ExxonMobil Environmental Services Company 4096 Piedmont Avenue #194 Oakland, California 94611 510 547 8196 Telephone 510 547 8706 Facsimile Jennifer C. Sedlachek Project Manager



RECEIVED

By Alameda County Environmental Health 8:52 am, Oct 01, 2015

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

RE: Former Mobil RAS #99105/6301 San Pablo Avenue, Oakland, California.

Dear Ms. Detterman:

September 29, 2015

Attached for your review and comment is a copy of the letter report entitled *Groundwater and Soil Vapor Sampling Reporting, Third Quarter 2015*, dated September 29, 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 and Soil Vapor Sampling Reporting, Third Quarter 2015*, dated September 29, 2015

cc: w/ attachment Mr. Leroy Griffin, Oakland Fire Department Messrs. On Dan and Nathan Lam

> w/o attachment Mr. Greg Gurss, Cardno



September 29, 2015 Cardno 2783C.Q153

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

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 Contractor:
 #997036

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SUBJECTGroundwater and Soil Vapor Monitoring Report, Third Quarter 2015Former Mobil Service Station 991056301 San Pablo Avenue, Oakland, California

INTRODUCTION

At the request of ExxonMobil Environmental Services (EMES), on behalf of ExxonMobil Oil Corporation, Cardno performed third quarter 2015 groundwater and soil vapor monitoring and sampling activities at the subject site. Relevant plates, graphs, tables, and appendices are included at the end of this report. Currently, the site operates as an oil change facility.

GROUNDWATER MONITORING AND SAMPLING SUMMARY

Gauging and sampling date:		08/14/15
Wells gauged and sampled:		MW2 through MW8
Presence of NAPL:		Sheen in well MW5
Groundwater flow direction:		Southwest
Laboratory:		Eurofins Calscience, Inc., Garden Grove, California
Analyses performed:	EPA Method 8015B EPA Method 8260B	TPHd, TPHg BTEX, MTBE, TAME, TBA, DIPE, EDB, 1,2-DCA, ETBE
Waste disposal:	69.5 gallons purge ar California, on 09/18/15	nd decon water delivered to Instrat, Inc. of Rio Vista,
SOIL VAPOR MONITORING A	ND SAMPLING SUMM	IARY

Screening and sampling date:08/14/15Wells monitored:VW1 through VW5

September 29, 2015 Cardno 2783C.Q153 Former Mobil Service Station 99105, Oakland, California

RESULTS

Dissolved-phase concentrations show overall stable or decreasing trends, with the exception of BTEX concentrations in wells MW7 and MW8, which have only been sampled since August 2014. Dissolved-phase concentrations are limited in extent and adequately delineated:

- Toward the north by former well MW1.
- Toward the northwest by well MW2.
- Toward the west by borings B6 through B8 and AB11.
- Toward the east by well MW6.

PID measurements from the soil vapor samples have not shown a significant decrease since the feasibility study performed in 2014 (Cardno ERI, 2014).

CONCLUSIONS AND RECOMMENDATIONS

Soil vapor monitoring wells have been monitored for one year following the DPE feasibility study conducted in 2014 (Cardno ERI, 2014). It does not appear that the DPE event caused a significant reduction in the soil vapor concentrations. Further review of the DPE feasibility data and the subsequent soil vapor data indicate that additional remediation by DPE is not likely to reduce the reported soil vapor concentrations. The vapor flow rate extracted from the subsurface (approximately 25 scfm) does not appear to be adequate to remove the residual concentrations from the underlying soil.

Cardno recommends evaluating the appropriate method(s) for assessing the risk to workers and customers at the on-site building related to the soil vapor concentrations. The site is not an active fueling facility, but is not a typical commercial building as vehicles are serviced in bays with large open doors and the workers deal with various automotive fluids on a daily basis as well as emissions from idling vehicles related to smog testing operations.

In Cardno's opinion, the soil vapor concentrations are the primary obstacle to closure and a site-specific risk evaluation is warranted given the current land use.

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 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.

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Please contact Mr. Scott Perkins, Cardno's project manager for this site, at <u>scott.perkins@cardno.com</u> or at (707) 766-2000 with any questions regarding this report.

Sincerely,

Christine M. Capwell Senior Technical Editor for Cardno 707 766 2000 Email: <u>christine.capwell@cardno.com</u>

David R. Daniels P.G. 8737 for Cardno 707 766 2000 Email: david.daniels@cardno.com



Enclosures:

References Acronym List

- Plate 1 Site Vicinity Map
- Plate 2 Select Analytical Results
- Plate 3 Groundwater Elevation Map
- Table 1A
 Cumulative Groundwater Monitoring and Sampling Data
- Table 1BAdditional Cumulative Groundwater Monitoring and Sampling Data
- Table 2 Well Construction Details
- Table 3 Cumulative PID Readings, Vapor Wells
- Appendix A Groundwater Sampling Protocol
- Appendix B Field Data Sheets
- Appendix C Laboratory Analytical Report
- Appendix D Waste Disposal Documentation
- cc: Ms. Karel Detterman, Alameda County Health Care Services Agency, 1131 Harbor Bay Parkway, 2nd Floor, Alameda, California, 94502

Mr. Leroy Griffin, Oakland Fire Department, 250 Frank H. Ogawa, Suite 3341, Oakland, California, 94612

Messrs. On Dan and Nathan Lam, 200 El Dorado Terrace, San Francisco, California, 94112

September 29, 2015 Cardno 2783C.Q153 Former Mobil Service Station 99105, Oakland, California

REFERENCES

Cardno ERI. September 10, 2014. Well Installation and Feasibility Study, Former Mobil Service Station 99105, 6301 San Pablo Avenue, Oakland, California.

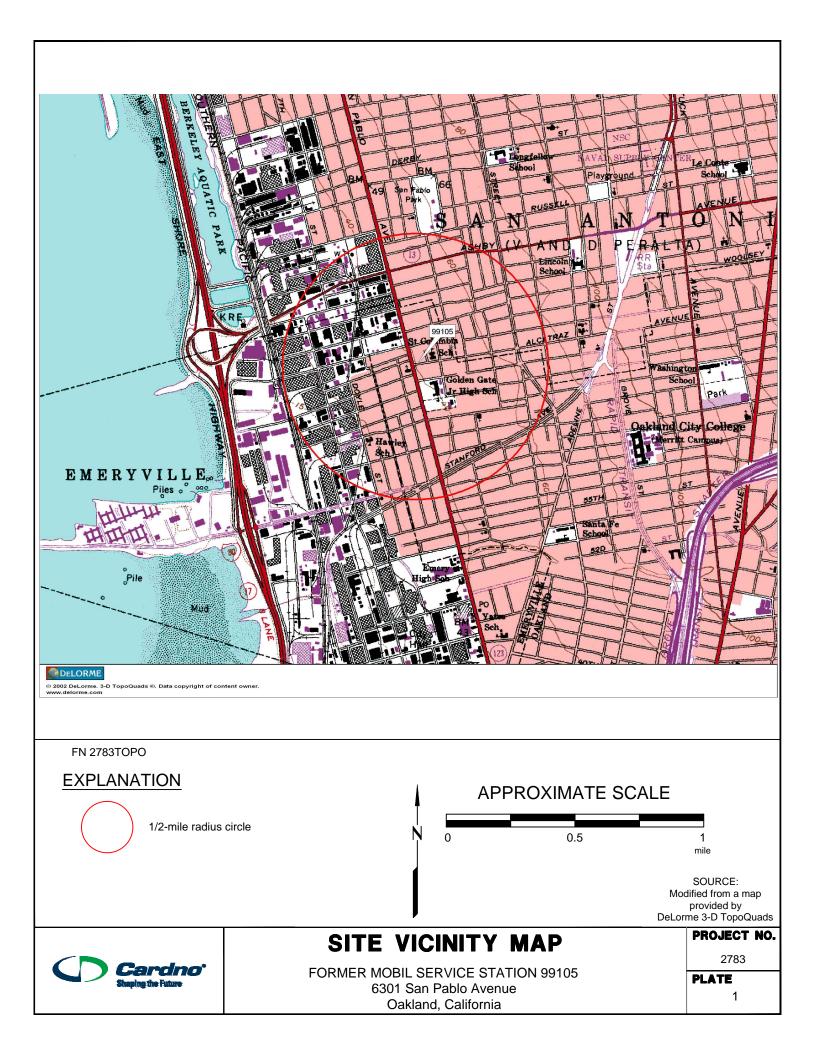
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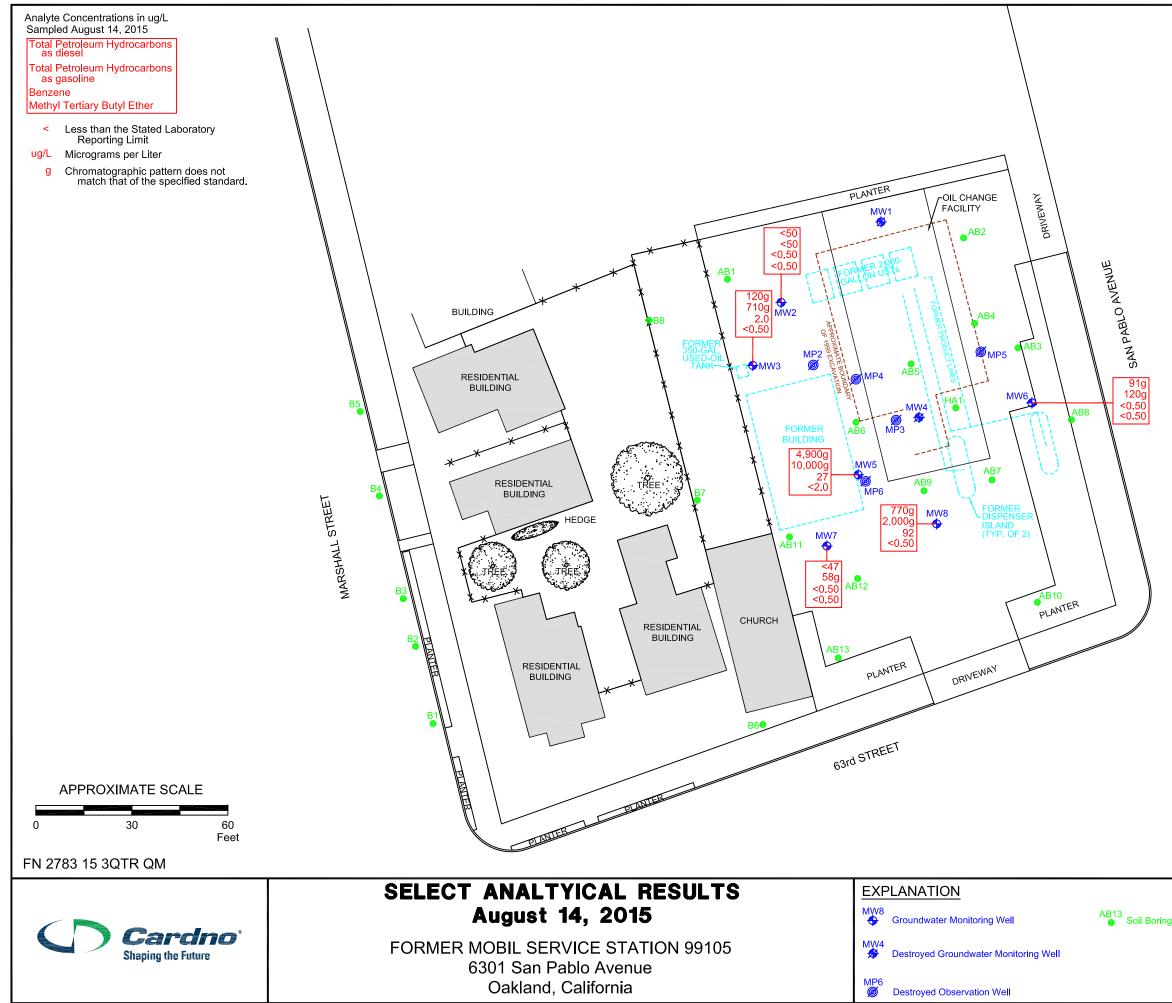
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ACRONYM LIST

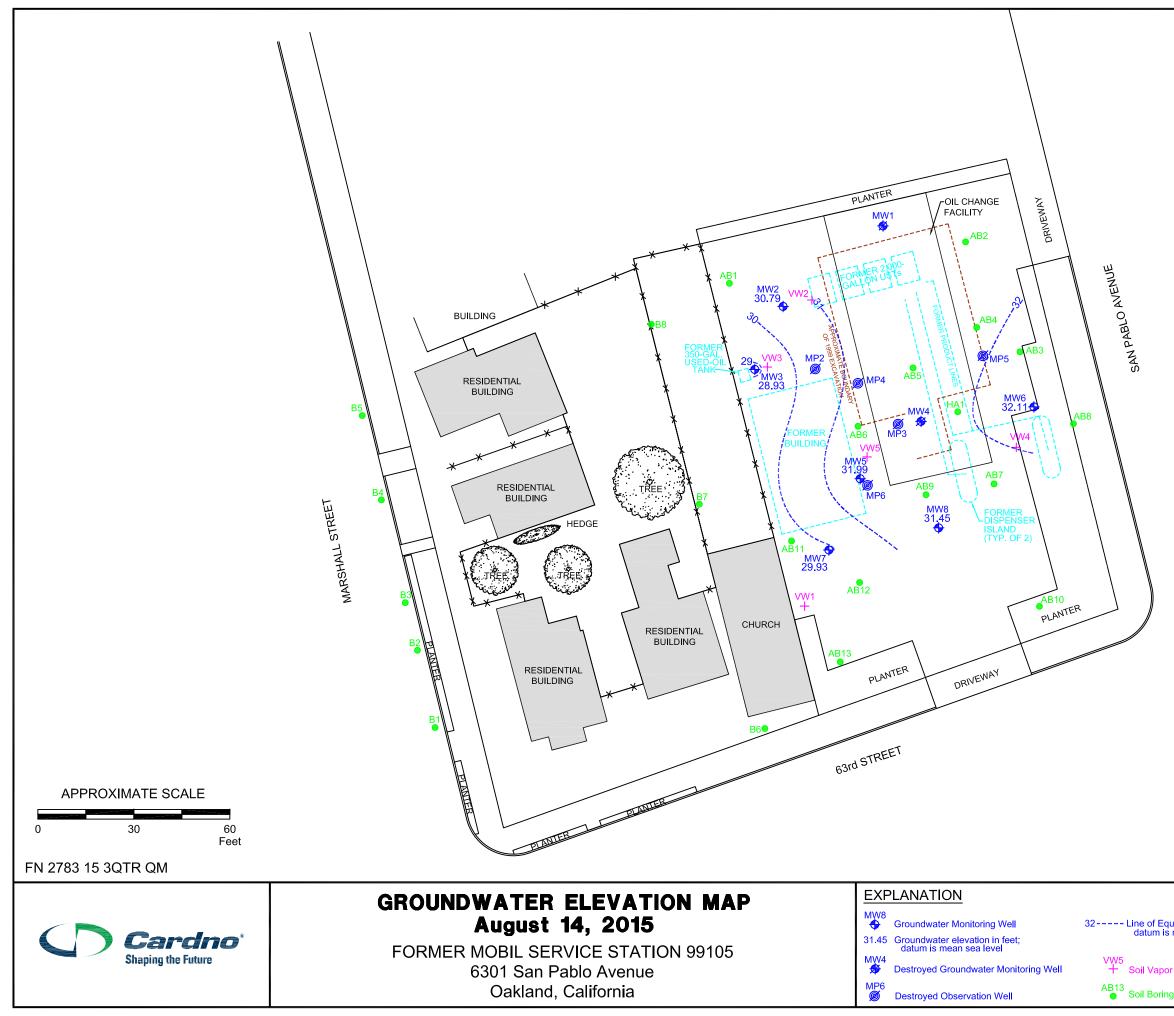
μg/L μs 1,2-DCA acfm AS bgs BTEX CEQA cfm COC CPT DIPE DO DOT DPE DTW EDB	Micrograms per liter Microsiemens 1,2-dichloroethane Actual cubic feet per minute Air sparge Below ground surface Benzene, toluene, ethylbenzene, and total xylenes California Environmental Quality Act Cubic feet per minute Chain of Custody Cone Penetration (Penetrometer) Test Di-isopropyl ether Dissolved oxygen Department of Transportation Dual-phase extraction Depth to water 1,2-dibromoethane
EPA	Environmental Protection Agency
ESL ETBE	Environmental screening level
FID	Ethyl tertiary butyl ether Flame-ionization detector
fpm	Feet per minute
GAC	Granular activated carbon
gpd	Gallons per day
gpm	Gallons per minute
GWPTS	Groundwater pump and treat system
HVOC	Halogenated volatile organic compound
. <u>J</u> .	Estimated value between MDL and PQL (RL)
LEL	Lower explosive limit
LPC	Liquid-phase carbon
	Liquid-ring pump
LUFT	Leaking underground fuel tank
LUST	Leaking underground storage tank Maximum contaminant level
MCL MDL	Method detection limit
mg/kg	Milligrams per kilogram
mg/L	Milligrams per liter
mg/m ³	Milligrams per cubic meter
MPE	Multi-phase extraction
MRL	Method reporting limit
msl	Mean sea level
MTBE	Methyl tertiary butyl ether
MTCA	Model Toxics Control Act
NAI	Natural attenuation indicators
NAPL	Non-aqueous phase liquid

NEPA	National Environmental Policy Act
NGVD	National Geodetic Vertical Datum
NPDES	National Pollutant Discharge Elimination System
O&M	Operations and Maintenance
ORP	Oxidation-reduction potential
OSHA	Occupational Safety and Health Administration
OVA	Organic vapor analyzer
P&ID	Process & Instrumentation Diagram
PAH	Polycyclic aromatic hydrocarbon
PCB	Polychlorinated biphenyl
PCE	Tetrachloroethene or perchloroethylene
PID	Photo-ionization detector
PLC	Programmable logic control
POTW	Publicly owned treatment works
ppmv	Parts per million by volume
PQL	Practical quantitation limit
psi	Pounds per square inch
PVC	Polyvinyl chloride
QA/QC	Quality assurance/quality control
RBSL	Risk-based screening levels
RCRA	Resource Conservation and Recovery Act
RL	Reporting limit
scfm	Standard cubic feet per minute
SSTL	Site-specific target level
STLC	Soluble threshold limit concentration
SVE	Soil vapor extraction
SVOC	Semivolatile organic compound
TAME	Tertiary amyl methyl ether
TBA	Tertiary butyl alcohol
TCE	Trichloroethene
TOC	Top of well casing elevation; datum is msl
TOG	Total oil and grease
TPHd	Total petroleum hydrocarbons as diesel
TPHg	Total petroleum hydrocarbons as gasoline
TPHmo	Total petroleum hydrocarbons as motor oil
TPHs	Total petroleum hydrocarbons as stoddard solvent
TRPH	Total recoverable petroleum hydrocarbons
UCL	Upper confidence level
USCS	Unified Soil Classification System
USGS	United States Geologic Survey
UST	Underground storage tank
VCP	Voluntary Cleanup Program
VOC	Volatile organic compound
VPC	Vapor-phase carbon





	PROJECT NO.
ng	2783
	PLATE 2



	PROJECT NO.
Equal Groundwater Elevation; is mean sea level	2783
oor Sampling Well	PLATE
ing	3

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									MTBE	MTBE				
Well	Sampling	TOC	Elev.	DTW	GW Elev.	NAPL	TPHd	TPHg	8020/8021	8240/8260	В	Т	E	Х
ID	Date	(fe	eet)	(feet)	(feet)	(feet)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L
vironmental	Screening Leve	els, Ground	dwater is	Current or	Potential Drin	king Water		ber 2013)						
ble F-1a	-						100	100	5	5	1	40	30	20
MW1	03/14/96	20	2.79	4.50	28.29	No	450	610			0.75	0.54	1.5	59
MW1	05/21/96		2.79 2.79	4.50 5.64	26.29	No	450 ND	ND			0.75 ND	0.54 ND	ND	ND
											ND		ND	
MW1	08/13/96		2.79	9.76	23.03	No	ND	ND				ND		NE
MW1	11/08/96		2.79	10.24	22.55	No	ND	ND	ND		ND	0.92	ND	2.1
MW1	01/31/97		2.79	3.83	28.96	No	ND	ND	2.6	ND	ND	0.85	ND	NE
MW1	04/22/97		2.79	9.14	23.65	No	ND	ND	ND		ND	ND	ND	NE
MW1	07/29/97		2.79	10.18	22.61	No	60e	ND	36		0.84	0.95	ND	1.6
MW1	10/09/97	a 32	2.79	10.46	22.33	No	56e	ND	ND		ND	ND	ND	NE
MW1	01/23/98	a 32	2.79	3.95	28.84	No	33	ND	ND		ND	ND	ND	NE
MW1	04/22/98	32	2.79	5.33	27.46	No	ND	ND	ND		ND	ND	ND	NE
MW1	07/21/98	32	2.79	9.17	23.62	No		ND	ND		ND	ND	ND	NE
MW1	10/20/98	32	2.79	10.41	22.38	No		ND	ND		ND	ND	ND	NE
MW1	01/27/99	32	2.79	5.51	27.28	No		ND	ND		ND	ND	ND	NE
MW1	Apr-99	Destro	oyed during	g construct	ion activities.									
MW2	03/14/96	20	2.80	4.51	28.29	No	250	560			2.0	0.96	4.2	11
MW2	05/21/96		2.80	4.51 5.65	26.29	No	250 560	730			2.0 5.1	1.4	4.3 6.7	5.9
MW2	08/13/96		2.80	10.14	22.66	No	380b	490			25	3.5	7.2	1:
MW2	11/08/96		2.80	10.70	22.10	No	160d	520	6.1		80	2.7	14	66
MW2	01/31/97		2.80	3.84	28.96	No	130b	74	ND		ND	ND	ND	NE
MW2	04/22/97		2.80	9.61	23.19	No	430	260	ND		2.7	ND	2.5	NE
MW2	07/29/97		2.80	10.53	22.27	No	150d	320	ND		28	1.2	10	NE
MW2	10/09/97	a 32	2.80	10.87	21.93	No	160b	460	2.6		43	2.8	2.0	2.6
MW2	01/23/98	a 32	2.80	3.75	29.05	No	54	ND	ND		ND	ND	ND	NE
MW2	04/22/98	32	2.80	5.36	27.44	No	540	180	ND		1.2	0.3	0.4	NE
MW2	07/21/98	32	2.80	9.55	23.25	No		80	ND		8.9	2.1	0.6	2.5
MW2	10/20/98	32	2.80	10.75	22.05	No		50	ND		0.8	0.7	ND	0.0
MW2	01/27/99	32	2.80	5.53	27.27	No		ND	ND		0.6	ND	ND	NE
MW2	07/27/99	32	2.80	6.20	26.60	No		ND	ND		ND	0.6	ND	NE
MW2	12/08/99	32	2.80	9.98	22.82	No		ND	ND		1.2	0.43	ND	N
MW2	10/25/00		9.34	11.30	28.04	No		<20	<0.30		2.0	0.59	0.46	1.3
MW2	01/15/01		9.34	9.41	29.93	No		<20	< 0.30		<0.20	0.46	<0.20	<0.0
MW2	04/10/01		9.34	6.16	33.18	No		23	<1.0		0.28	<0.20	<0.20	<0.6
MW2	07/24/01		9.34 9.34	10.70	28.64	No		<50	<0.30		<0.20	0.93	<0.20	0.8
MW2	11/27/01		9.34 9.34	10.70	28.04	No		<50 <50	<0.30 <0.30		<0.20 1.2	0.93	<0.20	<0.0
MW2	01/18/02		1.99	5.46	36.53	No		<50.0	1.40		< 0.50	<0.50	< 0.50	<0.5
MW2	04/10/02		1.99	6.48	35.51	No		<50.0	1.80		< 0.50	<0.50	< 0.50	<0.5
MW2	07/12/02		1.99	10.45	31.54	No		<50.0	<0.50		<0.50	<0.50	<0.50	<0.5
MW2	10/14/02		1.99	11.46	30.53	No		<50.0	<0.5		<0.5	4.1	0.6	4.(
MW2	01/20/03	41	1.99	5.39	36.60	No		<50.0	0.6		<0.50	<0.50	<0.50	<0.5
MW2	04/28/03	41	1.99	5.87	36.12	No		<50.0	<0.50		<0.50	<0.50	<0.50	<0.5

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Well	Sampling	TOC Elev.	DTW	GW Elev.	NAPL	TPHd	TPHg	MTBE 8020/8021	MTBE 8240/8260	В	т	E	х
ID	Date	(feet)	(feet)	(feet)	(feet)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Environmenta	Screening Level	s, Groundwater	is Current of	r Potential Drin	king Water	Source (Decem	nber 2013)						
Table F-1a						100	100	5	5	1	40	30	20
MW2	07/15/03	41.99	10.31	31.68	No		<50	<0.5		<0.5	<0.5	<0.5	<0.5
MW2	10/08/03	41.99	11.20	30.79	No		<50	<0.5		<0.5	<0.5	<0.5	<0.5
MW2	01/15/04	41.99	5.36	36.63	No		63.3	1.0		0.70	<0.5	<0.5	<0.5
MW2	Well not samp	led from 2004 to	2010.										
MW2	. 09/17/10	41.99	10.72	31.27	No	<50	<50		<0.50	<0.50	<0.50	<0.50	<0.50
MW2	12/15/10	42.24	Well resurve	eyed.									
MW2	09/14/11	42.24	10.02	32.22	No	110g	<50		<0.50	<0.50	<0.50	<0.50	<0.50
MW2	01/18/12	42.24	11.24	31.00	No		<50		<0.50	<0.50	<0.50	<0.50	<0.50
MW2	01/27/12	42.24	9.65	32.59	No	<50							
MW2	07/09/12	42.24	10.07	32.17	No	<50	<50		<0.50	<0.50	<0.50	<0.50	<0.50
MW2	01/25/13	42.24	5.62	36.62	No	<50	<50		<0.50	<0.50	<0.50	<0.50	<0.50
MW2	08/23/13	42.24	10.76	31.48	No	<50	<50		<0.50	<0.50	<0.50	<0.50	<0.50
MW2	01/10/14	42.24	11.42	30.82	No	<50	<50		<0.50	<0.50	<0.50	<0.50	<0.50
MW2	07/14/14	42.24	10.52	31.72	No	<49	<50		<0.50	<0.50	<0.50	<0.50	0.52
MW2	08/18/14	42.24	11.06	31.18	No								
MW2	11/06/14	42.24											
MW2	01/23/15	42.24	6.10	36.14	No	<50	62g		<0.50	<0.50	<0.50	<0.50	<0.50
MW2	06/26/15	42.24											
MW2	08/14/15	42.24	11.45	30.79	No	<50	<50		<0.50	<0.50	<0.50	<0.50	<0.50
MW3	03/14/96	32.80	9.55	23.25	No	1,200	4,200			220	30	140	520
MW3	05/21/96	32.80	10.16	22.64	No	2,800	8,500			710	110	440	1,700
MW3	08/13/96	32.80	11.18	21.62	No	2,300c	5,000			430	ND	200	360
MW3	11/08/96	32.80	11.51	21.29	No	2,900b	8,400	73	ND	890	82	790	1,700
MW3	01/31/97	32.80	7.90	24.90	No	7,500b	16,000	ND		660	85	960	1,800
MW3	04/22/97	32.80	10.64	22.16	No	2,700	8,000	200	ND	340	33	400	490
MW3	07/29/97	a 32.80	11.36	21.44	No	2,300b	9,800	ND		330	ND	530	530
MW3	10/09/97	a 32.80	11.52	21.28	No	2,600b	7,300	270	ND	300	ND	430	460
MW3	01/23/98	a 32.80	7.50	25.30	No	2,300	6,100	ND		190	23	330	320
MW3	04/22/98	32.80	6.81	25.99	No	2,600	4,900	ND	ND	140	12	250	230
MW3	07/21/98	32.80	10.65	22.15	No		7,400	74	ND	250	16	400	370
MW3	10/20/98	32.80	11.57	21.23	No		6,700	ND	ND	200	18	350	350
MW3	01/27/99	32.80	9.11	23.69	No		3,100	13		74	4	94	39
MW3	07/27/99	32.80	7.27	25.53	No		8,900	ND		170	21	360	440
MW3	12/08/99	32.80	10.63	22.17	No		4,800	ND		94	13	170	210
MW3	10/25/00	39.27	12.08	27.19	No		3,800	<50	<5	63	2.9	100	65
MW3	01/15/01	39.27	10.29	28.98	No		4,300	<5.0		76	9.5	47	76
MW3	04/10/01	39.27	10.11	29.16	No		2,700	<20		55	4.4	100	37
MW3	07/24/01	39.27	11.57	27.70	No		3,100	<1.0		110	6.9	110	81

Oakland, California (Page 3 of 6)

								MTBE	MTBE	_	_	_	
Well	Sampling	TOC Elev.	DTW	GW Elev.	NAPL	TPHd	TPHg	8020/8021	8240/8260	В	Т	E	Х
ID	Date	(feet)	(feet)	(feet)	(feet)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/l
	Screening Level				-	•		_	_				
ole F-1a						100	100	5	5	1	40	30	20
MW3	11/27/01	39.27	10.93	28.34	No		2,400	<0.30		47	8.9	25	35
MW3	01/18/02	41.71	9.47	32.24	No		1,130	13.6		15.3	2.30	42.0	24.
MW3	04/10/02	41.71	10.14	31.57	No		916	11.2		35.1	3.00	22.5	13.
MW3	07/12/02	41.71	11.34	30.37	No		2,330	15.4		60.5	2.90	39.8	50.
MW3	10/14/02	41.71	12.10	29.61	No		2,550	<0.5		36.9	3.8	20.3	48.
MW3	01/20/03	41.71	9.20	32.51	No		1,750	10.7		20.4	304.0	60.7	22.
MW3	04/28/03	41.71	9.37	32.34	No		2,730	11.2		10.0	2.7	42.7	20.
MW3	07/15/03	41.71	11.15	30.56	No		1,790	5.6		68.8	3.6	39.0	44.
MW3	10/08/03	41.71	11.89	29.82	No		1,320	7.1		35.1	4.0	23.6	31.
MW3	01/15/04	41.71	9.16	32.55	No		791	3.4		24.4	1.3	40.1	14.
MW3	Well not same	pled from 2004 to	o 2010.										
MW3	09/17/10	41.71	11.46	30.25	No	99	2,500		<0.50	2.6	0.31f	1.8	1.8
MW3	12/15/10	42.18	Well resurve	yed.									
MW3	09/14/11	42.18	11.37	30.81	No	270g	1,200		<0.50	18	0.95	1.7	1.:
MW3	01/18/12	42.18	12.11	30.07	No		910g		<0.50	0.89	<0.50	<0.50	0.8
MW3	01/27/12	42.18	10.18	32.00	No	1,000g							
MW3	07/09/12	42.18	11.15	31.03	No	420g	350g		<0.50	7.9	<0.50	<0.50	<0.
MW3	01/25/13	42.18	9.41	32.77	No	120g	390g		<0.50	2.8	<0.50	<0.50	<0.
MW3	08/23/13	42.18	11.67	30.51	No	310g	640		<0.50	1.1	<0.50	<0.50	<0.
MW3	01/10/14	42.18	12.13	30.05	No	160g	720g		<0.50	<0.50	<0.50	<0.50	<0.
MW3	07/14/14	42.18	11.55	30.63	No	320g	1,100g		<0.50	1.8	<0.50	<0.50	0.5
MW3	08/18/14	42.18	11.83	30.35	No								
MW3	11/06/14	42.18											
MW3	01/23/15	41.18	10.19	30.99	No	440g	750g		<0.50	5.6	1.7	0.79	1.0
MW3	06/26/15	42.18											
MW3	08/14/15	41.18	12.25	28.93	No	120g	710g		<0.50	2.0	0.50	<0.50	1.3
	00,11,10		0	20.00		9			10100		0.00	10100	
MW4	03/14/96	31.50	4.92	26.58	No	3,500	12,000			2,200	140	880	2,0
MW4	05/21/96	31.50	8.60	22.90	No	4,200	11,000			1,700	ND	930	47
MW4	08/13/96	31.50	10.02	21.50	0.02								
MW4	11/08/96	31.50	10.28	21.33	0.15								
MW4	01/31/97	31.50	7.88	23.62	No	8,200b	23,000	ND		980	68	1,100	1,40
MW4	04/22/97	31.50	7.40	24.10	No	4,500	8,800	ND		950	ND	610	13
MW4	07/29/97	31.50	9.85	21.74	0.12								
MW4	10/09/97	31.50	10.35	21.38	0.30								
MW4	01/23/98	31.50	4.68	27.51	0.92								
MW4	04/22/98	31.50	6.39	25.22	0.14								
MW4	07/21/98	31.50	7.10	24.55	0.20								
MW4	10/20/98	31.50	9.03	22.60	0.17								
MW4	01/27/99	31.50	5.37	26.18	0.07								
MW4	Apr-99		uring construct										

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								MTBE	MTBE				
Well	Sampling	TOC Elev.	DTW	GW Elev.	NAPL	TPHd	TPHg	8020/8021	8240/8260	В	т	Е	Х
ID	Date	(feet)	(feet)	(feet)	(feet)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
	Screening Level				-	•		_	_				
able F-1a						100	100	5	5	1	40	30	20
MW5	10/25/00	39.18	10.92	28.26	No		2,500	<20		79	3.8	66	<20
MW5	01/15/01	39.18	8.32	30.86	No		3,900	<5.0		120	7.9	280	52
MW5	04/10/01	39.18	7.21	31.97	No		8,000	<50	<5	280	4.4	410	100
MW5	07/24/01	39.18	9.54	29.64	No		7,000	<1.0		360	7.4	380	67
MW5	11/27/01	39.18	8.84	30.34	No		5,000	8.9	<2	64	11	340	52
MW5	01/18/02	41.59	6.52	35.07	No		6,330	21.8		99.1	2.30	103	19.6
MW5	04/10/02	41.59	7.20	34.39	No		2,140	<2.50		275	8.00	183	24.5
MW5	07/12/02	41.59	8.83	32.76	No		3,940	20	<0.50	350	<0.50	268	14
MW5	10/14/02	41.59	10.74	30.85	No		4,040	<2.5		98.5	9.0	169	29.0
MW5	01/20/03	41.59	6.45	35.14	No		7,660	59	<0.50	421	10.0	743	96.0
MW5	04/28/03	41.59	6.68	34.91	No		7,510	47	< 0.50	403	5.5	524	50.5
MW5	07/15/03	41.59	8.68	32.91	No		6,080	52.9	<2.5	406	19.8	412	34.7
MW5	10/08/03	41.59	10.56	31.03	No		2,460	54.3	< 0.5	160	12.8	173	31.7
MW5	01/15/04	41.59	6.56	35.03	No		4,630	37.4	<0.5	181	6.0	312	38.5
MW5		oled from 2004 to		00.00	110		1,000	••••	10.0		0.0	0.2	0010
MW5	09/17/10	41.59	9.99	31.60	No	5,700	6,600		<5.0	19	<5.0	16	1.4
MW5	12/15/10	41.86	Well resurvey			0,100	0,000		NO.0	10	40.0	10	1.41
MW5	09/14/11	41.86	7.33	34.53	No	1,600q	7,200		<2.0	23	<2.0	8.6	<2.0
MW5	01/18/12	41.86	9.46	32.40	No		3,600g		<1.0	14	<1.0	7.6	<1.0
MW5	01/27/12	41.86	8.81	33.05	No	3,100g							
MW5	07/09/12	41.86	8.91	32.95	Sheen	29,000g	9,300g		<2.5	21	<2.5	6.9	<2.5
MW5	01/25/13	41.86	6.01	35.85	Sheen	23,000g	4,900g		<2.0	46	<2.0	4.5	<2.0
MW5	08/23/13	41.86	9.12	32.74	No	22,000g 34,000g	4,900g 17,000		<2.0	40 17	<2.0	4.5 6.3	<2.0
MW5	01/10/14	41.86	10.30	32.74	No	, U	•		<2.0	4.7	<2.0	0.5 3.5	<2.0
MW5 MW5	07/14/14		8.70			36,000g	62,000		<2.0 <5.0	4.7	<2.0 <5.0	3.5 12	
		41.86		33.16	No	88,000g	90,000g						<5.0
MW5	08/18/14	41.86	9.40	32.46	No	 E 800 <i>m</i>	 E 400						
MW5	08/22/14	41.86	9.60	32.26	No	5,800g	5,100		<5.0	520	<5.0	320	81
MW5	11/06/14	41.86											
MW5	01/23/15	41.86	7.30	34.56	No	19,000g	3,300g		<5.0	130	<5.0	65	26
MW5	06/26/15	41.86											
MW5	08/14/15	41.86	9.87	31.99	Sheen	4,900g	10,000g		<2.0	27	<2.0	24	17
MW6	08/18/14	42.00	Well surveyed	ł.									
MW6	08/18/14	42.00	13.12	28.88	No	350g	410g		0.60	<0.50	<0.50	<0.50	<0.5
MW6	08/22/14	42.00	11.20	30.80	No	1,000g	1,500g		<0.50	<0.50	<0.50	<0.50	<0.5
MW6	11/06/14	42.00	10.77	31.23	No	640g	840g		0.80	<0.50	<0.50	<0.50	<0.5
MW6	01/23/15	42.00	7.38	34.62	No	170g	120g		<0.50	<0.50	<0.50	<0.50	<0.5
MW6	06/26/15	42.00	9.11	34.02	No	160g	120g 170g		< 0.50	<0.50	<0.50	<0.50	<0.5
MW6	08/14/15	42.00	9.11	32.69	No	91g	120g		<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.50 <0.50	<0.5

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	_							MTBE	MTBE				
Well	Sampling	TOC Elev.	DTW	GW Elev.	NAPL	TPHd	TPHg	8020/8021	8240/8260	В	Т	Е	Х
ID	Date	(feet)	(feet)	(feet)	(feet)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L
	Screening Level				-	•	•						
able F-1a						100	100	5	5	1	40	30	20
MW7	08/18/14	41.34	Well surveye	d.									
MW7	08/18/14	41.34	13.81	27.53	No	<51	<50		<0.50	<0.50	<0.50	<0.50	<0.5
MW7	08/22/14	41.34	Dry										
MW7	11/06/14	41.34	11.73	29.61	No	<50	<50		<0.50	<0.50	<0.50	<0.50	<0.5
MW7	01/23/15	41.34	10.81	30.53	No	57g	140		<0.50	4.2	2.8	6.4	6.1
MW7	06/26/15	41.34	10.28	31.06	No	49g	<50		<0.50	<0.50	<0.50	<0.50	<0.5
MW7	08/14/15	41.34	11.41	29.93	No	<47	58g		<0.50	<0.50	<0.50	<0.50	<0.5
MW8	08/18/14	41.30	Well surveye	d.									
MW8	08/18/14	41.30	12.18	29.12	No	440g	1,600		<0.50	39	<0.50	19	44
MW8	08/22/14	41.30	13.10	28.20	No	350g	950g		<0.50	5.7	<0.50	4.2	6.4
MW8	11/06/14	41.30	10.96	30.34	No	260g	910g		<0.50	54	<0.50	25	11
MW8	01/23/15	41.30	6.83	34.47	No	440g	1,000g		<0.50	110	1.8	19	10
MW8	06/26/15	41.30	8.46	32.84	No	650g	1,100		<2.0	100	<2.0	24	6.2
MW8	08/14/15	41.30	9.85	31.45	No	770g	2,000g		<0.50	92	1.2	14	13
ab Groundw	ater Samples												
	e Tank Cavity												
TW1	01/04/96		6.00		No	700	ND			ND	ND	ND	NE
sed-Oil Tank (Cavity												
WW1	01/04/96		3.00		No		ND			ND	ND	ND	NE
AB1	03/05/98		4.5		No		1,600	ND		31	5.3	79	130
AB2	03/05/98		8.0		No		ND	ND		ND	2.9	0.9	5.7
AB3	03/05/98		5.5		No		6,800	230		680	100	1,500	2,30
AB4	03/05/98		4.0		No		8,500	ND		240	ND	260	72
AB6	03/05/98		4.5		No		12,000	ND		350	ND	310	10
AB9	03/05/98		6.0		No		1,000	ND		57	12	44	93
AB10	03/05/98		2.0		No		200	ND		3.0	1.2	3.2	2.8
AB11	03/05/98		8.5		No		ND	ND		ND	ND	ND	ND
AB12	03/05/98		6.0		No		8,800	37		660	50	630	940
AB13	03/05/98		8.0		No		210	ND		11	0.8	10	15
HA1	01/25/00						<500	<5.0		<0.3	<0.3	<0.3	<0.
B1	11/18/10		Dry										
B2	11/19/10		Dry										
B3	11/19/10		8.45			<50	<50		<0.50	<0.50	<0.50	0.053f	0.21
B4	11/19/10		Dry										
B5	11/18/10		8.95			<50	<50		<0.50	<0.50	<0.50	0.047f	0.21

Oakland, California

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								MTBE	MTBE				
Well	Sampling	TOC Elev.	DTW	GW Elev.	NAPL	TPHd	TPHg	8020/8021	8240/8260	В	Т	E	Х
ID	Date	(feet)	(feet)	(feet)	(feet)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
Environmental Sc	creening Lev	els, Groundwater i	is Current o	r Potential Drin	king Water	Source (Decen	nber 2013)						
Table F-1a						100	100	5	5	1	40	30	20
W-15-B6	06/19/12		15			<50	<50		<0.50	<0.50	<0.50	<0.50	<0.50
W-15-B7	06/19/12		15			<50	<50		<0.50	<0.50	<0.50	<0.50	<0.50
W-9.5-B8	06/19/12		9.5			230g	<50		<0.50	<0.50	<0.50	<0.50	<0.50
Notes:	Adapted fro	m ETIC's Report of	Groundwate	r Monitoring, Th	ird Quarter 2	010.							
TOC Elev.	. =	Top of casing ele		0.									
DTW	=	Depth to water.											
GW Elev.	=	Groundwater elev	vation.										
NAPL	=	Non-aqueous pha	ase liquid.										
TPHd	=	Total petroleum	•	ns as diesel ana	vzed using E	PA Method 801	15B.						
TPHg	=	Total petroleum	•										
MTBE 8020/8021	=	Methyl tertiary bu	ityl ether ana	alyzed using EP	A Method 80	20 or 8021B.							
MTBE 8240/8260	=	Methyl tertiary bu	ityl ether ana	alyzed using EP	A Method 82	60B or 8240.							
BTEX	=	Benzene, toluene					lethod 8260B.						
DIPE	=	Di-isopropyl ethe	r analyzed u	sing EPA Metho	od 8260B.	-							
ETBE	=	Ethyl tertiary buty	/l ether analy	zed using EPA	Method 8260)B.							
TAME	=	Tertiary amyl met	thyl ether an	alyzed using EF	A Method 82	260B.							
TBA	=	Tertiary butyl alco	ohol analyze	d using EPA Me	thod 8260B.								
1,2-DCA	=	1,2-dichloroethar	ne analyzed	using EPA Meth	od 8260B.								
EDB	=	1,2-dibromoethar	ne analyzed	using EPA Meth	nod 8260B.								
Ethanol	=	Ethanol analyzed	d using EPA	Method 8260B.									
ND	=	Not detected at o	or above the	laboratory repor	ting limit.								
µg/L	=	Micrograms per li	iter.										
<	=	Less than the sta	ated laborato	ry reporting limi	t.								
	=	Not analyzed/Not	t applicable.										
а	=	Well sampled usi	ing no-purge	e method.									
b	=	Diesel and unide	ntified hydro	carbons <c15.< td=""><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></c15.<>									
С	=	Diesel and unide	ntified hydro	carbons <c15></c15>	C25.								
d	=	Diesel and unide	ntified hydro	carbons >C20.									
е	=	Unidentified hydr	ocarbons >0	C18.									
f	=	Analyte was dete	ected at a con	ncentration belo	w the reporti	ng limit and abo	ve the laborate	ory method dete	ction limit.				
g	=	Chromatographic	c pattern doe	es not match tha	t of the speci	fied standard.							

TABLE 1B ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA Former Mobil Service Station 99105

6301 San Pablo Avenue Oakland, California

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Well	Sampling	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB	Ethanol
ID	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
	eening Levels, Ground	water is Current or Poten	tial Drinking Water So	ource (December 2013	•			
ble F-1a					12	0.50	0.05	
MW1	03/14/96 - 01/27	99 Not analyzed for these	e analytes					
MW1	Apr-99	Destroyed during con	struction activities.					
MW2	03/14/96 - 01/15	04 Not analyzed for thes	se analytes					
MW2	09/17/10	<0.50	<0.50	<0.50	<10	<0.50	<0.50	
MW2	09/14/11	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<50
MW2	01/18/12	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<50
MW2	01/27/12							
MW2	07/09/12	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	
MW2	01/25/13	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	
MW2	08/23/13	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	
MW2	01/10/14	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	
MW2	07/14/14	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	
MW2	08/18/14							
MW2	08/22/14							
MW2	11/06/14							
MW2	01/23/15	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	
MW2	06/26/15							
MW2	08/14/15	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	
MW3	03/14/96 - 01/15	04 Not analyzed for these	e analytes					
MW3	09/17/10	0.17f	<0.50	<0.50	9.8f	1.9	<0.50	
MW3	09/14/11	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	<50
MW3	01/18/12	<0.50	<0.50	<0.50	23	<0.50	<0.50	<50
MW3	01/27/12							
MW3	07/09/12	<0.50	<0.50	<0.50	9.1	1.1	<0.50	
MW3	01/25/13	<0.50	<0.50	<0.50	9.6	1.1	<0.50	
MW3	08/23/13	<0.50	<0.50	<0.50	7.2	0.90	<0.50	
MW3	01/10/14	<0.50	<0.50	<0.50	12	1.1	<0.50	
MW3	07/14/14	<0.50	<0.50	<0.50	11	1.1	<0.50	
MW3	08/18/14							
MW3	08/22/14							
MW3	11/06/14							
MW3	01/23/15	<0.50	<0.50	<0.50	8.1	0.70	<0.50	
MW3	06/26/15							
MW3	08/14/15	<0.50	<0.50	<0.50	<5.0	1.3	<0.50	

03/14/96 - 01/27/99 Not analyzed for these analytes MW4 MW4

Destroyed during construction activities. Apr-99

Oakland, California

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Well	Sampling	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB	Ethanol
ID	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
vironmental Sc	reening Levels, Ground	water is Current or Poten	tial Drinking Water So	ource (December 2013				
able F-1a					12	0.50	0.05	
MW5	10/25/00 - 01/15	/04 Not analyzed for these	e analytes					
MW5	09/17/10	<5.0	<5.0	<5.0	<100	<5.0	<5.0	
MW5	09/14/11	<2.0	<2.0	<2.0	25	<2.0	<2.0	<200
MW5	01/18/12	<1.0	<1.0	<1.0	37	<1.0	<1.0	<100
MW5	01/27/12							
MW5	07/09/12	<2.5	<2.5	<2.5	36	<2.5	<2.5	
MW5	01/25/13	<2.0	<2.0	<2.0	45	<2.0	<2.0	
MW5	08/23/13	<2.0	<2.0	<2.0	42	<2.0	<2.0	
MW5	01/10/14	<2.0	<2.0	<2.0	36	<2.0	<2.0	
MW5	07/14/14	<5.0	<5.0	<5.0	<50	<5.0	<5.0	
MW5	08/18/14							
MW5	08/22/14	<5.0	<5.0	<5.0	<50	<5.0	<5.0	
MW5	11/06/14							
MW5	01/23/15	<5.0	<5.0	<5.0	<50	<5.0	<5.0	
MW5	06/26/15							
MW5	08/14/15	<2.0	<2.0	<2.0	23	<2.0	<2.0	
MW6	08/18/14	<0.50	<0.50	<0.50	14	1.1	<0.50	
MW6	08/22/14	<0.50	<0.50	<0.50	12	<0.50	<0.50	
MW6	11/06/14	<0.50	<0.50	<0.50	14	1.3	<0.50	
MW6	01/23/15	<0.50	<0.50	<0.50	6.7	<0.50	<0.50	
MW6	06/26/15	<0.50	<0.50	<0.50	<5.0	<0.50	<0.50	
MW6	08/14/15	<0.50	<0.50	<0.50	<5.0	0.59	<0.50	
MW7	08/18/14	<0.50	<0.50	<0.50	21	3.1	<0.50	
MW7	08/22/14	Dry						
MW7	11/06/14	<0.50	<0.50	<0.50	15	3.9	<0.50	
MW7	01/23/15	<0.50	<0.50	<0.50	23	5.1	<0.50	
MW7	06/26/15	<0.50	<0.50	<0.50	11	3.4	<0.50	
MW7	08/14/15	<0.50	<0.50	<0.50	6.6	2.5	<0.50	
MW8	08/18/14	<0.50	<0.50	<0.50	20	0.78	<0.50	
MW8	08/22/14	<0.50	<0.50	<0.50	31	<0.50	<0.50	
MW8	11/06/14	<0.50	<0.50	<0.50	34	2.8	<0.50	
MW8	01/23/15	<0.50	<0.50	<0.50	20	<0.50	<0.50	
MW8	06/26/15	<2.0	<2.0	<2.0	20	<2.0	<2.0	
MW8	08/14/15	<0.50	<0.50	<0.50	15	<0.50	<0.50	

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Well	Sampling	DIPE	ETBE	TAME	TBA	1,2-DCA	EDB	Ethanol
ID	Date	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)	(µg/L)
nvironmental Sc	reening Levels, Groundwa							
able F-1a					12	0.50	0.05	
rab Groundwate	r Samples							
ot analyzed for the	ese analytes prior to 2010.							
B1	11/18/10							
B3	11/19/10					8.7		
B4	11/19/10							
B5	11/18/10					0.099f		
W-15-B6	06/19/12	<0.50	<0.50	<0.50	<5.0			
W-15-B7	06/19/12	<0.50	<0.50	<0.50	<5.0			
	06/19/12	<0.50	<0.50	<0.50	<5.0			

Notes:	Ada	apted from ETIC's Report of Groundwater Monitoring, Third Quarter 2010.
TOC Elev.	=	Top of casing elevation.
DTW	=	Depth to water.
GW Elev.	=	Groundwater elevation.
NAPL	=	Non-aqueous phase liquid.
TPHd	=	Total petroleum hydrocarbons as diesel analyzed using EPA Method 8015B.
TPHg	=	Total petroleum hydrocarbons as gasoline analyzed using EPA Method 8015B.
MTBE 8020/8021	=	Methyl tertiary butyl ether analyzed using EPA Method 8020 or 8021B.
MTBE 8240/8260	=	Methyl tertiary butyl ether analyzed using EPA Method 8260B or 8240.
BTEX	=	Benzene, toluene, ethylbenzene, and total xylenes analyzed using EPA Method 8260B.
DIPE	=	Di-isopropyl ether analyzed using EPA Method 8260B.
ETBE	=	Ethyl tertiary butyl ether analyzed using EPA Method 8260B.
TAME	=	Tertiary amyl methyl ether analyzed using EPA Method 8260B.
TBA	=	Tertiary butyl alcohol analyzed using EPA Method 8260B.
1,2-DCA	=	1,2-dichloroethane analyzed using EPA Method 8260B.
EDB	=	1,2-dibromoethane analyzed using EPA Method 8260B.
Ethanol	=	Ethanol analyzed using EPA Method 8260B.
ND	=	Not detected at or above the laboratory reporting limit.
µg/L	=	Micrograms per liter.
<	=	Less than the stated laboratory reporting limit.
	=	Not analyzed/Not applicable.
а	=	Well sampled using no-purge method.
b	=	Diesel and unidentified hydrocarbons <c15.< td=""></c15.<>
С	=	Diesel and unidentified hydrocarbons <c15>C25.</c15>
d	=	Diesel and unidentified hydrocarbons >C20.
е	=	
f	=	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit.

g = Chromatographic pattern does not match that of the specified standard.

TABLE 2 WELL CONSTRUCTION DETAILS Former Mobil Service Station 99105 6301 San Pablo Avenue Gakland, California (Page 1 of 1)

Well ID	Well Installation Date	Well Destruction Date	TOC Elevation (feet)	Well Casing Material	Total Depth (feet)	Well Depth (feet)	Borehole Diameter (inches)	Casing Diameter (inches)	Screened Interval (feet)	Slot Size (inches)	Filter Pack Interval (feet)	Filter Pack Material
MW1	03/01/96	Apr-99	32.79	PVC	21.5	21.5	10	4	5-20	0.010	4.5-21.5	#12 Sand
MW2	03/01/96		42.24	PVC	21.5	21.5	10	4	5-20	0.010	4.5-21.5	#12 Sand
MW3	03/01/96		42.18	PVC	21.5	21.5	10	4	5-20	0.010	4.5-21.5	#12 Sand
MW4	03/01/96	Apr-99	31.50	PVC	26.5	25	10	4	5-25	0.010	4.5-21.5	#12 Sand
MW5	09/06/00		41.86	PVC	21.5	21.5	10	4	5-20	0.010	4-21.5	#2/12 Sand
MW6	08/11/14		42.00	PVC	18	15	12	4	5-15	0.020	4-15	#2/12 Sand
MW7	08/11/14		41.34	PVC	16	15	10	2	5-15	0.020	4-15	#2/12 Sand
MW8	08/15/14		41.30	PVC	16	15	12	4	5-15	0.020	4-15	#2/12 Sand
VW1	11/01/10			Stainless Steel	6	6	4	0.25	5.25-5.75	0.0057	5-6	#2/12 Sand
VW2	11/02/10			Stainless Steel	6	6	4	0.25	5.25-5.75	0.0057	5-6	#2/12 Sand
VW3	11/01/10			Stainless Steel	6	6	4	0.25	5.25-5.75	0.0057	5-6	#2/12 Sand
VW4	11/02/10			Stainless Steel	6	6	4	0.25	5.25-5.75	0.0057	5-6	#2/12 Sand
VW5	11/02/10			Stainless Steel	6	6	4	0.25	5.25-5.75	0.0057	5-6	#2/12 Sand
MP1	11/16/98	1998		PVC	23	23	1.5	1	4-23	0.020	2.5-23	#3 Sand
MP2	11/16/98	1998		PVC	20	20	1.5	1	5-20	0.020	4-20	#3 Sand
MP3	11/16/98	1998		PVC	18	18	1.5	1	3-18	0.020	2-18	#3 Sand
MP4	11/16/98	1998		PVC	18	18	1.5	1	3-18	0.020	2-18	#3 Sand
MP5	11/16/98	1998		PVC	18	18	1.5	1	3-18	0.020	2-18	#3 Sand
MP6	11/16/98	1998		PVC	17.5	17.5	1.5	1	3.5-17.5	0.020	2.5-17.5	#3 Sand
SVS1	06/18/12		38.78	PVC/Stainless Steel	5.5	5	3.25	0.25	4.75-5	0.010	4.5-5	#3 Sand
SVS2	06/18/12		41.05	PVC/Stainless Steel	5.5	5	3.25	0.25	4.75-5	0.010	4.5-5	#3 Sand
SVS3	06/18/12		42.64	PVC/Stainless Steel	5.5	5	3.25	0.25	4.75-5	0.010	4.5-5	#3 Sand

Notes: TOC

= Top of casing.

PVC = Polyvinyl chloride.

--- = Not applicable/Not available.

TABLE 3 CUMULATIVE PID READINGS, VAPOR WELLS Former Mobil Service Station 99105 6301 San Pablo Avenue

Oakland, California

(Page 1 of 1)

Sample	VW1	VW2	VW3	VW4	VW5
Date	(ppm)	(ppm)	(ppm)	(ppm)	(ppm)
08/01/14	559	118	146	>7,000	500
08/18/14	317	1.9	85.8	1,780	395
08/22/14	62	0.4	122	>9,000	473
12/31/14	75.2	Wet	178.1	1,499	165.4
01/23/15	1.2	2.2	64	3,680	18
06/26/15	Wet	0.7	79.5	2,319	Wet
08/14/15	Wet	6.2	16.6	2,740	Wet

Notes:

ppm = Parts per million.

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

Site S	301.	Time Departed Site:	ERI Job # 2783 Date: 8/14/15 Sheet: 1 of / Total Travel: 0430- 0430- 0445- 0555-0 0800-0 1030 0945	0500 0500 0530 0741
Site Site	subject: $M + S$ squipment Used: $D T W Tappender Tapp$	Time Departed Site:	Date: 8/14/15 Sheet: 0 f / Total Travel: 0430- 0430- 0445- 0500- 0555- 0800-0 1030	0500 0500 0530 0741
SiTE SiTE S meeting red wells up decon/pump ged wells pred wells SiTE 3B on watter - 24 9 Se watter - 455 0	Equipment Used: DTW Taplame(s): \overline{DE} <u>D</u> . <u>LEW</u> ime Arrived On Site: W 2, MW3, MW5, MW $W 2, MW3, MW5, MWW 1, MW3, MW5, MWW 1, MW3, MW5, MW$	Time Departed Site:	Sheet: of / Total Travel: 04/30 04/30 04/30- 04/45- 0500-0 0555-0 0800-0 1030	0500 0500 0530 0741
SiTC S meeting ved wells up decon/pump jed wells moved wells SiTe BB on watter - 24 9 Be watter - 455 0	lame(s): \overline{JOE} D. LEW ime Arrived On Site: W 2, MW3, MW5, MW $W 2, MW3, MW5, MWW 2, MW3, MW5, MWW 1.$	Time Departed Site:	Total Travel: 0430- 0445- 0500-0 0555-0 0800-0 1030	0500 0500 0530 0741
SiTE S Meeting red weils up decon/pump ded weils Mu SiTE BB bn water - 24 9 Be water - 455 0	ime Arrived On Site: w 2, mw3, mw5, mu w 2, mw3, mw5, mu w 2, mw3, mw5, mu gal. gal.	Time Departed Site:	0430 0430- 0445- 0500-0 0555-0 0800-0 1030	0500 0500 0530 0741
SiTE S meeting ued wells up decon/pump ded wells M SiTE BB on watter - 24 9 Se watter - 455 0	w 2, mw 3, mw 5, mu w 2, mw 3, mw 5, mu w 2, mw 3, mw 5, mu al. 3al.	v6. MW7. MW8 u6, MW7, MW8	0430- 0445- 0500-0 0555-0 0800-0 1030	0500 0500 0530 0741
S meeting ued wells up decon/pump ged wells moved wells site BB bn water - 24 g Be water - 455 g	w 2', mw 3, mw 5, mu al. 3al.	ub, MW7, MW 8	0430- 0445- 0500-0 0555-0 0800-0 1030	0500 0500 0530 0741
ed wells up decon/pump sed wells Mu site 3B on water - 24 g se water - 455 g	w 2', mw 3, mw 5, mu al. 3al.	ub, MW7, MW 8	0445- 0500-0 0555-0 0800-0 1030	0500 0530 0741
up decon/pump ged units m pred wells m site 3B on water - 24 g se water - 455 g	w 2', mw 3, mw 5, mu al. 3al.	ub, MW7, MW 8	0500-0 0555-0 0800-0 1030	0530
ored wells m site BB on water - 24 g se water - 455 g	w 2', mw 3, mw 5, mu al. 3al.	ub, MW7, MW 8	0555-0 0800-0 1030	0741
phed wells M Site 3B 6n water - 24 g 3e water - 455 g	w 2', mw 3, mw 5, mu al. 3al.	ub, MW7, MW 8	0800-0 1030	
Site 3B on water - 24 g Se water - 455 g	al. 3al.		1030	
3B on water - 24 g se water - 455 g	301.			
se water ~ 455	301.			
se water ~ 455	301.		*	
se water ~ 455	301.		*	
			*	
4 Well-4 - 64,5	9a1.			
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Cardno ERI Groundwater M+S Depth To Water

Case Volume= H(r²x0.163)

H=Height of Water Column in Feet r=Radius of well casing in inches Common conversion factors: 2"=0.163, 4"=0.652, 6"=1.457

Project		Location		Date		Name	
278	4	99105		8/14/	15	JOE D.	LEWIS
	-						1.
WELL	WELL	ODOR?	TOTAL	Pre-Purge	Case	80%	COMMENTS
ID	DIAMETER	SHEEN?	DEPTH	DTW	volume	r/chrg. DTW	
	inches		feet	feet	Gal.	feet	
Mw2	4		18.59	11.45	4.65	12.87	Does NOT recharge in 268
MW 7	2		14.50	11.41	0.50	12.02	
MW 6	4		14.47	9.89	2.98	10-80	
MW3	4	Odor	18.18	12.25	3.86	13.43	
MW 8	4	4/46	14.27	9.85	2.88	10:73	
MW 5	4	odor Sheen	19.94	9.87	6.56	11.88	V
				26			
					14.		

WAT	ER S	AMP	LING	SIT	E ST	ATU	S						-		Date: 8/14/15
															Inspected by: JOE D. LEWIS
Cardno	ERI Jo	ob No.:	279	33	Stat	ion No.: _	9910	5	5	Site	Addre	ss: <u>6</u> 3	3015	an pa	blo Ave. Oakland
		_	-	-	-		/								ومحمد والموجود المراجع ومعادية المتعرف المتحور المراجع والمراجع
Wellin		Head Bubbe	thet in	28 Pans	on cal	rele seal H	end se	IT Vault	Well	jover ce	Gate	aruns in	nentsudi	ondition Site App	estatic
1/10.	W90	9 44 G	No.		00	No.6	1/101	18 18V	ANe.	4010	2*	2000	or Brunc	Steppy	Comments / Well Covers
MW 2		N/R/ok	OK	N/R/OK	OK	OK	N	N/R/OK	N/R/ok	N/R/ok	MA	s/w/e NA	g/v/o	N/R/ok	NO LOCH
MW 7	OK	OK	OK	N	OK	OK	N	ON	OK			the second se	NA	OH	NO LOCK
mw 6	OK		OK	N	OK	ok	N	OK	OH		WA	NA	NA	OH	NO LOCK
MW 3		OK	OK	N	OH	OK	N	NA	OK		NA		NA	OH	NO LOCK
	OK			N	on	OK	N	OM	OK		NA		NA.	OH	NO LOCK
MW 5	OK	OK	ok	N	OK	OK	N	ok	or	NA	NA	NA	Nh	OK	NO LOCH
										-					and the second
					- F.										
				5											
													_		
											-				
								-							
N = Not r	epairable	e in time :	available	-see con	nments.		Y =	Yes.			s = S	ioil.		g = Gr	affiti on walls.
R = Repa			nts				N =	No.				Nater.			grants (or evidence of).
ok ≕ No a	iction ne	eded.									e = E	impty.		o = Op	pen (not secured).

Location:	9910						:27 rformed:					1		of/ V) x F where F =
Field Crew:	JOE	D. LE	EWIS	1	Analysis	·					0.652 f	or 4" ins	side-dia n	neter well casing hter well casing hter well casing
Well ID	Time	Case Volume	Purge Volume	Тетр	Cond	рН	Post-Purge DTW R	80% echarge	BB	40mil	Amber	DO	ORP	Comments Well Box Condition
MW2	0555	4.65	5				13.30	N		[Dry@ 10 gal.
	0558		5	20.1	184.1	6.32	8/14/15							did not rechar
	0601		10	19.4	183.1	6.21	NW 2							in 2 Hrs
			15				0800							
MW3	0617	3.86	4				13.85	N						purged out of order
	0620		4	19.2	344	6.30	8/14/15							due To location used
	0623		8	19.0		6.33	MW 3							Separate pump.
		14	12				0815							dry@ 9.5 gal.
MW 5	0640	6.56	7				16.80	N						purged out of order
	0644		7	20.9	379	6.54	3/14/15							used separate pump
	0649	1	14	20.3	394	6.46	MW 5							dry@ 17.5 gal.
			21				0830							did not reclarge in 2
MW7	0705	0:50	Í					N						Dry@ 1 gal.
	0706		1	19.8	471	6.60	8/14/15	÷	No					did not recharge
		1	2				MW 7		0					in 2143.
		- A.	3				0900	25						
MW6	0719	2.98	3				13.05	N	1	Terrar		_		Dry @ 7.5 gal.
	0720		3	19.7	465	6.44	8/14/15		1					did not reclarge
	0722	1	6	19.6	466	6.79	MWG							in 2 145,
			9				0920							
MW 8	0737	2.88	3			7	12.73	N		1				Did not recharge
	0739		3	22.0	397	6.86	8/14/15		14					in 2 Hrs
	0741		6	21.7	348	6.83	mw8		3					
-		1	9				MW 8 0935		9	2				
QCBB		,	_											
1							9/19/15 90-88 0945							
•		1				-	QCBA							
	18	1				1.1	0945							
·	A.													



Daily Field Report

		Date:	8/14/15							
	Ex	xonMobil Pt ID #:	99105							
		ERI site #:	2783							
		Project Manager:	Scott Perkins							
		Subject:	PID readings							
	E	Equipment on site:	None							
		Total Pages:	1							
		Personnel:	DE							
On Site:	545	Status:	N/A							
Arrive	on site, gathe	er PPE, review JSAs and	sign in							
Prepar	e equipment									
Open a	all VW wells li	ds prior to starting								
Take r	eadings on V\	V wells with PID								
0	VW1 - Wet									
0	VW2 – 6.2	ppm								
0	VW3 – 16.0	6 ppm								
0	VW4 – 274	0 ppm								
0	VW5 - Wet									
Close a	all weils, gath	er equipment and depart	t site							
	novi) Tetis		Global Observation							
Off Site:	800	Status:	N/A							
Drums/Waste C	Onsite:	No								
System	Туре		le Date	Permit Expiration Date						
Water		N/A		N/A						
Air		N/A		N/A						
V-INF (ppmv):	- 314 1-84	N/A	ani della neglitika	SVE FLOW: N/A						
V-INF (ppmv): V-INT1/2 (ppm	v):	N/A		SVE HRS:						
V-EFF (ppmv):		N/A		WELL PUMPS ON:						
VAPOR WELLS	DN:	N/A		BIO:						
SPARGE WELLS	ON:	N/A								

APPENDIX C

LABORATORY ANALYTICAL REPORT

WORK ORDER NUMBER: 15-08-1117

Calscience



🔅 eurofins



AIR | SOIL | WATER | MARINE CHEMISTRY

Analytical Report For Client: Cardno ERI Client Project Name: ExxonMobil 99105/022783C Attention: Greg Gurss 601 North McDowell Blvd. Petaluma, CA 94954-2312

Center L. in Dung

Approved for release on 08/28/2015 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.

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Client Project Name:

Calscience

ExxonMobil 99105/022783C

Contents

Work Orde	er Number: 15-08-1117	
1	Work Order Narrative.	3
2	Sample Summary	4
3	Client Sample Data. 3.1 EPA 8015B (M) TPH Diesel (Aqueous). 3.2 EPA 8015B (M) TPH Gasoline (Aqueous). 3.3 EPA 8260B Volatile Organics (Aqueous).	5 5 7 9
4	Quality Control Sample Data.4.1 MS/MSD.4.2 LCS/LCSD.	18 18 23
5	Sample Analysis Summary.	29
6	Glossary of Terms and Qualifiers.	30
7	Chain-of-Custody/Sample Receipt Form	31

Work Order: 15-08-1117

Page 1 of 1

Condition Upon Receipt:

Samples were received under Chain-of-Custody (COC) on 08/15/15. They were assigned to Work Order 15-08-1117.

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.



Client: Cardno ERI		Work Order:		15-08-1117		
601 Nor	th McDowell Blvd.	Project Name:	ExxonMo	ExxonMobil 99105/022783C		
Petalum	na, CA 94954-2312	PO Number:				
		Date/Time Received:		08/15/15 08:40		
		Number of Containers:		62		
Attn: Greg G	urss					
Sample Identification	Lab Number	Collection Date and Time	Number of Containers	Matrix		
W-MW2	15-08-1117-1	08/14/15 08:00	10	Aqueous		
W-MW3	15-08-1117-2	08/14/15 08:15	10	Aqueous		

W-MW2	15-08-1117-1	08/14/15 08:00	10	Aqueous
W-MW3	15-08-1117-2	08/14/15 08:15	10	Aqueous
W-MW5	15-08-1117-3	08/14/15 08:30	10	Aqueous
W-MW6	15-08-1117-4	08/14/15 09:20	10	Aqueous
W-MW7	15-08-1117-5	08/14/15 09:00	10	Aqueous
W-MW8	15-08-1117-6	08/14/15 09:35	10	Aqueous
QCBB	15-08-1117-7	08/14/15 09:45	2	Aqueous



Cardno ERI			Date Recei	ved:			08/15/1		
601 North McDowell Blvd.			Work Order:				15-08-1117		
Petaluma, CA 94954-2312			Preparation	1:			EPA 3510		
			Method:			EPA 8015B (N			
			Units:				ug		
Project: ExxonMobil 99105/0227	783C					Pa	age 1 of 2		
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID		
W-MW2	15-08-1117-1-I	08/14/15 08:00	Aqueous	GC 47	08/18/15	08/19/15 01:41	150818B09		
Parameter		Result	RL		DF	Qua	alifiers		
TPH as Diesel		ND	50		1.00	SG			
Surrogate		Rec. (%)	Co	ntrol Limits	<u>Qualifiers</u>				
n-Octacosane		100	68-	-140					
W-MW3	15-08-1117-2-I	08/14/15 08:15	Aqueous	GC 47	08/18/15	08/19/15 01:58	150818B09		
Parameter		Result	RL		DF	Qua	alifiers		
TPH as Diesel		120	50		1.00	SG	,HD		
Surrogate		<u>Rec. (%)</u>	<u>Co</u>	ntrol Limits	<u>Qualifiers</u>				
n-Octacosane		95	68-	-140					
W-MW5	15-08-1117-3-I	08/14/15 08:30	Aqueous	GC 47	08/18/15	08/19/15 02:16	150818B09		
Parameter		Result	RL		DF	Qua	alifiers		
TPH as Diesel		4900	47		1.00	SG	,HD		
Surrogate		Rec. (%)	Co	ntrol Limits	Qualifiers				
n-Octacosane		98		-140					
W-MW6	15-08-1117-4-I	08/14/15 09:20	Aqueous	GC 47	08/18/15	08/19/15 02:33	150818B09		
Parameter		Result	<u></u>		DE	Qua	alifiers		
TPH as Diesel		91	50		1.00	SG	,HD		
Surrogate		<u>Rec. (%)</u>	<u>_</u> Co	ntrol Limits	<u>Qualifiers</u>				
n-Octacosane		100		-140					
W-MW7	15-08-1117-5-I	08/14/15 09:00	Aqueous	GC 47	08/18/15	08/19/15 02:51	150818B09		
Parameter		Result	RL		DF	Qua	alifiers		
TPH as Diesel		ND	47		1.00	SG			
Surrogate		<u>Rec. (%)</u>	<u>Co</u>	ntrol Limits	<u>Qualifiers</u>				
n-Octacosane		94	60	-140					

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



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Cardno ERI			Date Rec	eived:			08/15/15	
601 North McDowell Blvd.			Work Ord	er:			15-08-1117	
Petaluma, CA 94954-2312				Preparation:			EPA 3510C	
			Method:			E	PA 8015B (M)	
			Units:				ug/L	
Project: ExxonMobil 99105/0227830					Pa	ige 2 of 2		
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID	
W-MW8	15-08-1117-6-I	08/14/15 09:35	Aqueous	GC 47	08/18/15	08/19/15 03:08	150818B09	
Parameter		Result	<u> </u>	<u>RL</u>	DF	Qua	alifiers	
TPH as Diesel		770	5	60	1.00	SG,	HD	
Surrogate		<u>Rec. (%)</u>	<u>(</u>	Control Limits	<u>Qualifiers</u>			
n-Octacosane		93	6	8-140				
Method Blank	099-15-304-1140	N/A	Aqueous	GC 47	08/18/15	08/19/15 00:48	150818B09	
Parameter		Result	Ē	<u>RL</u>	DF	Qua	alifiers	
TPH as Diesel		ND	5	60	1.00			
<u>Surrogate</u>		<u>Rec. (%)</u>	<u>(</u>	Control Limits	<u>Qualifiers</u>			
n-Octacosane		104	6	8-140				



Cardno ERI			Date Recei	ved:			08/15/15
601 North McDowell Blvd.			Work Order	:			15-08-1117
Petaluma, CA 94954-2312			Preparation	1:			EPA 5030C
			Method:			I	EPA 8015B (M)
			Units:				ug/L
Project: ExxonMobil 99105/0227	783C					Р	age 1 of 2
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-MW2	15-08-1117-1-E	08/14/15 08:00	Aqueous	GC 22	08/26/15	08/26/15 13:09	150826L050
Parameter		Result			DE	<u>Q</u> ı	ualifiers
TPH as Gasoline		ND	50		1.00		
Surrogate		Rec. (%)	Co	ntrol Limits	Qualifiers		
1,4-Bromofluorobenzene		72	38-	-134			
W-MW3	15-08-1117-2-E	08/14/15 08:15	Aqueous	GC 22	08/26/15	08/26/15 14:48	150826L050
Parameter		Result	RL		DF	<u>Q</u> ı	ualifiers
TPH as Gasoline		710	50		1.00	H)
Surrogate		<u>Rec. (%)</u>	<u>Co</u>	ntrol Limits	<u>Qualifiers</u>		
1,4-Bromofluorobenzene		87	38-	-134			
W-MW5	15-08-1117-3-E	08/14/15 08:30	Aqueous	GC 22	08/26/15	08/26/15 15:22	150826L050
Parameter		Result	RL		DF	Qı	ualifiers
TPH as Gasoline		10000	250	C	5.00	H)
Surrogate		Rec. (%)	Co	ntrol Limits	<u>Qualifiers</u>		
1,4-Bromofluorobenzene		119		-134			
W-MW6	15-08-1117-4-E	08/14/15 09:20	Aqueous	GC 22	08/26/15	08/26/15 15:55	150826L050
Parameter		Result	<u></u>		DE		ualifiers
TPH as Gasoline		120	50		1.00	H	
Surrogate		<u>Rec. (%)</u>	Co	ntrol Limits	<u>Qualifiers</u>		
		77	38-	-134			
1,4-Bromofluorobenzene	15-08-1117-5-E		38- Aqueous	-134 GC 22	08/26/15	08/26/15 16:28	150826L050
1,4-Bromofluorobenzene W-MW7	15-08-1117-5-E	77 08/14/15		GC 22	08/26/15 DF	16:28	150826L050
1,4-Bromofluorobenzene W-MW7 Parameter TPH as Gasoline	15-08-1117-5-E	77 08/14/15 09:00	Aqueous	GC 22		16:28	Jalifiers
1,4-Bromofluorobenzene W-MW7 Parameter	15-08-1117-5-E	77 08/14/15 09:00 <u>Result</u>	Aqueous RL 50	GC 22	DF	16:28 <u>Q</u> ı	Jalifiers

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





Cardno ERI			Date Recei	ved:			08/15/15
601 North McDowell Blvd.			Work Orde	r:			15-08-1117
Petaluma, CA 94954-2312	Preparation:			ו:	EPA 503		
			Method:			E	PA 8015B (M)
			Units:				ug/L
Project: ExxonMobil 99105/02278	33C					Pa	ge 2 of 2
Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-MW8	15-08-1117-6-F	08/14/15 09:35	Aqueous	GC 22	08/27/15	08/27/15 11:56	150827L018
Parameter		Result	RL	•	DF	Qua	lifiers
TPH as Gasoline		2000	50		1.00	HD	
Surrogate		<u>Rec. (%)</u>	<u>Cc</u>	ontrol Limits	<u>Qualifiers</u>		
1,4-Bromofluorobenzene		125	38	-134			
Method Blank	099-12-436-10292	N/A	Aqueous	GC 22	08/26/15	08/26/15 12:36	150826L050
Parameter		Result		-	DF	Qualifiers	
TPH as Gasoline		ND	50		1.00		
Surrogate		<u>Rec. (%)</u>	<u>Cc</u>	ontrol Limits	<u>Qualifiers</u>		
1,4-Bromofluorobenzene		72	38	-134			
Method Blank	099-12-436-10293	N/A	Aqueous	GC 22	08/27/15	08/27/15 11:22	150827L018
Parameter		Result	RL	-	DF	Qua	lifiers
TPH as Gasoline		ND	50		1.00		
Surrogate		<u>Rec. (%)</u>	<u>Cc</u>	ontrol Limits	<u>Qualifiers</u>		
1,4-Bromofluorobenzene		75	38	-134			





Cardno ERI	Date Received:	08/15/15
601 North McDowell Blvd.	Work Order:	15-08-1117
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: ExxonMobil 99105/022783C		Page 1 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-MW2	15-08-1117-1-A	08/14/15 08:00	Aqueous	GC/MS L	08/17/15	08/17/15 18:44	150817L057
Parameter		<u>Result</u>	RL	:	DF	Qua	lifiers
Benzene		ND	0.5	50	1.00		
Toluene		ND	0.5	50	1.00		
Ethylbenzene		ND	0.5	50	1.00		
o-Xylene		ND	0.5	50	1.00		
p/m-Xylene		ND	0.5	50	1.00		
Xylenes (total)		ND	0.5	50	1.00		
Methyl-t-Butyl Ether (MTBE)		ND	0.5	50	1.00		
Tert-Butyl Alcohol (TBA)		ND	5.0)	1.00		
Diisopropyl Ether (DIPE)		ND	0.5	50	1.00		
Ethyl-t-Butyl Ether (ETBE)		ND	0.5	50	1.00		
Tert-Amyl-Methyl Ether (TAME)		ND	0.5	50	1.00		
1,2-Dibromoethane		ND	0.5	50	1.00		
1,2-Dichloroethane		ND	0.5	50	1.00		
Surrogate		<u>Rec. (%)</u>	<u>Co</u>	ntrol Limits	<u>Qualifiers</u>		
1,4-Bromofluorobenzene		95	68·	-120			
Dibromofluoromethane		115	80-	-127			
1,2-Dichloroethane-d4		120	80-	-128			
Toluene-d8		102	80-	-120			



Cardno ERI	Date Received:	08/15/15
601 North McDowell Blvd.	Work Order:	15-08-1117
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: ExxonMobil 99105/022783C		Page 2 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-MW3	15-08-1117-2-A	08/14/15 08:15	Aqueous	GC/MS L	08/17/15	08/17/15 19:13	150817L057
Parameter		<u>Result</u>	<u>RL</u>		DF	Qua	lifiers
Benzene		2.0	0.50	0	1.00		
Toluene		0.50	0.50	0	1.00		
Ethylbenzene		ND	0.50	0	1.00		
o-Xylene		ND	0.50	0	1.00		
p/m-Xylene		1.3	0.50	0	1.00		
Xylenes (total)		1.3	0.50	0	1.00		
Methyl-t-Butyl Ether (MTBE)		ND	0.50	0	1.00		
Tert-Butyl Alcohol (TBA)		ND	5.0		1.00		
Diisopropyl Ether (DIPE)		ND	0.50	0	1.00		
Ethyl-t-Butyl Ether (ETBE)		ND	0.50	0	1.00		
Tert-Amyl-Methyl Ether (TAME)		ND	0.50	0	1.00		
1,2-Dibromoethane		ND	0.50	0	1.00		
1,2-Dichloroethane		1.3	0.50	0	1.00		
Surrogate		<u>Rec. (%)</u>	Cor	ntrol Limits	Qualifiers		
1,4-Bromofluorobenzene		102	68-	120			
Dibromofluoromethane		112	80-	127			
1,2-Dichloroethane-d4		118	80-	128			
Toluene-d8		103	80-	120			





Cardno ERI	Date Received:	08/15/15
601 North McDowell Blvd.	Work Order:	15-08-1117
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: ExxonMobil 99105/022783C		Page 3 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-MW5	15-08-1117-3-B	08/14/15 08:30	Aqueous	GC/MS L	08/19/15	08/19/15 16:22	150819L042
Parameter		<u>Result</u>	<u>RL</u>		DF	Qua	lifiers
Benzene		27	2.0		4.00		
Toluene		ND	2.0		4.00		
Ethylbenzene		24	2.0		4.00		
o-Xylene		ND	2.0		4.00		
p/m-Xylene		17	2.0		4.00		
Xylenes (total)		17	2.0		1.00		
Methyl-t-Butyl Ether (MTBE)		ND	2.0		4.00		
Tert-Butyl Alcohol (TBA)		23	20		4.00		
Diisopropyl Ether (DIPE)		ND	2.0		4.00		
Ethyl-t-Butyl Ether (ETBE)		ND	2.0		4.00		
Tert-Amyl-Methyl Ether (TAME)		ND	2.0		4.00		
1,2-Dibromoethane		ND	2.0		4.00		
1,2-Dichloroethane		ND	2.0		4.00		
Surrogate		<u>Rec. (%)</u>	Cor	ntrol Limits	Qualifiers		
1,4-Bromofluorobenzene		116	68-	120			
Dibromofluoromethane		103	80-	127			
1,2-Dichloroethane-d4		109	80-	128			
Toluene-d8		98	80-	120			



Cardno ERI	Date Received:	08/15/15
601 North McDowell Blvd.	Work Order:	15-08-1117
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: ExxonMobil 99105/022783C		Page 4 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-MW6	15-08-1117-4-A	08/14/15 09:20	Aqueous	GC/MS L	08/17/15	08/18/15 06:01	150817L030
Parameter		<u>Result</u>	RL	:	DF	Qua	lifiers
Benzene		ND	0.5	50	1.00		
Toluene		ND	0.5	50	1.00		
Ethylbenzene		ND	0.5	50	1.00		
o-Xylene		ND	0.5	50	1.00		
p/m-Xylene		ND	0.5	50	1.00		
Xylenes (total)		ND	0.5	50	1.00		
Methyl-t-Butyl Ether (MTBE)		ND	0.5	50	1.00		
Tert-Butyl Alcohol (TBA)		ND	5.0)	1.00		
Diisopropyl Ether (DIPE)		ND	0.5	50	1.00		
Ethyl-t-Butyl Ether (ETBE)		ND	0.5	50	1.00		
Tert-Amyl-Methyl Ether (TAME)		ND	0.5	50	1.00		
1,2-Dibromoethane		ND	0.5	50	1.00		
1,2-Dichloroethane		0.59	0.5	50	1.00		
Surrogate		<u>Rec. (%)</u>	<u>Co</u>	ntrol Limits	<u>Qualifiers</u>		
1,4-Bromofluorobenzene		97	68	-120			
Dibromofluoromethane		117	80	-127			
1,2-Dichloroethane-d4		119	80	-128			
Toluene-d8		104	80-	-120			





Cardno ERI	Date Received:	08/15/15
601 North McDowell Blvd.	Work Order:	15-08-1117
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: ExxonMobil 99105/022783C		Page 5 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-MW7	15-08-1117-5-A	08/14/15 09:00	Aqueous	GC/MS L	08/17/15	08/18/15 06:30	150817L030
Parameter		<u>Result</u>	RL		DF	Qua	lifiers
Benzene		ND	0.5	50	1.00		
Toluene		ND	0.5	50	1.00		
Ethylbenzene		ND	0.5	50	1.00		
o-Xylene		ND	0.5	50	1.00		
p/m-Xylene		ND	0.5	50	1.00		
Xylenes (total)		ND	0.5	50	1.00		
Methyl-t-Butyl Ether (MTBE)		ND	0.5	50	1.00		
Tert-Butyl Alcohol (TBA)		6.6	5.0)	1.00		
Diisopropyl Ether (DIPE)		ND	0.5	50	1.00		
Ethyl-t-Butyl Ether (ETBE)		ND	0.5	50	1.00		
Tert-Amyl-Methyl Ether (TAME)		ND	0.5	50	1.00		
1,2-Dibromoethane		ND	0.5	50	1.00		
1,2-Dichloroethane		2.5	0.5	50	1.00		
Surrogate		<u>Rec. (%)</u>	<u>Cc</u>	ontrol Limits	Qualifiers		
1,4-Bromofluorobenzene		96	68	-120			
Dibromofluoromethane		116	80	-127			
1,2-Dichloroethane-d4		116	80	-128			
Toluene-d8		101	80	-120			



Cardno ERI	Date Received:	08/15/15
601 North McDowell Blvd.	Work Order:	15-08-1117
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: ExxonMobil 99105/022783C		Page 6 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-MW8	15-08-1117-6-A	08/14/15 09:35	Aqueous	GC/MS L	08/17/15	08/18/15 06:59	150817L030
Parameter		<u>Result</u>	RL	=	DF	Qua	lifiers
Toluene		1.2	0.5	50	1.00		
Ethylbenzene		14	0.5	50	1.00		
o-Xylene		0.59	0.5	50	1.00		
p/m-Xylene		12	0.5	50	1.00		
Xylenes (total)		13	0.5	50	1.00		
Methyl-t-Butyl Ether (MTBE)		ND	0.5	50	1.00		
Tert-Butyl Alcohol (TBA)		15	5.0	D	1.00		
Diisopropyl Ether (DIPE)		ND	0.5	50	1.00		
Ethyl-t-Butyl Ether (ETBE)		ND	0.5	50	1.00		
Tert-Amyl-Methyl Ether (TAME)		ND	0.5	50	1.00		
1,2-Dibromoethane		ND	0.5	50	1.00		
1,2-Dichloroethane		ND	0.5	50	1.00		
Surrogate		<u>Rec. (%)</u>	<u>Cc</u>	ontrol Limits	<u>Qualifiers</u>		
1,4-Bromofluorobenzene		103	68	-120			
Dibromofluoromethane		115	80	-127			
1,2-Dichloroethane-d4		116	80	-128			
Toluene-d8		103	80	-120			

W-MW8	15-08-1117-6-B	08/14/15 09:35	Aqueous	GC/MS L	08/19/15	08/19/15 15:52	150819L042
Parameter		<u>Result</u>	<u>RL</u>		<u>DF</u>	Qua	alifiers
Benzene		92	2.5		5.00		
<u>Surrogate</u>		<u>Rec. (%)</u>	<u>Co</u>	<u>ntrol Limits</u>	<u>Qualifiers</u>		
1,4-Bromofluorobenzene		105	68-	120			
Dibromofluoromethane		102	80-	127			
1,2-Dichloroethane-d4		104	80-	128			
Toluene-d8		97	80-	120			



Cardno ERI	Date Received:	08/15/15
601 North McDowell Blvd.	Work Order:	15-08-1117
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: ExxonMobil 99105/022783C		Page 7 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-884-1275	N/A	Aqueous	GC/MS L	08/17/15	08/17/15 21:53	150817L030
Parameter		<u>Result</u>	<u>RL</u>		DF	Qua	lifiers
Benzene		ND	0.50	0	1.00		
Toluene		ND	0.50	0	1.00		
Ethylbenzene		ND	0.50	0	1.00		
o-Xylene		ND	0.50	0	1.00		
p/m-Xylene		ND	0.50	0	1.00		
Xylenes (total)		ND	0.50	0	1.00		
Methyl-t-Butyl Ether (MTBE)		ND	0.50	0	1.00		
Tert-Butyl Alcohol (TBA)		ND	5.0		1.00		
Diisopropyl Ether (DIPE)		ND	0.50	0	1.00		
Ethyl-t-Butyl Ether (ETBE)		ND	0.50	0	1.00		
Tert-Amyl-Methyl Ether (TAME)		ND	0.50	0	1.00		
1,2-Dibromoethane		ND	0.50	0	1.00		
1,2-Dichloroethane		ND	0.50	0	1.00		
Surrogate		<u>Rec. (%)</u>	Cor	ntrol Limits	<u>Qualifiers</u>		
1,4-Bromofluorobenzene		95	68-	120			
Dibromofluoromethane		109	80-	127			
1,2-Dichloroethane-d4		109	80-	128			
Toluene-d8		100	80-	120			



Cardno ERI	Date Received:	08/15/15
601 North McDowell Blvd.	Work Order:	15-08-1117
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: ExxonMobil 99105/022783C		Page 8 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-884-1276	N/A	Aqueous	GC/MS L	08/17/15	08/17/15 10:27	150817L057
Parameter		Result	<u>RL</u>		DF	Qua	lifiers
Benzene		ND	0.5	0	1.00		
Toluene		ND	0.5	0	1.00		
Ethylbenzene		ND	0.5	0	1.00		
o-Xylene		ND	0.5	0	1.00		
p/m-Xylene		ND	0.5	0	1.00		
Xylenes (total)		ND	0.5	0	1.00		
Methyl-t-Butyl Ether (MTBE)		ND	0.5	0	1.00		
Tert-Butyl Alcohol (TBA)		ND	5.0		1.00		
Diisopropyl Ether (DIPE)		ND	0.5	0	1.00		
Ethyl-t-Butyl Ether (ETBE)		ND	0.5	0	1.00		
Tert-Amyl-Methyl Ether (TAME)		ND	0.5	0	1.00		
1,2-Dibromoethane		ND	0.5	0	1.00		
1,2-Dichloroethane		ND	0.5	0	1.00		
Surrogate		<u>Rec. (%)</u>	Cor	ntrol Limits	Qualifiers		
1,4-Bromofluorobenzene		91	68-	120			
Dibromofluoromethane		102	80-	127			
1,2-Dichloroethane-d4		99	80-	128			
Toluene-d8		100	80-	120			





Cardno ERI	Date Received:	08/15/15
601 North McDowell Blvd.	Work Order:	15-08-1117
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
	Units:	ug/L
Project: ExxonMobil 99105/022783C		Page 9 of 9

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-884-1278	N/A	Aqueous	GC/MS L	08/19/15	08/19/15 11:38	150819L042
Parameter		<u>Result</u>	<u>RL</u>		DF	Qua	lifiers
Benzene		ND	0.50	0	1.00		
Toluene		ND	0.5	0	1.00		
Ethylbenzene		ND	0.5	0	1.00		
o-Xylene		ND	0.50	0	1.00		
p/m-Xylene		ND	0.5	0	1.00		
Xylenes (total)		ND	0.5	0	1.00		
Methyl-t-Butyl Ether (MTBE)		ND	0.5	0	1.00		
Tert-Butyl Alcohol (TBA)		ND	5.0		1.00		
Diisopropyl Ether (DIPE)		ND	0.50	0	1.00		
Ethyl-t-Butyl Ether (ETBE)		ND	0.5	0	1.00		
Tert-Amyl-Methyl Ether (TAME)		ND	0.5	0	1.00		
1,2-Dibromoethane		ND	0.50	0	1.00		
1,2-Dichloroethane		ND	0.50	0	1.00		
Surrogate		<u>Rec. (%)</u>	Cor	ntrol Limits	<u>Qualifiers</u>		
1,4-Bromofluorobenzene		99	68-	120			
Dibromofluoromethane		99	80-	127			
1,2-Dichloroethane-d4		95	80-	128			
Toluene-d8		97	80-	120			

🔅 eurofins

Quality Control - Spike/Spike Duplicate

Cardno ERI				Dat	te Received:					08/15/15	
601 North McDowell Blvd.					ork Order:				15-08-1117		
Petaluma, CA 94954-2312	a, CA 94954-2312				eparation:				EPA 5030C		
				Me	Method:				EPA 8015B (M)		
Project: ExxonMobil 99105/0							Page 1	of 5			
Quality Control Sample ID	Туре		Matrix		Instrument	Date Prepared	Date Ana	lyzed	MS/MSD Bate	ch Number	
W-MW2	Sample		Aqueous	5	GC 22	08/26/15	08/26/15	13:09	150826S017		
W-MW2	Matrix Spike		Aqueous	5	GC 22	08/26/15	08/26/15	13:42	150826S017		
W-MW2	Matrix Spike	Duplicate	Aqueous	5	GC 22	08/26/15	08/26/15	14:15	150826S017		
Parameter	<u>Sample</u> <u>Conc.</u>	<u>Spike</u> Added	<u>MS</u> Conc.	<u>MS</u> %Re	<u>MSD</u> c. <u>Conc.</u>	<u>MSD</u> %Rec.	<u>%Rec. CL</u>	<u>RPD</u>	RPD CL	Qualifiers	
TPH as Gasoline	ND	2000	1905	95	1861	93	68-122	2	0-18		

🔅 eurofins

Quality Control - Spike/Spike Duplicate

Cardno ERI				Dat	e Received:					08/15/15	
601 North McDowell Blvd.				Wo	rk Order:				15	5-08-1117	
Petaluma, CA 94954-2312	CA 94954-2312				Preparation:				EPA 5030C		
					Method:				EPA 8015B (M)		
Project: ExxonMobil 99105/0)22783C								Page 2	of 5	
Quality Control Sample ID	Туре		Matrix	I	Instrument	Date Prepared	Date Anal	lyzed	MS/MSD Bat	ch Number	
15-08-1496-1	Sample		Aqueous	; (GC 22	08/27/15	08/27/15	12:29	150827S003		
15-08-1496-1	Matrix Spike		Aqueous	5 (GC 22	08/27/15	08/27/15	13:02	150827S003		
15-08-1496-1	Matrix Spike	Duplicate	Aqueous	6 (GC 22	08/27/15	08/27/15	13:35	150827S003		
Parameter	<u>Sample</u> Conc.	<u>Spike</u> Added	<u>MS</u> Conc.	<u>MS</u> %Rec	<u>MSD</u> <u>Conc.</u>	<u>MSD</u> %Rec.	<u>%Rec. CL</u>	<u>RPD</u>	RPD CL	<u>Qualifiers</u>	
TPH as Gasoline	186.4	2000	2074	94	2041	93	68-122	2	0-18		

Cardno ERI	Date Received:	08/15/15
601 North McDowell Blvd.	Work Order:	15-08-1117
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
Project: ExxonMobil 99105/022783C		Page 3 of 5

Quality Control Sample ID	Туре		Matrix		nstrument	Date Prepared	Date Ana	lyzed	MS/MSD Ba	tch Number
15-08-1019-7	Sample		Aqueou	IS	GC/MS L	08/17/15	08/17/15	11:30	150817S002	2
15-08-1019-7	Matrix Spike		Aqueou	IS	GC/MS L	08/17/15	08/17/15	12:28	150817S002	2
15-08-1019-7	Matrix Spike	Duplicate	Aqueou	IS	GC/MS L	08/17/15	08/17/15	12:57	150817S002	2
Parameter	<u>Sample</u> Conc.	<u>Spike</u> Added	<u>MS</u> Conc.	<u>MS</u> %Red	<u>MSD</u> <u>Conc.</u>	<u>MSD</u> %Rec.	%Rec. CL	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Benzene	ND	10.00	10.59	106	11.11	111	75-125	5	0-20	
Toluene	ND	10.00	10.53	105	11.14	111	75-125	6	0-20	
Ethylbenzene	ND	10.00	10.35	104	10.70	107	75-125	3	0-20	
o-Xylene	ND	10.00	10.01	100	10.40	104	75-127	4	0-20	
p/m-Xylene	ND	20.00	20.70	103	21.53	108	75-125	4	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	10.21	102	10.54	105	71-131	3	0-20	
Tert-Butyl Alcohol (TBA)	ND	50.00	48.21	96	56.16	112	20-180	15	0-40	
Diisopropyl Ether (DIPE)	ND	10.00	10.65	107	11.07	111	64-136	4	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	9.860	99	10.29	103	73-133	4	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	9.177	92	9.609	96	75-125	5	0-20	
1,2-Dibromoethane	ND	10.00	10.11	101	10.43	104	75-126	3	0-20	
1,2-Dichloroethane	3.007	10.00	13.43	104	13.90	109	75-127	3	0-20	

Cardno ERI	Date Received:	08/15/15
601 North McDowell Blvd.	Work Order:	15-08-1117
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
Project: ExxonMobil 99105/022783C		Page 4 of 5

Quality Control Sample ID	Туре		Matrix	In	strument	Date Prepared	Date Ana	lyzed	MS/MSD Ba	atch Number
15-08-0872-1	Sample		Aqueou	ıs G	C/MS L	08/17/15	08/17/15	22:21	150817S02	6
15-08-0872-1	Matrix Spike		Aqueou	ıs G	C/MS L	08/17/15	08/17/15	22:50	150817S02	6
15-08-0872-1	Matrix Spike	Duplicate	Aqueou	ıs G	C/MS L	08/17/15	08/17/15	23:19	150817S02	6
Parameter	<u>Sample</u> <u>Conc.</u>	<u>Spike</u> Added	<u>MS</u> Conc.	<u>MS</u> %Rec.	<u>MSD</u> Conc.	<u>MSD</u> %Rec.	%Rec. CL	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Benzene	ND	10.00	11.58	116	11.68	117	75-125	1	0-20	
Toluene	ND	10.00	11.59	116	11.72	117	75-125	1	0-20	
Ethylbenzene	ND	10.00	11.30	113	11.51	115	75-125	2	0-20	
o-Xylene	ND	10.00	10.89	109	11.05	110	75-127	1	0-20	
p/m-Xylene	ND	20.00	22.58	113	22.95	115	75-125	2	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	10.00	11.50	115	11.37	114	71-131	1	0-20	
Tert-Butyl Alcohol (TBA)	ND	50.00	46.73	93	48.06	96	20-180	3	0-40	
Diisopropyl Ether (DIPE)	ND	10.00	12.10	121	12.02	120	64-136	1	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	10.00	10.48	105	10.70	107	73-133	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	ND	10.00	8.856	89	9.223	92	75-125	4	0-20	
1,2-Dibromoethane	ND	10.00	10.73	107	10.86	109	75-126	1	0-20	
1,2-Dichloroethane	ND	10.00	11.46	115	11.39	114	75-127	1	0-20	

Cardno ERI	Date Received:	08/15/15
601 North McDowell Blvd.	Work Order:	15-08-1117
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
Project: ExxonMobil 99105/022783C		Page 5 of 5

Quality Control Sample ID	Туре		Matrix	In	strument	Date Prepared	Date Ana	lyzed	MS/MSD Ba	tch Number
15-08-1276-4	Sample		Aqueou	is G	C/MS L	08/19/15	08/19/15	12:52	150819S00	5
15-08-1276-4	Matrix Spike		Aqueou	is G	C/MS L	08/19/15	08/19/15	14:52	1508195005	5
15-08-1276-4	Matrix Spike	Duplicate	Aqueou	is G	C/MS L	08/19/15	08/19/15	15:22	150819S005	5
Parameter	<u>Sample</u> <u>Conc.</u>	<u>Spike</u> Added	<u>MS</u> Conc.	<u>MS</u> <u>%Rec.</u>	<u>MSD</u> Conc.	<u>MSD</u> %Rec.	<u>%Rec. CL</u>	<u>RPD</u>	<u>RPD CL</u>	<u>Qualifiers</u>
Benzene	ND	80.00	81.34	102	83.20	104	75-125	2	0-20	
Toluene	ND	80.00	78.60	98	82.10	103	75-125	4	0-20	
Ethylbenzene	ND	80.00	84.10	105	86.66	108	75-125	3	0-20	
o-Xylene	ND	80.00	81.58	102	84.69	106	75-127	4	0-20	
p/m-Xylene	ND	160.0	165.4	103	171.5	107	75-125	4	0-20	
Methyl-t-Butyl Ether (MTBE)	ND	80.00	65.21	82	49.79	62	71-131	27	0-20	HX,BA
Tert-Butyl Alcohol (TBA)	ND	400.0	957.1	239	1128	282	20-180	16	0-40	HX
Diisopropyl Ether (DIPE)	ND	80.00	87.86	110	86.46	108	64-136	2	0-20	
Ethyl-t-Butyl Ether (ETBE)	ND	80.00	39.38	49	22.21	28	73-133	56	0-20	HX,BA
Tert-Amyl-Methyl Ether (TAME)	ND	80.00	26.26	33	13.37	17	75-125	65	0-20	HX,BA
1,2-Dibromoethane	ND	80.00	83.31	104	83.82	105	75-126	1	0-20	
1,2-Dichloroethane	ND	80.00	84.44	106	87.36	109	75-127	3	0-20	

099-15-304-1140	LCS	Aqueous	GC 47	08/18/15	08/19/15 01.06	150818B09
Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
Project: ExxonMobil 9910	5/022783C					Page 1 of 6
			Method:			EPA 8015B (M)
Petaluma, CA 94954-2312	2		Preparation	1:		EPA 3510C
601 North McDowell Blvd.			Work Order	r:		15-08-1117
Cardno ERI			Date Recei	ved:		08/15/15

099-10-304-1140	L03	Aqu	eous	66 47	00/10/13	00/19	/13 01.00	130010009	
099-15-304-1140	LCSD	Aqu	eous	GC 47	08/18/15	08/19	/15 01:23	150818B09	
Parameter	Spike Added	LCS Conc.	<u>LCS</u> <u>%Rec.</u>	LCSD Conc.	LCSD %Rec.	<u>%Rec. CL</u>	RPD	RPD CL	<u>Qualifiers</u>
TPH as Diesel	2000	2078	104	2137	107	75-117	3	0-13	



Cardno ERI	
601 North McDowell Blvd.	

Petaluma, CA 94954-2312

Date Received:	08/15/15
Work Order:	15-08-1117
Preparation:	EPA 5030C
Method:	EPA 8015B (M)
	Page 2 of 6

Project: ExxonMobil 99105/022783C

Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed	LCS Batch Number
099-12-436-10292	LCS	Aqueous	GC 22	08/26/15	08/26/15 12:02	150826L050
Parameter		Spike Added	Conc. Recover	red LCS %R	<u>ec. %Rec.</u>	CL Qualifiers
TPH as Gasoline		2000	2014	101	78-120)





Cardno ERI	Date Received:	08/15/15
601 North McDowell Blvd.	Work Order:	15-08-1117
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8015B (M)
Project: ExxonMobil 99105/022783C		Page 3 of 6

Quality Control Sample ID	Туре	Matrix	Instrument	Date Prepared	Date Analyzed L	CS Batch Number
099-12-436-10293	LCS	Aqueous	GC 22	08/27/15	08/27/15 10:49 1	50827L018
Parameter		Spike Added	Conc. Recover	red LCS %R	ec. <u>%Rec. C</u>	<u>Qualifiers</u>
TPH as Gasoline		2000	1937	97	78-120	



Return to Contents



0						
1.2	C	CI		n	~	
Ca	13	6	CI		6	С.

Cardno ERI	Date Received:	08/15/15
601 North McDowell Blvd.	Work Order:	15-08-1117
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
Project: ExxonMobil 99105/022783C		Page 4 of 6

Quality Control Sample ID	Туре	Matrix	Instrume	nt Date Prep	pared Date Ana	lyzed LCS Bate	ch Number
099-12-884-1275	LCS	Aque	ous GC/MS	_ 08/17/15	08/17/15	21:15 150817L	030
Parameter		Spike Added	Conc. Recovere	d LCS %Rec.	<u>%Rec. CL</u>	ME CL	<u>Qualifiers</u>
Benzene		10.00	10.42	104	80-120	73-127	
Toluene		10.00	10.54	105	80-120	73-127	
Ethylbenzene		10.00	10.35	104	80-120	73-127	
o-Xylene		10.00	9.996	100	80-120	73-127	
p/m-Xylene		20.00	20.82	104	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)		10.00	10.34	103	75-123	67-131	
Tert-Butyl Alcohol (TBA)		50.00	54.78	110	80-120	73-127	
Diisopropyl Ether (DIPE)		10.00	11.17	112	73-121	65-129	
Ethyl-t-Butyl Ether (ETBE)		10.00	9.848	98	76-124	68-132	
Tert-Amyl-Methyl Ether (TAME)		10.00	8.146	81	80-120	73-127	
1,2-Dibromoethane		10.00	9.791	98	80-120	73-127	
1,2-Dichloroethane		10.00	10.20	102	80-122	73-129	

Total number of LCS compounds: 12

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass



Cardno ERI	Date Received:	08/15/15
601 North McDowell Blvd.	Work Order:	15-08-1117
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
Project: ExxonMobil 99105/022783C		Page 5 of 6

Quality Control Sample ID	Туре	Matrix	a Instru	ment Date F	Prepared Date Ana	lyzed LCS Bat	ch Number
099-12-884-1276	LCS	Aque	ous GC/N	IS L 08/17/	15 08/17/15	09:47 150817L	.057
Parameter		Spike Added	Conc. Recov	ered LCS %Rec.	<u>%Rec. CL</u>	ME CL	<u>Qualifiers</u>
Benzene		10.00	10.64	106	80-120	73-127	
Toluene		10.00	10.60	106	80-120	73-127	
Ethylbenzene		10.00	10.94	109	80-120	73-127	
o-Xylene		10.00	10.44	104	80-120	73-127	
p/m-Xylene		20.00	21.91	110	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)		10.00	9.548	95	75-123	67-131	
Tert-Butyl Alcohol (TBA)		50.00	53.14	106	80-120	73-127	
Diisopropyl Ether (DIPE)		10.00	10.38	104	73-121	65-129	
Ethyl-t-Butyl Ether (ETBE)		10.00	9.644	96	76-124	68-132	
Tert-Amyl-Methyl Ether (TAME)		10.00	8.948	89	80-120	73-127	
1,2-Dibromoethane		10.00	9.958	100	80-120	73-127	
1,2-Dichloroethane		10.00	10.06	101	80-122	73-129	

Total number of LCS compounds: 12

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass



Cardno ERI	Date Received:	08/15/15
601 North McDowell Blvd.	Work Order:	15-08-1117
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8260B
Project: ExxonMobil 99105/022783C		Page 6 of 6

Quality Control Sample ID	Туре	Matrix	a Instrumer	t Date Prep	ared Date Ana	lyzed LCS Bate	ch Number
099-12-884-1278	LCS	Aque	ous GC/MS L	08/19/15	08/19/15	10:57 150819L	042
Parameter		Spike Added	Conc. Recovered	LCS %Rec.	<u>%Rec. CL</u>	ME CL	<u>Qualifiers</u>
Benzene		10.00	9.362	94	80-120	73-127	
Toluene		10.00	9.454	95	80-120	73-127	
Ethylbenzene		10.00	10.36	104	80-120	73-127	
o-Xylene		10.00	10.28	103	80-120	73-127	
p/m-Xylene		20.00	20.87	104	80-120	73-127	
Methyl-t-Butyl Ether (MTBE)		10.00	9.043	90	75-123	67-131	
Tert-Butyl Alcohol (TBA)		50.00	55.73	111	80-120	73-127	
Diisopropyl Ether (DIPE)		10.00	9.630	96	73-121	65-129	
Ethyl-t-Butyl Ether (ETBE)		10.00	9.610	96	76-124	68-132	
Tert-Amyl-Methyl Ether (TAME)		10.00	8.626	86	80-120	73-127	
1,2-Dibromoethane		10.00	9.143	91	80-120	73-127	
1,2-Dichloroethane		10.00	9.292	93	80-122	73-129	
,				-		-	

Total number of LCS compounds: 12

Total number of ME compounds: 0

Total number of ME compounds allowed: 1

LCS ME CL validation result: Pass

Page 1 of 1



Calscience

Work Order: 15-08-1117

Method	Extraction	Chemist ID	<u>Instrument</u>	Analytical Location
EPA 8015B (M)	EPA 3510C	974	GC 47	1
EPA 8015B (M)	EPA 5030C	797	GC 22	2
EPA 8260B	EPA 5030C	316	GC/MS L	2
EPA 8260B	EPA 5030C	849	GC/MS L	2

Location 1: 7440 Lincoln Way, Garden Grove, CA 92841 Location 2: 7445 Lampson Avenue, Garden Grove, CA 92841

Glossary of Terms and Qualifiers

Work Order: 15-08-1117

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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.
В	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 stnds.
HO	High concentration matrix spike recovery out of limits
HT	Analytical value calculated using results from associated tests.
HX	Recovery of the Matrix Spike (MS) or Matrix Spike Duplicate (MSD) compound was out of control due to matrix interference. The associated LCS was in control.
IL	Relative percent difference out of control.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
JA	Analyte positively identified but quantitation is an estimate.
LD	Analyte presence was not confirmed by second column or GC/MS analysis.
LP	The LCS and/or LCSD recoveries for this analyte were above the upper control limit. The associated sample was non-detected. Therefore, the sample data was reported without further clarification.
LQ	LCS recovery above method control limits.
LR	LCS recovery below method control limits.
ND	Parameter not detected at the indicated reporting limit.
QO	Compound did not meet method-described identification guidelines. Identification was based on additional GC/MS characteristics.
RU	LCS Recovery Percentage is within Marginal Exceedance (ME) Control Limit range (+/- 4 SD from the mean).
SG	A silica gel cleanup procedure was performed.
SN	See applicable analysis comment.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture. All QC results are

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.

Eurofins Calscience I	nc.		Linco en Gr		•	92	84	1						714-8 14-894			4						1	E 5	Xon -08-1	M 11	0	b	il	
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	Itant Address															I	nvo	ice T	o: <u>D</u>	irect Bill Ca	ardno	ER							N	
	City/State/Zip																			reg Gurss										
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Sample ID	ield Point Name	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Methanol Sodium Disuttato	Sodium bisuriate HCI	NaOH U SO Blodio	H ₂ SO4 Plastic H ₂ SO4 Glass	HNO ₃	lce Other	None	Groundwater	Wastewater Drinking Mater	Siudge	Soil	Air Other (specify): Distilled Water	TPHd 80158*			BIEX 8260B	8260 see list		Ethanol	RUSH TAT (Pre-Schedule	5-day TAT	Standard 10-day TAT	ue Date of Report
1 WMW2	MW2	8/14/15	0300	8V/2A	x				≥		┢	1	x	2A	x		+			X	Г	x		2 00 X		Ш	R	ιά I	の X	<u> </u>
2 WMW3	мwз	8/14/15	0815	8V/2A					8	_	╈	╋	x	2A	x		\uparrow		╈	x		-	x	Ť,				\square	x	*****
3 WMW5	MW5	3/14/15	0830	8V/2A					_ ≥		T	1	x	2A	x		T		╈	x		x	_						Ŷ	<u></u>
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6 wmw8	MW8	8/14/15	0935	8V/2A	x				8				x	2A	x		Τ		T	×		-	x	x	1	Π		\square	x	
7 _{QCBB}	QCBB	13/14/15	0945	2V					2				x				Γ		Τ			н	01	. D						
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Comments/Special Instructions:	OXY's repo *Use silica-	Only inclu ort MTBE, D gel clean-up	IPE, TBA,	TAME, E	in re DB, E	port TBE,	1,2 1						PLEA	SE E-M/			F FI			boratory Tempera Sample (iture I	Upo	n Re				¥		N	<u></u>
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https://app.gso.com/Shipping/ShippingLabel Page 32 of 33



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

Use the "Print Label" button on this page to print the shipping label on a laser or inkjet printer. Securely attach this label to your package, do not cover the barcode.

Return to Contents

eurofins Calsci		SAMPLE RECEIPT	WORK ORDER	C	:00LER .TE: 08	<u> </u>	F <u>(</u>
TEMPERATURE: (Criteria: 0. Thermometer ID: SC5 (CF:-0.	.0°C – 6.(.2°C); Ter erature c erature c sient temp	nperature (w/o CF): <u>2.7</u> riteria (PM/APM contacted b riteria but received on ice/ch	°C (w/ CF): <u>2.</u> y:) illed on same day c		f Blank Check	□ Sampl ed by: <u>6</u>	
CUSTODY SEAL: Cooler Present and Sample(s) Present and		 Present but Not Intact Present but Not Intact 	□ Not Present	□ N/A □ N/A		ed by: _ 6 ed by: _ 5	والمحاور والمحجود والمعين
□ No analysis requested Sampler's name indicated on Sample container label(s) cor Sample container(s) intact an Proper containers for analyse Sufficient volume/mass for an Samples received within hold Aqueous samples for certa □ pH □ Residual Chlorin Proper preservation chemical Unpreserved aqueous san □ Volatile Organics □ To Container(s) for certain analyse	omplete pling time COC nsistent w id in good es reques nalyses re ing time ain analys ne Dis l(s) noted nple(s) re otal Meta sis free o issolved (500) D F	 Matrix □ Number of contribution No relinquished □ No relinquish No relinquished □ No relinquish No relinquished □ No relinquish I condition I c	ontainers ed date □ No relin e holding time d Oxygen tainer ved Oxygen (SM 45 lydrogen Sulfide (H	nquished time 		No	
CONTAINER TYPE: Aqueous: □ VOA □ VOAh □ 125PBznna □ 250AGB □ □ 500PB □ 1AGB □ 1AGB Solid: □ 4ozCGJ □ 8ozCGJ Air: □ Tedlar™ □ Canister Container: A = Amber, B = Bottle Preservative: b = buffered, f = fil	□ 250CGE na₂ □ 1, □ 16oz □ Sorber e, C = Cle	3 □ 250CGB s □ 250PB □ AGB s □ 1PB □ 1PB na □ CGJ □ Sleeve () □ E nt Tube □ PUF □ ar, E = Envelope, G = Glass, J	□ 125AGB □ 125A □ 250PBn □ 500AC □ □ EnCores [®] () □ Other Matrix (= Jar, P = Plastic, and	GB [2 500 Å G □] TerraCores [©]): d Z = Ziploc/Re	AGBp GJ 50 50 50 50 50 50 50 50 50 5	125PB)AGJ s] D Bag	

APPENDIX D

WASTE DISPOSAL DOCUMENTATION

NON-HAZARDOUS WASTE MANIFEST

NON-HAZARDOUS WASTE MANIFEST 1. Generator's US EPA ID No. Manifest Document No. Manifest Document No. 3. Generator's Name and Mailing address ExxonMobil Environmental Services/Manpower Contractor 3700 W. 190 th St. NTO #1106, Torrance, CA 90504 4. Generator's Phone: (310) 212 2938 6301 Sal Pasto Cakiand EM(99105) Manifest Document No.	2. Page 1
3700 W. 190 St. NTO #1100, TOHAICE, CA 90304	F of
4. Generator's Phone: (310) 212 2938 E M(99105)	
	-
	-766-2000
B. Transporter 1 Phone	
7. Transporter 2 Company Name 8. US EPA ID Number C. State Transporter's ID	
D. Transporter 2 Phone	
9. Designated Facility Name and Site Address 10. US EPA ID Number E, State Facility's ID	
INSTRAT INC.	
1105 C. AIRPORT ROAD	
RIO VISTA, CA 94571 530-	753-1829
11. WASTE DESCRIPTION 12. Containers 13.	14.
Total	Unit Wt./Vol.
No. Type Quantity	W(./VOI.
	C
NON-HAZARDOUS PURGE WATER 01 Truiter 69	S GAL
G b.	
G b. E	
♠	
R 0. 022753Cx	
1 P Kan	
G. Additional Descriptions for Materials Listed Above	ed Above
1 9 16 7 St.	
ho 8 al 9/28/15	
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	
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.	
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.	Date
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Printed/Typed Name Oh behats & Signature Excon Mobil Azer R. Mardanoy Signature	Month Day Year 08 14 15 Date
Printed/Typed Name Oh behats & Signature Excon Mobil Azer R. Mardanoy Signature	Month Day Year D 8 14 75 Date Month Day Year
Printed/Typed Name Oh behats & Signature Excon Mobil Azer R. Mardanoy Signature	Month Day Year D 8 14 15 Date Month Day Year O 9 18 15
Printed/Typed Name Oh behats & Signature Excon Mobil Azer R. Mardanoy Signature	Month Day Year D 8 14 75 Date Month Day Year O 9 78 75 Date
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NON-HAZARDOUS WASTE

