

ExxonMobil
Environmental Services Company
4096 Piedmont Avenue #194
Oakland, California 94611
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510 547 8706 Facsimile

Jennifer C. Sedlachek
Project Manager

ExxonMobil

RECEIVED

8:24 am, Mar 08, 2012

**Alameda County
Environmental Health**

February 29, 2012

Ms. Barbara Jakub
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. Jakub:

Attached for your review and comment is a copy of the letter report entitled *Groundwater Monitoring Report, First Quarter 2012*, dated February 29, 2012, for the above-referenced site. The report was prepared by Cardno ERI of Petaluma, California, and details activities at the subject site.

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

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

Sincerely,



Jennifer C. Sedlachek
Project Manager

Attachment: Cardno ERI's *Groundwater Monitoring Report, First Quarter 2012*, dated February 29, 2012

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

w/o attachment
Paula Sime, Cardno ERI



February 29, 2012
Cardno ERI 2783C.Q121

Ms. Jennifer C. Sedlachek
ExxonMobil Environmental Services
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SUBJECT **Groundwater Monitoring Report, First Quarter 2012**
Former Mobil Service Station 99105
6301 San Pablo Avenue, Oakland, California

INTRODUCTION

At the request of ExxonMobil Environmental Services (EMES), on behalf of ExxonMobil Oil Corporation, Cardno ERI performed first quarter 2012 groundwater monitoring and sampling activities at the subject site. Relevant plates, 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 dates:	01/18/12, 01/27/12
Wells gauged and sampled:	MW2, MW3, MW5
Presence of NAPL:	Not observed
Laboratory:	Calscience Environmental Laboratories, Inc. Garden Grove, California
Analyses performed:	EPA Method 8015B TPHd, TPHg EPA Method 8260B BTEX, MTBE, TAME, TBA, DIPE, EDB, 1,2-DCA, ethanol
Waste disposal:	128 gallons and 86 gallons purge and decon water delivered to Instrat, Inc. of Rio Vista, California, on 01/19/12 and 02/07/12, respectively.

CONCLUSION

Samples for TPHd analysis were inadvertently not collected during the monitoring and sampling event conducted on January 18, 2012. Subsequently, on January 27, 2012, Cardno ERI returned to the site to collect samples for TPHd analysis. TPHd results are presented on Table 1A.

February 29, 2012
Cardno ERI 2783C.Q121 Former Mobil Service Station 99105, Oakland, California

Maximum hydrocarbon concentrations were reported from well MW5. Reported concentrations at the site show stable or declining trends.

The groundwater flow direction was towards the northwest with a hydraulic gradient of 0.05 during the first quarter.

RECOMMENDATIONS

Cardno ERI recommends implementing the work proposed in the *Work Plan for Soil Borings and Soil Vapor Sampling*, dated September 16, 2011, and is currently negotiating off-site access to conduct the work.

The site no longer has an operating UST system; therefore, Cardno ERI recommends discontinuing ethanol analysis during future sampling events.

LIMITATIONS

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

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

Please contact Ms. Paula Sime, Cardno ERI's project manager for this site, at paula.sime@cardno.com or at (707) 766-2000 with any questions regarding this report.

Sincerely,


SCANNED
IMAGE

Jennifer L. Lacy
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for Cardno ERI
707 766 2000
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SCANNED
IMAGE

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February 29, 2012
Cardno ERI 2783C.Q121 Former Mobil Service Station 99105, Oakland, California

Enclosures:

Acronym List

Plate 1	Site Vicinity Map
Plate 2	Select Analytical Results
Plate 3	Groundwater Elevation Map
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Table 1B	Additional Cumulative Groundwater Monitoring and Sampling Data
Table 2	Well Construction Details
Appendix A	Groundwater Sampling Protocol
Appendix B	Field Notes
Appendix C	Laboratory Analytical Reports and Chain-of-Custody Records
Appendix D	Waste Disposal Documentation

cc: Barbara Jakub, Alameda County Health Care Services Agency, 1131 Harbor Bay Parkway, 2nd Floor,
Alameda, California, 94502

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

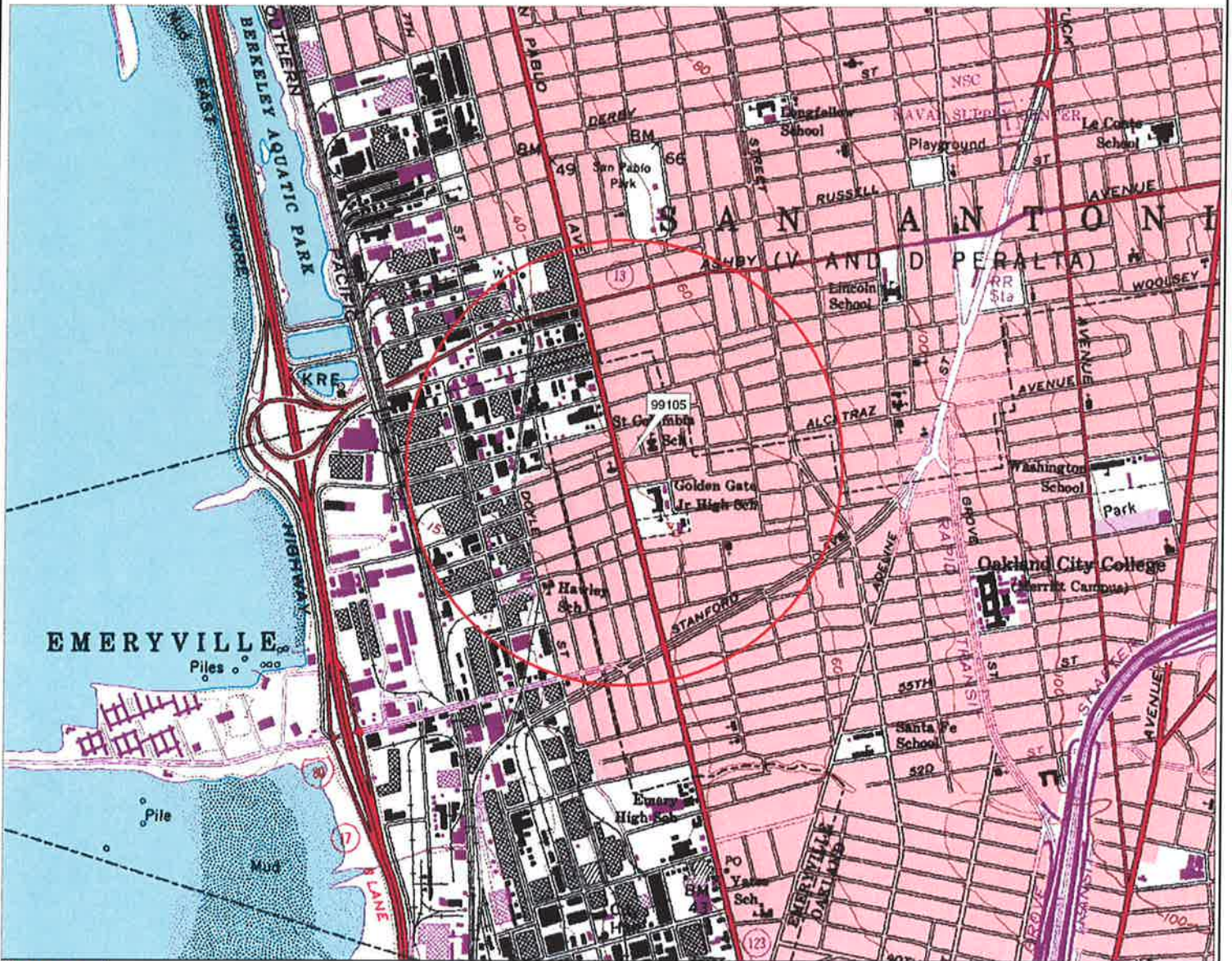
On Dan and Nathan Lam, 200 El Dorado Terrace, San Francisco, California, 94112

February 29, 2012

Cardno ERI 2783C.Q121 Former Mobil Service Station 99105, Oakland, California

ACRONYM LIST

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



DELORME

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FN 2783TOPO

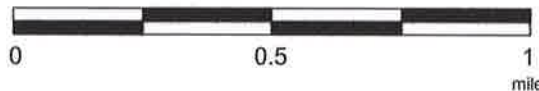
EXPLANATION



1/2-mile radius circle



APPROXIMATE SCALE



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



SITE VICINITY MAP
FORMER MOBIL SERVICE STATION 99105
6301 San Pablo Avenue
Oakland, California

PROJECT NO.
2783
PLATE
1

Analyte Concentrations in ug/L
 Sampled January 18 and 27, 2012

- Total Petroleum Hydrocarbons as diesel
- Total Petroleum Hydrocarbons as gasoline
- Benzene
- Methyl Tertiary Butyl Ether

- < Less Than the Stated Laboratory Reporting Limit
- ug/L Micrograms per Liter
- NA Not Analyzed
- g Chromatographic pattern does not match that of the specified standard.

NOTE:
 Sampled for TPHd analysis collected on January 27, 2012



APPROXIMATE SCALE



FN 2783 12 1QTR QM



SELECT ANALYTICAL RESULTS January 18 and 27, 2012

FORMER MOBIL SERVICE STATION 99105
 6301 San Pablo Avenue
 Oakland, California

EXPLANATION

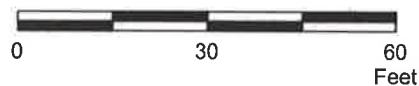
- MW5 Groundwater Monitoring Well
- MP6 Destroyed Observation Well

MW4 Destroyed Groundwater Monitoring Well

PROJECT NO.
 2783
 PLATE
 2



APPROXIMATE SCALE



FN 2783 12 1QTR QM



GROUNDWATER ELEVATION MAP
January 18, 2012
FORMER MOBIL SERVICE STATION 99105
6301 San Pablo Avenue
Oakland, California

EXPLANATION

- MW5
Groundwater Monitoring Well
- 32.40
Groundwater elevation in feet;
datum is mean sea level
- MP6
Destroyed Observation Well

MW4
Destroyed Groundwater Monitoring Well

32.0----- Line of Equal Groundwater Elevation;
datum is mean sea level

PROJECT NO.

2783

PLATE

3

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California
(Page 1 of 5)

Well ID	Sampling Date	TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	TPHd (µg/L)	TPHg (µg/L)	MTBE 8020/8021 (µg/L)	MTBE 8240/8260 (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
TW1	01/04/96	---	6.00	---	No	700	ND	---	---	ND	ND	ND	ND
WW1	01/04/96	---	3.00	---	No	---	ND	---	---	ND	ND	ND	ND
MW1	03/14/96	32.79	4.50	28.29	No	450	610	---	---	0.75	0.54	1.5	59
MW1	05/21/96	32.79	5.64	27.15	No	ND	ND	---	---	ND	ND	ND	ND
MW1	08/13/96	32.79	9.76	23.03	No	ND	ND	---	---	ND	ND	ND	ND
MW1	11/08/96	32.79	10.24	22.55	No	ND	ND	ND	---	ND	0.92	ND	2.1
MW1	01/31/97	32.79	3.83	28.96	No	ND	ND	2.6	ND	ND	0.85	ND	ND
MW1	04/22/97	32.79	9.14	23.65	No	ND	ND	ND	---	ND	ND	ND	ND
MW1	07/29/97	a 32.79	10.18	22.61	No	60e	ND	36	---	0.84	0.95	ND	1.6
MW1	10/09/97	a 32.79	10.46	22.33	No	56e	ND	ND	---	ND	ND	ND	ND
MW1	01/23/98	a 32.79	3.95	28.84	No	33	ND	ND	---	ND	ND	ND	ND
MW1	04/22/98	32.79	5.33	27.46	No	ND	ND	ND	---	ND	ND	ND	ND
MW1	07/21/98	32.79	9.17	23.62	No	---	ND	ND	---	ND	ND	ND	ND
MW1	10/20/98	32.79	10.41	22.38	No	---	ND	ND	---	ND	ND	ND	ND
MW1	01/27/99	32.79	5.51	27.28	No	---	ND	ND	---	ND	ND	ND	ND
MW1	Apr-99	Destroyed during construction activities.											
MW2	03/14/96	32.80	4.51	28.29	No	250	560	---	---	2.0	0.96	4.3	11
MW2	05/21/96	32.80	5.65	27.15	No	560	730	---	---	5.1	1.4	6.7	5.9
MW2	08/13/96	32.80	10.14	22.66	No	380b	490	---	---	25	3.5	7.2	13
MW2	11/08/96	32.80	10.70	22.10	No	160d	520	6.1	---	80	2.7	14	66
MW2	01/31/97	32.80	3.84	28.96	No	130b	74	ND	---	ND	ND	ND	ND
MW2	04/22/97	32.80	9.61	23.19	No	430	260	ND	---	2.7	ND	2.5	ND
MW2	07/29/97	a 32.80	10.53	22.27	No	150d	320	ND	---	28	1.2	10	ND
MW2	10/09/97	a 32.80	10.87	21.93	No	160b	460	2.6	---	43	2.8	2.0	2.6
MW2	01/23/98	a 32.80	3.75	29.05	No	54	ND	ND	---	ND	ND	ND	ND
MW2	04/22/98	32.80	5.36	27.44	No	540	180	ND	---	1.2	0.3	0.4	ND
MW2	07/21/98	32.80	9.55	23.25	No	---	80	ND	---	8.9	2.1	0.6	2.5
MW2	10/20/98	32.80	10.75	22.05	No	---	50	ND	---	0.8	0.7	ND	0.8
MW2	01/27/99	32.80	5.53	27.27	No	---	ND	ND	---	0.6	ND	ND	ND
MW2	07/27/99	32.80	6.20	26.60	No	---	ND	ND	---	ND	0.6	ND	ND
MW2	12/08/99	32.80	9.98	22.82	No	---	ND	ND	---	1.2	0.43	ND	ND
MW2	10/25/00	39.34	11.30	28.04	No	---	<20	<0.30	---	2.0	0.59	0.46	1.3
MW2	01/15/01	39.34	9.41	29.93	No	---	<20	<0.30	---	<0.20	0.46	<0.20	<0.60
MW2	04/10/01	39.34	6.16	33.18	No	---	23	<1.0	---	0.28	<0.20	<0.20	<0.60
MW2	07/24/01	39.34	10.70	28.64	No	---	<50	<0.30	---	<0.20	0.93	<0.20	0.82

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California
(Page 2 of 5)

Well ID	Sampling Date	TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	TPHd (µg/L)	TPHg (µg/L)	MTBE 8020/8021 (µg/L)	MTBE 8240/8260 (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW2	11/27/01	39.34	10.15	29.19	No	---	<50	<0.30	---	1.2	0.22	<0.20	<0.60
MW2	01/18/02	41.99	5.46	36.53	No	---	<50.0	1.40	---	<0.50	<0.50	<0.50	<0.50
MW2	04/10/02	41.99	6.48	35.51	No	---	<50.0	1.80	---	<0.50	<0.50	<0.50	<0.50
MW2	07/12/02	41.99	10.45	31.54	No	---	<50.0	<0.50	---	<0.50	<0.50	<0.50	<0.50
MW2	10/14/02	41.99	11.46	30.53	No	---	<50.0	<0.5	---	<0.5	4.1	0.6	4.0
MW2	01/20/03	41.99	5.39	36.60	No	---	<50.0	0.6	---	<0.50	<0.50	<0.50	<0.50
MW2	04/28/03	41.99	5.87	36.12	No	---	<50.0	<0.50	---	<0.50	<0.50	<0.50	<0.50
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 sampled 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 resurveyed.										<0.50
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	---	---	---	---	---	---	---
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
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	24.6

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California
(Page 3 of 5)

Well ID	Sampling Date	TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	TPHd (µg/L)	TPHg (µg/L)	MTBE 8020/8021 (µg/L)	MTBE 8240/8260 (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
MW3	04/10/02	41.71	10.14	31.57	No	---	916	11.2	---	35.1	3.00	22.5	13.8
MW3	07/12/02	41.71	11.34	30.37	No	---	2,330	15.4	---	60.5	2.90	39.8	50.9
MW3	10/14/02	41.71	12.10	29.61	No	---	2,550	<0.5	---	36.9	3.8	20.3	48.0
MW3	01/20/03	41.71	9.20	32.51	No	---	1,750	10.7	---	20.4	304.0	60.7	22.0
MW3	04/28/03	41.71	9.37	32.34	No	---	2,730	11.2	---	10.0	2.7	42.7	20.1
MW3	07/15/03	41.71	11.15	30.56	No	---	1,790	5.6	---	68.8	3.6	39.0	44.7
MW3	10/08/03	41.71	11.89	29.82	No	---	1,320	7.1	---	35.1	4.0	23.6	31.8
MW3	01/15/04	41.71	9.16	32.55	No	---	791	3.4	---	24.4	1.3	40.1	14.7
MW3	Well not sampled from 2004 to 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 resurveyed.										
MW3	09/14/11	42.18	11.37	30.81	No	270g	1,200	---	<0.50	18	0.95	1.7	1.3
MW3	01/18/12	42.18	12.11	30.07	No	---	910g	---	<0.50	0.89	<0.50	<0.50	0.88
MW3	01/27/12	42.18	10.18	32.00	No	1,000g	---	---	---	---	---	---	---
MW4	03/14/96	31.50	4.92	26.58	No	3,500	12,000	---	---	2,200	140	880	2,000
MW4	05/21/96	31.50	8.60	22.90	No	4,200	11,000	---	---	1,700	ND	930	470
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	1,400
MW4	04/22/97	31.50	7.40	24.10	No	4,500	8,800	ND	---	950	ND	610	130
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	Destroyed during construction activities.											
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

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California
(Page 4 of 5)

Well ID	Sampling Date	TOC Elev. (feet)	DTW (feet)	GW Elev. (feet)	NAPL (feet)	TPHd (µg/L)	TPHg (µg/L)	MTBE 8020/8021 (µg/L)	MTBE 8240/8260 (µg/L)	B (µg/L)	T (µg/L)	E (µg/L)	X (µg/L)
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	Well not sampled from 2004 to 2010.												
MW5	09/17/10	41.59	9.99	31.60	No	5,700	6,600	---	<5.0	19	<5.0	16	1.4f
MW5	12/15/10	41.86	Well resurveyed.										
MW5	09/14/11	41.86	7.33	34.53	No	1,600g	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	---	---	---	---	---	---	---

Grab Groundwater Samples

AB1	03/05/98	---	---	---	---	---	1,600	ND	---	31	5.3	79	130
AB2	03/05/98	---	---	---	---	---	ND	ND	---	ND	2.9	0.9	5.7
AB3	03/05/98	---	---	---	---	---	6,800	230	---	680	100	1,500	2,300
AB4	03/05/98	---	---	---	---	---	8,500	ND	---	240	ND	260	720
AB6	03/05/98	---	---	---	---	---	12,000	ND	---	350	ND	310	100
AB9	03/05/98	---	---	---	---	---	1,000	ND	---	57	12	44	93
AB10	03/05/98	---	---	---	---	---	200	ND	---	3.0	1.2	3.2	2.8
AB11	03/05/98	---	---	---	---	---	ND	ND	---	ND	ND	ND	ND
AB12	03/05/98	---	---	---	---	---	8,800	37	---	660	50	630	940
AB13	03/05/98	---	---	---	---	---	210	ND	---	11	0.8	10	15
HA1	01/25/00	---	---	---	---	---	<500	<5.0	---	<0.3	<0.3	<0.3	<0.6
B1	11/18/10	---	---	---	---	---	---	---	---	---	---	---	---
B2	11/19/10	---	---	---	---	---	---	---	---	---	---	---	---
B3	11/19/10	---	---	---	---	<50	<50	---	<0.50	<0.50	<0.50	0.053f	0.21f
B4	11/19/10	---	---	---	---	---	---	---	---	---	---	---	---
B5	11/18/10	---	---	---	---	<50	<50	---	<0.50	<0.50	<0.50	0.047f	0.21f

TABLE 1A
CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA

Former Mobil Service Station 99105
 6301 San Pablo Avenue
 Oakland, California
 (Page 5 of 5)

Notes:	Adapted from ETIC's <i>Report of Groundwater Monitoring, Third Quarter 2010</i> .	
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.
a	=	Well sampled using no-purge method.
b	=	Diesel and unidentified hydrocarbons <C15.
c	=	Diesel and unidentified hydrocarbons <C15>C25.
d	=	Diesel and unidentified hydrocarbons >C20.
e	=	Unidentified hydrocarbons >C18.
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 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA
Former Mobil Service Station 99105
6301 San Pablo Avenue
Oakland, California
(Page 1 of 2)

Well ID	Sampling Date	DIPE (µg/L)	ETBE (µg/L)	TAME (µg/L)	TBA (µg/L)	1,2-DCA (µg/L)	EDB (µg/L)	Ethanol (µg/L)
TW1	01/04/96	---	---	---	---	---	---	---
WW1	01/04/96	---	---	---	---	---	---	---
MW1	03/14/96 - 01/27/99 Not analyzed for these analytes.							
MW1	Apr-99 Destroyed during construction activities.							
MW2	03/14/96 - 01/15/04 Not analyzed for these 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	---	---	---	---	---	---	---
MW3	03/14/96 - 01/15/04 Not analyzed for these ana Not analyzed for these 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	---	---	---	---	---	---	---
MW4	03/14/96 - 01/27/99 Not analyzed for these analytes.							
MW4	Apr-99 Destroyed during construction activities.							
MW5	10/25/00 - 01/15/04 Not analyzed for these 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	---	---	---	---	---	---	---

Grab Groundwater Samples

Not analyzed for these analytes prior to 2012.

B1	11/18/10	---	---	---	---	---	---	---
B3	11/19/10	---	---	---	---	8.7	---	---
B4	11/19/10	---	---	---	---	---	---	---
B5	11/18/10	---	---	---	---	0.099f	---	---

TABLE 1B
ADDITIONAL CUMULATIVE GROUNDWATER MONITORING AND SAMPLING DATA

Former Mobil Service Station 99105
 6301 San Pablo Avenue
 Oakland, California
 (Page 2 of 2)

Notes:	Adapted from ETIC's <i>Report of Groundwater Monitoring, Third Quarter 2010</i> .	
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.
a	=	Well sampled using no-purge method.
b	=	Diesel and unidentified hydrocarbons <C15.
c	=	Diesel and unidentified hydrocarbons <C15>C25.
d	=	Diesel and unidentified hydrocarbons >C20.
e	=	Unidentified hydrocarbons >C18.
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
Oakland, 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	20	10	4	5-20	0.010	4.5-21.5	#12 Sand
MW2	03/01/96	---	42.24	PVC	21.5	20	10	4	5-20	0.010	4.5-21.5	#12 Sand
MW3	03/01/96	---	42.18	PVC	21.5	20	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	20	10	4	5-20	0.010	4-21.5	#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
TW1	---	---	---	---	---	---	---	---	---	---	---	---
MP1	11/16/1998	1998	---	---	---	---	---	---	---	---	---	---
MP2	11/16/1998	1998	---	---	---	---	---	---	---	---	---	---
MP3	11/16/1998	1998	---	---	---	---	---	---	---	---	---	---
MP4	11/16/1998	1998	---	---	---	---	---	---	---	---	---	---
MP5	11/16/1998	1998	---	---	---	---	---	---	---	---	---	---
MP6	11/16/1998	1998	---	---	---	---	---	---	---	---	---	---
WW1	---	---	---	---	---	---	---	---	---	---	---	---

Notes:

- TOC = Top of casing.
- PVC = Polyvinyl chloride.
- = Not applicable/Not available.

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 NOTES

DAILY FIELD REPORT



PROJECT: 99105 JOB # + ACTIVITY: 2783
SUBJECT: GM DATE: 1-18-12
EQUIPMENT USED: _____ SHEET: 1 OF 1
NAME: SC PROJECT MNGR: _____

Onsite ~~0445~~ 0445 1185 0445-0500

Open 500

DTW 510-520

Purge 539-735

Sample 610-750

Sampled MW 2, 3, 5

Purge 108

Decan 20

128 Total

Offsite 800

DAILY FIELD REPORT



PROJECT: 49105 JOB # + ACTIVITY: 2783
SUBJECT: GM DATE: 1-27-12
EQUIPMENT USED: _____ SHEET: 1 OF 1
NAME: SC PROJECT MNGR: _____

Onsite 0530 H&S 530-545

Open ~~500~~

DTW ~~500~~

Purge

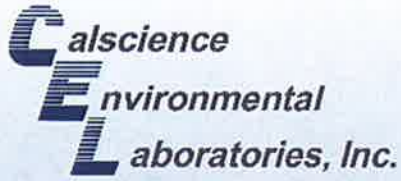
Sample

Sampled MW2, 3, 5

Offsite 730

APPENDIX C

**LABORATORY ANALYTICAL REPORTS
AND CHAIN-OF-CUSTODY RECORDS**



CALSCIENCE

WORK ORDER NUMBER: 12-01-1201

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

RECEIVED
FEB 03 2012

BY:.....

Analytical Report For

Client: Cardno ERI

Client Project Name: ExxonMobil 99105/022783C

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

Cecile L. deGuia

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

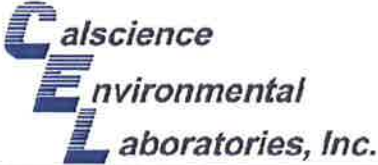
ResultLink ▶

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





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Work Order Number: 12-01-1201

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

Date Received: 01/20/12
Work Order No: 12-01-1201
Preparation: EPA 5030C
Method: EPA 8015B (M)

Project: ExxonMobil 99105/022783C

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-12-MW2	12-01-1201-2-E	01/18/12 06:10	Aqueous	GC 22	01/23/12	01/24/12 01:55	120123B01

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1	U	ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	80	38-134	

W-13-MW3	12-01-1201-3-E	01/18/12 06:50	Aqueous	GC 22	01/23/12	01/24/12 02:28	120123B01
----------	----------------	-------------------	---------	-------	----------	-------------------	-----------

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	910	50	1	HD	ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	89	38-134	

W-10-MW5	12-01-1201-4-E	01/18/12 07:50	Aqueous	GC 22	01/23/12	01/24/12 03:00	120123B01
----------	----------------	-------------------	---------	-------	----------	-------------------	-----------

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	3600	250	5	HD	ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	94	38-134	

Method Blank	099-12-436-7,041	N/A	Aqueous	GC 22	01/23/12	01/23/12 12:55	120123B01
--------------	------------------	-----	---------	-------	----------	-------------------	-----------

Parameter	Result	RL	DF	Qual	Units
TPH as Gasoline	ND	50	1	U	ug/L

Surrogates:	REC (%)	Control Limits	Qual
1,4-Bromofluorobenzene	89	38-134	

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

Return to Contents



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

Date Received: 01/20/12
Work Order No: 12-01-1201
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 99105/022783C

Page 1 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-12-MW2	12-01-1201-2-A	01/18/12 06:10	Aqueous	GC/MS L	01/25/12	01/26/12 06:34	120125L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1	U	Diisopropyl Ether (DIPE)	ND	0.50	1	U
Toluene	ND	0.50	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	U
Ethylbenzene	ND	0.50	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	U
Xylenes (total)	ND	0.50	1	U	Ethanol	ND	50	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	U	1,2-Dibromoethane	ND	0.50	1	U
Tert-Butyl Alcohol (TBA)	ND	5.0	1	U	1,2-Dichloroethane	ND	0.50	1	U
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,4-Bromofluorobenzene	93	68-120			Dibromofluoromethane	96	80-127		
1,2-Dichloroethane-d4	108	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
W-13-MW3	12-01-1201-3-A	01/18/12 06:50	Aqueous	GC/MS L	01/25/12	01/26/12 07:02	120125L02

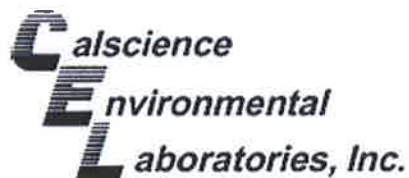
Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	0.89	0.50	1		Diisopropyl Ether (DIPE)	ND	0.50	1	U
Toluene	ND	0.50	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	U
Ethylbenzene	ND	0.50	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	U
Xylenes (total)	0.88	0.50	1		Ethanol	ND	50	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	U	1,2-Dibromoethane	ND	0.50	1	U
Tert-Butyl Alcohol (TBA)	23	5.0	1		1,2-Dichloroethane	ND	0.50	1	U
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,4-Bromofluorobenzene	100	68-120			Dibromofluoromethane	94	80-127		
1,2-Dichloroethane-d4	100	80-128			Toluene-d8	103	80-120		

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-10-MW5	12-01-1201-4-A	01/18/12 07:50	Aqueous	GC/MS L	01/25/12	01/26/12 07:30	120125L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	14	1.0	2		Diisopropyl Ether (DIPE)	ND	1.0	2	U
Toluene	ND	1.0	2	U	Ethyl-t-Butyl Ether (ETBE)	ND	1.0	2	U
Ethylbenzene	7.6	1.0	2		Tert-Amyl-Methyl Ether (TAME)	ND	1.0	2	U
Xylenes (total)	ND	1.0	2	U	Ethanol	ND	100	2	U
Methyl-t-Butyl Ether (MTBE)	ND	1.0	2	U	1,2-Dibromoethane	ND	1.0	2	U
Tert-Butyl Alcohol (TBA)	37	10	2		1,2-Dichloroethane	ND	1.0	2	U
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,4-Bromofluorobenzene	100	68-120			Dibromofluoromethane	95	80-127		
1,2-Dichloroethane-d4	100	80-128			Toluene-d8	106	80-120		

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

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Analytical Report



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

Date Received: 01/20/12
Work Order No: 12-01-1201
Preparation: EPA 5030C
Method: EPA 8260B
Units: ug/L

Project: ExxonMobil 99105/022783C

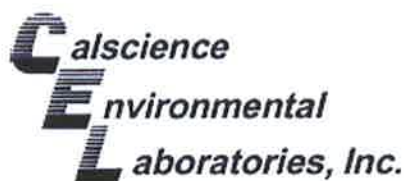
Page 2 of 2

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
Method Blank	099-12-884-765	N/A	Aqueous	GC/MS L	01/25/12	01/26/12 03:22	120125L02

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1	U	Diisopropyl Ether (DIPE)	ND	0.50	1	U
Toluene	ND	0.50	1	U	Ethyl-t-Butyl Ether (ETBE)	ND	0.50	1	U
Ethylbenzene	ND	0.50	1	U	Tert-Amyl-Methyl Ether (TAME)	ND	0.50	1	U
Xylenes (total)	ND	0.50	1	U	Ethanol	ND	50	1	U
Methyl-t-Butyl Ether (MTBE)	ND	0.50	1	U	1,2-Dibromoethane	ND	0.50	1	U
Tert-Butyl Alcohol (TBA)	ND	5.0	1	U	1,2-Dichloroethane	ND	0.50	1	U
<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>		<u>Surrogates:</u>	<u>REC (%)</u>	<u>Control Limits</u>	<u>Qual</u>	
1,4-Bromofluorobenzene	93	68-120			Dibromofluoromethane	95	80-127		
1,2-Dichloroethane-d4	101	80-128			Toluene-d8	99	80-120		

Return to Contents

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



Quality Control - Spike/Spike Duplicate



Cardno ERI	Date Received:	01/20/12
601 North McDowell Blvd.	Work Order No:	12-01-1201
Petaluma, CA 94954-2312	Preparation:	EPA 5030C
	Method:	EPA 8015B (M)

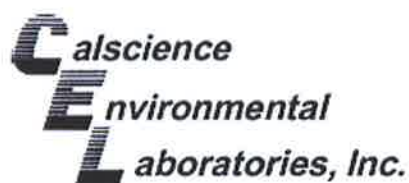
Project ExxonMobil 99105/022783C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-01-0663-3	Aqueous	GC 22	01/23/12	01/23/12	120123S01

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2000	95	94	68-122	2	0-18	

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RPD - Relative Percent Difference , CL - Control Limit



Quality Control - Spike/Spike Duplicate



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

Date Received: 01/20/12
Work Order No: 12-01-1201
Preparation: EPA 5030C
Method: EPA 8260B

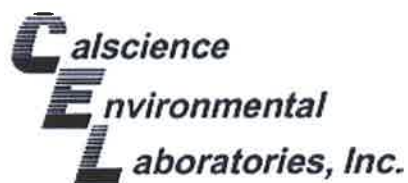
Project ExxonMobil 99105/022783C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
12-01-1196-14	Aqueous	GC/MS L	01/25/12	01/26/12	120125S02

Parameter	SPIKE ADDED	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	10.00	105	106	76-124	0	0-20	
Toluene	10.00	103	103	80-120	0	0-20	
Ethylbenzene	10.00	101	99	78-126	2	0-20	
Methyl-t-Butyl Ether (MTBE)	10.00	111	105	67-121	6	0-49	
Tert-Butyl Alcohol (TBA)	50.00	287	128	36-162	77	0-30	HX,BA
Diisopropyl Ether (DIPE)	10.00	108	105	60-138	3	0-45	
Ethyl-t-Butyl Ether (ETBE)	10.00	110	105	69-123	5	0-30	
Tert-Amyl-Methyl Ether (TAME)	10.00	105	102	65-120	2	0-20	
Ethanol	100.0	112	103	30-180	8	0-72	
1,2-Dibromoethane	10.00	103	98	80-120	5	0-20	
1,2-Dichloroethane	10.00	104	100	80-120	4	0-20	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

Date Received: N/A
Work Order No: 12-01-1201
Preparation: EPA 5030C
Method: EPA 8015B (M)

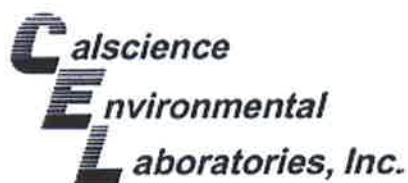
Project: ExxonMobil 99105/022783C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-436-7,041	Aqueous	GC 22	01/23/12	01/23/12	120123B01

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Gasoline	2000	97	98	78-120	2	0-10	

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit



Quality Control - LCS/LCS Duplicate



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

Date Received: N/A
Work Order No: 12-01-1201
Preparation: EPA 5030C
Method: EPA 8260B

Project: ExxonMobil 99105/022783C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number			
099-12-884-765	Aqueous	GC/MS L	01/25/12	01/26/12	120125L02			
Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	ME CL	RPD	RPD CL	Qualifiers
Benzene	10.00	98	96	80-120	73-127	2	0-20	
Toluene	10.00	97	96	80-120	73-127	2	0-20	
Ethylbenzene	10.00	94	93	80-120	73-127	0	0-20	
Methyl-t-Butyl Ether (MTBE)	10.00	100	97	69-123	60-132	3	0-20	
Tert-Butyl Alcohol (TBA)	50.00	100	94	63-123	53-133	6	0-20	
Diisopropyl Ether (DIPE)	10.00	100	99	59-137	46-150	1	0-37	
Ethyl-t-Butyl Ether (ETBE)	10.00	101	99	69-123	60-132	2	0-20	
Tert-Amyl-Methyl Ether (TAME)	10.00	100	96	70-120	62-128	4	0-20	
Ethanol	100.0	104	93	28-160	6-182	11	0-57	
1,2-Dibromoethane	10.00	97	96	79-121	72-128	2	0-20	
1,2-Dichloroethane	10.00	100	97	80-120	73-127	4	0-20	

Total number of LCS compounds : 11
 Total number of ME compounds : 0
 Total number of ME compounds allowed : 1
 LCS ME CL validation result : Pass

Return to Contents

RPD - Relative Percent Difference , CL - Control Limit



Work Order Number: 12-01-1201

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

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

MPN - Most Probable Number


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Sandy Tat

From: Jake Prowse [jake.prowse@cardno.com]
Sent: Monday, January 23, 2012 10:47 AM
To: Sandy Tat
Subject: RE: COCs (12-01-1201)
Attachments: 99105_20120123134951.pdf

Here you go

Jake Prowse

Staff Geologist | QM Supervisor

Cardno ERI

601 North McDowell Blvd., Petaluma, CA 94954

Phone: 707 766 2000 Direct: 707 766 2000 Fax: 707 789 0414

From: Sandy Tat [mailto:stat@calscience.com]

Sent: Monday, January 23, 2012 10:14 AM

To: Jake Prowse

Cc: Elizabeth Hughes; Paula Sime; Jennifer Lacy

Subject: FW: COCs (12-01-1201)

Good Morning,

Could you also please cancel the test request for Methanol. We haven't receive the non-preserved VOA vials for methanol analysis. Thank you.

Cecile

From: Jennifer Lacy [mailto:jennifer.lacy@cardno.com]

Sent: Monday, January 23, 2012 8:38 AM

To: Sandy Tat

Subject: COCs



Hi Sandy,

Jake asked me to forward these COCs to you.

His computer is not working right this morning.

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

Thanks!

Jennifer L. Lacy

Senior Staff Scientist

LPS Coordinator

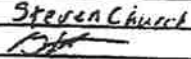
Cardno ERI

601 North McDowell Blvd., Petaluma, CA 94954

Phone: 707 766 2000 Direct: 707 766 2017 Mobile: 707 338 6998 Fax: 707 789 0414

Email: jennifer.lacy@cardno.com

Cardno ERI Web: www.cardnoeri.com

Consultant Name: Cardno ERI Account #: NA POB: Direct Bill Cardno ERI
 Consultant Address: 801 N McDowell Invoice To: Direct Bill Cardno ERI
 Consultant City/State/Zip: Petaluma, CA 94954 Report To: Paula Sims
 ExxonMobil Project Mgr: Jennifer Sedatchek Project Name: 02 2783C
 Consultant Project Mgr: Paula Sims ExxonMobil Site #: 99105 Major Project (AFE #):
 Consultant Telephone Number: (707) 766-2000 Fax No.: (707) 789-0414 Site Address: 6301 San Pablo Ave
 Sampler Name (Print): Steven Church Site City, State, Zip: Oakland, CA
 Sampler Signature:  Oversight Agency: Alameda County Environmental Health Department

Sample ID	Field Point Name	Date Sampled	Time Sampled	No. of Containers Shipped	Ctn#	Composita	Field Figure	Preservative														Matrix										Analyze For:					Lead Scavenger	Ethanol	RUSH TAT (7-sec-sec)	5-day TAT	Standard 10-day TAT	Due Date of Report
								Meq/Lnd	Seadm Distillate	HCl	NaOH	H2O2/Pestic	H2SO4/Flux	HMDS	Ice	Upret	None	Greenhair	Wastewater	Dinking Water	Surge	Soil	Air	Other (specify): Treated Water	TPH 80100	TPH 80150	TPH 82000	Oxygens 8200														
1	QC88	1-15-12	1230	3V	X																																					
2	W-12 -MW2		610	6V/2A	X																																					
3	W-13 -MW3		610	6V/2A	X																																					
4	W-10 -MW5		710	6V/2A	X																																					

Comments/Special Instructions: Only include requested data in report
BTEX; OXY's report MTBE, DIPE, TEA, TAME, EDS, ETBE
1,2-Dichlorobenzene, and ethanol; also TPHg TPHd
Neuronal by 8315

GLOBAL ID # T0500101855 ERI-EIMLABS@eri-us.com PLEASE E-MAIL ALL PDF FILES TO eri@calsci.com
 Retinquished by: TCB Date 1/17/12 Time 1200 Received by: Jan O'Malley, CER Date 1/17/12 Time 1200
 Retinquished by: TCB Date 1/19/12 Time 1230 Received by: DANNY Date 1/20/12 Time 10:40

Laboratory Comments:
 Temperature Upon Receipt: _____
 Sample Containers Intact? _____
 VOCs Free of Headspace? _____
 QC Detectables (Please Circle One)
 Level 2 _____
 Level 3 _____
 Level 4 _____
 Sco Specific - If yes, please attach pre-schedule w/ Calscience
 Project Manager or attach specific instructions

Calscience Environmental Laboratories, Inc.

7440 Lincoln Way
Garden Grove, CA 92841

Phone: 714-895-5494
Fax: 714-894-7501



Consultant Name: Cardno ERI **Account #:** NA **PO#:** _____ **Direct Bill:** Cardno ERI
Consultant Address: 601 N McDowell **Invoice To:** Direct Bill Cardno ERI
Consultant City/State/Zip: Petaluma, CA 94954 **Report To:** Paula Sims
ExxonMobil Project Mgr: Jennifer Sedlachek **Project Name:** 02 2783C
Consultant Project Mgr: Paula Sims **ExxonMobil Site #:** 99105 **Major Project (AFE #):** _____
Consultant Telephone Number: (707) 766-2000 **Fax No.:** (707) 789-0414 **Site Address:** 6301 San Pablo Ave
Sampler Name (Print): Steven Churchill **Site City, State, Zip:** Oakland, CA
Sampler Signature: [Signature] **Oversight Agency:** Alameda County Environmental Health Department

Sample ID	Field Point Name	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative											Matrix					Analyze For:						Lead Scavengers	Ethanol	RUSH TAT (Pre-Schedule)	5-day TAT	Standard 10-day TAT	Due Date of Report				
								Methanol	Sodium Bisulfate	HCl	NaOH	H ₂ SO ₄ Plastic	H ₂ SO ₄ Glass	HNO ₃	Ice	Other	None	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Air	Other (specify):	Distilled Water	TPHd 8015B*	*silica gel cleanup	TPHg 8015B	BTEX 8260B							Methanol by 8015	Oxygenates 8260		
1 QCBB	QCBB	1-15-12	630	3V	x																																		
2 W-12 -MW2	MW2	1	610	6V/2A	x																																		
3 W-13 -MW3	MW3	1	650	6V/2A	x																																		
4 W-10 -MW5	MW5	1	750	6V/2A	x																																		

Comments/Special Instructions: Only include requested data in report
 BTEX; OXY's report MTBE, DIPE, TBA, TAME, EDB, ETBE
 1,2-Dichloroethane, and ethanol- also TPHg TPHd
GLOBAL ID # T0600101855 **Methanol by** 8015 **ERI-EIMLABS@eri-us.com** **PLEASE E-MAIL ALL PDF FILES TO** norcallabs@eri-us.com
Relinquished by: [Signature] **Date:** 1/19/12 **Time:** 1200 **Received by:** Tor O'Malley CER **Date:** 1/19/12 **Time:** 1200
Relinquished by: Tor O'Malley TO 650 **Date:** 1/19/12 **Time:** 1230 **Received by (Lab person):** DANNY [Signature] CER **Date:** 1/20/12 **Time:** 10:40
Laboratory Comments:
 Temperature Upon Receipt: _____
 Sample Containers Intact? **Y** **N**
 VOCs Free of Headspace? **Y** **N**
QC Deliverables (please circle one)
 Level 2 _____
 Level 3 _____
 Level 4 _____
 Site Specific - if yes, please attach pre-schedule w/ Calscience Project Manager or attach specific instructions

1201

		< WebShip > > > > 800-322-5555 www.gso.com	
Ship From: ALAN KEMP CAL SCIENCE- CONCORD 5063 COMMERCIAL CIRCLE #H CONCORD, CA 94520		Tracking #: 518276574 	NPS
Ship To: SAMPLE RECEIVING CEL 7440 LINCOLN WAY GARDEN GROVE, CA 92841		ORC GARDEN GROVE	
COD: \$0.00		D92841A  97882168	
Reference: CARDNO ERI		Print Date : 01/19/12 15:39 PM	
Delivery Instructions:		Signature Type: SIGNATURE REQUIRED	

Package 1 of 1

Print All

LABEL INSTRUCTIONS:

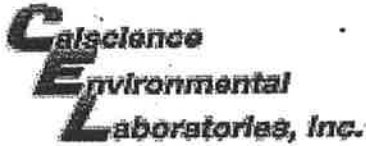
- Do not copy or reprint this label for additional shipments - each package must have a unique barcode.
- STEP 1 - Use the "Send Label to Printer" button on this page to print the shipping label on a laser or inkjet printer.
- STEP 2 - Fold this page in half.
- STEP 3 - Securely attach this label to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

ADDITIONAL OPTIONS:

TERMS AND CONDITIONS:

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

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WORK ORDER #: 12-01-1201

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Cardno ERI

DATE: 01/20/12

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

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

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

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

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

Ambient Temperature: Air Filter Initial: h.c.

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: b.l.

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

SAMPLE CONDITION:

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

CONTAINER TYPE:

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

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

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

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

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

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

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

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WORK ORDER #: 12-01-7201

SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

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

Comments:

(-2) to (-4) TPH-D and Methanol containers not received.

HEADSPACE – Containers with Bubble > 6mm or 1/4 inch:

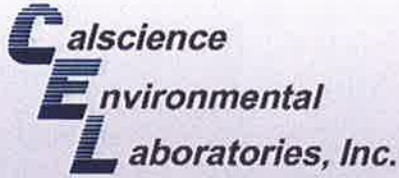
Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Vials Received	Sample #	Container ID(s)	# of Cont. received	Analysis

Comments: _____

*Transferred at Client's request.

Initial / Date: b.l 01/20/12

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CALSCIENCE

WORK ORDER NUMBER: 12-01-1685

The difference is service



AIR | SOIL | WATER | MARINE CHEMISTRY

RECEIVED
FEB 14 2012

BY:

Analytical Report For

Client: Cardno ERI

Client Project Name: ExxonMobil 99105/022783C

Attention: Paula Sime

601 North McDowell Blvd.
Petaluma, CA 94954-2312

Cecile de Guia

Approved for release on 02/9/2012 by:
Cecile deGuia
Project Manager

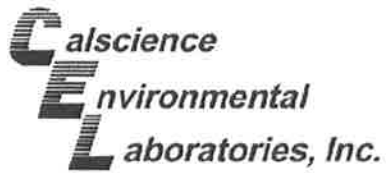
ResultLink ▶

Email your PM ▶



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





Contents

Client Project Name: ExxonMobil 99105/022783C
Work Order Number: 12-01-1685

1	Client Sample Data	3
	1.1 EPA 8015B (M) TPH Diesel (Aqueous)	3
2	Quality Control Sample Data	4
	2.1 LCS/LCSD	4
3	Glossary of Terms and Qualifiers	5
4	Chain of Custody/Sample Receipt Form	6



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

Date Received: 01/28/12
Work Order No: 12-01-1685
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: ExxonMobil 99105/022783C

Page 1 of 1

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
W-10-MW2	12-01-1685-1-A	01/27/12 08:15	Aqueous	GC 48	02/01/12	02/03/12 03:12	120201B073

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	50	1	SG,U	ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	89	68-140	

W-11-MW3	12-01-1685-2-A	01/27/12 08:40	Aqueous	GC 48	02/01/12	02/03/12 03:27	120201B073
----------	----------------	-------------------	---------	-------	----------	-------------------	------------

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	1000	50	1	SG,HD	ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	91	68-140	

W-10-MW5	12-01-1685-3-A	01/27/12 07:20	Aqueous	GC 48	02/01/12	02/03/12 03:42	120201B073
----------	----------------	-------------------	---------	-------	----------	-------------------	------------

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	3100	50	1	SG,HD	ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	102	68-140	

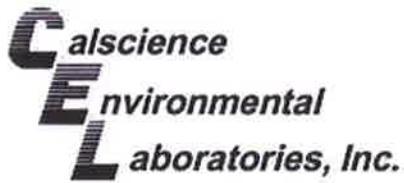
Method Blank	099-12-330-2,133	N/A	Aqueous	GC 48	02/01/12	02/03/12 00:28	120201B073
--------------	------------------	-----	---------	-------	----------	-------------------	------------

Parameter	Result	RL	DF	Qual	Units
TPH as Diesel	ND	50	1	U	ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	101	68-140	

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

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Quality Control - LCS/LCS Duplicate



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

Date Received: N/A
Work Order No: 12-01-1685
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: ExxonMobil 99105/022783C

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-330-2,133	Aqueous	GC 48	02/01/12	02/03/12	120201B07S

Parameter	SPIKE ADDED	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Diesel	2000	77	81	75-117	5	0-13	

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RPD - Relative Percent Difference, CL - Control Limit



Work Order Number: 12-01-1685

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

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

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Sandy Tat

From: Judy Hutton [judy.hutton@cardno.com]
Sent: Thursday, February 09, 2012 10:55 AM
To: Sandy Tat
Subject: RE: ExxonMobil 99105/022783C (12-01-1685)

Hi Sandy,

Thank you for catching it. Yes we do need silica gel for TPH-Diesel. Let me know if you need me to revise the COC again.

Thank you,
Judy

Judy Hutton

Operations & Maintenance Administrator
Cardno ERI
601 North McDowell Blvd., Petaluma, CA 94954
Phone: 707 766 2000 Direct: 707 766 2016 Mobile: 707 338 8399 Fax: 707 789 0414

From: Sandy Tat [<mailto:stat@calscience.com>]
Sent: Wednesday, February 08, 2012 3:16 PM
To: Judy Hutton
Subject: FW: ExxonMobil 99105/022783C (12-01-1685)
Importance: High

Hi Judy,

Silica gel cleanup was crossed out on the COC; therefore, do you still need silica gel cleanup for the TPH-Diesel? Please advise. Thanks!

Best Regards,

Sandy Tat
Project Manager Assistant
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Phone: 714-895-5494 x220
Fax: 714-894-7501
stat@calscience.com





From: Judy Hutton [<mailto:judy.hutton@cardno.com>]
Sent: Tuesday, January 31, 2012 1:07 PM
To: Sandy Tat; Jake Prowse
Subject: RE: ExxonMobil 99105/022783C (12-01-1685)

Hi Sandy,

Please find attached the revised COC for 99105/022783C (12-01-1685). Let me know if you have any questions.

Thank you,
Judy

Judy Hutton

Operations & Maintenance Administrator
Cardno ERI
601 North McDowell Blvd., Petaluma, CA 94954
Phone: 707 766 2000 Direct: 707 766 2016 Mobile: 707 338 8399 Fax: 707 789 0414

From: Sandy Tat [<mailto:stat@calscience.com>]
Sent: Tuesday, January 31, 2012 10:11 AM
To: Jake Prowse; Judy Hutton
Subject: ExxonMobil 99105/022783C (12-01-1685)
Importance: High

Hi Jake / Judy,

We only received container for TPH-Diesel analysis; therefore, please cancel the rest of the analyses from this work order. Thanks!

Sandy Tat
Project Manager Assistant
Calscience Environmental Laboratories, Inc.
7440 Lincoln Way
Garden Grove, CA 92841-1427
Phone: 714-895-5494 x220
Fax: 714-894-7501
stat@calscience.com

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**Calscience
Environmental
Laboratories, Inc.**

7440 Lincoln Way
Garden Grove, CA 92841

Phone: 714-895-5494

Fax: 714-894-7501

**ExxonMobil
12-01-1685**

Consultant Name: Cardno ERI Account #: NA PO#: Direct Bill Cardno ERI
 Consultant Address: 601 N McDowell Invoice To: Direct Bill Cardno ERI
 Consultant City/State/Zip: Petaluma, CA 94954 Report To: Paula Sime
 ExxonMobil Project Mgr: Jennifer Sedlachek Project Name: 02 2783C
 Consultant Project Mgr: Paula Sime ExxonMobil Site #: 99105 Major Project (AFE #):
 Consultant Telephone Number: (707) 766-2000 Fax No.: (707) 789-0414 Site Address: 6301 San Pablo Ave
 Sampler Name (Print): Steven Church Site City, State, Zip: Oakland, CA
 Sampler Signature: [Signature] Oversight Agency: Alameda County Environmental Health Department

Sample ID	Field Point Name	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative										Matrix										Analyze For:					Due Date of Report			
								Methanol	Sodium Bisulfate	HCl	NaOH	H ₂ SO ₄ Plastic	H ₂ SO ₄ Glass	HNO ₃	Ice	Other	None	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Air	Other (specify):	Distilled Water	TPHd 8015B*	TPHg-8015B	BTEX-8015B	Methanol by 8015B	Oxygenates-8015B	Lead Scavengers	Ethanol		RUSH TAT (Pre-Schedule)	5-day TAT	Standard 10-day TAT
1 W-10 -MW2	MW2	1-27-12	615	2A	x																															
2 W-11 -MW3	MW3	↓	640	2A	x																															
3 W-10 -MW5	MW5	↓	720	2A	x																															
Comments/Special Instructions: Only include requested data in report BTEX; OXY's report MTBE, DIPE, TBA, TAME, EDB, ETBE 1,2-Dichloroethane, and ethanol- also TPHg TPHd Methanol by 8015 ERI-EIMLABS@eri-us.com															Laboratory Comments: Temperature Upon Receipt: Sample Containers Intact? Y N VOCs Free of Headspace? Y N QC Deliverables (please circle one) Level 2 Level 3 Level 4 Site Specific - if yes, please attach pre-schedule w/ Calscience Project Manager or attach specific instructions																					
Relinquished by: [Signature] Date: 1/27/12 Time: 1120															Received by: [Signature] C.E.L. Date: 1/27/12 Time: 1120																					
Relinquished by: [Signature] 20680 Date: 1/27/12 Time: 0730															Received by (Lab personnel): [Signature] C.C. Date: 1/28/12 Time: 0930																					

Calscience Environmental Laboratories, Inc.

7440 Lincoln Way
Garden Grove, CA 92841

Phone: 714-895-5494
Fax: 714-894-7501

ExxonMobil
12-01-1685

Consultant Name: Cardno ERI Account #: NA PO#: Direct Bill Cardno ERI
 Consultant Address: 601 N McDowell Invoice To: Direct Bill Cardno ERI
 Consultant City/State/Zip: Petaluma, CA 94954 Report To: Paula Sime
 ExxonMobil Project Mgr: Jennifer Sedlachek Project Name: 02 2783C
 Consultant Project Mgr: Paula Sime ExxonMobil Site #: 99105 Major Project (AFE #): _____
 Consultant Telephone Number: (707) 766-2000 Fax No.: (707) 789-0414 Site Address: 6301 San Pablo Ave
 Sampler Name (Print): Steven Church Site City, State, Zip: Oakland, CA
 Sampler Signature: [Signature] Oversight Agency: Alameda County Environmental Health Department

Sample ID	Field Point Name	Date Sampled	Time Sampled	No. of Containers Shipped	Grab	Composite	Field Filtered	Preservative								Matrix					Analyze For:						Due Date of Report														
								Methanol	Sodium Bisulfite	HCl	NaOH	H ₂ SO ₄ Plastic	H ₂ SO ₄ Glass	HNO ₃	Ice	Other	None	Groundwater	Wastewater	Drinking Water	Sludge	Soil	Air	Other (specify):	Distilled Water	TPHd 8015B*		*silica gel cleanup	TPHg 8015B	BTEX 8260B	Methanol by 8015	Oxygenates 8260	Lead Scavengers	Ethanol	RUSH TAT (Pre-Schedule)	5-day TAT	Standard 10-day TAT				
1 W-10 -MW2	MW2	1-27-12	615	2A	x																																				
2 W-11 -MW3	MW3		640	2A	x																																				
3 W-10 -MW5	MW5		720	2A	x																																				

Comments/Special Instructions:
 Only include requested data in report
 BTEX; OXY's report MTBE, DIPE, TBA, TAME, EDB, ETBE
 1,2-Dichloroethane, and ethanol- also TPHg TPHd
GLOBAL ID # T0600101855
 Methanol by 8015
 PLEASE E-MAIL ALL PDF FILES TO
 ERI-EIMLABS@eri-us.com
 nocalabs@eri-us.com

Laboratory Comments:
 Temperature Upon Receipt: _____
 Sample Containers Intact? Y N
 VOCs Free of Headspace? Y N
 QC Deliverables (please circle one)
 Level 2 _____
 Level 3 _____
 Level 4 _____
 Site Specific - if yes, please attach pre-schedule w/ Calscience
 Project Manager or attach specific instructions

Relinquished by: [Signature] Date: 1/27/12 Time: 1120
 Received by: [Signature] CEC Date: 1/27/12 Time: 1120
 Relinquished by: [Signature] 20680 Date: 1/27/12 Time: 0730
 Received by (Lab personnel): [Signature] CEC Date: 1/28/12 Time: 0930

1685

	< WebShip > > > > 800-322-5555 www.gso.com	
	Ship From: ALAN KEMP CAL SCIENCE- CONCORD 5063 COMMERCIAL CIRCLE #H CONCORD, CA 94520	Tracking #: 518335699 
Ship To: SAMPLE RECEIVING CEL 7440 LINCOLN WAY GARDEN GROVE, CA 92841	ORC GARDEN GROVE	
COD: \$0.00	D92841A  98115319	
Reference: PLEXUS, CARDNO ERI, KOCH CARBON		
Delivery Instructions:		
Signature Type: SIGNATURE REQUIRED	Print Date : 01/27/12 15:11 PM	

Package 1 of 1

Send Label To Printer	<input checked="" type="checkbox"/> Print All	Edit Shipment	Finish
-----------------------	---	---------------	--------

LABEL INSTRUCTIONS:

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

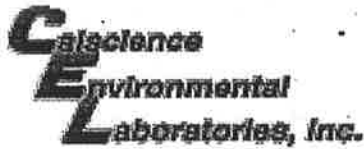
ADDITIONAL OPTIONS:

Send Label Via Email	Create Return Label
----------------------	---------------------

TERMS AND CONDITIONS:

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

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WORK ORDER #: 12-01-

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Cardno ERI

DATE: 01/28/12

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

Temperature 3.6°C - 0.3°C (CF) = 3.3°C Blank Sample

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

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

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

Ambient Temperature: Air Filter Initial: YC

CUSTODY SEALS INTACT:

Cooler _____ No (Not Intact) Not Present N/A Initial: YC

Sample _____ No (Not Intact) Not Present Initial: MS

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

CONTAINER TYPE:

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

Water: VOA VOA_h VOA_{na2} 125AGB 125AGB_h 125AGB_p 1AGB 1AGB_{na2} 1AGB_s

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

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

Air: Tedlar® Summa® Other: _____ Trip Blank Lot#: _____ Labeled/Checked by: MS

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

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

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SAMPLE ANOMALY FORM

SAMPLES - CONTAINERS & LABELS:

Comments:

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

 (-1) to (-3) vials
 not received for
 TPH-g, 8260, and Methanol.

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

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

Comments: _____

*Transferred at Client's request.

Initial / Date: NC 01 19/12



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

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. ERI 2783	2. Page 1 of 1
3. Generator's Name and Mailing Address EARTH 99105 6301 SAN PABLO AVE OAKLAND, CA		CARONO ERI			
4. Generator's Phone ()		6. US EPA ID Number		A. State Transporter's ID	
5. Transporter 1 Company Name CARONO ERI		7. Transporter 2 Company Name		B. Transporter 1 Phone	
9. Designated Facility Name and Site Address INSTRAT INC 1105-C AIRPORT RD RIO VISTA, CA		10. US EPA ID Number CAR000150599		C. State Transporter's ID	
11. WASTE DESCRIPTION		12. Containers		13. Total Quantity	
		No. Type		14. Unit Wt./Vol.	
a. NON-HAZ PURGE WATER		1 1 Poly		128 GAL	
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above COLORS-- BROWN ODORS-- X SOLIDS-- X			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				Date	
Signature				Month Day Year	
17. Transporter 1 Acknowledgement of Receipt of Materials					
Printed/Typed Name Steven Church				Date 1/19/12	
Signature				Month Day Year	
18. Transporter 2 Acknowledgement of Receipt of Materials					
Printed/Typed Name				Date	
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 INSTRAT INC MICHAEL WHITEHEAD				Date 1/19/12	
Signature				Month Day Year	



NON-HAZARDOUS WASTE MANIFEST

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

NON-HAZARDOUS WASTE

NON-HAZARDOUS WASTE MANIFEST		1. Generator's US EPA ID No.		Manifest Document No. ERI 2783	2. Page 1 of 1
3. Generator's Name and Mailing Address EM # 99105 6301 SAN PABLO AVE OAKLAND, CA		ERI CARDO			
4. Generator's Phone ()					
5. Transporter 1 Company Name CARDO ERI		6. US EPA ID Number		A. State Transporter's ID	
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 RD RIO VISTA, CA		10. US EPA ID Number CARD000150599		C. State Transporter's ID	
				D. Transporter 2 Phone	
				E. State Facility's ID	
				F. Facility's Phone 707-374-3834	
11. WASTE DESCRIPTION			12. Containers	13. Total Quantity	14. Unit Wt./Vol.
a.			No.	Type	
NON-HAZ PURGE WATER			1	Poly	86 GAL
b.					
c.					
d.					
G. Additional Descriptions for Materials Listed Above COLOR - BROWN ODOR - ✓ SOLIDS - ✓			H. Handling Codes for Wastes Listed Above		
15. Special Handling Instructions and Additional Information					
16. GENERATOR'S CERTIFICATION: I hereby certify that the contents of this shipment are fully and accurately described and are in all respects in proper condition for transport. The materials described on this manifest are not subject to federal hazardous waste regulations.					
Printed/Typed Name				Signature	
17. Transporter 1 Acknowledgement of Receipt of Materials				Date	
Printed/Typed Name Steven Church		Signature <i>[Signature]</i>		Month Day Year 2 7 12	
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 INSTRAT INC MICHAEL WHITEHEAD				Signature <i>[Signature]</i>	
				Date Month Day Year 2 7 12	

