



**CAMBRIA**  
Environmental Technology, Inc.

ENVIRONMENTAL  
PROTECTION

95 JUL 15 AM 8:55

July 15, 1996

Dale Klettke  
Alameda County Department of  
Environmental Health  
UST Local Oversight Program  
1131 Harbor Bay Parkway, 2nd Floor  
Alameda, CA 94502

STD  
SIS

Re: **Second Quarter 1996 Monitoring Report**  
3055 35th Avenue  
Oakland, California  
Cambria Project #13-105-104

Dear Mr. Klettke:

This report summarizes the second quarter 1996 ground water monitoring results for the site referenced above. We also describe the anticipated third quarter 1996 activities and the current hydrocarbon distribution in ground water.

**SECOND QUARTER 1996 ACTIVITIES**

**Quarterly Ground Water Sampling:** On May 21, 1996, Blaine Tech Services, Inc. of San Jose, California (Blaine) collected ground water samples from wells MW-1, MW-2, and MW-3 May 21, 1996. The samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), benzene, toluene, ethylbenzene and xylenes (BTEX), total petroleum hydrocarbons as diesel (TPHd), and methyl tert-butyl ether (MTBE). Blaine also gauged all site wells and checked them for liquid-phase hydrocarbons. No liquid-phase hydrocarbons were detected.

**Feasibility Testing:** On July 2 and 3, 1996, Cambria mobilized to the site and conducted a two-day feasibility test to determine whether a combination of ground water extraction (GWE) and soil vapor extraction (SVE) or a combination of air sparging (AS) and SVE would be effective at removing hydrocarbons beneath and downgradient of the former tanks and pump island. Preliminary results indicate that although SVE flow rates are increased ~~by~~ greatly by combining GWE and SVE, it may be more effective to remediate the site using SVE and AS. A full test report will be submitted shortly.

**Work Plan Submittal:** Cambria submitted an investigation work plan to define the down gradient extent of hydrocarbons in ground water.



Dale Klettke  
July 15, 1996

CAMBRIA

### ANTICIPATED THIRD QUARTER 1996 ACTIVITIES

**Quarterly Ground Water Sampling:** Blaine will gauge all site wells, check the wells for liquid-phase hydrocarbons, and collect water samples from the wells. Cambria will tabulate the data and prepare a quarterly monitoring report.

**Subsurface Investigation:** Once approved, Cambria will implement the investigation work plan.

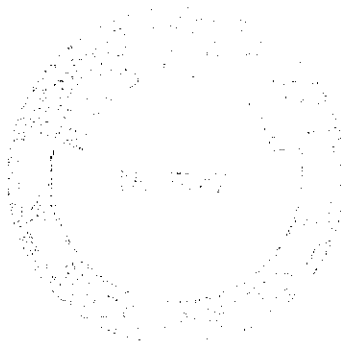
### HYDROCARBON DISTRIBUTION IN GROUND WATER

TPHg and benzene were detected in well MW-3, located southwest of the former underground gasoline tanks, at concentrations of 69,000 and 17,000 parts per billion (ppb) respectively (Table 1). Ground water elevations this quarter indicate that ground water flows toward the northwest (Figure 1).

Please call if you have any questions or comments.

Sincerely,  
Cambria Environmental Technology, Inc.

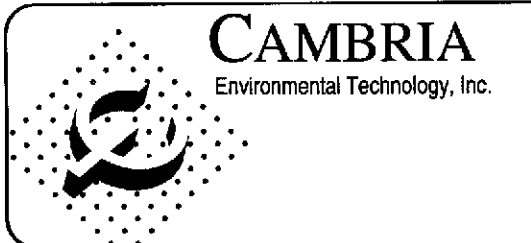
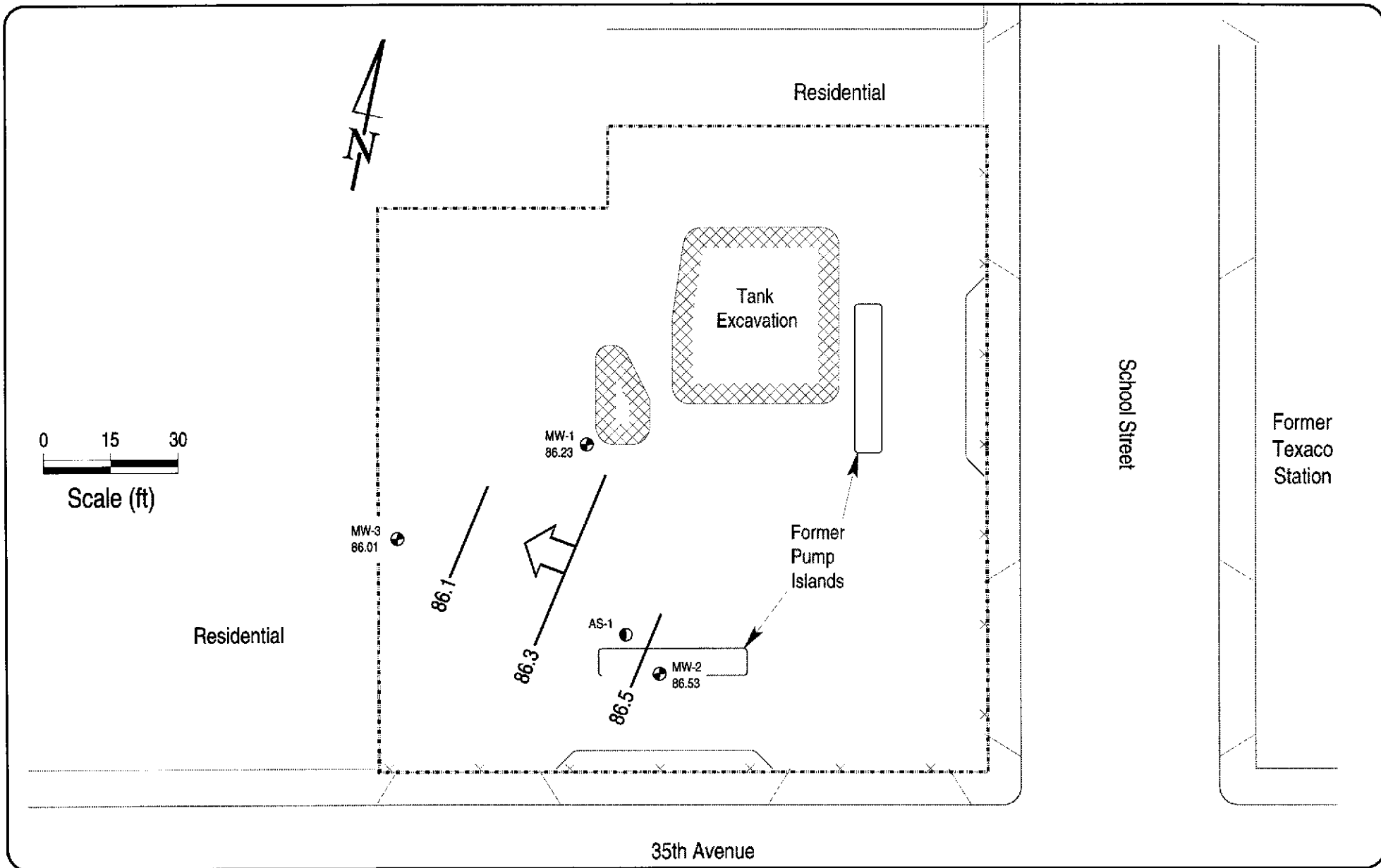
  
N. Scott MacLeod, R.G.  
Principal Geologist



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Attachments: A - Analytic Reports for Ground Water

cc: Lynn Worthington, Gold Empire Properties, Inc., 5942 MacArthur Boulevard, Suite B, Oakland, CA 94605



EXPLANATION	
MW-3 85.01	Monitoring Well and Ground Water Elevation
←	Estimated Ground Water Flow Direction
AS-1	Air Sparge Well
— 79.25	Ground Water Elevation Contour

Ground Water Elevations  
May 21, 1996  
3055 35th Avenue  
Oakland, California

**FIGURE**  
**1**

**Table 1. Ground Water Elevation and Analytic Data - 3055 35th Avenue, Oakland, California**

Well ID (quarters sampled)	Date	GW Depth (ft)	LPH (ft)	GW Elev. (ft)	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
-----ppb----->												
MW-1	5/25/94	16.79	Sheen	84.06	120,000	25,000	<50,000	22,000	17,000	2,800	16,000	---
(all)	7/19/94	20.77	---	80.08	---	---	---	---	---	---	---	---
TOC = 100.85	8/18/94	21.04	Sheen	79.81	925,000	---	---	16,500	6,200	1,000	9,400	---
	11/11/94	15.80	---	85.05	57,000	---	---	14,000	4,400	1,400	6,400	---
	2/27/95	15.53	---	85.32	45,000	---	---	2,900	2,500	760	4,100	---
	5/23/95	15.29	---	85.56	22,000	---	---	9,900	990	790	2,000	---
	8/22/95	20.90	---	79.95	23,000	---	---	6,900	340	1,200	1,900	---
	11/29/95	22.19	---	78.66	37,000	---	---	9,900	530	1,600	2,900	---
	2/21/96	11.69	---	89.16	33,000	4,300	---	10,000	480	1,000	1,800	3,300
	5/21/96	14.62	---	86.23	36,000	---	---	8,000	6,400	1,300	2,800	---
MW-2	5/25/94	15.65	---	84.35	61,000	6,900	<5,000	9,900	7,400	960	4,600	---
(all)	7/19/94	19.81	---	80.19	---	---	---	---	---	---	---	---
TOC = 100.00	8/18/94	20.37	---	79.63	88,000	---	---	10,750	10,500	1,850	9,600	---
	11/11/94	15.52	---	84.48	54,000	---	---	5,900	6,700	1,300	7,500	---
	2/27/95	14.46	Sheen	85.54	44,000	---	---	5,100	5,300	930	6,400	---
	5/23/95	14.17	---	85.83	33,000	---	---	8,200	5,600	900	6,600	---
	8/22/95	19.80	---	80.20	38,000	---	---	6,400	5,000	1,100	5,600	---
	11/29/95	21.05	---	78.95	46,000	---	---	7,100	5,300	1,300	6,000	---
	2/21/96	10.53	---	89.47	59,000	---	---	8,000	6,000	1,800	8,900	4,500
	5/21/96	13.47	---	87.59	51,000	---	---	8,000	6,000	1,300	8,000	---

**Table 1. Ground Water Elevation and Analytic Data - 3055 35th Avenue, Oakland, California**

Well ID (quarters sampled)	Date	GW Depth (ft)	LPH (ft)	GW Elev. (ft)	TPHg	TPHd	TPHmo	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
-----ppb----->												
MW-3	5/25/94	13.93	Sheen	82.94	56,000	14,000	<50,000	14,000	14,000	1,300	11,000	---
(all)	7/19/94	17.04	---	79.83	---	---	---	---	---	---	---	---
TOC = 96.87	8/18/94	17.75	---	79.12	116,000	---	---	28,300	26,000	2,400	15,000	---
	11/11/94	17.80	---	79.07	89,000	---	---	1,600	1,900	1,900	14,000	---
	2/27/95	11.86	Sheen	85.01	250,000	---	---	22,000	26,000	7,800	21,000	---
	5/23/95	11.60	Sheen	85.27	310,000	---	---	18,000	17,000	4,500	2,800	---
	8/22/95	17.10	---	79.77	74,000	---	---	14,000	13,000	1,900	11,000	---
	11/29/95	16.34	---	80.53	220,000	---	---	25,000	25,000	3,500	19,000	---
	2/21/96	7.92	---	88.95	60,000	---	---	10,000	7,800	1,500	8,800	3,400
	5/21/96	10.86	Sheen	86.01	116,000	14,000	---	17,000	9,400	1,200	9,400	---

**Abbreviations:**

TOC = Top of casing elevation with respect to an onsite benchmark  
 GW = Ground water  
 LPH = Liquid-phase hydrocarbons  
 TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015  
 TPHmo = Total petroleum hydrocarbons as motor oil by modified EPA Method 8015  
 MTBE = Methyl Tertiary-Butyl Ether by modified EPA Method 8020

**Notes:**

Benzene, Ethylbenzene, Toluene, and Xylenes by EPA Method 8020

CAMBRIA

**ATTACHMENT A**

Analytic Reports for Ground Water



NATIONAL  
ENVIRONMENTAL  
TESTING, INC.

Santa Rosa Division  
3636 North Laughlin Road  
Suite 110  
Santa Rosa, CA 95403-8226  
Tel: (707) 526-7200  
Fax: (707) 541-2333

Scott Macleod  
Cambria Env. Technology  
1144 65th Street  
Suite C  
Oakland, CA 94608

Date: 06/05/1996  
NET Client Acct. No: 98900  
NET Job No: 96.01677  
Received: 05/23/1996

**Client Reference Information**

3055 35th Ave., Oakland, CA./960521-K1

Sample analysis in support of the project referenced above has been completed and results are presented on the following pages. Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety. Please refer to the enclosed "Key to Abbreviations" for definition of terms. Should you have questions regarding procedures or results, please feel free to call me at (707) 541-2305.

Submitted by:

A handwritten signature in cursive script that reads "Ginger Brinlee". The signature is written over a horizontal line.

Ginger Brinlee  
Project Coordinator

Enclosure(s)

Client Name: Cambria Env. Technology  
 Client Acct: 98900  
 NET Job No: 96.01677

Date: 06/05/1996  
 ELAP Cert: 1386  
 Page: 2

Ref: 3055 35th Ave., Oakland, CA./960521-K1

SAMPLE DESCRIPTION: MW1  
 Date Taken: 05/21/1996  
 Time Taken: 10:00  
 NET Sample No: 264445

Parameter	Results	Flags	Reporting		Method	Date	Date	Run
			Limit	Units		Extracted	Analyzed	Batch
TPH (Gas/BTEX, Liquid)								
5030/M8015	--						05/24/1996	3646
DILUTION FACTOR*	100						05/24/1996	3646
as Gasoline	36		5.0	mg/L	5030		05/24/1996	3646
8020 (GC, Liquid)								
Benzene	8,500	PI	500	ug/L	8020		05/28/1996	3647
Toluene	1,400		50	ug/L	8020		05/24/1996	3646
Ethylbenzene	1,300		50	ug/L	8020		05/24/1996	3646
Xylenes (Total)	2,800		50	ug/L	8020		05/24/1996	3646
Methyl-tert-butyl ether	1,900		200	ug/L	8020		05/24/1996	3646
SURROGATE RESULTS								
Bromofluorobenzene (SURR)	84			t Rec.	5030		05/24/1996	3646
M8015 (EXT., Liquid)								
DILUTION FACTOR*	5					05/28/1996		
as Diesel	8.5	B-O, DL	0.2	mg/L	3510		06/01/1996	1232

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.



Client Name: Cambria Env. Technology  
 Client Acct: 98900  
 NET Job No: 96.01677

Date: 06/05/1996  
 ELAP Cert: 1386  
 Page: 3

Ref: 3055 35th Ave., Oakland, CA./960521-K1

SAMPLE DESCRIPTION: MW2

Date Taken: 05/21/1996

Time Taken: 09:20

NET Sample No: 264446

Parameter	Results	Flags	Reporting			Method	Date	Date	Run
			Limit	Units	Extracted		Analyzed	Batch	
TPH (Gas/BTKE, Liquid)									
5030/M8015	--						05/24/1996		3646
DILUTION FACTOR*	100						05/24/1996		3646
as Gasoline	51		5.0	mg/L	5030		05/24/1996		3646
8020 (GC, Liquid)	--						05/24/1996		3646
Benzene	8,200	FI	500	ug/L	8020		05/28/1996		3647
Toluene	5,200	FI	500	ug/L	8020		05/28/1996		3647
Ethylbenzene	1,300		50	ug/L	8020		05/24/1996		3646
Xylenes (Total)	6,600		50	ug/L	8020		05/24/1996		3646
Methyl-tert-butyl ether	2,400		200	ug/L	8020		05/24/1996		3646
SURROGATE RESULTS	--						05/24/1996		3646
Bromofluorobenzene (SURR)	87			% Rec.	5030		05/24/1996		3646
M8015 (EXT., Liquid)							05/28/1996		
DILUTION FACTOR*	1						06/01/1996		1232
as Diesel	3.4	B-O, DL	0.050	mg/L	3510		06/01/1996		1232

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Cambria Env. Technology  
 Client Acct: 98900  
 NET Job No: 96.01677

Date: 06/05/1996  
 ELAP Cert: 1386  
 Page: 4

Ref: 3055 35th Ave., Oakland, CA./960521-K1

SAMPLE DESCRIPTION: MW3

Date Taken: 05/21/1996

Time Taken: 09:40

NET Sample No: 264447

Parameter	Results	Flags	Reporting			Method	Date	Date	Run Batch No.
			Limit	Units	Extracted		Analyzed		
TPH (Gas/BTEX, Liquid)									
5030/M8015	--						05/24/1996		3646
DILUTION FACTOR*	100						05/24/1996		3646
as Gasoline	69		5.0	mg/L	5030		05/24/1996		3646
8020 (GC, Liquid)									
Benzene	17,000	FI	500	ug/L	8020		05/28/1996		3647
Toluene	9,400	FI	500	ug/L	8020		05/28/1996		3647
Ethylbenzene	1,700		50	ug/L	8020		05/24/1996		3646
Xylenes (Total)	9,400		50	ug/L	8020		05/24/1996		3646
Methyl-tert-butyl ether	2,600		200	ug/L	8020		05/24/1996		3646
SURROGATE RESULTS									
Bromofluorobenzene (SURR)	87			% Rec.	5030		05/24/1996		3646
M8015 (EXT., Liquid)									
DILUTION FACTOR*	5						05/28/1996		
as Diesel	13	B-O,DL	0.2	mg/L	3510		06/04/1996		1232

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Cambria Env. Technology  
 Client Acct: 98900  
 NET Job No: 96.01677

Date: 06/05/1996  
 ELAP Cert: 1386  
 Page: 5

Ref: 3055 35th Ave., Oakland, CA./960521-K1

## CONTINUING CALIBRATION VERIFICATION STANDARD REPORT

Parameter	CCV	CCV	CCV	Flags	Units	Date Analyzed	Analyst Initials	Run Batch Number
	Standard % Recovery	Standard Amount Found	Standard Amount Expected					
TPH (Gas/BTEX, Liquid)								
as Gasoline	100.0	0.50	0.50		mg/L	05/28/1996	aal	3647
Benzene	104.5	20.9	20.0		ug/L	05/28/1996	aal	3647
Toluene	97.0	19.4	20.0		ug/L	05/28/1996	aal	3647
Ethylbenzene	96.0	19.2	20.0		ug/L	05/28/1996	aal	3647
Xylenes (Total)	94.7	56.8	60.0		ug/L	05/28/1996	aal	3647
Methyl-tert-butyl ether		--	80.0		ug/L	05/28/1996	aal	3647
Bromofluorobenzene (SURR)	77.0	77	100		% Rec.	05/28/1996	aal	3647
M8015 (EXT., Liquid)								
as Diesel	90.1	901	1000		mg/L	05/31/1996	dla	1232
M8015 (EXT., Liquid)								
as Diesel	93.3	933	1000		mg/L	06/04/1996	dla	1232

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Cambria Env. Technology  
Client Acct: 98900  
NET Job No: 96.01677

Date: 06/05/1996  
ELAP Cert: 1386  
Page: 6

Ref: 3055 35th Ave., Oakland, CA./960521-K1

## METHOD BLANK REPORT

Parameter	Method	Reporting	Flags	Units	Date	Analyst	Run
	Blank						
TPH (Gas/BTEX, Liquid)							
as Gasoline	ND	0.050		ng/L	05/28/1996	aal	3647
Benzene	ND	0.50		ug/L	05/28/1996	aal	3647
Toluene	ND	0.50		ug/L	05/28/1996	aal	3647
Ethylbenzene	ND	0.50		ug/L	05/28/1996	aal	3647
Xylenes (Total)	ND	0.50		ug/L	05/28/1996	aal	3647
Methyl-tert-butyl ether	--	2.0		ug/L	05/28/1996	aal	3647
Bromofluorobenzene (SURR)	84			* Rec.	05/28/1996	aal	3647

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

Client Name: Cambria Env. Technology  
 Client Acct: 98900  
 NET Job No: 96.01677

Date: 06/05/1996  
 ELAP Cert: 1386  
 Page: 7

Ref: 3055 35th Ave., Oakland, CA./960521-K1

## MATRIX SPIKE / MATRIX SPIKE DUPLICATE

Parameter	Matrix Spike			Spike Amount	Sample Conc.	Matrix Spike Dup.			Flags	Units	Date Analyzed	Run Batch	Sample Spiked
	% Rec.	% Rec.	RPD			Conc.	Conc.	Conc.					
TPH (Gas/BTEX, Liquid)													264471
as Gasoline	100.0	98.0	1.9	0.50	ND	0.50	0.49			mg/L	05/28/1996	3647	264471
Benzene	112.4	111.8	0.5	6.51	ND	7.32	7.28			ug/L	05/28/1996	3647	264471
Toluene	115.1	114.0	1.0	34.4	ND	39.6	39.2			ug/L	05/28/1996	3647	264471
Bromofluorobenzene (SURR)	84.0	83.0	1.2	100	74	84	83			% Rec.	05/28/1996	3647	264471

NOTE: Results apply only to the samples analyzed. Reproduction of this report is permitted only in its entirety.

## KEY TO RESULT FLAGS

\* : RPD between sample duplicates exceeds 30%.

\*M : RPD between sample duplicates or MS/MSD exceeds 20%.

+ : Correlation coefficient for the Method of Standard Additions is less than 0.995.

< : Sample result is less than reported value.

B-I : Value is between Method Detection Limit and Reporting Limit.

B-0 : Analyte found in blank and sample.

C : The result confirmed by secondary column or GC/MS analysis.

CNA : Cr+6 not analyzed; Total Chromium concentration below Cr+6 regulatory level.

COMP : Sample composited by equal volume prior to analysis.

D- : The result has an atypical pattern for Diesel analysis.

D1 : The result for Diesel is an unknown hydrocarbon which consists of a single peak.

DH : The result appears to be a heavier hydrocarbon than Diesel.

DL : The result appears to be a lighter hydrocarbon than Diesel.

DR : Elevated Reporting Limit due to Matrix.

DS : Surrogate diluted out of range.

DX : The result for Diesel is an unknown hydrocarbon which consists of several peaks.

FA : Compound quantitated at a 2X dilution factor.

FB : Compound quantitated at a 5X dilution factor.

FC : Compound quantitated at a 10X dilution factor.

FD : Compound quantitated at a 20X dilution factor.

FE : Compound quantitated at a 50X dilution factor.

FF : Compound quantitated at a 100X dilution factor.

FG : Compound quantitated at a 200X dilution factor.

FH : Compound quantitated at a 500X dilution factor.

FI : Compound quantitated at a 1000X dilution factor.

FJ : Compound quantitated at a greater than 1000x dilution factor.

FK : Compound quantitated at a 25X dilution factor.

FL : Compound quantitated at a 250X dilution factor.

G- : The result has an atypical pattern for Gasoline.

G1 : The result for Gasoline is an unknown hydrocarbon which consists of a single peak.

GH : The result appears to be a heavier hydrocarbon than Gasoline.

GL : The result appears to be a lighter hydrocarbon than Gasoline.

GX : The result for Gasoline is an unknown hydrocarbon which consists of several peaks.

HT : Analysis performed outside of the method specified holding time.

HTC : Confirmation analyzed outside of the method specified holding time.

HTP : Prep procedure performed outside of the method specified holding time.

HX : Peaks detected within the quantitation range do not match standard used.

J : Value is estimated.

MI : Matrix Interference Suspected.

MSA : Value determined by Method of Standard Additions.

MSA\* : Value obtained by Method of Standard Additions; Correlation coefficient is <0.995.

NI1 : Sample spikes outside of QC limits; matrix interference suspected.

NI2 : Sample concentration is greater than 4X the spiked value; the spiked value is considered insignificant.

NI3 : Matrix Spike values exceed established QC limits, post digestion spike is in control.

P7 : pH of sample > 2; sample analyzed past 7 days.

RSC : Refer to subcontract laboratory report for QC data.

S2 : Matrix interference confirmed by repeat analysis.

SCN : Thiocyanate not analyzed separately; total value is below the Reporting Limit for Free Cyanide.

UMDL : Undetected at the Method Detection Limit.

# BLAINE

TECH SERVICES INC.

985 TIMOTHY DRIVE  
SAN JOSE, CA 95133  
(408) 995-5535  
FAX (408) 293-8773

13534

CONDUCT ANALYSIS TO DETECT

LAB **NET**

DHS #

ALL ANALYSES MUST MEET SPECIFICATIONS AND DETECTION LIMITS SET BY CALIFORNIA DHS AND

- EPA
- LIA
- OTHER
- RWQCB REGION \_\_\_\_\_

CHAIN OF CUSTODY  
 950521-1C1  
 CLIENT *Cambria Environmental*  
 SITE *35th Ave*  
*3055 35th Ave.*  
*OAKLAND, CA.*

C = COMPOSITE ALL CONTAINERS

TPH-GAS, BTEX  
 TPH-DIESEL  
 MTBE

SPECIAL INSTRUCTIONS  
*INVOICE & REPORT*  
*to Scott MacLeod*  
*Cambria Environmental*  
*Proj. # 20-105-04*

SAMPLE I.D.	MATRIX S = SOIL W = H2O	CONTAINERS		C = COMPOSITE ALL CONTAINERS	ADDITIONAL INFORMATION	STATUS	CONDITION	LAB SAMPLE #
		TOTAL						
NW1	W	5		X				
NW2	↓	↓		X				
NW3	↓	↓		X				

CUSTODY SEALED  
 Date *5/22/96* Time *1625* Initials *CB*  
 SEAL INTACT?  
 Yes  No  Initials *CB*  
 VIA *NCS*

SAMPLING COMPLETED	DATE	TIME	SAMPLING PERFORMED BY	RESULTS NEEDED NO LATER THAN	
	<i>5/21/96</i>	<i>1030</i>	<i>Keith Brown</i>	<i>"As Contracted"</i>	
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<i>Keith Brown</i>	<i>5/21/96</i>	<i>1005</i>	<i>P. Smart</i>	<i>5/22/96</i>	<i>1005</i>
RELEASED BY	DATE	TIME	RECEIVED BY	DATE	TIME
<i>P. Smart</i>	<i>5/22/96</i>	<i>1625</i>	<i>Phil Zasser</i>	<i>5/23/96</i>	<i>0830</i>
SHIPPED VIA	DATE SENT	TIME SENT	COOLER #	TEMP: <i>0°</i>	

# WELL GAUGING DATA

Project # 960521-K1 Date 5/21 Client Cambridge

Site 3055 35<sup>th</sup> Ave, Oakland

Well I.D.	Well Size (in.)	Sheen/Odor	Depth to Immiscible Liquid (feet)	Thickness of Immiscible Liquid (ft.)	Volume of Immiscibles Removed (ml)	Depth to Water (feet)	Depth to Well Bottom (feet)	Survey Point: TCB or TOC
well 1	4					1462	2745	TOC
well 2	4					1347	2755	
well 3	2					1086	2510	



# WELL MONITORING DATA SHEET

Project #: <u>960521-101</u>	Client: <u>Cambridge Env</u>
Sampler: <u>1493</u>	Start Date: <u>5/21</u>
Well I.D.: <u>NW1</u>	Well Diameter: (circle one) 2 3 <u>4</u> 6
Total Well Depth: Before <u>2745</u> After	Depth to Water: Before <u>1462</u> After
Depth to Free Product: _____	Thickness of Free Product (feet): _____
Measurements referenced to: <u>VCF</u> Grade Other:	

Well Diameter	VCF	Well Diameter	VCF
6"	1.47	6"	1.47
8"	2.61	8"	2.61
10"	4.08	10"	4.08
12"	5.87	12"	5.87
14"	8.00	14"	8.00
16"	10.43	16"	10.43

$$\frac{8.3}{1 \text{ Case Volume}} \times \frac{3}{\text{Specified Volumes}} = \frac{24.6}{\text{gallons}}$$

Purging: Bailer  
 Disposable Bailer  
 Middlaburg  
 Electric Submersible  
 Extraction Pump  
 Other \_\_\_\_\_

Sampling: Bailer  
 Disposable Bailer  
 Extraction Port  
 Other \_\_\_\_\_

TIME	TEMP. (F)	PH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
<u>949</u>	<u>64.8</u>	<u>6.9</u>	<u>1300</u>	<u>30.1</u>	<u>9.0</u>	<u>gas above</u>
<u>950</u>	<u>65.2</u>	<u>6.8</u>	<u>1300</u>	<u>69.8</u>	<u>18.0</u>	
<u>953</u>	<u>64.8</u>	<u>6.7</u>	<u>1300</u>	<u>57.2</u>	<u>25.0</u>	
					<u>DO-</u>	<u>0.9 mg/l</u>

Did Well Dewater? No if yes, gals. \_\_\_\_\_ Gallons Actually Evacuated: 25.0

Sampling Time: <u>1000</u>	Sampling Date: <u>5/21</u>
Sample I.D.: <u>NW1</u>	Laboratory: <u>NH</u>
Analyzed for: (Circle) <u>TPH-G</u> <u>BTEX</u> <u>TPH-D</u> <u>OTHER</u>	<u>NATBE</u>
Duplicate I.D.:	Cleaning Blank I.D.:
Analyzed for: (Circle) TPH-G BTEX TPH-D OTHER:	



# WELL MONITORING DATA SHEET

Project #: <u>960521-K1</u>	Client: <u>Cambria Env</u>
Sampler: <u>KCB</u>	Start Date: <u>5/21</u>
Well I.D.: <u>NW3</u>	Well Diameter: (circle one) <u>3</u> 4 6
Total Well Depth: Before <u>2510</u> After	Depth to Water: Before <u>1086</u> After
Depth to Free Product: <u>    </u>	Thickness of Free Product (feet):
Measurements referenced to: <u>(VCF)</u>	Grade Other:

Well Diameter	VCF	Well Diameter	VCF
1.5"	0.000	2.0"	1.47
2.0"	0.000	2.5"	2.61
2.5"	0.000	3.0"	4.08
3.0"	0.000	3.5"	5.87
4.0"	0.000	4.0"	10.43

$$\frac{2.2}{1 \text{ Case Volume}} \times \frac{3}{\text{Specified Volumes}} = \frac{6.6}{\text{gallons}}$$

Purging: Bailer Disposable Bailer <input checked="" type="checkbox"/> Middleburg Electric Submersible Extraction Pump Other _____	Sampling: Bailer Disposable Bailer <input checked="" type="checkbox"/> Extraction Port Other _____
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TIME	TEMP. (F)	pH	COND.	TURBIDITY:	VOLUME REMOVED:	OBSERVATIONS:
927	64.8	6.8	1100	83.8	2.5	clear
931	65.6	6.8	1000	80.2	5.0	strong gas
934	66.0	6.7	1000	112.5	7.0	odor

Did Well Dewater? N If yes, gals. \_\_\_\_\_ Gallons Actually Evacuated: 7.0

Sampling Time: 940 Sampling Date: 5/21

Sample I.D.: NW3 Laboratory: N/A

Analysed for: (Circle) TPH-G BTEX TPH-D OTHER  
MTBE

Duplicate I.D.: \_\_\_\_\_ Cleaning Blank I.D.: \_\_\_\_\_

Analysed for: (Circle) TPH-G BTEX TPH-D OTHER