMMENDATIONS

Groundwater samples have been analyzed for TPHmo since the onset of sampling in 2010. When reported, TPHmo concentrations are typically at least one order of magnitude less than the TPHg or TPHd concentration. Cardno recommends discontinuing TPHmo analysis. Cardno recommends continued semi-annual groundwater monitoring and sampling.

WORK IN PROGRESS

As requested in the Alameda County Department of Environmental Health letter dated March 13, 2015, Cardno submitted the *Remedial Design Implementation Plan and Data Gap Investigation Work Plan* (Cardno, 2015), expanding on the remediation plans proposed in the *Feasibility Study/Corrective Action Plan* (Cardno ERI, 2015). Cardno anticipates permitting the proposed work following approval of the plans.

LIMITATIONS

For documents cited that were not generated by Cardno, the data taken from those documents is used "as is" and is assumed to be accurate. Cardno 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

July 9, 2015
 Cardno 2735C.Q152 Former Exxon Service Station 79374, Albany, California

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.

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

Sincerely,

Christine M. Capwell
 SCANNED IMAGE



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Enclosures:

References
 Acronym List

Plate 1	Site Vicinity Map
Plate 2	Select Analytical Results
Plate 3	Groundwater Elevation Map, Shallow Water-Bearing Zone
Plate 4	Groundwater Elevation Map, Deep Water-Bearing Zone
Table 1A	Cumulative Groundwater Monitoring and Sampling Data
Table 1B	Additional Cumulative Groundwater Monitoring and Sampling Data
Table 2	Well Construction Details
Appendix A	Groundwater Sampling Protocol
Appendix B	Field Data Sheets
Appendix C	Laboratory Analytical Report
Appendix D	Waste Disposal Documentation

cc: Mr. Mark Detterman, Alameda County Health Care Services Agency, Environmental Health Services, 1131 Harbor Bay Parkway, Suite 250, Alameda, California, 94502-6577

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

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

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

July 9, 2015

Cardno 2735C.Q152 Former Exxon Service Station 79374, Albany, California

REFERENCES

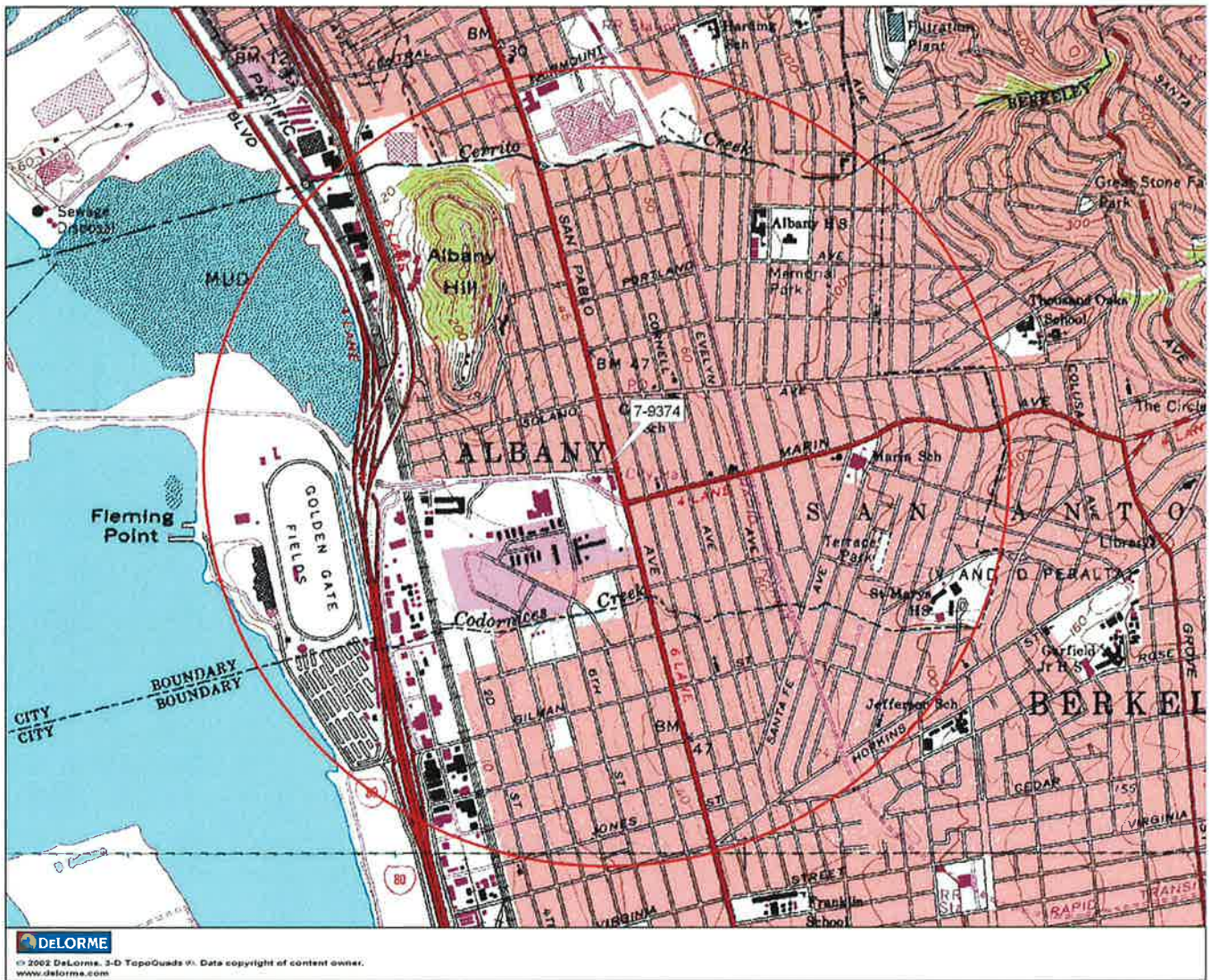
Cardno. May 15, 2015. *Remedial Design Implementation Plan and Data Gap Investigation Work Plan, Former Exxon Service Station 79374, 990 San Pablo Avenue, Albany, California..*

Cardno ERI. February 4, 2015. *Feasibility Study/Corrective Action Plan, Former Exxon Service Station 79374, 990 San Pablo Avenue, Albany, California.*

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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		



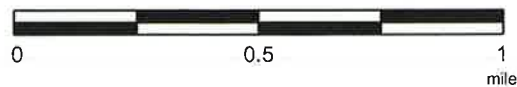
FN 2735 TOPO

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.

2735

PLATE

1

Analyte Concentrations in ug/L
 Sampled June 2, 2015

Total Petroleum Hydrocarbons
 as gasoline
 Benzene
 Methyl Tertiary Butyl Ether

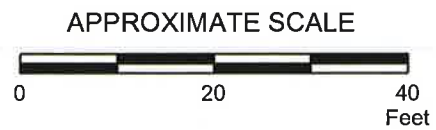
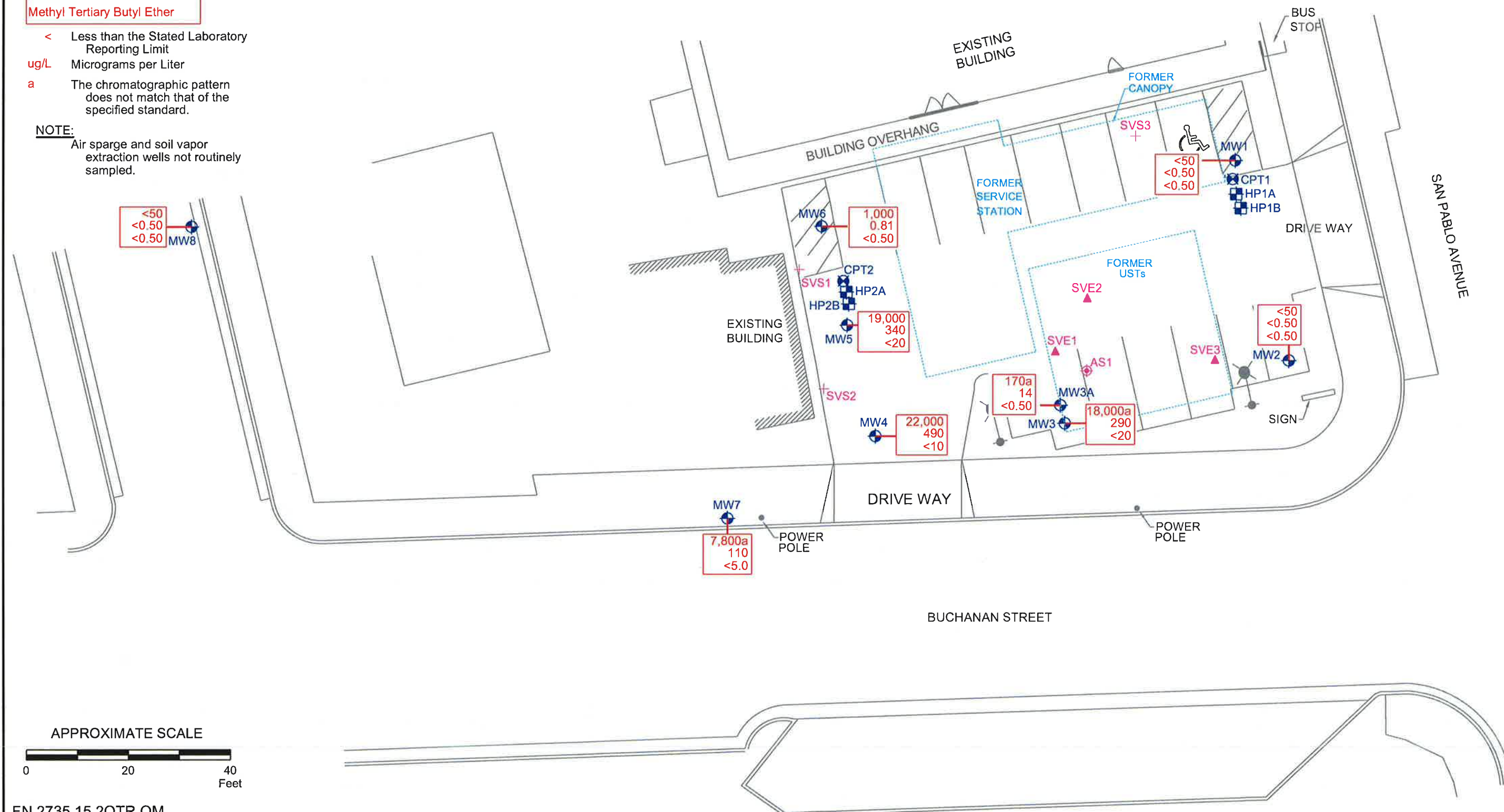
< Less than the Stated Laboratory Reporting Limit

ug/L Micrograms per Liter

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

NOTE:

Air sparge and soil vapor extraction wells not routinely sampled.



FN 2735 15 2QTR QM

**SELECT ANALYTICAL RESULTS
 June 2, 2015**

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

EXPLANATION

- MW6 Groundwater Monitoring Well
- HP2B Hydropunch Boring
- AS1 Air Sparge Well
- CPT2 Cone Penetration Test Boring
- SVE3 Soil Vapor Extraction Well
- SVS3 Soil Vapor Sampling Well

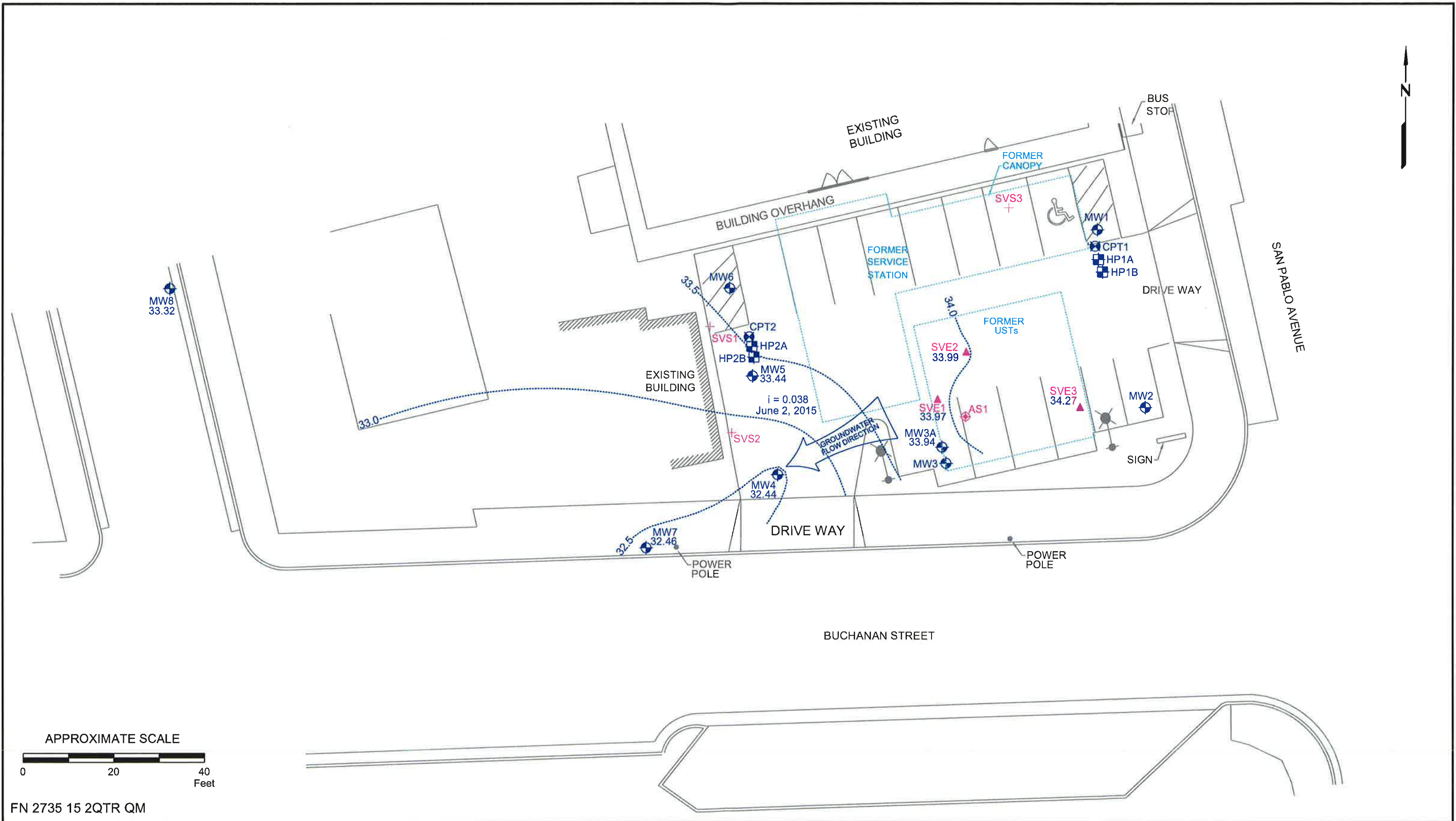
PROJECT NO.

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PLATE

2





FN 2735 15 2QTR QM

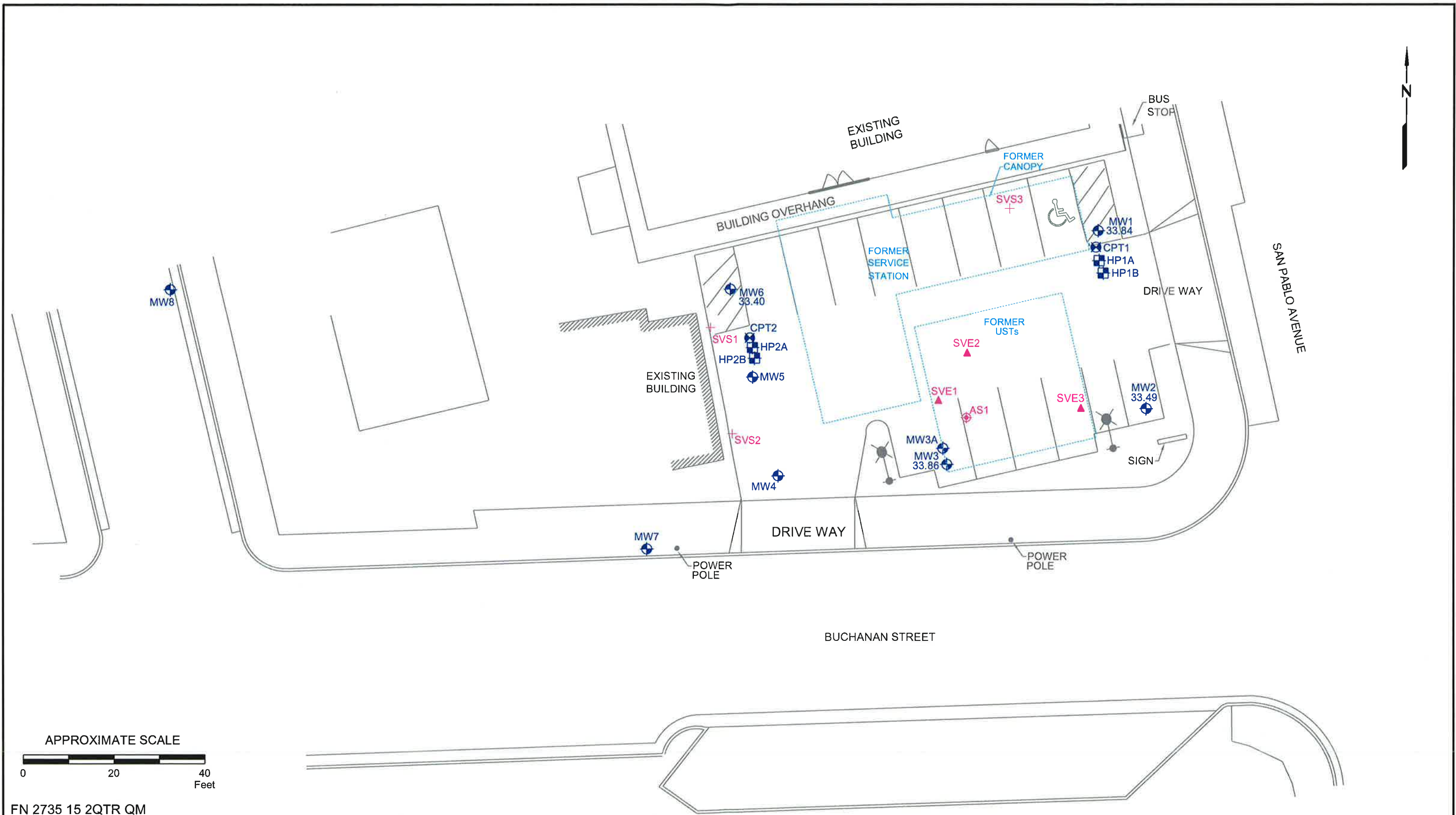
**GROUNDWATER ELEVATION MAP
SHALLOW WATER-BEARING ZONE
June 2, 2015**
FORMER EXXON SERVICE STATION 79374
990 San Pablo Avenue
Albany, California

EXPLANATION

- MW6 Groundwater Monitoring Well
- 33.32 Groundwater elevation in feet; datum is NAVD88
- i = Interpreted Hydraulic Gradient
- HP2B Hydropunch Boring
- CPT2 Cone Penetration Test Boring
- AS1 Air Sparge Well
- SVE3 Soil Vapor Extraction Well
- SVS3 Soil Vapor Sampling Well
- 34.0 Line of Equal Groundwater Elevation; datum is NAVD88



PROJECT NO.
2735
PLATE
3



FN 2735 15 2QTR QM

**GROUNDWATER ELEVATION MAP
DEEP WATER-BEARING ZONE
June 2, 2015**
FORMER EXXON SERVICE STATION 79374
990 San Pablo Avenue
Albany, California

EXPLANATION

- MW6 Groundwater Monitoring Well
- 33.40 Groundwater elevation in feet; datum is NAVD88
- HP2B Hydropunch Boring
- CPT2 Cone Penetration Test Boring
- AS1 Air Sparge Well
- SVE3 Soil Vapor Extraction Well
- SVS3 Soil Vapor Sampling 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
MW1	06/02/15	---	44.19	10.35	33.84	No	---	<250	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	11/04/10	---	Well installed.												
MW2	12/01/10	---	41.25	Well surveyed.											
MW2	12/16/10	---	41.25	8.11	33.14	No	---	<250	110a	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	01/31/11	---	41.25	9.29	31.96	No	---	<250	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	04/07/11	---	41.25	8.21	33.04	No	---	<250	<50	<50	0.51	<0.50	<0.50	<0.50	<0.50
MW2	07/18/11	---	41.25	9.52	31.73	No	---	<250	<50	54a	<0.50	<0.50	<0.50	<0.50	<0.50
MW2	10/13/11	---	41.25	9.56	31.69	No	---	<250	98	75a	<0.50	<0.50	<0.50	<0.50	<0.50
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
MW2	06/02/15	---	43.99	10.50	33.49	No	---	<250	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50
MW3	11/08/10	---	Well installed.												
MW3	12/01/10	---	40.42	Well surveyed.											
MW3	12/16/10	---	40.42	8.18	32.24	No	---	<250	2,900a	19,000	<12	350	130	940	290
MW3	01/31/11	---	40.42	7.64	32.78	No	---	390	2,800a	17,000a	<12	540	140	700	270
MW3	04/07/11	---	40.42	5.88	34.54	No	---	<250	2,700a	14,000	<10	600	150	780	230
MW3	07/18/11	---	40.42	8.31	32.11	No	---	<250	1,700a	19,000	<10	650	140	660	220
MW3	10/13/11	---	40.42	8.76	31.66	No	---	<250	1,900a	16,000	<10	520	150	900	270

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	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
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
MW3	06/02/15	---	43.16	9.30	33.86	No	---	<250	3,900a	18,000a	<20	290	110	850	140
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
MW3A	06/02/15	---	43.42	9.48	33.94	No	---	<250	89a	170a	<0.50	14	0.95	6.7	1.8
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
MW4	06/02/15	---	42.04	9.60	32.44	Sheen	---	<250	5,100a	22,000	<10	490	36	280	170
MW5	11/11/10	---	Well installed.		---	---	---	---	---	---	---	---	---	---	---

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	12/01/10	---	40.38	Well surveyed.											
MW5	12/16/10	---	40.38	7.69	32.69	No	---	<250	1,100a	6,200	<2.5	150	96	270	980
MW5	01/31/11	---	40.38	8.00	32.38	No	---	270	4,600a	15,000	<10	520	310	1,100	2,500
MW5	04/07/11	---	40.38	6.73	33.65	No	---	<250	610a	2,500	<2.5	61	32	180	390
MW5	07/18/11	---	40.38	7.63	32.75	No	---	<250	2,000a	11,000	<2.5	340	160	990	1,800
MW5	10/13/11	---	40.38	9.31	31.07	No	---	660	7,600a	23,000	<20	390	160	1,200	3,100
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
MW5	06/02/15	---	43.12	9.68	33.44	Sheen	---	340a	4,400a	19,000	<20	340	<20	880	430
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
MW6	06/02/15	---	43.80	10.40	33.40	No	---	<250	360a	1,000	<0.50	0.81	<0.50	2.0	1.1
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
MW7	06/02/15	---	41.21	8.75	32.46	No	---	<250	2,700a	7,800a	<5.0	110	13	39	16
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
MW8	06/02/15	---	39.65	6.33	33.32	No	---	<250	<50	<50	<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

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)
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	---	---	---	---	---	---	---	---	---
AS1	06/02/15	---	---	9.50	---	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	---	---	---	---	---	---	---	---	---
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	---	---	---	---	---	---	---	---	---
SVE1	06/02/15	---	43.32	9.35	33.97	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	---	---	---	---	---	---	---	---	---
SVE2	06/02/15	---	43.68	9.69	33.99	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	---	---	---	---	---	---	---	---	---
SVE3	06/02/15	---	43.67	9.40	34.27	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

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)
B-4W	01/06/08	---	---	---	---	---	---	<250s	3,100o,s	7,700 l,s	<10	360	<10	240	20
B-5W	01/06/08	---	---	---	---	---	---	<250s	120o,s	120q,s	<0.5	<0.5	<0.5	<0.5	<0.5
B-6W	01/06/08	---	---	---	---	---	---	<250s	830o,s	1,700 l,s	<2.5	5.2	<2.5	100	8.6
DR-W	01/06/08	---	---	---	---	---	---	<250	96o	730m,p	<0.5	<0.5	<0.5	6.9	14
W-27.5-HP1A	10/28/10	27.5	---	---	---	---	---	260	330a	63a	<0.50	<0.50	<0.50	<0.50	<0.50
W-36-HP1A	10/28/10	36	---	---	---	---	---	<250	220a	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-46.5-HP1A	10/28/10	46.5	---	---	---	---	---	<420	<83	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-59-HP1B	10/27/10	59	---	---	---	---	---	<250	130	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-27.5-HP2A	10/29/10	27.5	---	---	---	---	---	<250	100a	340	<0.50	1.7	2.1	20	46
W-52-HP2A	10/29/10	52	---	---	---	---	---	<250	<50	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-60.5-HP2B	10/27/10	60.5	---	---	---	---	---	<250	62	<50	<0.50	<0.50	<0.50	<0.50	<0.50
W-10-SVE1-1	01/31/12	10	---	---	---	---	---	990a	1,900a	2,000	<2.0	87	2.1	13	23
W-10-SVE1-2	01/31/12	10	---	---	---	---	---	890a	1,500a	1,400	<1.0	46	2.0	24	23
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	---	---	---	---	---	---	---	---	---	---	---	---	---	---
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.
- α = Chloroform.
- β = Bromodichloromethane.

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	---	
MW1	06/02/15	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	19w, 110y, 9.3z	---	
Monitoring Well Samples											
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	---	
MW2	06/02/15	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	8.4w, 78y, 6.9z	---	
Monitoring Well Samples											
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	---	
MW3	06/02/15	---	<20	<20	<20	<200	<20	<20	21b, 90d, 130e, 40g, 240h	---	
MW3A	01/18/12	---	Well installed.								

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	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	---	---	
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	---	
MW3A	06/02/15	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	1.1b, 2.5c, 2.4d, 3.3e, 2.5f, 0.61g, 1.4h, 0.89v	---	
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	---	
MW4	06/02/15	---	<10	<10	<10	<100	<10	<10	83b, 27c, 70d, 170e, 320f, 130g, 170h, 10v	---	
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	---	
MW5	06/02/15	---	<20	<20	<20	<200	<20	<20	110b, 42c, 120d, 390e, 820f, 150g, 210h	---	
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	---	---	

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)
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	---
MW6	06/02/15	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	3.2b, 2.9c, 4.6d, 11e, 3.3h	---
MW7	12/08/14	---	Well installed.							
MW7	12/30/14	---	<5.0	<5.0	<5.0	<50	<5.0	13	---	---
MW7	06/02/15	---	<5.0	<5.0	<5.0	<50	<5.0	19	45b, 24c, 110d, 270e, 150h	---
MW8	12/08/14	---	Well installed.							
MW8	12/30/14	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	---	---
MW8	06/02/15	---	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	23a, 0.85β	---
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	---	---

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-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	---	---
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		---	---	---	---	---	---	---	---
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.
- α = Chloroform.
- β = Bromodichloromethane.

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.

APPENDIX A
GROUNDWATER SAMPLING PROTOCOL

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 B
FIELD DATA SHEETS



Cardno
ERI
Shaping the Future

Daily Field Report

Project ID #:	79374	ERI Job #	2735
Subject:	Monitoring & Sampling	Date:	6/2/15
Equipment Used:	DTW Tape, sub. pump	Sheet:	1 of 1
Name(s):	JOE LEWIS		
Time Arrived On Site:	Time Departed Site:	Total Travel:	

on site		515
M&S Meeting		515-530
opened wells		530-600
Decon Equipment		600-630
DTW on wells		630-710
Purged wells	MW2, MW1, MW3, MW3A, MW6 MW5, MW4, MW7, MW8	735-1223
Sampled wells	MW2, MW1, MW3, MW3A, MW6 MW5, MW4, MW7, MW8	945-1235
@CBB		1245
off site		1330

Decon Water - 24 gal.
Purge Water - 51 gal.
TOTAL WATER - 75 gal.

NO NAPL Present in MW4

WATER SAMPLING SITE STATUS

Date: 6/2/15

Inspected by: JOE LEWIS

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 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	
ASI	OK	OK	OK	NA	OK	OK	OK	OK	OK	NA	NA	NA	NA	OK	
SVE1	OK	OK	OK	N	OK	OK	N	OK	OK	NA	NA	NA	NA	OK	NO LOCK
SVE2	OK	OK	OK	N	OK	OK	N	OK	OK	NA	NA	NA	NA	OK	NO LOCK
SVE3	OK	OK	OK	N	OK	OK	N	OK	OK	NA	NA	NA	NA	OK	NO LOCK
MW2	OK	OK	OK	N	OK	OK	N	OK	OK	NA	NA	NA	NA	OK	NO LOCK
MW1	OK	OK	OK	N	OK	OK	X	OK	OK	NA	NA	NA	NA	OK	NO LOCK
MW3A	OK	OK	OK	N	OK	OK	N	OK	OK	NA	NA	NA	NA	OK	NO LOCK
MW3	OK	OK	OK	N	OK	OK	N	OK	OK	NA	NA	NA	NA	OK	NO LOCK
MW5	OK	OK	OK	N	OK	OK	N	OK	OK	NA	NA	NA	NA	OK	NO LOCK
MW5	OK	OK	OK	N	OK	OK	N	OK	OK	NA	NA	NA	NA	OK	
MW4	OK	OK	OK	N	OK	OK	N	OK	OK	NA	NA	NA	NA	OK	NO LOCK
MW8	OK	OK	OK	N	OK	OK	N	OK	OK	NA	NA	NA	NA	OK	NO LOCK
MW7	OK	OK	OK	N	OK	OK	N	OK	OK	NA	NA	NA	NA	OK	NO LOCK

N = Not repairable in time available-see comments.
 R = Repaired-see comments
 ok = No action needed.

Y = Yes.
 N = No.

s = Soil.
 w = Water.
 e = Empty.

g = Graffiti on walls.
 v = Vagrants (or evidence of).
 o = Open (not secured).

GROUNDWATER SAMPLING FIELD LOG

Client Name: Exxon Mobil

Cardno ERI Job #: 2735

Date: 6/2/15 Page 1 of 2

Location: 79374

Field Cleaning Performed: _____

Case Volume = (TD - DTW) x F where F =

Field Crew: JOE LEWIS

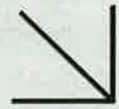
Analysis: _____

0.163 for 2" inside-diameter well casing
 0.652 for 4" inside-diameter well casing
 1.457 for 6" inside-diameter well casing

Well ID	Time	Case Volume	Purge Volume	Temp	Cond	pH	Post-Purge DTW	80% Recharge	BB	40mil	Amber	DO	ORP	Comments Well Box Condition
---------	------	-------------	--------------	------	------	----	----------------	--------------	----	-------	-------	----	-----	-----------------------------

MW 2	735	4.16	5				10.55	Y						Dry @ 8 gal.
	738		5	19.8	433	7.44	6/2/15							Slow recharge
	741		10	19.8	422	7.30	MW 2							
			15				445							
MW 1	753	1.02	2				10.42	Y						Dry @ 3 gal.
	755		2	20.8	401	7.39	6/2/15							Slow recharge
			4				MW 1							
			6				1000							
MW 3A	810	3.58	4				14.30	N						Dry @ 9 gal
	813		4	20.4	326	7.30	6/2/15							does not recharge
	816		8	20.6	327	7.20	MW 3A							in 2 HRS
			12				1016							
MW 3	823	3.84	4				14.54	N						Dry @ 9 gal.
	826		4	20.2	379	7.00	6/2/15							does not recharge
			8				MW 3							in 2 HRS
			12				1040							
MW 6	835	1.44	2				11.80	Y						Slow recharge
	839		2	20.0	319	7.01	6/2/15							Hand Bailed
	843		4	19.9	326	6.95	MW 6							
	847		6	19.8	325	6.91	1055							
MW 5	854	0.60	1				10.95	N						does not recharge
	855		1	21.1	326	7.13	6/2/15							in 2 HRS
	856		2	21.1	341	6.94	MW 5							Hand Bailed
	858		3	21.0	339	6.93	1115							
MW 4	909	0.57	1				10.45	N						does not recharge
	910		1	21.3	373	6.95	6/2/15							in 2 HRS
	911		2	21.3	390	6.87	MW 4							Hand Bailed
	912		3	21.1	400	6.85	1130							

APPENDIX C
LABORATORY ANALYTICAL REPORT



WORK ORDER NUMBER: 15-06-0327

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

Approved for release on 06/18/2015 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.

Contents

Client Project Name: ExxonMobil 79374/022735C
Work Order Number: 15-06-0327

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Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 06/04/15. They were assigned to Work Order 15-06-0327.

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.

Subcontractor Information:

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

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.

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.

Sample Summary

Client: Cardno ERI	Work Order:	15-06-0327
601 North McDowell Blvd.	Project Name:	ExxonMobil 79374/022735C
Petaluma, CA 94954-2312	PO Number:	022735C
	Date/Time Received:	06/04/15 10:10
	Number of Containers:	92

Attn: Greg Gurs

Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix
QCBB	15-06-0327-1	06/02/15 12:45	2	Aqueous
MW1	15-06-0327-2	06/02/15 10:00	10	Aqueous
MW2	15-06-0327-3	06/02/15 09:45	10	Aqueous
MW3	15-06-0327-4	06/02/15 10:40	10	Aqueous
MW3A	15-06-0327-5	06/02/15 10:16	10	Aqueous
MW4	15-06-0327-6	06/02/15 11:30	10	Aqueous
MW5	15-06-0327-7	06/02/15 11:15	10	Aqueous
MW6	15-06-0327-8	06/02/15 10:55	10	Aqueous
MW7	15-06-0327-9	06/02/15 11:55	10	Aqueous
MW8	15-06-0327-10	06/02/15 12:35	10	Aqueous

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Analytical Report

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

Date Received: 06/04/15
Work Order: 15-06-0327
Preparation: EPA 3510C
Method: EPA 8015B (M)
Units: ug/L

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
MW1	15-06-0327-2-J	06/02/15 10:00	Aqueous	GC 45	06/05/15	06/06/15 10:43	150605B13
<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		81		68-140			
MW2	15-06-0327-3-J	06/02/15 09:45	Aqueous	GC 45	06/05/15	06/06/15 11:02	150605B13
<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		81		68-140			
MW3	15-06-0327-4-J	06/02/15 10:40	Aqueous	GC 45	06/05/15	06/06/15 11:20	150605B13
<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		89		68-140			
MW3A	15-06-0327-5-J	06/02/15 10:16	Aqueous	GC 45	06/05/15	06/06/15 11:38	150605B13
<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		72		68-140			
MW4	15-06-0327-6-J	06/02/15 11:30	Aqueous	GC 45	06/05/15	06/06/15 11:58	150605B13
<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		85		68-140			

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: 06/04/15
 Work Order: 15-06-0327
 Preparation: EPA 3510C
 Method: EPA 8015B (M)
 Units: ug/L

Project: ExxonMobil 79374/022735C

Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW5	15-06-0327-7-J	06/02/15 11:15	Aqueous	GC 45	06/05/15	06/06/15 12:16	150605B13
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
TPH as Motor Oil		340	250		1.00		HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>	<u>Control Limits</u>		<u>Qualifiers</u>		
n-Octacosane		72	68-140				
MW6	15-06-0327-8-J	06/02/15 10:55	Aqueous	GC 45	06/05/15	06/06/15 13:12	150605B13
<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		80	68-140				
MW7	15-06-0327-9-J	06/02/15 11:55	Aqueous	GC 45	06/05/15	06/06/15 13:31	150605B13
<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		85	68-140				
MW8	15-06-0327-10-J	06/02/15 12:35	Aqueous	GC 45	06/05/15	06/06/15 13:49	150605B13
<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		74	68-140				
Method Blank	099-15-278-936	N/A	Aqueous	GC 45	06/05/15	06/06/15 07:54	150605B13
<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		82	68-140				

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

Analytical Report

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

Date Received: 06/04/15
 Work Order: 15-06-0327
 Preparation: EPA 3510C
 Method: EPA 8015B (M)
 Units: ug/L

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
MW1	15-06-0327-2-J	06/02/15 10:00	Aqueous	GC 45	06/05/15	06/06/15 10:43	150605B12
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		50		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		81		68-140			
MW2	15-06-0327-3-J	06/02/15 09:45	Aqueous	GC 45	06/05/15	06/06/15 11:02	150605B12
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		ND		50		1.00	SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		81		68-140			
MW3	15-06-0327-4-J	06/02/15 10:40	Aqueous	GC 45	06/05/15	06/06/15 11:20	150605B12
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		3900		50		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		89		68-140			
MW3A	15-06-0327-5-J	06/02/15 10:16	Aqueous	GC 45	06/05/15	06/06/15 11:38	150605B12
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		89		50		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		72		68-140			
MW4	15-06-0327-6-J	06/02/15 11:30	Aqueous	GC 45	06/05/15	06/06/15 11:58	150605B12
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Diesel		5100		50		1.00	HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
n-Octacosane		85		68-140			

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

Analytical Report

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

Date Received: 06/04/15
Work Order: 15-06-0327
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
MW5	15-06-0327-7-J	06/02/15 11:15	Aqueous	GC 45	06/05/15	06/06/15 12:16	150605B12
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
TPH as Diesel		4400	50		1.00		HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>	<u>Control Limits</u>		<u>Qualifiers</u>		
n-Octacosane		72	68-140				
MW6	15-06-0327-8-J	06/02/15 10:55	Aqueous	GC 45	06/05/15	06/06/15 13:12	150605B12
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
TPH as Diesel		360	50		1.00		HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>	<u>Control Limits</u>		<u>Qualifiers</u>		
n-Octacosane		79	68-140				
MW7	15-06-0327-9-J	06/02/15 11:55	Aqueous	GC 45	06/05/15	06/06/15 13:31	150605B12
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
TPH as Diesel		2700	50		1.00		HD,SG
<u>Surrogate</u>		<u>Rec. (%)</u>	<u>Control Limits</u>		<u>Qualifiers</u>		
n-Octacosane		85	68-140				
MW8	15-06-0327-10-J	06/02/15 12:35	Aqueous	GC 45	06/05/15	06/06/15 13:49	150605B12
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
TPH as Diesel		ND	50		1.00		SG
<u>Surrogate</u>		<u>Rec. (%)</u>	<u>Control Limits</u>		<u>Qualifiers</u>		
n-Octacosane		74	68-140				
Method Blank	099-15-304-1059	N/A	Aqueous	GC 45	06/05/15	06/06/15 07:54	150605B12
<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		82	68-140				

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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: 06/04/15
Work Order: 15-06-0327
Preparation: EPA 5030C
Method: EPA 8015B (M)
Units: ug/L

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
MW1	15-06-0327-2-H	06/02/15 10:00	Aqueous	GC 1	06/11/15	06/13/15 07:01	150611L064
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
TPH as Gasoline		ND	50		1.00		
<u>Surrogate</u>		<u>Rec. (%)</u>	<u>Control Limits</u>		<u>Qualifiers</u>		
1,4-Bromofluorobenzene		76	38-134				
MW2	15-06-0327-3-H	06/02/15 09:45	Aqueous	GC 1	06/11/15	06/13/15 07:37	150611L064
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
TPH as Gasoline		ND	50		1.00		
<u>Surrogate</u>		<u>Rec. (%)</u>	<u>Control Limits</u>		<u>Qualifiers</u>		
1,4-Bromofluorobenzene		76	38-134				
MW3	15-06-0327-4-H	06/02/15 10:40	Aqueous	GC 1	06/11/15	06/13/15 15:19	150611L064
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
TPH as Gasoline		18000	500		10.0		HD
<u>Surrogate</u>		<u>Rec. (%)</u>	<u>Control Limits</u>		<u>Qualifiers</u>		
1,4-Bromofluorobenzene		101	38-134				
MW3A	15-06-0327-5-H	06/02/15 10:16	Aqueous	GC 1	06/11/15	06/13/15 08:12	150611L064
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
TPH as Gasoline		170	50		1.00		HD
<u>Surrogate</u>		<u>Rec. (%)</u>	<u>Control Limits</u>		<u>Qualifiers</u>		
1,4-Bromofluorobenzene		79	38-134				
MW4	15-06-0327-6-H	06/02/15 11:30	Aqueous	GC 1	06/11/15	06/13/15 15:55	150611L064
<u>Parameter</u>		<u>Result</u>	<u>RL</u>		<u>DF</u>		<u>Qualifiers</u>
TPH as Gasoline		22000	500		10.0		
<u>Surrogate</u>		<u>Rec. (%)</u>	<u>Control Limits</u>		<u>Qualifiers</u>		
1,4-Bromofluorobenzene		105	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: 06/04/15
Work Order: 15-06-0327
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
MW5	15-06-0327-7-H	06/02/15 11:15	Aqueous	GC 1	06/11/15	06/13/15 17:07	150611L064
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		19000		500		10.0	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene		100		38-134			
MW6	15-06-0327-8-H	06/02/15 10:55	Aqueous	GC 1	06/11/15	06/13/15 08:48	150611L064
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		1000		50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene		82		38-134			
MW7	15-06-0327-9-H	06/02/15 11:55	Aqueous	GC 1	06/11/15	06/13/15 17:42	150611L064
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		7800		100		2.00	HD
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene		137		38-134		AZ	
MW8	15-06-0327-10-H	06/02/15 12:35	Aqueous	GC 1	06/11/15	06/13/15 09:23	150611L064
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene		73		38-134			
Method Blank	099-12-436-10158	N/A	Aqueous	GC 1	06/11/15	06/13/15 04:39	150611L064
<u>Parameter</u>		<u>Result</u>		<u>RL</u>		<u>DF</u>	<u>Qualifiers</u>
TPH as Gasoline		ND		50		1.00	
<u>Surrogate</u>		<u>Rec. (%)</u>		<u>Control Limits</u>		<u>Qualifiers</u>	
1,4-Bromofluorobenzene		75		38-134			

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

Analytical Report

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

Date Received: 06/04/15
Work Order: 15-06-0327
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
MW1	15-06-0327-2-D	06/02/15 10:00	Aqueous	GC/MS L	06/04/15	06/04/15 18:28	150604L063
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				
1,1,1,2-Tetrachloroethane	ND	0.50	1.00				
1,1,1-Trichloroethane	ND	0.50	1.00				
1,1,2,2-Tetrachloroethane	ND	0.50	1.00				
1,1,2-Trichloroethane	ND	0.50	1.00				
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1.00				
1,1-Dichloroethane	ND	0.50	1.00				
1,1-Dichloroethene	ND	0.50	1.00				
1,1-Dichloropropene	ND	0.50	1.00				
1,2,3-Trichlorobenzene	ND	0.50	1.00				
1,2,3-Trichloropropane	ND	1.0	1.00				
1,2,4-Trichlorobenzene	ND	0.50	1.00				
1,2,4-Trimethylbenzene	ND	0.50	1.00				
1,3,5-Trimethylbenzene	ND	0.50	1.00				
c-1,2-Dichloroethene	19	0.50	1.00				
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00				
1,2-Dibromoethane	ND	0.50	1.00				
1,2-Dichlorobenzene	ND	0.50	1.00				
1,2-Dichloroethane	ND	0.50	1.00				
1,2-Dichloropropane	ND	0.50	1.00				
t-1,2-Dichloroethene	ND	0.50	1.00				
c-1,3-Dichloropropene	ND	0.50	1.00				
1,3-Dichlorobenzene	ND	0.50	1.00				
1,3-Dichloropropane	ND	1.0	1.00				
t-1,3-Dichloropropene	ND	0.50	1.00				

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

Analytical Report

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

Date Received: 06/04/15
Work Order: 15-06-0327
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 79374/022735C

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,4-Dichlorobenzene	ND	0.50	1.00	
2,2-Dichloropropane	ND	1.0	1.00	
2-Chlorotoluene	ND	0.50	1.00	
4-Chlorotoluene	ND	0.50	1.00	
4-Methyl-2-Pentanone	ND	5.0	1.00	
Acetone	ND	10	1.00	
Bromobenzene	ND	0.50	1.00	
Bromochloromethane	ND	1.0	1.00	
Bromoform	ND	0.50	1.00	
Bromomethane	ND	1.0	1.00	
Carbon Disulfide	ND	1.0	1.00	
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	0.50	1.00	
Dibromochloromethane	ND	0.50	1.00	
Chloroethane	ND	0.50	1.00	
Chloroform	ND	0.50	1.00	
Chloromethane	ND	0.50	1.00	
Dibromomethane	ND	0.50	1.00	
Bromodichloromethane	ND	0.50	1.00	
Dichlorodifluoromethane	ND	1.0	1.00	
Hexachloro-1,3-Butadiene	ND	2.0	1.00	
Isopropylbenzene	ND	0.50	1.00	
2-Butanone	ND	5.0	1.00	
Methylene Chloride	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
Naphthalene	ND	1.0	1.00	
n-Butylbenzene	ND	0.50	1.00	
n-Propylbenzene	ND	0.50	1.00	
p-Isopropyltoluene	ND	0.50	1.00	
sec-Butylbenzene	ND	0.50	1.00	
Styrene	ND	0.50	1.00	
tert-Butylbenzene	ND	0.50	1.00	
Trichloroethene	9.3	0.50	1.00	
Trichlorofluoromethane	ND	0.50	1.00	
Vinyl Chloride	ND	0.50	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	100	68-120		
Dibromofluoromethane	97	80-127		

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: 06/04/15
 Work Order: 15-06-0327
 Preparation: EPA 5030C
 Method: EPA 8260B
 Units: ug/L

Project: ExxonMobil 79374/022735C

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<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,2-Dichloroethane-d4	105	80-128	
Toluene-d8	99	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW1	15-06-0327-2-C	06/02/15 10:00	Aqueous	GC/MS L	06/05/15	06/05/15 15:30	150605L064

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Tetrachloroethene	110	2.5	5.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	98	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	107	80-128	
Toluene-d8	99	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: 06/04/15
Work Order: 15-06-0327
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
MW2	15-06-0327-3-D	06/02/15 09:45	Aqueous	GC/MS L	06/04/15	06/04/15 18:57	150604L063

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	
1,1,1,2-Tetrachloroethane	ND	0.50	1.00	
1,1,1-Trichloroethane	ND	0.50	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	1.00	
1,1,2-Trichloroethane	ND	0.50	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1.00	
1,1-Dichloroethane	ND	0.50	1.00	
1,1-Dichloroethene	ND	0.50	1.00	
1,1-Dichloropropene	ND	0.50	1.00	
1,2,3-Trichlorobenzene	ND	0.50	1.00	
1,2,3-Trichloropropane	ND	1.0	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
1,2,4-Trimethylbenzene	ND	0.50	1.00	
1,3,5-Trimethylbenzene	ND	0.50	1.00	
c-1,2-Dichloroethene	8.4	0.50	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,2-Dichloropropane	ND	0.50	1.00	
t-1,2-Dichloroethene	ND	0.50	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	

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

Analytical Report

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

Date Received: 06/04/15
 Work Order: 15-06-0327
 Preparation: EPA 5030C
 Method: EPA 8260B
 Units: ug/L

Project: ExxonMobil 79374/022735C

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,4-Dichlorobenzene	ND	0.50	1.00	
2,2-Dichloropropane	ND	1.0	1.00	
2-Chlorotoluene	ND	0.50	1.00	
4-Chlorotoluene	ND	0.50	1.00	
4-Methyl-2-Pentanone	ND	5.0	1.00	
Acetone	ND	10	1.00	
Bromobenzene	ND	0.50	1.00	
Bromochloromethane	ND	1.0	1.00	
Bromoform	ND	0.50	1.00	
Bromomethane	ND	1.0	1.00	
Carbon Disulfide	ND	1.0	1.00	
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	0.50	1.00	
Dibromochloromethane	ND	0.50	1.00	
Chloroethane	ND	0.50	1.00	
Chloroform	ND	0.50	1.00	
Chloromethane	ND	0.50	1.00	
Dibromomethane	ND	0.50	1.00	
Bromodichloromethane	ND	0.50	1.00	
Dichlorodifluoromethane	ND	1.0	1.00	
Hexachloro-1,3-Butadiene	ND	2.0	1.00	
Isopropylbenzene	ND	0.50	1.00	
2-Butanone	ND	5.0	1.00	
Methylene Chloride	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
Naphthalene	ND	1.0	1.00	
n-Butylbenzene	ND	0.50	1.00	
n-Propylbenzene	ND	0.50	1.00	
p-Isopropyltoluene	ND	0.50	1.00	
sec-Butylbenzene	ND	0.50	1.00	
Styrene	ND	0.50	1.00	
tert-Butylbenzene	ND	0.50	1.00	
Trichloroethene	6.9	0.50	1.00	
Trichlorofluoromethane	ND	0.50	1.00	
Vinyl Chloride	ND	0.50	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	99	68-120		
Dibromofluoromethane	98	80-127		


 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: 06/04/15
Work Order: 15-06-0327
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 79374/022735C

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<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,2-Dichloroethane-d4	103	80-128	
Toluene-d8	101	80-120	

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW2	15-06-0327-3-C	06/02/15 09:45	Aqueous	GC/MS L	06/05/15	06/05/15 15:58	150605L064

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Tetrachloroethene	78	2.0	4.00	

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
1,4-Bromofluorobenzene	100	68-120	
Dibromofluoromethane	104	80-127	
1,2-Dichloroethane-d4	107	80-128	
Toluene-d8	100	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: 06/04/15
Work Order: 15-06-0327
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
MW3	15-06-0327-4-D	06/02/15 10:40	Aqueous	GC/MS L	06/04/15	06/04/15 19:25	150604L063
Parameter	Result	RL	DF	Qualifiers			
Benzene	290	20	40.0				
Toluene	110	20	40.0				
Ethylbenzene	850	20	40.0				
o-Xylene	25	20	40.0				
p/m-Xylene	120	20	40.0				
Xylenes (total)	140	20	1.00				
Methyl-t-Butyl Ether (MTBE)	ND	20	40.0				
Tert-Butyl Alcohol (TBA)	ND	200	40.0				
Diisopropyl Ether (DIPE)	ND	20	40.0				
Ethyl-t-Butyl Ether (ETBE)	ND	20	40.0				
Tert-Amyl-Methyl Ether (TAME)	ND	20	40.0				
1,1,1,2-Tetrachloroethane	ND	20	40.0				
1,1,1-Trichloroethane	ND	20	40.0				
1,1,2,2-Tetrachloroethane	ND	20	40.0				
1,1,2-Trichloroethane	ND	20	40.0				
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	20	40.0				
1,1-Dichloroethane	ND	20	40.0				
1,1-Dichloroethene	ND	20	40.0				
1,1-Dichloropropene	ND	20	40.0				
1,2,3-Trichlorobenzene	ND	20	40.0				
1,2,3-Trichloropropane	ND	40	40.0				
1,2,4-Trichlorobenzene	ND	20	40.0				
1,2,4-Trimethylbenzene	ND	20	40.0				
1,3,5-Trimethylbenzene	40	20	40.0				
c-1,2-Dichloroethene	ND	20	40.0				
1,2-Dibromo-3-Chloropropane	ND	200	40.0				
1,2-Dibromoethane	ND	20	40.0				
1,2-Dichlorobenzene	ND	20	40.0				
1,2-Dichloroethane	ND	20	40.0				
1,2-Dichloropropane	ND	20	40.0				
t-1,2-Dichloroethene	ND	20	40.0				
c-1,3-Dichloropropene	ND	20	40.0				
1,3-Dichlorobenzene	ND	20	40.0				
1,3-Dichloropropane	ND	40	40.0				
t-1,3-Dichloropropene	ND	20	40.0				

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: 06/04/15
 Work Order: 15-06-0327
 Preparation: EPA 5030C
 Method: EPA 8260B
 Units: ug/L

Project: ExxonMobil 79374/022735C

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,4-Dichlorobenzene	ND	20	40.0	
2,2-Dichloropropane	ND	40	40.0	
2-Chlorotoluene	ND	20	40.0	
4-Chlorotoluene	ND	20	40.0	
4-Methyl-2-Pentanone	ND	200	40.0	
Acetone	ND	400	40.0	
Bromobenzene	ND	20	40.0	
Bromochloromethane	ND	40	40.0	
Bromoform	ND	20	40.0	
Bromomethane	ND	40	40.0	
Carbon Disulfide	ND	40	40.0	
Carbon Tetrachloride	ND	20	40.0	
Chlorobenzene	ND	20	40.0	
Dibromochloromethane	ND	20	40.0	
Chloroethane	ND	20	40.0	
Chloroform	ND	20	40.0	
Chloromethane	ND	20	40.0	
Dibromomethane	ND	20	40.0	
Bromodichloromethane	ND	20	40.0	
Dichlorodifluoromethane	ND	40	40.0	
Hexachloro-1,3-Butadiene	ND	80	40.0	
Isopropylbenzene	90	20	40.0	
2-Butanone	ND	200	40.0	
Methylene Chloride	ND	40	40.0	
2-Hexanone	ND	400	40.0	
Naphthalene	240	40	40.0	
n-Butylbenzene	21	20	40.0	
n-Propylbenzene	130	20	40.0	
p-Isopropyltoluene	ND	20	40.0	
sec-Butylbenzene	ND	20	40.0	
Styrene	ND	20	40.0	
tert-Butylbenzene	ND	20	40.0	
Tetrachloroethene	ND	20	40.0	
Trichloroethene	ND	20	40.0	
Trichlorofluoromethane	ND	20	40.0	
Vinyl Chloride	ND	20	40.0	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	100	68-120		

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

Analytical Report

Cardno ERI	Date Received:	06/04/15
601 North McDowell Blvd.	Work Order:	15-06-0327
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: ExxonMobil 79374/022735C		Page 9 of 33

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	105	80-128	
Toluene-d8	100	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: 06/04/15
 Work Order: 15-06-0327
 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
MW3A	15-06-0327-5-A	06/02/15 10:16	Aqueous	GC/MS L	06/05/15	06/05/15 13:35	150605L064
Parameter		Result	RL		DF	Qualifiers	
Benzene		14	0.50		1.00		
Toluene		0.95	0.50		1.00		
Ethylbenzene		6.7	0.50		1.00		
o-Xylene		ND	0.50		1.00		
p/m-Xylene		1.8	0.50		1.00		
Xylenes (total)		1.8	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		
1,1,1,2-Tetrachloroethane		ND	0.50		1.00		
1,1,1-Trichloroethane		ND	0.50		1.00		
1,1,2,2-Tetrachloroethane		ND	0.50		1.00		
1,1,2-Trichloroethane		ND	0.50		1.00		
1,1,2-Trichloro-1,2,2-Trifluoroethane		ND	0.50		1.00		
1,1-Dichloroethane		ND	0.50		1.00		
1,1-Dichloroethene		ND	0.50		1.00		
1,1-Dichloropropene		ND	0.50		1.00		
1,2,3-Trichlorobenzene		ND	0.50		1.00		
1,2,3-Trichloropropane		ND	1.0		1.00		
1,2,4-Trichlorobenzene		ND	0.50		1.00		
1,2,4-Trimethylbenzene		2.5	0.50		1.00		
1,3,5-Trimethylbenzene		0.61	0.50		1.00		
c-1,2-Dichloroethene		ND	0.50		1.00		
1,2-Dibromo-3-Chloropropane		ND	5.0		1.00		
1,2-Dibromoethane		ND	0.50		1.00		
1,2-Dichlorobenzene		ND	0.50		1.00		
1,2-Dichloroethane		ND	0.50		1.00		
1,2-Dichloropropane		ND	0.50		1.00		
t-1,2-Dichloroethene		ND	0.50		1.00		
c-1,3-Dichloropropene		ND	0.50		1.00		
1,3-Dichlorobenzene		ND	0.50		1.00		
1,3-Dichloropropane		ND	1.0		1.00		
t-1,3-Dichloropropene		ND	0.50		1.00		


 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: 06/04/15
Work Order: 15-06-0327
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 79374/022735C

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,4-Dichlorobenzene	ND	0.50	1.00	
2,2-Dichloropropane	ND	1.0	1.00	
2-Chlorotoluene	ND	0.50	1.00	
4-Chlorotoluene	ND	0.50	1.00	
4-Methyl-2-Pentanone	ND	5.0	1.00	
Acetone	ND	10	1.00	
Bromobenzene	ND	0.50	1.00	
Bromochloromethane	ND	1.0	1.00	
Bromoform	ND	0.50	1.00	
Bromomethane	ND	1.0	1.00	
Carbon Disulfide	ND	1.0	1.00	
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	0.50	1.00	
Dibromochloromethane	ND	0.50	1.00	
Chloroethane	ND	0.50	1.00	
Chloroform	ND	0.50	1.00	
Chloromethane	ND	0.50	1.00	
Dibromomethane	ND	0.50	1.00	
Bromodichloromethane	ND	0.50	1.00	
Dichlorodifluoromethane	ND	1.0	1.00	
Hexachloro-1,3-Butadiene	ND	2.0	1.00	
Isopropylbenzene	2.4	0.50	1.00	
2-Butanone	ND	5.0	1.00	
Methylene Chloride	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
Naphthalene	1.4	1.0	1.00	
n-Butylbenzene	1.1	0.50	1.00	
n-Propylbenzene	3.3	0.50	1.00	
p-Isopropyltoluene	ND	0.50	1.00	
sec-Butylbenzene	2.5	0.50	1.00	
Styrene	ND	0.50	1.00	
tert-Butylbenzene	0.89	0.50	1.00	
Tetrachloroethene	ND	0.50	1.00	
Trichloroethene	ND	0.50	1.00	
Trichlorofluoromethane	ND	0.50	1.00	
Vinyl Chloride	ND	0.50	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	103	68-120		

Return to Contents 

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

Analytical Report

Cardno ERI	Date Received:	06/04/15
601 North McDowell Blvd.	Work Order:	15-06-0327
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: ExxonMobil 79374/022735C		Page 12 of 33

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	98	80-128	
Toluene-d8	98	80-120	

Analytical Report

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

Date Received: 06/04/15
Work Order: 15-06-0327
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
MW4	15-06-0327-6-D	06/02/15 11:30	Aqueous	GC/MS L	06/04/15	06/04/15 20:22	150604L063

Parameter	Result	RL	DF	Qualifiers
Benzene	490	10	20.0	
Toluene	36	10	20.0	
Ethylbenzene	280	10	20.0	
o-Xylene	14	10	20.0	
p/m-Xylene	150	10	20.0	
Xylenes (total)	170	10	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	10	20.0	
Tert-Butyl Alcohol (TBA)	ND	100	20.0	
Diisopropyl Ether (DIPE)	ND	10	20.0	
Ethyl-t-Butyl Ether (ETBE)	ND	10	20.0	
Tert-Amyl-Methyl Ether (TAME)	ND	10	20.0	
1,1,1,2-Tetrachloroethane	ND	10	20.0	
1,1,1-Trichloroethane	ND	10	20.0	
1,1,2,2-Tetrachloroethane	ND	10	20.0	
1,1,2-Trichloroethane	ND	10	20.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	10	20.0	
1,1-Dichloroethane	ND	10	20.0	
1,1-Dichloroethene	ND	10	20.0	
1,1-Dichloropropene	ND	10	20.0	
1,2,3-Trichlorobenzene	ND	10	20.0	
1,2,3-Trichloropropane	ND	20	20.0	
1,2,4-Trichlorobenzene	ND	10	20.0	
1,2,4-Trimethylbenzene	320	10	20.0	
1,3,5-Trimethylbenzene	130	10	20.0	
c-1,2-Dichloroethene	ND	10	20.0	
1,2-Dibromo-3-Chloropropane	ND	100	20.0	
1,2-Dibromoethane	ND	10	20.0	
1,2-Dichlorobenzene	ND	10	20.0	
1,2-Dichloroethane	ND	10	20.0	
1,2-Dichloropropane	ND	10	20.0	
t-1,2-Dichloroethene	ND	10	20.0	
c-1,3-Dichloropropene	ND	10	20.0	
1,3-Dichlorobenzene	ND	10	20.0	
1,3-Dichloropropane	ND	20	20.0	
t-1,3-Dichloropropene	ND	10	20.0	

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: 06/04/15
Work Order: 15-06-0327
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 79374/022735C

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,4-Dichlorobenzene	ND	10	20.0	
2,2-Dichloropropane	ND	20	20.0	
2-Chlorotoluene	ND	10	20.0	
4-Chlorotoluene	ND	10	20.0	
4-Methyl-2-Pentanone	ND	100	20.0	
Acetone	ND	200	20.0	
Bromobenzene	ND	10	20.0	
Bromochloromethane	ND	20	20.0	
Bromoform	ND	10	20.0	
Bromomethane	ND	20	20.0	
Carbon Disulfide	ND	20	20.0	
Carbon Tetrachloride	ND	10	20.0	
Chlorobenzene	ND	10	20.0	
Dibromochloromethane	ND	10	20.0	
Chloroethane	ND	10	20.0	
Chloroform	ND	10	20.0	
Chloromethane	ND	10	20.0	
Dibromomethane	ND	10	20.0	
Bromodichloromethane	ND	10	20.0	
Dichlorodifluoromethane	ND	20	20.0	
Hexachloro-1,3-Butadiene	ND	40	20.0	
Isopropylbenzene	70	10	20.0	
2-Butanone	ND	100	20.0	
Methylene Chloride	ND	20	20.0	
2-Hexanone	ND	200	20.0	
Naphthalene	170	20	20.0	
n-Butylbenzene	83	10	20.0	
n-Propylbenzene	170	10	20.0	
p-Isopropyltoluene	ND	10	20.0	
sec-Butylbenzene	27	10	20.0	
Styrene	ND	10	20.0	
tert-Butylbenzene	10	10	20.0	
Tetrachloroethene	ND	10	20.0	
Trichloroethene	ND	10	20.0	
Trichlorofluoromethane	ND	10	20.0	
Vinyl Chloride	ND	10	20.0	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	103	68-120		

Return to Contents 

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

Analytical Report

Cardno ERI	Date Received:	06/04/15
601 North McDowell Blvd.	Work Order:	15-06-0327
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: ExxonMobil 79374/022735C		Page 15 of 33

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	103	80-127	
1,2-Dichloroethane-d4	105	80-128	
Toluene-d8	100	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: 06/04/15
Work Order: 15-06-0327
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
MW5	15-06-0327-7-D	06/02/15 11:15	Aqueous	GC/MS L	06/04/15	06/04/15 20:51	150604L063

Parameter	Result	RL	DF	Qualifiers
Benzene	340	20	40.0	
Toluene	ND	20	40.0	
Ethylbenzene	880	20	40.0	
o-Xylene	ND	20	40.0	
p/m-Xylene	430	20	40.0	
Xylenes (total)	430	20	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	20	40.0	
Tert-Butyl Alcohol (TBA)	ND	200	40.0	
Diisopropyl Ether (DIPE)	ND	20	40.0	
Ethyl-t-Butyl Ether (ETBE)	ND	20	40.0	
Tert-Amyl-Methyl Ether (TAME)	ND	20	40.0	
1,1,1,2-Tetrachloroethane	ND	20	40.0	
1,1,1-Trichloroethane	ND	20	40.0	
1,1,2,2-Tetrachloroethane	ND	20	40.0	
1,1,2-Trichloroethane	ND	20	40.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	20	40.0	
1,1-Dichloroethane	ND	20	40.0	
1,1-Dichloroethene	ND	20	40.0	
1,1-Dichloropropene	ND	20	40.0	
1,2,3-Trichlorobenzene	ND	20	40.0	
1,2,3-Trichloropropane	ND	40	40.0	
1,2,4-Trichlorobenzene	ND	20	40.0	
1,2,4-Trimethylbenzene	820	20	40.0	
1,3,5-Trimethylbenzene	150	20	40.0	
c-1,2-Dichloroethene	ND	20	40.0	
1,2-Dibromo-3-Chloropropane	ND	200	40.0	
1,2-Dibromoethane	ND	20	40.0	
1,2-Dichlorobenzene	ND	20	40.0	
1,2-Dichloroethane	ND	20	40.0	
1,2-Dichloropropane	ND	20	40.0	
t-1,2-Dichloroethene	ND	20	40.0	
c-1,3-Dichloropropene	ND	20	40.0	
1,3-Dichlorobenzene	ND	20	40.0	
1,3-Dichloropropane	ND	40	40.0	
t-1,3-Dichloropropene	ND	20	40.0	

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

Analytical Report

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

Date Received: 06/04/15
Work Order: 15-06-0327
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 79374/022735C

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,4-Dichlorobenzene	ND	20	40.0	
2,2-Dichloropropane	ND	40	40.0	
2-Chlorotoluene	ND	20	40.0	
4-Chlorotoluene	ND	20	40.0	
4-Methyl-2-Pentanone	ND	200	40.0	
Acetone	ND	400	40.0	
Bromobenzene	ND	20	40.0	
Bromochloromethane	ND	40	40.0	
Bromoform	ND	20	40.0	
Bromomethane	ND	40	40.0	
Carbon Disulfide	ND	40	40.0	
Carbon Tetrachloride	ND	20	40.0	
Chlorobenzene	ND	20	40.0	
Dibromochloromethane	ND	20	40.0	
Chloroethane	ND	20	40.0	
Chloroform	ND	20	40.0	
Chloromethane	ND	20	40.0	
Dibromomethane	ND	20	40.0	
Bromodichloromethane	ND	20	40.0	
Dichlorodifluoromethane	ND	40	40.0	
Hexachloro-1,3-Butadiene	ND	80	40.0	
Isopropylbenzene	120	20	40.0	
2-Butanone	ND	200	40.0	
Methylene Chloride	ND	40	40.0	
2-Hexanone	ND	400	40.0	
Naphthalene	210	40	40.0	
n-Butylbenzene	110	20	40.0	
n-Propylbenzene	390	20	40.0	
p-Isopropyltoluene	ND	20	40.0	
sec-Butylbenzene	42	20	40.0	
Styrene	ND	20	40.0	
tert-Butylbenzene	ND	20	40.0	
Tetrachloroethene	ND	20	40.0	
Trichloroethene	ND	20	40.0	
Trichlorofluoromethane	ND	20	40.0	
Vinyl Chloride	ND	20	40.0	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	99	68-120		

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

Analytical Report

Cardno ERI	Date Received:	06/04/15
601 North McDowell Blvd.	Work Order:	15-06-0327
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: ExxonMobil 79374/022735C		Page 18 of 33

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	101	80-127	
1,2-Dichloroethane-d4	105	80-128	
Toluene-d8	99	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: 06/04/15
Work Order: 15-06-0327
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
MW6	15-06-0327-8-D	06/02/15 10:55	Aqueous	GC/MS L	06/04/15	06/04/15 21:19	150604L063

Parameter	Result	RL	DF	Qualifiers
Benzene	0.81	0.50	1.00	
Toluene	ND	0.50	1.00	
Ethylbenzene	2.0	0.50	1.00	
o-Xylene	ND	0.50	1.00	
p/m-Xylene	1.1	0.50	1.00	
Xylenes (total)	1.1	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	
1,1,1,2-Tetrachloroethane	ND	0.50	1.00	
1,1,1-Trichloroethane	ND	0.50	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	1.00	
1,1,2-Trichloroethane	ND	0.50	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1.00	
1,1-Dichloroethane	ND	0.50	1.00	
1,1-Dichloroethene	ND	0.50	1.00	
1,1-Dichloropropene	ND	0.50	1.00	
1,2,3-Trichlorobenzene	ND	0.50	1.00	
1,2,3-Trichloropropane	ND	1.0	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
1,2,4-Trimethylbenzene	ND	0.50	1.00	
1,3,5-Trimethylbenzene	ND	0.50	1.00	
c-1,2-Dichloroethene	ND	0.50	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,2-Dichloropropane	ND	0.50	1.00	
t-1,2-Dichloroethene	ND	0.50	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	

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

Analytical Report

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

Date Received: 06/04/15
Work Order: 15-06-0327
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 79374/022735C

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,4-Dichlorobenzene	ND	0.50	1.00	
2,2-Dichloropropane	ND	1.0	1.00	
2-Chlorotoluene	ND	0.50	1.00	
4-Chlorotoluene	ND	0.50	1.00	
4-Methyl-2-Pentanone	ND	5.0	1.00	
Acetone	ND	10	1.00	
Bromobenzene	ND	0.50	1.00	
Bromochloromethane	ND	1.0	1.00	
Bromoform	ND	0.50	1.00	
Bromomethane	ND	1.0	1.00	
Carbon Disulfide	ND	1.0	1.00	
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	0.50	1.00	
Dibromochloromethane	ND	0.50	1.00	
Chloroethane	ND	0.50	1.00	
Chloroform	ND	0.50	1.00	
Chloromethane	ND	0.50	1.00	
Dibromomethane	ND	0.50	1.00	
Bromodichloromethane	ND	0.50	1.00	
Dichlorodifluoromethane	ND	1.0	1.00	
Hexachloro-1,3-Butadiene	ND	2.0	1.00	
Isopropylbenzene	4.6	0.50	1.00	
2-Butanone	ND	5.0	1.00	
Methylene Chloride	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
Naphthalene	3.3	1.0	1.00	
n-Butylbenzene	3.2	0.50	1.00	
n-Propylbenzene	11	0.50	1.00	
p-Isopropyltoluene	ND	0.50	1.00	
sec-Butylbenzene	2.9	0.50	1.00	
Styrene	ND	0.50	1.00	
tert-Butylbenzene	ND	0.50	1.00	
Tetrachloroethene	ND	0.50	1.00	
Trichloroethene	ND	0.50	1.00	
Trichlorofluoromethane	ND	0.50	1.00	
Vinyl Chloride	ND	0.50	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	109	68-120		

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

Analytical Report

Cardno ERI	Date Received:	06/04/15
601 North McDowell Blvd.	Work Order:	15-06-0327
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: ExxonMobil 79374/022735C		Page 21 of 33

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	100	80-127	
1,2-Dichloroethane-d4	106	80-128	
Toluene-d8	101	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: 06/04/15
 Work Order: 15-06-0327
 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
MW7	15-06-0327-9-D	06/02/15 11:55	Aqueous	GC/MS L	06/04/15	06/04/15 21:48	150604L063

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
Benzene	110	5.0	10.0	
Toluene	13	5.0	10.0	
Ethylbenzene	39	5.0	10.0	
o-Xylene	ND	5.0	10.0	
p/m-Xylene	16	5.0	10.0	
Xylenes (total)	16	5.0	1.00	
Methyl-t-Butyl Ether (MTBE)	ND	5.0	10.0	
Tert-Butyl Alcohol (TBA)	ND	50	10.0	
Diisopropyl Ether (DIPE)	19	5.0	10.0	
Ethyl-t-Butyl Ether (ETBE)	ND	5.0	10.0	
Tert-Amyl-Methyl Ether (TAME)	ND	5.0	10.0	
1,1,1,2-Tetrachloroethane	ND	5.0	10.0	
1,1,1-Trichloroethane	ND	5.0	10.0	
1,1,2,2-Tetrachloroethane	ND	5.0	10.0	
1,1,2-Trichloroethane	ND	5.0	10.0	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	5.0	10.0	
1,1-Dichloroethane	ND	5.0	10.0	
1,1-Dichloroethene	ND	5.0	10.0	
1,1-Dichloropropene	ND	5.0	10.0	
1,2,3-Trichlorobenzene	ND	5.0	10.0	
1,2,3-Trichloropropane	ND	10	10.0	
1,2,4-Trichlorobenzene	ND	5.0	10.0	
1,2,4-Trimethylbenzene	ND	5.0	10.0	
1,3,5-Trimethylbenzene	ND	5.0	10.0	
c-1,2-Dichloroethene	ND	5.0	10.0	
1,2-Dibromo-3-Chloropropane	ND	50	10.0	
1,2-Dibromoethane	ND	5.0	10.0	
1,2-Dichlorobenzene	ND	5.0	10.0	
1,2-Dichloroethane	ND	5.0	10.0	
1,2-Dichloropropane	ND	5.0	10.0	
t-1,2-Dichloroethene	ND	5.0	10.0	
c-1,3-Dichloropropene	ND	5.0	10.0	
1,3-Dichlorobenzene	ND	5.0	10.0	
1,3-Dichloropropane	ND	10	10.0	
t-1,3-Dichloropropene	ND	5.0	10.0	


 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: 06/04/15
Work Order: 15-06-0327
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 79374/022735C

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,4-Dichlorobenzene	ND	5.0	10.0	
2,2-Dichloropropane	ND	10	10.0	
2-Chlorotoluene	ND	5.0	10.0	
4-Chlorotoluene	ND	5.0	10.0	
4-Methyl-2-Pentanone	ND	50	10.0	
Acetone	ND	100	10.0	
Bromobenzene	ND	5.0	10.0	
Bromochloromethane	ND	10	10.0	
Bromoform	ND	5.0	10.0	
Bromomethane	ND	10	10.0	
Carbon Disulfide	ND	10	10.0	
Carbon Tetrachloride	ND	5.0	10.0	
Chlorobenzene	ND	5.0	10.0	
Dibromochloromethane	ND	5.0	10.0	
Chloroethane	ND	5.0	10.0	
Chloroform	ND	5.0	10.0	
Chloromethane	ND	5.0	10.0	
Dibromomethane	ND	5.0	10.0	
Bromodichloromethane	ND	5.0	10.0	
Dichlorodifluoromethane	ND	10	10.0	
Hexachloro-1,3-Butadiene	ND	20	10.0	
Isopropylbenzene	110	5.0	10.0	
2-Butanone	ND	50	10.0	
Methylene Chloride	ND	10	10.0	
2-Hexanone	ND	100	10.0	
Naphthalene	150	10	10.0	
n-Butylbenzene	45	5.0	10.0	
n-Propylbenzene	270	5.0	10.0	
p-Isopropyltoluene	ND	5.0	10.0	
sec-Butylbenzene	24	5.0	10.0	
Styrene	ND	5.0	10.0	
tert-Butylbenzene	ND	5.0	10.0	
Tetrachloroethene	ND	5.0	10.0	
Trichloroethene	ND	5.0	10.0	
Trichlorofluoromethane	ND	5.0	10.0	
Vinyl Chloride	ND	5.0	10.0	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	101	68-120		

Return to Contents

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

Analytical Report

Cardno ERI	Date Received:	06/04/15
601 North McDowell Blvd.	Work Order:	15-06-0327
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: ExxonMobil 79374/022735C		Page 24 of 33

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	101	80-128	
Toluene-d8	99	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: 06/04/15
Work Order: 15-06-0327
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
MW8	15-06-0327-10-D	06/02/15 12:35	Aqueous	GC/MS L	06/04/15	06/04/15 22:16	150604L063

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	
1,1,1,2-Tetrachloroethane	ND	0.50	1.00	
1,1,1-Trichloroethane	ND	0.50	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	1.00	
1,1,2-Trichloroethane	ND	0.50	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1.00	
1,1-Dichloroethane	ND	0.50	1.00	
1,1-Dichloroethene	ND	0.50	1.00	
1,1-Dichloropropene	ND	0.50	1.00	
1,2,3-Trichlorobenzene	ND	0.50	1.00	
1,2,3-Trichloropropane	ND	1.0	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
1,2,4-Trimethylbenzene	ND	0.50	1.00	
1,3,5-Trimethylbenzene	ND	0.50	1.00	
c-1,2-Dichloroethene	ND	0.50	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,2-Dichloropropane	ND	0.50	1.00	
t-1,2-Dichloroethene	ND	0.50	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	

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

Analytical Report

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

Date Received: 06/04/15
Work Order: 15-06-0327
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 79374/022735C

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,4-Dichlorobenzene	ND	0.50	1.00	
2,2-Dichloropropane	ND	1.0	1.00	
2-Chlorotoluene	ND	0.50	1.00	
4-Chlorotoluene	ND	0.50	1.00	
4-Methyl-2-Pentanone	ND	5.0	1.00	
Acetone	ND	10	1.00	
Bromobenzene	ND	0.50	1.00	
Bromochloromethane	ND	1.0	1.00	
Bromoform	ND	0.50	1.00	
Bromomethane	ND	1.0	1.00	
Carbon Disulfide	ND	1.0	1.00	
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	0.50	1.00	
Dibromochloromethane	ND	0.50	1.00	
Chloroethane	ND	0.50	1.00	
Chloroform	23	0.50	1.00	
Chloromethane	ND	0.50	1.00	
Dibromomethane	ND	0.50	1.00	
Bromodichloromethane	0.85	0.50	1.00	
Dichlorodifluoromethane	ND	1.0	1.00	
Hexachloro-1,3-Butadiene	ND	2.0	1.00	
Isopropylbenzene	ND	0.50	1.00	
2-Butanone	ND	5.0	1.00	
Methylene Chloride	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
Naphthalene	ND	1.0	1.00	
n-Butylbenzene	ND	0.50	1.00	
n-Propylbenzene	ND	0.50	1.00	
p-Isopropyltoluene	ND	0.50	1.00	
sec-Butylbenzene	ND	0.50	1.00	
Styrene	ND	0.50	1.00	
tert-Butylbenzene	ND	0.50	1.00	
Tetrachloroethene	ND	0.50	1.00	
Trichloroethene	ND	0.50	1.00	
Trichlorofluoromethane	ND	0.50	1.00	
Vinyl Chloride	ND	0.50	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	98	68-120		

Return to Contents

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

Analytical Report

Cardno ERI	Date Received:	06/04/15
601 North McDowell Blvd.	Work Order:	15-06-0327
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: ExxonMobil 79374/022735C		Page 27 of 33

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	100	80-127	
1,2-Dichloroethane-d4	100	80-128	
Toluene-d8	100	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: 06/04/15
 Work Order: 15-06-0327
 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	099-12-880-1363	N/A	Aqueous	GC/MS L	06/04/15	06/04/15 11:59	150604L063

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
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	
1,1,1,2-Tetrachloroethane	ND	0.50	1.00	
1,1,1-Trichloroethane	ND	0.50	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	1.00	
1,1,2-Trichloroethane	ND	0.50	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1.00	
1,1-Dichloroethane	ND	0.50	1.00	
1,1-Dichloroethene	ND	0.50	1.00	
1,1-Dichloropropene	ND	0.50	1.00	
1,2,3-Trichlorobenzene	ND	0.50	1.00	
1,2,3-Trichloropropane	ND	1.0	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
1,2,4-Trimethylbenzene	ND	0.50	1.00	
1,3,5-Trimethylbenzene	ND	0.50	1.00	
c-1,2-Dichloroethene	ND	0.50	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,2-Dichloropropane	ND	0.50	1.00	
t-1,2-Dichloroethene	ND	0.50	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	

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

Analytical Report

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

Date Received: 06/04/15
Work Order: 15-06-0327
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 79374/022735C

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,4-Dichlorobenzene	ND	0.50	1.00	
2,2-Dichloropropane	ND	1.0	1.00	
2-Chlorotoluene	ND	0.50	1.00	
4-Chlorotoluene	ND	0.50	1.00	
4-Methyl-2-Pentanone	ND	5.0	1.00	
Acetone	ND	10	1.00	
Bromobenzene	ND	0.50	1.00	
Bromochloromethane	ND	1.0	1.00	
Bromoform	ND	0.50	1.00	
Bromomethane	ND	1.0	1.00	
Carbon Disulfide	ND	1.0	1.00	
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	0.50	1.00	
Dibromochloromethane	ND	0.50	1.00	
Chloroethane	ND	0.50	1.00	
Chloroform	ND	0.50	1.00	
Chloromethane	ND	0.50	1.00	
Dibromomethane	ND	0.50	1.00	
Bromodichloromethane	ND	0.50	1.00	
Dichlorodifluoromethane	ND	1.0	1.00	
Hexachloro-1,3-Butadiene	ND	2.0	1.00	
Isopropylbenzene	ND	0.50	1.00	
2-Butanone	ND	5.0	1.00	
Methylene Chloride	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
Naphthalene	ND	1.0	1.00	
n-Butylbenzene	ND	0.50	1.00	
n-Propylbenzene	ND	0.50	1.00	
p-Isopropyltoluene	ND	0.50	1.00	
sec-Butylbenzene	ND	0.50	1.00	
Styrene	ND	0.50	1.00	
tert-Butylbenzene	ND	0.50	1.00	
Tetrachloroethene	ND	0.50	1.00	
Trichloroethene	ND	0.50	1.00	
Trichlorofluoromethane	ND	0.50	1.00	
Vinyl Chloride	ND	0.50	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	96	68-120		

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: 06/04/15
 Work Order: 15-06-0327
 Preparation: EPA 5030C
 Method: EPA 8260B
 Units: ug/L

Project: ExxonMobil 79374/022735C

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<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	98	80-127	
1,2-Dichloroethane-d4	96	80-128	
Toluene-d8	99	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: 06/04/15
 Work Order: 15-06-0327
 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	099-12-880-1364	N/A	Aqueous	GC/MS L	06/05/15	06/05/15 12:48	150605L064

<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
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	
1,1,1,2-Tetrachloroethane	ND	0.50	1.00	
1,1,1-Trichloroethane	ND	0.50	1.00	
1,1,2,2-Tetrachloroethane	ND	0.50	1.00	
1,1,2-Trichloroethane	ND	0.50	1.00	
1,1,2-Trichloro-1,2,2-Trifluoroethane	ND	0.50	1.00	
1,1-Dichloroethane	ND	0.50	1.00	
1,1-Dichloroethene	ND	0.50	1.00	
1,1-Dichloropropene	ND	0.50	1.00	
1,2,3-Trichlorobenzene	ND	0.50	1.00	
1,2,3-Trichloropropane	ND	1.0	1.00	
1,2,4-Trichlorobenzene	ND	0.50	1.00	
1,2,4-Trimethylbenzene	ND	0.50	1.00	
1,3,5-Trimethylbenzene	ND	0.50	1.00	
c-1,2-Dichloroethene	ND	0.50	1.00	
1,2-Dibromo-3-Chloropropane	ND	5.0	1.00	
1,2-Dibromoethane	ND	0.50	1.00	
1,2-Dichlorobenzene	ND	0.50	1.00	
1,2-Dichloroethane	ND	0.50	1.00	
1,2-Dichloropropane	ND	0.50	1.00	
t-1,2-Dichloroethene	ND	0.50	1.00	
c-1,3-Dichloropropene	ND	0.50	1.00	
1,3-Dichlorobenzene	ND	0.50	1.00	
1,3-Dichloropropane	ND	1.0	1.00	
t-1,3-Dichloropropene	ND	0.50	1.00	

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: 06/04/15
Work Order: 15-06-0327
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 79374/022735C

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<u>Parameter</u>	<u>Result</u>	<u>RL</u>	<u>DF</u>	<u>Qualifiers</u>
1,4-Dichlorobenzene	ND	0.50	1.00	
2,2-Dichloropropane	ND	1.0	1.00	
2-Chlorotoluene	ND	0.50	1.00	
4-Chlorotoluene	ND	0.50	1.00	
4-Methyl-2-Pentanone	ND	5.0	1.00	
Acetone	ND	10	1.00	
Bromobenzene	ND	0.50	1.00	
Bromochloromethane	ND	1.0	1.00	
Bromoform	ND	0.50	1.00	
Bromomethane	ND	1.0	1.00	
Carbon Disulfide	ND	1.0	1.00	
Carbon Tetrachloride	ND	0.50	1.00	
Chlorobenzene	ND	0.50	1.00	
Dibromochloromethane	ND	0.50	1.00	
Chloroethane	ND	0.50	1.00	
Chloroform	ND	0.50	1.00	
Chloromethane	ND	0.50	1.00	
Dibromomethane	ND	0.50	1.00	
Bromodichloromethane	ND	0.50	1.00	
Dichlorodifluoromethane	ND	1.0	1.00	
Hexachloro-1,3-Butadiene	ND	2.0	1.00	
Isopropylbenzene	ND	0.50	1.00	
2-Butanone	ND	5.0	1.00	
Methylene Chloride	ND	1.0	1.00	
2-Hexanone	ND	10	1.00	
Naphthalene	ND	1.0	1.00	
n-Butylbenzene	ND	0.50	1.00	
n-Propylbenzene	ND	0.50	1.00	
p-Isopropyltoluene	ND	0.50	1.00	
sec-Butylbenzene	ND	0.50	1.00	
Styrene	ND	0.50	1.00	
tert-Butylbenzene	ND	0.50	1.00	
Tetrachloroethene	ND	0.50	1.00	
Trichloroethene	ND	0.50	1.00	
Trichlorofluoromethane	ND	0.50	1.00	
Vinyl Chloride	ND	0.50	1.00	
<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>	
1,4-Bromofluorobenzene	97	68-120		

Return to Contents ↑

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

Analytical Report

Cardno ERI	Date Received:	06/04/15
601 North McDowell Blvd.	Work Order:	15-06-0327
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: ExxonMobil 79374/022735C		Page 33 of 33

<u>Surrogate</u>	<u>Rec. (%)</u>	<u>Control Limits</u>	<u>Qualifiers</u>
Dibromofluoromethane	103	80-127	
1,2-Dichloroethane-d4	106	80-128	
Toluene-d8	100	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: 06/04/15
Work Order: 15-06-0327
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
15-06-0328-1	Sample	Aqueous	GC 1	06/11/15	06/13/15 05:14	150611S042
15-06-0328-1	Matrix Spike	Aqueous	GC 1	06/11/15	06/13/15 05:50	150611S042
15-06-0328-1	Matrix Spike Duplicate	Aqueous	GC 1	06/11/15	06/13/15 06:26	150611S042

<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 Gasoline	257.0	2000	2227	99	2271	101	68-122	2	0-18	

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: 06/04/15
Work Order: 15-06-0327
Preparation: EPA 5030C
Method: EPA 8260B

Project: ExxonMobil 79374/022735C

Page 2 of 3

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
15-06-0238-2	Sample	Aqueous	GC/MS L	06/04/15	06/04/15 13:02	150604S001
15-06-0238-2	Matrix Spike	Aqueous	GC/MS L	06/04/15	06/04/15 13:40	150604S001
15-06-0238-2	Matrix Spike Duplicate	Aqueous	GC/MS L	06/04/15	06/04/15 14:09	150604S001

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	ND	10.00	10.53	105	10.38	104	75-125	1	0-20	
Toluene	3.941	10.00	14.42	105	14.08	101	75-125	2	0-20	
Ethylbenzene	2.008	10.00	12.82	108	12.18	102	75-125	5	0-20	
o-Xylene	ND	10.00	9.926	99	9.588	96	75-127	3	0-20	
p/m-Xylene	0.5407	20.00	21.28	104	20.65	101	75-125	3	0-20	
Methyl-t-Butyl Ether (MTBE)	5.091	10.00	14.35	93	15.28	102	71-131	6	0-20	
Tert-Butyl Alcohol (TBA)	22.73	50.00	67.09	89	59.25	73	20-180	12	0-40	
Diisopropyl Ether (DIPE)	ND	10.00	10.07	101	10.25	103	64-136	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	10.77	108	11.51	115	73-133	7	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	10.35	104	11.31	113	75-125	9	0-20	
1,1-Dichloroethene	ND	10.00	9.582	96	9.510	95	66-126	1	0-20	
1,2-Dibromoethane	ND	10.00	9.401	94	9.856	99	75-126	5	0-20	
1,2-Dichlorobenzene	ND	10.00	9.655	97	9.446	94	75-125	2	0-20	
1,2-Dichloroethane	ND	10.00	9.416	94	9.840	98	75-127	4	0-20	
Carbon Tetrachloride	ND	10.00	9.608	96	9.648	96	69-135	0	0-20	
Chlorobenzene	ND	10.00	9.683	97	9.562	96	75-125	1	0-20	
Trichloroethene	ND	10.00	9.949	99	9.760	98	75-125	2	0-20	
Vinyl Chloride	ND	10.00	11.37	114	11.03	110	52-142	3	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Quality Control - Spike/Spike Duplicate

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

Date Received: 06/04/15
Work Order: 15-06-0327
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
MW3A	Sample	Aqueous	GC/MS L	06/05/15	06/05/15 13:35	150605S006
MW3A	Matrix Spike	Aqueous	GC/MS L	06/05/15	06/05/15 14:32	150605S006
MW3A	Matrix Spike Duplicate	Aqueous	GC/MS L	06/05/15	06/05/15 15:01	150605S006

Parameter	Sample Conc.	Spike Added	MS Conc.	MS %Rec.	MSD Conc.	MSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
Benzene	14.00	10.00	23.61	96	22.50	85	75-125	5	0-20	
Toluene	0.9529	10.00	11.22	103	10.80	98	75-125	4	0-20	
Ethylbenzene	6.714	10.00	16.47	98	15.57	89	75-125	6	0-20	
o-Xylene	ND	10.00	9.981	100	9.595	96	75-127	4	0-20	
p/m-Xylene	1.831	20.00	22.06	101	21.05	96	75-125	5	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	9.884	99	9.820	98	71-131	1	0-20	
Tert-Butyl Alcohol (TBA)	ND	50.00	62.03	124	57.84	116	20-180	7	0-40	
Diisopropyl Ether (DIPE)	ND	10.00	11.24	112	11.02	110	64-136	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	9.469	95	9.360	94	73-133	1	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	8.222	82	8.262	83	75-125	0	0-20	
1,1-Dichloroethene	ND	10.00	10.25	102	9.831	98	66-126	4	0-20	
1,2-Dibromoethane	ND	10.00	10.40	104	10.24	102	75-126	2	0-20	
1,2-Dichlorobenzene	ND	10.00	9.710	97	9.684	97	75-125	0	0-20	
1,2-Dichloroethane	ND	10.00	10.41	104	10.29	103	75-127	1	0-20	
Carbon Tetrachloride	ND	10.00	9.548	95	9.154	92	69-135	4	0-20	
Chlorobenzene	ND	10.00	9.843	98	9.600	96	75-125	3	0-20	
Trichloroethene	ND	10.00	9.881	99	9.569	96	75-125	3	0-20	
Vinyl Chloride	ND	10.00	11.97	120	11.89	119	52-142	1	0-20	

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Quality Control - LCS/LCSD

Cardno ERI	Date Received:	06/04/15
601 North McDowell Blvd.	Work Order:	15-06-0327
Petaluma, CA 94954-2312	Preparation:	EPA 3510C
	Method:	EPA 8015B (M)
Project: ExxonMobil 79374/022735C		Page 1 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-15-278-936	LCS	Aqueous	GC 45	06/05/15	06/06/15 08:51	150605B13
099-15-278-936	LCSD	Aqueous	GC 45	06/05/15	06/06/15 09:10	150605B13

Parameter	Spike Added	LCS Conc.	LCS %Rec.	LCSD Conc.	LCSD %Rec.	%Rec. CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	2000	1748	87	1697	85	75-117	3	0-13	



 Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Quality Control - LCS/LCSD

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

Date Received: 06/04/15
Work Order: 15-06-0327
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: ExxonMobil 79374/022735C

Page 2 of 5

Quality Control Sample ID	Type	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-15-304-1059	LCS	Aqueous	GC 45	06/05/15	06/06/15 08:13	150605B12			
099-15-304-1059	LCSD	Aqueous	GC 45	06/05/15	06/06/15 08:32	150605B12			
<u>Parameter</u>	<u>Spike Added</u>	<u>LCS Conc.</u>	<u>LCS %Rec.</u>	<u>LCSD Conc.</u>	<u>LCSD %Rec.</u>	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
TPH as Diesel	2000	2106	105	2114	106	75-117	0	0-13	



Quality Control - LCS

Cardno ERI	Date Received:	06/04/15
601 North McDowell Blvd.	Work Order:	15-06-0327
Petaluma, CA 94954-2312	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
099-12-436-10158	LCS	Aqueous	GC 1	06/11/15	06/13/15 04:03	150611L064
<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	2032	102	78-120	

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RPD: Relative Percent Difference. CL: Control Limits

Quality Control - LCS

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

Date Received: 06/04/15
 Work Order: 15-06-0327
 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	
099-12-880-1363	LCS	Aqueous	GC/MS L	06/04/15	06/04/15 11:21	150604L063	
<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	9.571	96	80-120	73-127	
Toluene		10.00	9.634	96	80-120	73-127	
Ethylbenzene		10.00	10.20	102	80-120	73-127	
o-Xylene		10.00	9.456	95	80-120	73-127	
p/m-Xylene		20.00	20.21	101	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)		10.00	8.258	83	75-123	67-131	
Tert-Butyl Alcohol (TBA)		50.00	49.43	99	80-120	73-127	
Diisopropyl Ether (DIPE)		10.00	9.182	92	73-121	65-129	
Ethyl-t-Butyl Ether (ETBE)		10.00	8.636	86	76-124	68-132	
Tert-Amyl-Methyl Ether (TAME)		10.00	8.104	81	80-120	73-127	
1,1-Dichloroethene		10.00	8.949	89	77-120	70-127	
1,2-Dibromoethane		10.00	9.139	91	80-120	73-127	
1,2-Dichlorobenzene		10.00	9.371	94	80-120	73-127	
1,2-Dichloroethane		10.00	9.006	90	80-122	73-129	
Carbon Tetrachloride		10.00	9.392	94	80-129	72-137	
Chlorobenzene		10.00	9.478	95	80-120	73-127	
Trichloroethene		10.00	9.683	97	80-120	73-127	
Vinyl Chloride		10.00	10.18	102	63-135	51-147	

Total number of LCS compounds: 18

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents

RPD: Relative Percent Difference. CL: Control Limits

Quality Control - LCS

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

Date Received: 06/04/15
Work Order: 15-06-0327
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	
099-12-880-1364	LCS	Aqueous	GC/MS L	06/05/15	06/05/15 11:06	150605L064	
<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	9.518	95	80-120	73-127	
Toluene		10.00	9.604	96	80-120	73-127	
Ethylbenzene		10.00	9.955	100	80-120	73-127	
o-Xylene		10.00	9.381	94	80-120	73-127	
p/m-Xylene		20.00	19.71	99	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)		10.00	8.637	86	75-123	67-131	
Tert-Butyl Alcohol (TBA)		50.00	51.31	103	80-120	73-127	
Diisopropyl Ether (DIPE)		10.00	9.818	98	73-121	65-129	
Ethyl-t-Butyl Ether (ETBE)		10.00	9.041	90	76-124	68-132	
Tert-Amyl-Methyl Ether (TAME)		10.00	8.004	80	80-120	73-127	
1,1-Dichloroethene		10.00	9.242	92	77-120	70-127	
1,2-Dibromoethane		10.00	9.036	90	80-120	73-127	
1,2-Dichlorobenzene		10.00	9.442	94	80-120	73-127	
1,2-Dichloroethane		10.00	9.005	90	80-122	73-129	
Carbon Tetrachloride		10.00	8.963	90	80-129	72-137	
Chlorobenzene		10.00	9.339	93	80-120	73-127	
Trichloroethene		10.00	9.476	95	80-120	73-127	
Vinyl Chloride		10.00	10.46	105	63-135	51-147	

Total number of LCS compounds: 18

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Return to Contents ↑

RPD: Relative Percent Difference. CL: Control Limits

Sample Analysis Summary Report

Work Order: 15-06-0327

Page 1 of 1

<u>Method</u>	<u>Extraction</u>	<u>Chemist ID</u>	<u>Instrument</u>	<u>Analytical Location</u>
EPA 8015B (M)	EPA 3510C	421	GC 45	1
EPA 8015B (M)	EPA 3510C	682	GC 45	1
EPA 8015B (M)	EPA 3510C	949	GC 45	1
EPA 8015B (M)	EPA 5030C	902	GC 1	2
EPA 8260B	EPA 5030C	316	GC/MS L	2


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Location 1: 7440 Lincoln Way, Garden Grove, CA 92841

Location 2: 7445 Lampson Avenue, Garden Grove, CA 92841

Qualifiers	Definition
AZ	Surrogate compound recovery was out of control due to matrix interference. The associated method blank surrogate spike compound was in control and, therefore, the sample data was reported without further clarification.
B	Analyte was present in the associated method blank.
BA	The MS/MSD RPD was out of control due to 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.
CI	See case narrative.
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.



6/3/2015

0327



800-322-5555 www.gso.com

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

Tracking #: 528149022

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:
ERI
Delivery Instructions:

D92845A



Signature Type: REQUIRED

38508046

Print Date: 6/3/2015 4:59 PM

Package 1 of 2

COD: \$0.00
Weight: 0 lb(s)
Reference:
ERI
Delivery Instructions:

D92845A



Signature Type: REQUIRED

38508047

Print Date: 6/3/2015 4:59 PM

Package 2 of 2

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Calscience

WORK ORDER NUMBER: 15-06-0327

SAMPLE RECEIPT CHECKLIST

COOLER 1 OF 2

CLIENT: Carduo EPI

DATE: 06/04/2015

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

Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 1-9 °C (w/ CF): 1-6 °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

[] Sample(s) received at ambient temperature; placed on ice for transport by courier

Ambient Temperature: [] Air [] Filter

Checked by: 826

CUSTODY SEAL:

Cooler [x] Present and Intact [] Present but Not Intact [] Not Present [] N/A

Checked by: 836

Sample(s) [] Present and Intact [] Present but Not Intact [x] Not Present [] N/A

Checked by: 965

SAMPLE CONDITION:

Table with columns: 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, etc.

CONTAINER TYPE:

(Trip Blank Lot Number: _____)

Aqueous: [] VOA [x] VOAh [] VOAna2 [] 100PJ [] 100PJna2 [] 125AGB [] 125AGBh [] 125AGBp [] 125PB [] 125PBzanna [] 250AGB [] 250CGB [] 250CGBs [] 250PB [] 250PBn [] 500AGB [x] 500AGJ [] 500AGJs [] 500PB [] 1AGB [] 1AGBna2 [] 1AGBs [] 1PB [] 1PBna [] [] [] [] []

Solid: [] 4ozCGJ [] 8ozCGJ [] 16ozCGJ [] Sleeve () [] EnCores® () [] TerraCores® () []

Air: [] Tedlar™ [] Canister [] Sorbent Tube [] PUF [] Other Matrix (): [] []

Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag

Preservative: b = buffered, f = filtered, h = HCl, n = HNO3, na = NaOH, na2 = Na2S2O3, p = H3PO4, Labeled/Checked by: 681

s = H2SO4, u = ultra-pure, zanna = Zn(CH3CO2)2 + NaOH

Reviewed by: 965

SAMPLE RECEIPT CHECKLIST

COOLER 2 OF 2

CLIENT: Carduo ERM

DATE: 06 / 04 / 2015

TEMPERATURE: (Criteria: 0.0°C – 6.0°C, not frozen except sediment/tissue)
 Thermometer ID: SC2 (CF:-0.3°C); Temperature (w/o CF): 1.7 °C (w/ CF): 1.4 °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
 Sample(s) received at ambient temperature; placed on ice for transport by courier
 Ambient Temperature: Air Filter Checked by: 826

CUSTODY SEAL:
 Cooler Present and Intact Present but Not Intact Not Present N/A Checked by: 836
 Sample(s) Present and Intact Present but Not Intact Not Present N/A Checked by: 865

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"/> Sampling date <input type="checkbox"/> Sampling time <input type="checkbox"/> Matrix <input type="checkbox"/> Number of containers			
<input type="checkbox"/> No analysis requested <input type="checkbox"/> Not relinquished <input type="checkbox"/> No relinquished date <input type="checkbox"/> No relinquished time			
Sampler's name indicated on COC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container label(s) consistent with COC	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sample container(s) intact and in good condition	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Proper containers for analyses requested	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Sufficient volume/mass for analyses requested	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Samples received within holding time	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Aqueous samples for certain analyses received within 15-minute holding time			
<input type="checkbox"/> pH <input type="checkbox"/> Residual Chlorine <input type="checkbox"/> Dissolved Sulfide <input type="checkbox"/> Dissolved Oxygen	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Proper preservation chemical(s) noted on COC and/or sample container	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Unpreserved aqueous sample(s) received for certain analyses			
<input type="checkbox"/> Volatile Organics <input type="checkbox"/> Total Metals <input type="checkbox"/> Dissolved Metals			
Container(s) for certain analysis free of headspace	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
<input checked="" type="checkbox"/> Volatile Organics <input type="checkbox"/> Dissolved Gases (RSK-175) <input type="checkbox"/> Dissolved Oxygen (SM 4500)			
<input type="checkbox"/> Carbon Dioxide (SM 4500) <input type="checkbox"/> Ferrous Iron (SM 3500) <input type="checkbox"/> Hydrogen Sulfide (Hach)			
Tedlar™ bag(s) free of condensation	<input type="checkbox"/>	<input type="checkbox"/>	<input checked="" type="checkbox"/>

CONTAINER TYPE: (Trip Blank Lot Number: _____)
 Aqueous: VOA VOAh VOAna₂ 100PJ 100PJna₂ 125AGB 125AGBh 125AGBp 125PB
 125PBz_{na} 250AGB 250CGB 250CGBs 250PB 250PBn 500AGB 500AGJ 500AGJs
 500PB 1AGB 1AGBna₂ 1AGBs 1PB 1PBna _____ _____ _____
 Solid: 4ozCGJ 8ozCGJ 16ozCGJ Sleeve (_____) EnCores® (_____) TerraCores® (_____) _____
 Air: Tedlar™ Canister Sorbent Tube PUF _____ Other Matrix (_____) _____
 Container: A = Amber, B = Bottle, C = Clear, E = Envelope, G = Glass, J = Jar, P = Plastic, and Z = Ziploc/Resealable Bag
 Preservative: b = buffered, f = filtered, h = HCl, n = HNO₃, na = NaOH, na₂ = Na₂S₂O₃, p = H₃PO₄, Labeled/Checked by: 965
 s = H₂SO₄, u = ultra-pure, z_{na} = Zn(CH₃CO₂)₂ + NaOH Reviewed by: 681

APPENDIX D
WASTE DISPOSAL DOCUMENTATION

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. 22352-150607	2. Page 1 of 1
3. Generator's Name and Mailing address ExxonMobil Environmental Services/Manpower Contractor 3700 W. 190 th St. NTO #1106, Torrance, CA 90504		816 Ave. Albany, CA. EM 793741		
4. Generator's Phone : (310) 212 2938				
5. Transporter 1 Company Name <i>CARONO</i>	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	14. Unit Wt./Vol.
a. <i>NON-HAZARDOUS PURGE WATER</i>		No. Type 1 Trailer	75	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 <i>On behalf of ExxonMobil Asset R. Magdonov</i>		Signature <i>[Signature]</i>	Date Month Day Year <i>06 02 15</i>	
17. Transporter 1 Acknowledgement of Receipt of Materials		Date		
Printed/Typed Name <i>Sean R. Johnson</i>		Signature <i>[Signature]</i>	Date Month Day Year <i>06 22 15</i>	
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 <i>MICHAEL WHITEHEAD</i>		Signature <i>[Signature]</i>	Date Month Day Year <i>6 22 15</i>	

NON-HAZARDOUS WASTE

GENERATOR

TRANSPORTER

FACILITY