CAMBRIA

Rel 2433

July 19, 2001

Barney Chan
Alameda County Health Care Services Agency
1131 Harbor Bay Parkway, Suite 250
Alameda, California 94502-6577

7/27/01 MTBE at 100 ppb TPHg at 3,100 ppb

Re: **Second Quarter 2001 Monitoring Report**
Former Shell Service Station
2160 Otis Drive
Alameda, California
Incident #98995140
Cambria Project #243-0627-002

JUL 2 4 2001

Continue w/ dam

Dear Mr. Chan:

On behalf of Equiva Services LLC, Cambria Environmental Technology, Inc. (Cambria) is submitting this groundwater monitoring report in accordance with the reporting requirements of 23 CCR 2652d.

SECOND QUARTER 2001 ACTIVITIES

Groundwater Monitoring: Blaine Tech Services, Inc. (Blaine) of San Jose, California gauged and sampled well MW-3 and compiled the analytical data. Cambria prepared a benzene and methyl tert-butyl ether concentration map (Figure 1). Blaine's report, presenting the laboratory report and supporting field documents, is included as Attachment A.

ANTICIPATED THIRD QUARTER 2001 ACTIVITIES

Groundwater Monitoring: Blaine will gauge and sample site well MW-3 and tabulate the data. Cambria will prepare a monitoring report.

Oakland, CA
San Ramon, CA
Sonoma, CA

Cambria Environmental Technology, Inc.

1144 65th Street
Suite B
Oakland, CA 94608
Tel (510) 420-0700
Fax (510) 420-9170

CLOSING

We appreciate the opportunity to work with you on this project. Please call Jacquelyn Jones at (510) 420-3316 if you have any questions or comments.

Sincerely,
Cambria Environmental Technology, Inc

Jacquelyn L. Jones
Project Geologist

Stephan Bork, C.E.G., C. HG.
Associate Hydrogeologist

REGISTERED GEOLOGIST
STEPHAN A. BORK
No. EG 2058
CERTIFIED
ENGINEERING
GEOLOGIST
STATE OF CALIFORNIA

Figures: 1 - Benzene and MTBE Concentration Map

Attachment: A - Blaine Groundwater Monitoring Report and Field Notes

cc: Karen Petryna, Equiva Services LLC, P.O. Box 7869, Burbank, California 91510-7869
Harsch Investment Group, 523 West Plaza, Alameda, California 94501

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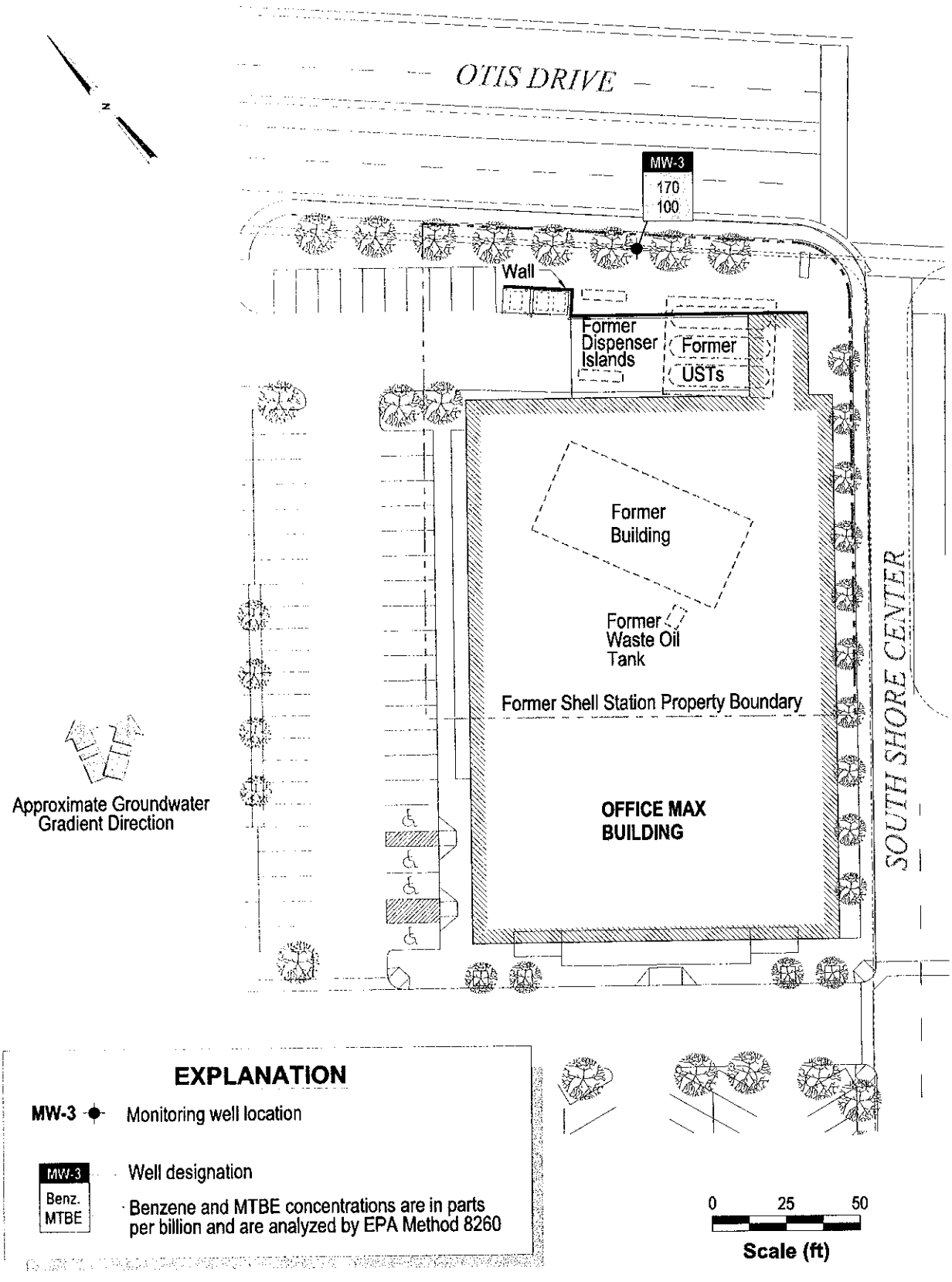

G:\ALAMEDA 2160 OTIS\FIGURES\2QM01-MP.DWG

FIGURE
1

Former Shell Service Station
2160 Otis Street
Alameda, California
Incident #98995140

CAMBRIA

Benzene and MTBE Concentration Map

May 31, 2001

ATTACHMENT A

Blaine Groundwater Monitoring Report and Field Notes

BLAINE
TECH SERVICES INC.

1680 ROGERS AVENUE
SAN JOSE, CA 95112-1105
(408) 573-7771 FAX
(408) 573-0555 PHONE
CONTRACTOR'S LICENSE #746684
www.blainetech.com

June 20, 2001

Karen Petryna
Equiva Services LLC
P.O. Box 7869
Burbank, CA 91510-7869

Second Quarter 2001 Groundwater Monitoring at
Former Shell Service Station
2160 Otis Drive
Alameda, CA

Monitoring performed on May 31, 2001

Groundwater Monitoring Report **010531-C-2**

This report covers the routine monitoring of groundwater wells at this Shell-branded facility. 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,

Nick Sudano
Project Coordinator

NS/jt

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

cc: Anni Kreml
Cambria Environmental Technology, Inc.
1144 65th Street, Suite C
Oakland, CA 94608-2411

WELL CONCENTRATIONS
Former Shell Service Station
2160 Otis Street
Alameda, CA

Well ID	Date	TPPH (ug/L)	TEPH (ug/L)	B (ug/L)	T (ug/L)	E (ug/L)	X (ug/L)	MTBE 8020 (ug/L)	MTBE 8260 (ug/L)	TOC (MSL)	Depth to Water (ft.)	GW Elevation (MSL)
MW-3	03/21/2001	NA	NA	NA	NA	NA	NA	NA	NA	NA	5.23	NA
MW-3	03/23/2001	1,000	1,100	80	16	7.9	72	NA	72	NA	5.21	NA
MW-3	**05/31/2001**	**3,100**	**<1,500**	**170**	**50**	**150**	**340**	**NA**	**100**	**NA**	**5.57**	**NA**

Abbreviations:

TPPH = Total petroleum hydrocarbons as gasoline by modified EPA Method 8260B

TEPH = Total extractable hydrocarbons as diesel by modified EPA Method 8015

BTEX = benzene, toluene, ethylbenzene, xylenes by EPA Method 8260B

MTBE = methyl-tertiary-butyl ether

TOC = Top of Casing Elevation

GW = Groundwater

ug/L = parts per billion

msl = Mean sea level

ft = Feet

<n = Below detection limit

KIFF ANALYTICAL LLC

Report Number : 20537
Date : 6/14/2001

Nick Sudano
Blaine Tech Services
1680 Rogers Avenue
San Jose, CA 95112-1105

Subject : 1 Water Sample
Project Name : 2160 Otis Drive, Alameda
Project Number : 010531-C2
P.O. Number : 98995140

Dear Mr. Sudano,

Chemical analysis of the samples referenced above has been completed. Summaries of the data are contained on the following pages. Sample(s) were received under documented chain-of-custody. US EPA protocols for sample storage and preservation were followed.

Kiff Analytical is certified by the State of California (# 2236). If you have any questions regarding procedures or results, please call me at 530-297-4800.

Sincerely,

Joel Kiff

Joel Kiff

KIFF ANALYTICAL LLC

Report Number : 20537
Date : 6/14/2001

Subject : 1 Water Sample
Project Name : 2160 Otis Drive, Alameda
Project Number : 010531-C2
P.O. Number : 98995140

Case Narrative

The Method Reporting Limit for TPH as Diesel has been increased due to interference from Gasoline-Range Hydrocarbons for the following sample :

MW-3

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 916-297-4800

KIFF ANALYTICAL LLC

Report Number : 20537
Date : 6/14/2001

Project Name : **2160 Otis Drive, Alameda**
Project Number : **010531-C2**

Sample : **MW-3** Matrix : Water Lab Number : 20537-01
Sample Date :5/31/2001

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**170**	1.0	ug/L	EPA 8260B	6/9/2001
Toluene	**50**	1.0	ug/L	EPA 8260B	6/9/2001
Ethylbenzene	**150**	1.0	ug/L	EPA 8260B	6/9/2001
Total Xylenes	**340**	1.0	ug/L	EPA 8260B	6/9/2001
Methyl-t-butyl ether (MTBE)	**100**	1.0	ug/L	EPA 8260B	6/9/2001
TPH as Gasoline	**3100**	100	ug/L	EPA 8260B	6/9/2001
Toluene - d8 (Surr)	99.8		% Recovery	EPA 8260B	6/9/2001
4-Bromofluorobenzene (Surr)	98.8		% Recovery	EPA 8260B	6/9/2001
TPH as Diesel	**< 1500**	1500	ug/L	M EPA 8015	6/6/2001

Approved By: Joel Kiff

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 20537

Date : 6/14/2001

Project Name : **2160 Otis Drive, Alameda**

Project Number : **010531-C2**

20537 Quality Control Data - Method Blank

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
Benzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/6/2001
Toluene	**< 0.50**	0.50	ug/L	EPA 8260B	6/6/2001
Ethylbenzene	**< 0.50**	0.50	ug/L	EPA 8260B	6/6/2001
Total Xylenes	**< 0.50**	0.50	ug/L	EPA 8260B	6/6/2001
Methyl-t-butyl ether (MTBE)	**< 0.50**	0.50	ug/L	EPA 8260B	6/6/2001
TPH as Gasoline	**< 50**	50	ug/L	EPA 8260B	6/6/2001
Toluene - d8 (Surr)	99.7		% Recovery	EPA 8260B	6/6/2001
4-Bromofluorobenzene (Surr)	111		% Recovery	EPA 8260B	6/6/2001

Approved By: Joel Kiff

Report Number : 20537

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 6/14/2001

Project Name : **2160 Otis Drive, Alameda**

Project Number : **010531-C2**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Spike Recovery Data														
Benzene	20538-01	<0.50	24.6	24.8	25.0	25.5	ug/L	EPA 8260B	6/6/2001	101	103	1.33	70-130	25
Toluene	20538-01	<0.50	24.6	24.8	23.5	24.0	ug/L	EPA 8260B	6/6/2001	95.3	96.7	1.52	70-130	25
Tert-Butanol	20538-01	8.4	24.6	24.8	29.4	31.9	ug/L	EPA 8260B	6/6/2001	85.2	94.4	10.2	70-130	25
Methyl-t-Butyl Ether	20538-01	<0.50	24.6	24.8	24.9	25.0	ug/L	EPA 8260B	6/6/2001	101	100	0.476	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 20537

Date : 6/14/2001

QC Report : Laboratory Control Sample (LCS)

Project Name : **2160 Otis Drive, Alameda**

Project Number : **010531-C2**

Parameter	Spike Level	Units	Analysis Method	Date Analyzed	LCS Percent Recov.	LCS Percent Recov. Limit
Benzene	20.0	ug/L	EPA 8260B	6/6/2001	97.7	70-130
Toluene	20.0	ug/L	EPA 8260B	6/6/2001	94.8	70-130
Tert-Butanol	100	ug/L	EPA 8260B	6/6/2001	91.9	70-130
Methyl-t-Butyl Ether	20.0	ug/L	EPA 8260B	6/6/2001	102	70-130

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

Report Number : 20537

Date : 6/14/2001

Project Name : **2160 Otis Drive, Alameda**

Project Number : **010531-C2**

20537 Quality Control Data - Method Blank

Parameter	Measured Value	Method Reporting Limit	Units	Analysis Method	Date Analyzed
TPH as Diesel	**< 50**	50	ug/L	M EPA 8015	6/5/2001

Approved By: Joel Kiff

Report Number : 20537

QC Report : Matrix Spike/ Matrix Spike Duplicate

Date : 6/14/2001

Project Name : **2160 Otis Drive, Alameda**

Project Number : **010531-C2**

Parameter	Spiked Sample	Sample Value	Spike Level	Spike Dup. Level	Spiked Sample Value	Duplicate Spiked Sample Value	Units	Analysis Method	Date Analyzed	Spiked Sample Percent Recov.	Duplicate Spiked Sample Percent Recov.	Relative Percent Diff.	Spiked Sample Percent Recov. Limit	Relative Percent Diff. Limit
Spike Recovery Data														
TPH as Diesel	Blank	<50	1000	1000	942	986	ug/L	M EPA 8015	6/5/2001	94.2	98.6	4.56	70-130	25

Approved By: Joel Kiff

KIFF ANALYTICAL, LLC

720 Olive Drive, Suite D Davis, CA 95616 530-297-4800

LAB: Kiff

EQUIVA Services LLC Chain Of Custody Record

20537

Lab Identification (if necessary):

Address:

City, State, Zip:

Equiva Project Manager to be invoiced:

☒ SCIENCE & ENGINEERING
☐ TECHNICAL SERVICES
☐ HOUT HOUSTON

Karen Petryna

RODER NUMBER (LAB ONLY): 9 8 9 9 5 1 4 0

DATE: 5-31-01

PAGE: 1 of 1

CONSULTANT COMPANY: Blaine Tech Services

ADDRESS: 1668 Rogers Avenue

CITY: San Jose, CA 95112

TELEPHONE: 408-573-0555 FAX: 408-573-7771 E-MAIL: nsudano@blainetech.com

SITE ADDRESS (Street and City): 2160 Otis Drive, Alameda

PROJECT CONTACT (Report to): Nick Sudano

CONSULTANT PROJECT NO.: BTS # 010531-C2

SAMPLER NAME(S) (Print): Hank Castro

LAB USE ONLY

TURNAROUND TIME (BUSINESS DAYS): ☒ 10 DAYS ☐ 5 DAYS ☐ 72 HOURS ☐ 48 HOURS ☐ 24 HOURS ☐ LESS THAN 24 HOURS

☐ LA - RWQCB REPORT FORMAT ☐ UST AGENCY: _____

GC/MS MTBE CONFIRMATION: HIGHEST _____ HIGHEST per BORING _____ ALL _____

SPECIAL INSTRUCTIONS OR NOTES: TEMPERATURE ON RECEIPT C°

REQUESTED ANALYSIS

LAB USE ONLY	Field Sample Identification	SAMPLING DATE	SAMPLING TIME	MATRIX	NO. OF CONT.	TPH - Gas, Purgeable (8260)	BTEX (8260)	MTBE (8260)		TPH - Diesel, Extractable (8015m)	Oxygenates (5) by (8260B)	Ethanol (8260B)	Methanol	MTBE (8260B) Confirmation, See Note		TPH - Gas, Purgeable (8015M)	BTEX (8020)	MTBE (8020)							FIELD NOTES: Container/Preservative or PID Readings or Laboratory Notes
	MW-3	5/31	1241	W	6	X	XX	X		X															

Relinquished by: (Signature) Hank Castro	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature)	Date:	Time:
Relinquished by: (Signature)	Received by: (Signature) Daniel Burns	Date: 060101	Time: 1215

DISTRIBUTION: White with final report, Green to File, Yellow and Pink to Client.

10/16/00 Revision

O&Q Graphics (714) 898-9702

WELL GAUGING DATA

Project # 010531-C2 Date 5-31-01 Client Equiva

Site 2160 Otis Dr.

Well ID	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	
MW-3	2					5.57	17.87	TOC	

EQUIVA WELL MONITORING DATA SHEET

BTS #: 010531-C2	Site: 2160 Otis Dr.
Sampler: Hank	Date: 5-31-01
Well I.D.: MW-3	Well Diameter: (2) 3 4 6 8 ___
Total Well Depth: 17.88	Depth to Water: 5.57
Depth to Free Product:	Thickness of Free Product (feet):
Referenced to: (PVC) Grade	D.O. Meter (if req'd): YSI HACH

Purge Method:

- Bailer
- ✓ Disposable Bailer
- Middleburg
- Electric Submersible
- Waterra
- Peristaltic
- Extraction Pump
- Other_____

Sampling Method: Bailer

- ✓ Disposable Bailer
- Extraction Port
- Dedicated Tubing
- Other: _____

1.9 (Gals.) X	3	= 5.7 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.	Turbidity	Gals. Removed	Observations
1228	71.6	7.3	4977	>200	1.9	Odor (Strong)
1232	71.3	7.3	4689	>200	3.8	
1236	71.2	7.4	4781	>200	5.7	↓

Did well dewater? Yes (No) Gallons actually evacuated: 5.7

Sampling Time: 1241 Sampling Date: 5-31-01

Sample I.D.: MW-3 Laboratory: Sequoia Columbia Other Kiff

Analyzed for: (TPH-G BTEX MTBE TPH-D) Other: MTBE by 8260

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

Analyzed for: TPH-G BTEX MTBE TPH-D 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