CONESTOGA-ROVERS & ASSOCIATES

5900 Hollis Street, Suite A
Emeryville, California 94608
Telephone: (510) 420-0700 Fax: (510) 420-9170
www.CRAworld.com

TRANSMITTAL

DATE: November 24, 2010

REFERENCE NO.: 060204

PROJECT NAME: 2301-2307 Lincoln Avenue, Alameda

TO: Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

RECEIVED
9:35 am, Nov 30, 2010
Alameda County
Environmental Health

Please find enclosed:
- ☐ Draft
- ☐ Originals
- ☐ Prints
- ☒ Final
- ☐ Other

Sent via:
- ☐ Mail
- ☐ Overnight Courier
- ☐ Same Day Courier
- ☒ Other GeoTracker and Alameda County FTP

QUANTITY	DESCRIPTION
1	Groundwater Monitoring Report – Third Quarter 2010

- ☐ As Requested
- ☐ For Your Use
- ☒ For Review and Comment
- ☐
- ☐

COMMENTS:
If you have any questions regarding the contents of this document, please call Peter Schaefer at (510) 420-3319.

Copy to: Denis Brown, Shell Oil Products US (electronic copy)
Alan A. and Beverly M. Sebanc, Trustees, 2805 Ralston Avenue, Hillsborough, CA 94010
Jake Torrens, AMEC Geomatrix, Inc., 2101 Webster Street, 12th Floor, Oakland, CA 94612

Completed by: Peter Schaefer Signed: Peter Schaefer

Filing: **Correspondence File**

Denis L. Brown
Shell Oil Products US
HSE – Environmental Services
20945 S. Wilmington Ave.
Carson, CA 90810-1039
Tel (707) 865 0251
Fax (707) 865 2542
Email denis.l.brown@shell.com

Mr. Jerry Wickham
Alameda County Environmental Health
1131 Harbor Bay Parkway, Suite 250
Alameda, CA 94502-6577

Subject: 2301-2307 Lincoln Avenue
Alameda, California
SAP Code 165255
Incident No. 97767044
ACEH No. RO0002971

Dear Mr. Wickham,

The attached document is provided for your review and comment. Upon information and belief, I declare, under penalty of perjury, that the information contained in the attached document is true and correct.

As always, please feel free to contact me directly at (707) 865-0251 with any questions or concerns.

Sincerely,

Denis L. Brown
Senior Program Manager

GROUNDWATER MONITORING REPORT - THIRD QUARTER 2010

FORMER SHELL SERVICE STATION
2301-2307 LINCOLN AVENUE
ALAMEDA, CALIFORNIA

SAP CODE	165255
INCIDENT NO.	97767044
AGENCY NO.	RO0002971

Prepared by:
Conestoga-Rovers & Associates

5900 Hollis Street, Suite A
Emeryville, California
U.S.A. 94608

Office: (510) 420-0700
Fax: (510) 420-9170

web: http://www.CRAworld.com

NOVEMBER 24, 2010
REF. NO. 060204 (15)
This report is printed on recycled paper.

TABLE OF CONTENTS

LIST OF FIGURES
(Following Text)

LIST OF APPENDICES

1.0 INTRODUCTION

Conestoga-Rovers & Associates (CRA) prepared this report on behalf of Equilon Enterprises LLC dba Shell Oil Products US (Shell).

1.1 SITE INFORMATION

Site Address	2301-2307 Lincoln Avenue, Alameda
Site Use	Strip mall
Shell Project Manager	Denis Brown
CRA Project Manager	Peter Schaefer
Lead Agency and Contact	ACEH, Jerry Wickham
Agency Case No.	RO0002971
Shell SAP Code	165255
Shell Incident No.	97767044

Date of most recent agency correspondence was October 11, 2010.

2.0 SITE ACTIVITIES, FINDINGS, AND DISCUSSION

2.1 CURRENT QUARTER'S ACTIVITIES

Blaine Tech Services, Inc. (Blaine) gauged and sampled the wells according to the established monitoring program for the site.

CRA prepared a vicinity map (Figure 1) and a groundwater contour and chemical concentration map (Figure 2). Blaine's report, presenting the analytical data, is included in Appendix A.

CRA's August 27, 2010 *Subsurface Investigation Report* presented results of our July 13, 2010 off-site soil and grab groundwater investigation.

CRA's August 24, 2010 *Soil Vapor Sampling Report* presented results of our June 16, 2010 and July 29, 2010 soil vapor sampling events.

2.2 CURRENT QUARTER'S FINDINGS

Groundwater Flow Direction	Northerly to northeasterly
Hydraulic Gradient	Variable
Depth to Water	8.22 to 9.36 feet below top of well casing

2.3 PROPOSED ACTIVITIES

As requested in Alameda County Environmental Health's (ACEH's) October 11, 2010 letter, CRA's November 17, 2010 *Remedial Action Plan and Well Survey Work Plan* proposes excavations to remove petroleum hydrocarbons and lead identified during previous investigations and proposes a detailed well survey. CRA will proceed with the excavations and well survey following ACEH's approval of the work plan.

Per ACEH's October 11, 2010 letter, no further groundwater sampling events are scheduled, and CRA will not submit additional groundwater monitoring reports.

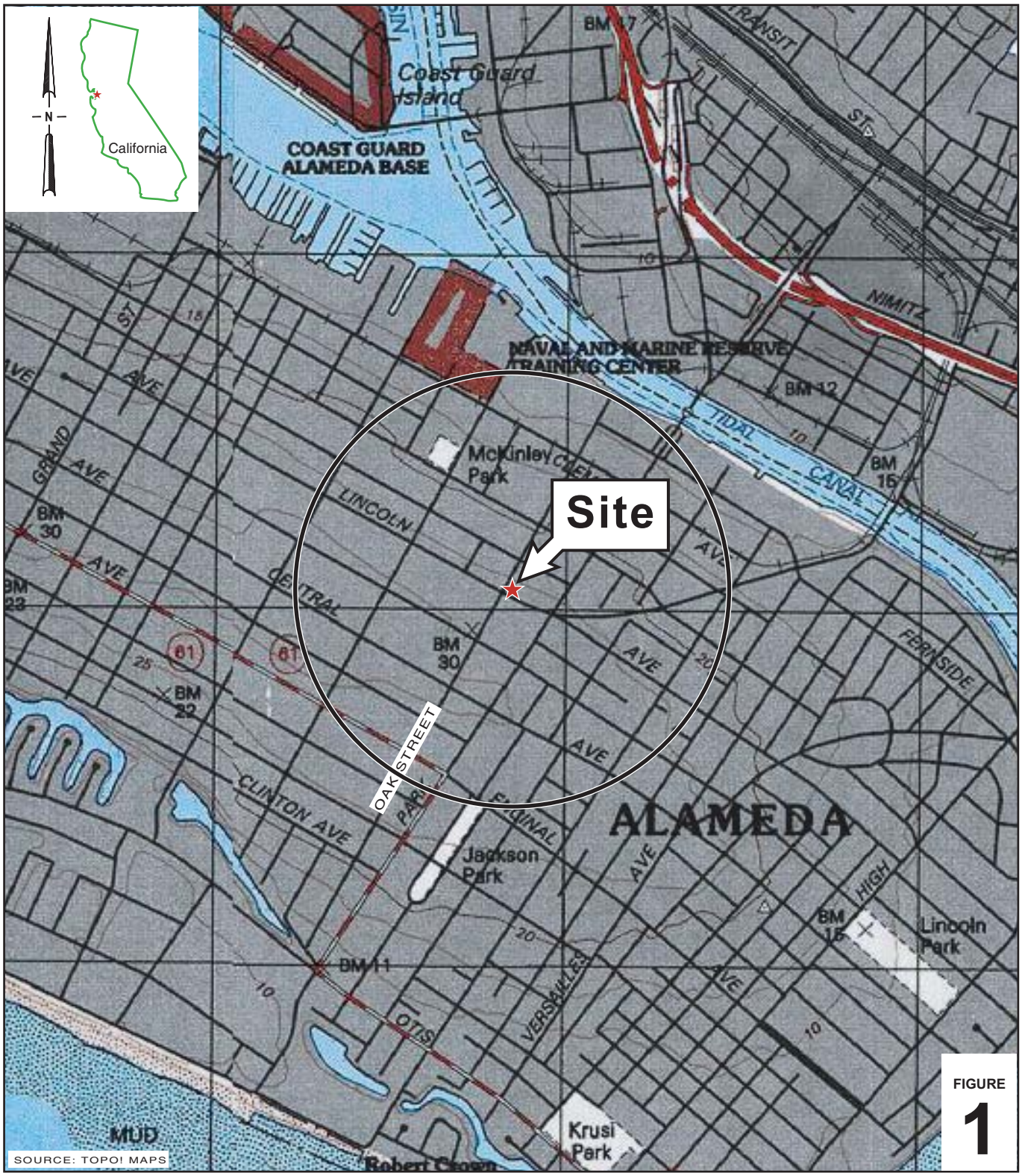
All of Which is Respectfully Submitted,
CONESTOGA-ROVERS & ASSOCIATES

Peter Schaefer, CEG, CHG

Aubrey K. Cool, PG

FIGURES

10/25/10



I:\Shell\6-chars\0602--\060204-Alameda 2301-2307 Lincoln Ave\060204 FIGURES\060204 VICINITY.AI

FIGURE
1

0 1/8 1/4 1/2 1

SCALE : 1" = 1/4 MILE

Former Shell Service Station

2301-2307 Lincoln Avenue

Alameda, California

CONESTOGA-ROVERS & ASSOCIATES

Vicinity Map

11/11/2010

Groundwater Contour and Chemical Concentration Map

September 2, 2010

EXPLANATION

MW-1 Monitoring well location

- Electrical & Telecommunications line (E)
- Telecommunications & Cable TV line (T)
- Gas line (G)
- Storm drain line (STM)
- Sanitary sewer line (SAN)
- Water line (W)

Sources:

1. Sanborn Fire Insurance Map, 1950
2. Majors Civil Engineering, 1982

XX.XX Groundwater elevation contour, in feet above mean sea level (msl)

Well
ELEV
TPHg
Benzene

- Well designation
- Groundwater elevation, in feet above msl
- TPHg and benzene concentrations are in micrograms per liter

Notes:
ND = Not detected

OAK STREET

Former 76 Station
2267 Lincoln Avenue

Former Shell Station
2301-2307 Lincoln Avenue

LINCOLN AVENUE

Former Gasoline & Oil USTs (installed in 1920s)

Former Building (circa 1950)[1]

Former Tire Recapping Facility (circa 1950)[1]

7-11 Store Building

Former Oil Sump (circa 1982)[2]

Former Station Building (circa 1982)[2]

Laundorland Building

Commercial Building

Former Dispensers (circa 1982)[2]

Former USTs (installed in 1970s)

Alameda County Police Dept.

Alameda Free Library

Agronomatic Property Line

Sidewalk, Driveway, Parking, Planter, Overhang, Pier

Well	ELEV	TPHg	Benzene
MW-1	17.40	NS	
MW-2	17.34	NS	
MW-3	17.34	NS	
MW-4	17.32	NS	
MW-5	17.29	NS	
MW-6	17.25	NS	
MW-7	17.38	NS	
MW-8	17.65	NS	
MW-9	17.45	ND	ND

Groundwater contours: 17.35, 17.45, 17.55

N

0 15 30 60

Scale (ft)

Basemap modified from data from Virgil Chavez Land Surveying and drawing provided by Geomatrix

FIGURE

2

Former Shell Service Station

2301-2307 Lincoln Avenue

Alameda, California

CONESTOGA-ROVERS & ASSOCIATES

I:\Shell\6-chars\0602--\060204-Alameda 2301-2307 Lincoln Ave\060204-REPORTS\060204-RPT15-3Q10\060204 3QM10-GW.DWG

APPENDIX A

BLAINE TECH SERVICES, INC. – GROUNDWATER MONITORING REPORT

BLAINE
TECH SERVICES INC.

GROUNDWATER SAMPLING SPECIALISTS
SINCE 1985

September 24, 2010

Denis Brown
Shell Oil Products US
20945 South Wilmington Avenue
Carson, CA 90810

Third Quarter 2010 Groundwater Monitoring at
Former Shell Service Station
2301-2307 Lincoln Avenue
Alameda, CA

Monitoring performed on September 2, 2010

Groundwater Monitoring Report **100902-IW-1**

This report covers the routine monitoring of groundwater wells at this former Shell service station. In accordance with standard procedures that conform to Regional Water Quality Control Board requirements, routine field data collection includes depth to water, total well depth, thickness of any separate immiscible layer, water column volume, calculated purge volume (if applicable), elapsed evacuation time (if applicable), total volume of water removed (if applicable), and standard water parameter instrument readings. Sample material is collected, contained, stored, and transported to the laboratory in conformance with EPA standards. Purgewater (if applicable) is, likewise, collected and transported to the Martinez Refining Company.

Basic field information is presented alongside analytical values excerpted from the laboratory report in the cumulative table of **WELL CONCENTRATIONS**. The full analytical report for the most recent samples and the field data sheets are attached to this report.

At a minimum, Blaine Tech Services, Inc. field personnel are certified on completion of a forty-hour Hazardous Materials and Emergency Response training course per 29 CFR 1910.120. Field personnel are also enrolled in annual eight-hour refresher courses.

Blaine Tech Services, Inc. conducts sampling and documentation assignments of this type as an independent third party. Our activities at this site consisted of objective data and sample collection only. No interpretation of analytical results, defining of hydrological conditions or formulation of recommendations was performed.

Please call if you have any questions.

Yours truly,

Mike Ninokata
Project Manager

MN/np

attachments: Cumulative Table of WELL CONCENTRATIONS
Certified Analytical Report
Field Data Sheets

cc: Anni Kreml
Conestoga-Rovers & Associates
5900 Hollis St., Suite A
Emeryville, CA 94608

WELL CONCENTRATIONS
Former Shell Service Station
2301-2307 Lincoln Avenue
Alameda, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	TPH-M (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-1	03/16/2009	NA	NA	NA	NA	NA	NA	NA	25.77	8.24	17.53
MW-1	03/27/2009	13,000	NA	NA	9.7	<10	<10	<10	25.77	7.09	18.68
MW-1	05/22/2009	3,900	NA	NA	2.6	<2.0	<2.0	<2.0	25.77	7.70	18.07
MW-1	09/23/2009	17,000	NA	NA	8.1	<10	<10	<10	25.77	9.27	16.50
MW-1	12/23/2009	9,700	NA	NA	8.7	<10	<10	<10	25.77	8.07	17.70
MW-1	05/05/2010	13,000	1,700 a	<250	<5.0	<10	<10	<10	25.77	6.83	18.94
MW-1	**09/02/2010**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**25.77**	**8.37**	**17.40**
MW-2	03/16/2009	NA	NA	NA	NA	NA	NA	NA	26.09	8.54	17.55
MW-2	03/27/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.09	8.16	17.93
MW-2	05/22/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.09	7.88	18.21
MW-2	09/23/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.09	9.21	16.88
MW-2	12/23/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.09	8.04	18.05
MW-2	05/05/2010	<50	160 a	<250	<0.50	<1.0	<1.0	<1.0	26.09	8.24	17.85
MW-2	**09/02/2010**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**26.09**	**8.75**	**17.34**
MW-3	03/16/2009	NA	NA	NA	NA	NA	NA	NA	25.56	6.06	19.50
MW-3	03/27/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	25.56	6.37	19.19
MW-3	05/22/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	25.56	7.35	18.21
MW-3	09/23/2009	64	NA	NA	<0.50	<1.0	<1.0	<1.0	25.56	8.79	16.77
MW-3	12/23/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	25.56	7.62	17.94
MW-3	05/05/2010	<50	<50	<250	<0.50	<1.0	<1.0	<1.0	25.56	6.15	19.41
MW-3	**09/02/2010**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**25.56**	**8.22**	**17.34**
MW-4	03/16/2009	NA	NA	NA	NA	NA	NA	NA	26.60	7.43	19.17
MW-4	03/27/2009	3,900	NA	NA	170	25	190	360	26.60	7.50	19.10
MW-4	05/22/2009	3,500	NA	NA	280	19	270	220	26.60	8.43	18.17
MW-4	09/23/2009	920	NA	NA	170	3.4	14	16	26.60	9.90	16.70

WELL CONCENTRATIONS
Former Shell Service Station
2301-2307 Lincoln Avenue
Alameda, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	TPH-M (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-4	12/23/2009	2,700	NA	NA	200	5.5	190	56	26.60	8.85	17.75
MW-4	05/05/2010	2,600	710 a	<250	200	19	200	130	26.60	7.34	19.26
MW-4	**09/02/2010**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**26.60**	**9.28**	**17.32**
MW-5	03/16/2009	NA	NA	NA	NA	NA	NA	NA	26.63	7.21	19.42
MW-5	03/27/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.63	7.74	18.89
MW-5	05/22/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.63	8.42	18.21
MW-5	09/23/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.63	9.89	16.74
MW-5	12/23/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.63	8.81	17.82
MW-5	05/05/2010	<50	<50	<250	<0.50	<1.0	<1.0	<1.0	26.63	7.63	19.00
MW-5	**09/02/2010**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**26.63**	**9.34**	**17.29**
MW-6	03/16/2009	NA	NA	NA	NA	NA	NA	NA	26.61	7.31	19.30
MW-6	03/27/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.61	7.82	18.79
MW-6	05/22/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.61	8.43	18.18
MW-6	09/23/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.61	9.87	16.74
MW-6	12/23/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.61	8.77	17.84
MW-6	05/05/2010	<50	<50	<250	<0.50	<1.0	<1.0	<1.0	26.61	7.91	18.70
MW-6	**09/02/2010**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**26.61**	**9.36**	**17.25**
MW-7	03/16/2009	NA	NA	NA	NA	NA	NA	NA	26.69	7.35	19.34
MW-7	03/27/2009	54	NA	NA	<0.50	<1.0	<1.0	<1.0	26.69	7.62	19.07
MW-7	05/22/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.69	8.50	18.19
MW-7	09/23/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.69	10.00	16.69
MW-7	12/23/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.69	8.86	17.83
MW-7	05/05/2010	<50	<50	<250	<0.50	<1.0	<1.0	<1.0	26.69	7.44	19.25
MW-7	**09/02/2010**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**26.69**	**9.31**	**17.38**

WELL CONCENTRATIONS
Former Shell Service Station
2301-2307 Lincoln Avenue
Alameda, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	TPH-M (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-8	03/16/2009	NA	NA	NA	NA	NA	NA	NA	26.05	6.81	19.24
MW-8	03/27/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.05	7.04	19.01
MW-8	05/22/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.05	7.76	18.29
MW-8	09/23/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.05	9.27	16.78
MW-8	12/23/2009	<50	NA	NA	<0.50	<1.0	<1.0	<1.0	26.05	7.98	18.07
MW-8	05/05/2010	<50	<50	<250	<0.50	<1.0	<1.0	<1.0	26.05	6.88	19.17
MW-8	**09/02/2010**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**NA**	**26.05**	**8.40**	**17.65**
MW-9	04/21/2010	NA	NA	NA	NA	NA	NA	NA	25.70	6.74	18.96
MW-9	05/05/2010	<50	<50	<250	<0.50	<1.0	<1.0	<1.0	25.70	7.05	18.65
MW-9	**09/02/2010**	**<50**	**<50**	**<250**	**<0.50**	**<1.0**	**<1.0**	**<1.0**	**25.70**	**8.25**	**17.45**

Abbreviations:
TPPH = Total petroleum hydrocarbons as gasoline by EPA Method 8260B
TEPH = Total petroleum hydrocarbons as diesel by modified EPA Method 8015B.
TPH-M = TPH as Motor Oil analyzed by EPA Method 8015B
BTEX = Benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B
TOC = Top of Casing Elevation
GW = Groundwater
DO = Dissolved Oxygen
ug/L = Parts per billion
ppm = Parts per million
MSL = Mean sea level
ft. = Feet
<n = Below detection limit
NA = Not applicable
ND = Not detected

WELL CONCENTRATIONS
Former Shell Service Station
2301-2307 Lincoln Avenue
Alameda, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	TPH-M (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)

Note

Survey for well MW-9 dated April 12, 2010 provided by Virgil Chavez Land Surveying; CA.

a = The sample chromatographic pattern for TPH does not match the chromatographic pattern of the specified standard. Quantitation of the unknown hydrocarbon(s) in the sample was based upon the specified standard

Calscience
Environmental
Laboratories, Inc.

September 16, 2010

Michael Ninokata
Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject: **Calscience Work Order No.: 10-09-0347**
Client Reference: 2301 - 2307 Lincoln Ave., Alameda, CA

Dear Client:

Enclosed is an analytical report for the above-referenced project. The samples included in this report were received 9/4/2010 and analyzed in accordance with the attached chain-of-custody.

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 analysis, 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.

If you have any questions regarding this report, please do not hesitate to contact the undersigned.

Sincerely,

FOR

Calscience Environmental
Laboratories, Inc.
Xuan H. Dang
Project Manager

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 09/04/10
Work Order No: 10-09-0347
Preparation: EPA 3510C
Method: EPA 8015B

Project: 2301 - 2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9	10-09-0347-1-E	09/02/10 08:40	Aqueous	GC 47	09/09/10	09/10/10 03:10	100909B14

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	111	68-140	

Method Blank	099-12-211-1,823	N/A	Aqueous	GC 47	09/09/10	09/09/10 23:30	100909B14

Parameter	Result	RL	DF	Qual	Units
Diesel Range Organics	ND	50	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	103	68-140	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 09/04/10
Work Order No: 10-09-0347
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: 2301 - 2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9	10-09-0347-1-E	09/02/10 08:40	Aqueous	GC 47	09/09/10	09/10/10 03:10	100909B15

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	250	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	111	68-140	

Method Blank	099-12-234-682	N/A	Aqueous	GC 47	09/09/10	09/10/10 02:25	100909B15

Parameter	Result	RL	DF	Qual	Units
TPH as Motor Oil	ND	250	1		ug/L

Surrogates:	REC (%)	Control Limits	Qual
Decachlorobiphenyl	100	68-140	

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

Calscience Environmental Laboratories, Inc.

Analytical Report

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 09/04/10
Work Order No: 10-09-0347
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B
Units: ug/L

Project: 2301 - 2307 Lincoln Ave., Alameda, CA

Client Sample Number	Lab Sample Number	Date/Time Collected	Matrix	Instrument	Date Prepared	Date/Time Analyzed	QC Batch ID
MW-9	10-09-0347-1-A	09/02/10 08:40	Aqueous	GC/MS R	09/13/10	09/14/10 00:34	100913L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	100	80-126			1,2-Dichloroethane-d4	96	80-131		
Toluene-d8	95	80-120			Toluene-d8-TPPH	95	88-112		
1,4-Bromofluorobenzene	94	80-120							

Method Blank	099-12-767-4,596	N/A	Aqueous	GC/MS R	09/13/10	09/13/10 16:12	100913L01

Parameter	Result	RL	DF	Qual	Parameter	Result	RL	DF	Qual
Benzene	ND	0.50	1		Xylenes (total)	ND	1.0	1	
Ethylbenzene	ND	1.0	1		TPPH	ND	50	1	
Toluene	ND	1.0	1						
Surrogates:	REC (%)	Control Limits		Qual	Surrogates:	REC (%)	Control Limits		Qual
Dibromofluoromethane	98	80-126			1,2-Dichloroethane-d4	94	80-131		
Toluene-d8	96	80-120			Toluene-d8-TPPH	96	88-112		
1,4-Bromofluorobenzene	100	80-120							

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

Calscience Environmental Laboratories, Inc.

Quality Control - Spike/Spike Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: 09/04/10
Work Order No: 10-09-0347
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project 2301 - 2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	MS/MSD Batch Number
10-09-0289-13	Aqueous	GC/MS R	09/13/10	09/13/10	100913S01

Parameter	MS %REC	MSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	86	99	80-120	14	0-20	
Ethylbenzene	96	113	73-127	16	0-20	
Toluene	87	99	80-120	13	0-20	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Blaine Tech Services, Inc.	Date Received: N/A
1680 Rogers Avenue	Work Order No: 10-09-0347
San Jose, CA 95112-1105	Preparation: EPA 3510C
	Method: EPA 8015B

Project: 2301 - 2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-211-1,823	Aqueous	GC 47	09/09/10	09/09/10	100909B14

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Diesel Range Organics	98	99	75-117	1	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: N/A
Work Order No: 10-09-0347
Preparation: EPA 3510C
Method: EPA 8015B (M)

Project: 2301 - 2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-234-682	Aqueous	GC 47	09/09/10	09/10/10	100909B15

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
TPH as Motor Oil	102	104	75-117	1	0-13	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Quality Control - LCS/LCS Duplicate

ACCREDITED IN ACCORDANCE WITH nelac

Blaine Tech Services, Inc.
1680 Rogers Avenue
San Jose, CA 95112-1105

Date Received: N/A
Work Order No: 10-09-0347
Preparation: EPA 5030B
Method: LUFT GC/MS / EPA 8260B

Project: 2301 - 2307 Lincoln Ave., Alameda, CA

Quality Control Sample ID	Matrix	Instrument	Date Prepared	Date Analyzed	LCS/LCSD Batch Number
099-12-767-4,596	Aqueous	GC/MS R	09/13/10	09/13/10	100913L01

Parameter	LCS %REC	LCSD %REC	%REC CL	RPD	RPD CL	Qualifiers
Benzene	88	100	80-120	13	0-20	
Ethylbenzene	96	108	80-123	12	0-20	
Toluene	89	101	80-120	12	0-20	
TPPH	98	79	65-135	21	0-30	

RPD - Relative Percent Difference , CL - Control Limit

Calscience Environmental Laboratories, Inc.

Glossary of Terms and Qualifiers

Work Order Number: 10-09-0347

Qualifier	Definition
*	See applicable analysis comment.
<	Less than the indicated value.
>	Greater than the indicated value.
1	Surrogate compound recovery was out of control due to a required sample dilution, therefore, the sample data was reported without further clarification.
2	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.
3	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.
4	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.
5	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.
B	Analyte was present in the associated method blank.
E	Concentration exceeds the calibration range.
J	Analyte was detected at a concentration below the reporting limit and above the laboratory method detection limit. Reported value is estimated.
ME	LCS Recovery Percentage is within LCS ME Control Limit range.
ND	Parameter not detected at the indicated reporting limit.
Q	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.
X	% Recovery and/or RPD out-of-range.
Z	Analyte presence was not confirmed by second column or GC/MS analysis.
	Solid - Unless otherwise indicated, solid sample data is reported on a wet weight basis, not corrected for % moisture.

Shell Oil Products Chain Of Custody Record

LAB (LOCATION)
- ☑ CALSCIENCE (_____)
- ☐ SPL (_____)
- ☐ XENCO (_____)
- ☐ TEST AMERICA (_____)
- ☐ OTHER (_____)

Please Check Appropriate Box:
☐ ENV. SERVICES ☐ MOTIVA RETAIL ☐ SHELL RETAIL
☐ MOTIVA SD&CM ☑ CONSULTANT ☐ LUBES
☐ SHELL PIPELINE ☐ OTHER _____

Print Bill To Contact Name: Peter Schaefer 060204
PO #
INCIDENT # (ENV SERVICES): 9 7 7 6 7 0 4 4
☐ CHECK IF NO INCIDENT # APPLIES
SAP #
DATE: 9/2/10
PAGE: 1 of 1

SAMPLING COMPANY: Blaine Tech Services
LOG CODE: BTSS
SITE ADDRESS: Street and City: 2301 - 2307 Lincoln Ave., Alameda
State: CA
GLOBAL ID NO.: T0619714590
ADDRESS: 1680 Rogers Ave, San Jose, CA 95112
EDF DELIVERABLE TO (Name, Company, Office Location): Anni Kreml, CRA, Emeryville Office
PHONE NO.: (510) 420-3335
E-MAIL: shelledf@craworld.com
CONSULTANT PROJECT NO.: 100902-IW1
BTS #
PROJECT CONTACT (Hardcopy or PDF Report to): Michael Ninokata - Copy to Shell.Lab.Billing@craworld.com
TELEPHONE: (408)573-0555
FAX: (408)573-7771
E-MAIL: mninokata@blainetech.com
SAMPLER NAME(S) (Print): IAN WILLIAMS
LAB USE ONLY: 09.0347

TURNAROUND TIME (CALENDAR DAYS):
☑ STANDARD (14 DAY) ☐ 5 DAYS ☐ 3 DAYS ☐ 2 DAYS ☐ 24 HOURS ☐ RESULTS NEEDED ON WEEKEND

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY:

SPECIAL INSTRUCTIONS OR NOTES :
☐ SHELL CONTRACT RATE APPLIES
☐ STATE REIMBURSEMENT RATE APPLIES
☐ EDD NOT NEEDED
☑ RECEIPT VERIFICATION REQUESTED

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	PRESERVATIVE HCL	HNO3	H2SO4	NONE	OTHER	NO. OF CONT.	TPH - Purgeable (8260B)	TPH - Extractable (8015M)	BTEX (8260B)	5 Oxygenates (8260B)	MTBE (8260B)	TBA (8260B)	DIPE (8260B)	TAME (8260B)	ETBE (8260B)	1,2 DCA (8260B)	EDB (8260B)	Ethanol (8260B)	Methanol (8015M)		TPH-D (8015M)	TPH-Motor Oil (8015M)					TEMPERATURE ON RECEI. C° / Container PID Readings or Laboratory Notes
1	MW-9	9/2/10	0840	W	3			2		5	X		X												X	X				

Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
		9/2/10	1620
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
SHIPPED 650	CEL	9/4/10	9:30

05/2/06 Revision

GSO

WebShip

800-322-5555 www.gso.com

Ship From:
MICHAEL NINOTAKA
BLAINE TECH SERVICES, INC
1680 ROGERS AVE
SAN JOSE, CA 95112

Ship To:
DON BURLEY
CALSCIENCE
7440 LINCOLN WAY
GARDEN GROVE, CA 92841

COD:
$0.00

Reference:
BTSSJ

Delivery Instructions:
FRAGILE, NON HAZARDOUS

Signature Type:
SIGNATURE REQUIRED

Tracking #: 514886275

SDS

ORC **D**

GARDEN GROVE

D928[illegible]A

84437246

Print Date : 09/03/10 14:08 PM

Package 1 of 2

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

LABEL INSTRUCTIONS:

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

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

ADDITIONAL OPTIONS:

Send Label Via Email | Create Return Label

TERMS AND CONDITIONS:

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

Calscience Environmental Laboratories, Inc.

WORK ORDER #: 10-09-0347

SAMPLE RECEIPT FORM

Cooler 1 of 1

CLIENT: Blaine Tech

DATE: 09/4/10

TEMPERATURE: Thermometer ID: SC1 (Criteria: 0.0 °C – 6.0 °C, not frozen)

Temperature 1.9 °C + 0.5 °C (CF) = 2.4 °C ☑ Blank ☐ Sample

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

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

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

Ambient Temperature: ☐ Air ☐ Filter ☐ Metals Only ☐ PCBs Only Initial: [illegible]

CUSTODY SEALS INTACT:

☑ Cooler ☐_____ ☐ No (Not Intact) ☐ Not Present ☐ N/A Initial: [illegible]

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

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

CONTAINER TYPE:

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

Water: ☐VOA ☑3 VOAh ☐VOA**na₂** ☐125AGB ☐125AGBh ☐125AGBp ☐1AGB ☐1AGB**na₂** ☐1AGBs ☐500AGB ☑2 500AGJ ☐500AGJs ☐250AGB ☐250CGB ☐250CGBs ☐1PB ☐500PB ☐500PBna ☐250PB ☐250PBn ☐125PB ☐125PB**znna** ☐100PJ ☐100PJ**na₂** ☐_____ ☐_____ ☐_____

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

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

Preservative: h: HCL n: HNO_3 **na₂**: $Na_2S_2O_3$ **na**: NaOH p: H_3PO_4 s: H_2SO_4 **znna**: $ZnAc_2$+NaOH f: Field-filtered **Scanned by:** [illegible]

WELL GAUGING DATA

Project # 100902-IW1 Date 9/2/10 Client SHELL

Site 2301/2307 LINCOLN AVE, ALAMEDA, CA

Well ID	Time	Well Size (in.)	Sheen / Odor	Depth to Immiscible Liquid (ft.)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to water (ft.)	Depth to well bottom (ft.)	Survey Point: TOB or TOC	Notes
MW-1	0744	1					8.37	12.90		
MW-2	0808	1					8.75	12.39		
MW-3	0750	1					8.22	11.51		
MW-4	0738	4					9.28	17.70		
MW-5	0758	4					9.34	17.83		
MW-6	0812	4					9.36	17.80		
MW-7	0732	4					9.31	17.65		
MW-8	0720	4					8.40	~~17.47~~ ~~17.67~~ 17.47		
MW-9	0820	4					8.25	17.95		

SHELL WELL MONITORING DATA SHEET

BTS #: 100902-IW1	Site: 2301/2307 LINCOLN AVE, ALAMEDA, CA
Sampler: IW	Date: 9/2/10
Well I.D.: MW-9	Well Diameter: 2 3 (4) 6 8 ____
Total Well Depth (TD): 17.95	Depth to Water (DTW): 8.25
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH
DTW with 80% Recharge [(Height of Water Column x 0.20) + DTW]: 10.19	

Purge Method:
- Bailer
- Disposable Bailer
- Positive Air Displacement
- X Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method:
- X Bailer
- Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

6.4 (Gals.) X	3	= 19.2 Gals.
1 Case Volume	Specified Volumes	Calculated Volume

Well Diameter	Multiplier	Well Diameter	Multiplier
1"	0.04	4"	0.65
2"	0.16	6"	1.47
3"	0.37	Other	radius² * 0.163

Time	Temp (°F)	pH	Cond. (mS or (µS))	Turbidity (NTUs)	Gals. Removed	Observations
0823	71.2	6.81	906	114	6.4	
0824	70.8	6.79	868	633	12.8	
0825	WELL DEWATERED @ 13.0			GALLONS	13.0	DTW = 15.28
0840	70.0	6.91	852	586	GRAB	

Did well dewater? (Yes) No — Gallons actually evacuated: 13.0

Sampling Date: 9/2/10 — Sampling Time: 0840 — Depth to Water: 10.06

Sample I.D.: MW-9 — Laboratory: (CalScience) Columbia Other_____

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other: SEE COC

EB I.D. (if applicable): @ Time — Duplicate I.D. (if applicable):

Analyzed for: TPH-G BTEX MTBE TPH-D Oxygenates (5) Other:

D.O. (if req'd):	Pre-purge:	mg/L	Post-purge:	mg/L
O.R.P. (if req'd):	Pre-purge:	mV	Post-purge:	mV

SHELL SITE INSPECTION CHECKLIST

Client Shell Date 5/20/10

Site Address 2301-2307 Lincoln Ave Alameda

Job Number 100520-BW3 Technician BW

Site Status _____ Branded Station Vacant Lot Other Mini Mall

Inspected / Labeled / Cleaned - all wells on Scope Of Work	☒	
Inspected / Cleaned Components - all other identifiable wells	☒	N/A
Inspected site for site investigation & site remediation related trip hazards	☒	
Completed all outstanding *BLAINE Wellhead Repair Order(s)*	☒	N/A
Completed *Shell Wellhead Repair Form(s)*	☒	N/A
Inspected treatment / remediation system compound for security, cleanliness and appearance	☐	(N/A)
Inspected vacant lot for signs of habitation, hazardous materials or terrain, overgrown vegetation and security	☐	(N/A)
Visually inspected site drums for condition and proper labeling	☐	(N/A)
Unresolved deficiencies identified - *"Notice of Deficient Condition"* form(s) completed	☐	(N/A)

Notes _____

PROJECT MANAGER ONLY

Checklist Reviewed _____ Initial/Date Notes

SHELL WELLHEAD REPAIR FORM
(FOR REPAIR TECHNICIAN)

Site Address 2301-2307 Lincoln Ave Alameda Date 5/20/10

Job Number 100520-BW3 Technician BW Page 1 of 2

Inspection Point (Well ID or description of location)	Well Inspected, Cleaned, Labeled - No Further Corrective Action Required	Replaced Cap	Replaced Lock	Replaced Lid Seal	Check Indicates deficiency: Casing	Annular Seal	Tabs / Bolts	Box Structure	Apron	Trip Hazard	Below Grade	Not Securable by Design (12" diameter or less)	Lid not marked with words "MONITORING WELL"	Other Deficiency	Not Securable by Design (greater than 12" diameter)	Well Not Inspected (explain in notes)	All Repairs Completed	Remaining Deficiencies Logged onto *BLAINE Repair Order*	Remaining Deficiencies Logged onto *Notice of Deficient Condition* - BLAINE Unable to Repair
						X	X	X	X									X	
MW-1	Notes: Retapped 2/2 Tabs - No Tag Well box type / size: 8" Morrison Materials used: 2 bolts																		
MW-2							X										X		
	Notes: Retapped 2/2 Tabs - No Tag Well box type / size: 8" Morrison Materials used: 2 bolts																		
MW-3							X										X		
	Notes: Retapped 2/2 Tabs - No Tag Well box type / size: 8" Morrison Materials used: 2 bolts																		
MW-4							X										X		
	Notes: Retapped 2/2 Tabs - No Tag Well box type / size: 12" Emco Materials used: 2 bolts																		
MW-5							X										X		
	Notes: Retapped 2/2 Tabs - No Tag Well box type / size: 12" Emco Materials used: 2 bolts																		
MW-6							X										X		
	Notes: Retapped 2/2 Tabs - No Tag Well box type / size: 12" Emco Materials used: 2 bolts																		
MW-7				X			X										X		
	Notes: Retapped 2/2 Tabs - No Tag Well box type / size: 12" Emco Materials used: 2 bolts																		

SHELL WELLHEAD REPAIR FORM
(FOR REPAIR TECHNICIAN)

Site Address 2301-2307 Lincoln Ave Alameda Date 5/20/10

Job Number 100520-BW3 Technician BW Page 2 of 2

Inspection Point (Well ID or description of location)	Well Inspected, Cleaned, Labeled - No Further Corrective Action Required	Replaced Cap	Replaced Lock	Replaced Lid Seal	Check Indicates deficiency: Casing	Annular Seal	Tabs / Bolts	Box Structure	Apron	Trip Hazard	Below Grade	Not Securable by Design (12" diameter or less)	Lid not marked with words "MONITORING WELL"	Other Deficiency	Not Securable by Design (greater than 12" diameter)	Well Not Inspected (explain in notes)	All Repairs Completed	Remaining Deficiencies Logged onto *BLAINE Repair Order*	Remaining Deficiencies Logged onto *Notice of Deficient Condition* - BLAINE Unable to Repair
MW-8							X										X		
	Notes: Retapped 2/2 Tabs - No Tag																		
	Well box type / size: 12" Emco														Materials used: 2 bolts				
MW-9							X										X		
	Notes: Retapped 2/2 Tabs - Tagged																		
	Well box type / size: 12" Emco														Materials used: 2 bolts				
	Notes:																		
	Well box type / size:														Materials used:				
	Notes:																		
	Well box type / size:														Materials used:				
	Notes:																		
	Well box type / size:														Materials used:				
	Notes:																		
	Well box type / size:														Materials used:				
	Notes:																		
	Well box type / size:														Materials used:				

SHELL WELLHEAD INSPECTION FORM

(FOR SAMPLE TECHNICIAN)

Site Address 2301/2307 LINCOLN AVE, ALAMEDA, CA Date 9/2/10

Job Number 100902-IW1 Technician IW Page 1 of 1

Well ID	Well Inspected - No Corrective Action Required	Well Box Meets Compliance Requirements *See Below	Water Bailed From Wellbox	Cap Replaced	Lock Replaced	Well Not Inspected (explain in notes)	New Deficiency Identified	Previously Identified Deficiency Persists	Notes
MW-1	X							X	NO TAG.
MW-2	X							X	
MW-3	X							X	
MW-4	X							X	
MW-5	X							X	
MW-6	X							X	
MW-7	X							X	
MW-8	X							X	
MW-9	X	X						X IW	IW

Well box must meet all three criteria to be compliant: 1) WELL IS SECURABLE BY DESIGN (12"or less) 2) WELL IS MARKED WITH THE WORDS MONITORING WELL" (12"or less) 3) WELL TAG IS PRESENT, SECURE, AND CORRECT

Notes: