### CAMBRIA

#### RECEIVED

3:17 pm, Oct 08, 2008

Alameda County
Environmental Health

August 14, 2003

Mr. Raymond Hien & Sang Ho 1220 E. 12<sup>th</sup> Street Oakland, CA 94606 VIA FAX (510) 534-1889

Rc: Subsurface Investigation Report

2834 E. 7<sup>th</sup> Street Oakland, California

Dear Mssrs. Hien & Ho:



Cambria Environmental Technology, Inc. has prepared this Subsurface Investigation Report for the above-referenced site. The site background, investigation activities, investigation results, and our conclusions and recommendations are described below.

#### SITE BACKGROUND

Cambria met with you (the prospective purchasers) and the sellers (Hans and Steve Oelschlaegel and Gunther Kitsch) to discuss subsurface investigation beneath the former underground storage tank (UST) at the site. The *Environmental Transaction Screen* dated May 27, 2003, prepared by AEI Consultants of Walnut Creek, recommended subsurface investigation beneath the former UST.

Mr. Kitsch indicated that the UST (1,000 gallons or less) had been used for gasoline storage at the site for approximately 4 years during the gasoline crisis in the late 1970's (about 25 years ago). The tank was removed about 2 years ago by the seller's neighbor, a contractor experienced with tank removal. Mr. Kitsch relied on the contractor's experience to remove the tank in accordance with regulatory requirements. During a brief vacation by the seller, the contractor removed the tank without a permit. According to Mr. Kitsch, during tank removal the tank looked clean with no holes and no contamination was observed in the native soil or excavation cavity. No documentation regarding the UST removal has been provided to Cambria.

The state's Geotracker database lists a site with a former UST and several groundwater monitoring wells at 630 29<sup>th</sup> Avenue, located approximately 200 feet (ft) southeast of the site on the other side of the 29<sup>th</sup> Avenue overpass. No analytical data was available for this site.

Cambria Environmental Technology, Inc.

5900 Hollis Street Suite A Emeryville, CA 94608 Tel (510) 420-0700 Fax (510) 420-9170

Mr. Raymond Hien & Sang Ho Subsurface Investigation Report August 14, 2003

#### SUBSURFACE INVESTIGATION ACTIVITIES

Cambria's investigation activities are described below.

Scope of Work: Cambria completed one boring beneath the center of the former UST

at the site. The sampling required drilling through the surface concrete and the former UST cavity, which was partially filled with brittle, slate roofing material. Cambria collected soil samples from native soil

immediately (6 to 12 inches) beneath the former UST cavity and at approximate 5 ft intervals to a total depth of 28 ft below ground

surface (bgs). Groundwater was anticipated to be approximately 15 ft bgs but was not encountered. Two soil samples were submitted to a

certified analytical laboratory as described below.

Sampling Date: July 28, 2003.

Drilling Permit: Alameda County Public Works Agency issued permit number

W03-091 for drilling one boring. The drilling permit is included in

Attachment A.

Personnel Present: Matthew Meyers, Cambria's Senior Staff Geologist performed all

field activities, which were overseen by Cambria's Senior Geologist Ron Scheele, a California Registered Geologist. Mr. Gunther Kitsch,

property owner, was also present.

Drilling Company: Vironex of San Leandro, California (C-57 License #705927)

performed the soil boring.

Number of Borings: One boring was drilled to approximately 28 ft bgs. The boring and

sampling location are shown on Figure 1.

Drilling Method: A truck-mounted, direct-push rig was used to drill the soil boring.

Sampling Method: The borings were sampled continuously using Macrocore sampling

tubes.

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Soil Types Encountered: The boring location was underlain by fill material to a depth of approximately 10 ft bgs. Fill materials consisted of sand and clayey silt materials with slate fragments and gravels. Underlying the fill were silty clays and clayey silts to the total depth explored of approximately 28 ft bgs. A boring log is presented in Attachment B.

Soil Sampling:

Soil samples were collected from the boring at a depths of 4.5, 10.5, 14.5, 18, 23.5, and 27.5 ft bgs. The 10.5 ft bgs sample was from native soil at approximately 10.5 to 11 ft bgs, which corresponds to approximately 6 to 12 inches beneath the estimated floor of the UST excavation.

Groundwater Sampling:

Groundwater was anticipated to be approximately 15 ft bgs. Cambria drilled to approximately 28 ft bgs attempting to reach groundwater. Groundwater was not encountered.

Chemical Analysis:

Soil samples were sent to state-certified McCampbell Analytical, Inc. (McCampbell) of Pacheco, California. The two soil samples collected below the UST cavity (10.5 ft and 14.5 ft bgs, respectively) were analyzed for multiple-range petroleum hydrocarbons [total petroleum hydrocarbons as gasoline (TPHg), diesel (TPHd), and motor oil (TPHmo)]; and volatile organic compounds (VOCs) including benzene, toluene, ethylbenzene, and xylenes (BTEX), oxygenate MTBE, and gasoline lead scavengers (EDB and 1,2-DCA). The sample from native soil immediately beneath the former UST (10.5 ft bgs) was also analyzed for semi-volatile organic compounds (SVOCs)

Backfill Method:

The boring was sealed to surface with bentonite-cement grout.

and LUFT metals with laboratory filtration.

Mr. Raymond Hien & Sang Ho Subsurface Investigation Report August 14, 2003

#### **INVESTIGATION RESULTS**

No TPHg, TPHd, TPHmo, VOCs, or SVOCs were detected in the soil samples from beneath the former tank. Metal concentrations appear to represent background conditions, and were below Environmental Screening Levels established by the Regional Water Quality Control Board in July 2003. Soil analytical results are summarized on Table 1. The laboratory analytical report is presented in Attachment C. No odors or soil staining was observed during the soil sampling.

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#### CONCLUSIONS AND RECOMMENDATIONS

Cambria concludes that no impact to site soil was observed beneath the removed tank. Cambria recommends using this investigation report to seek regulatory case closure for the tank removal from the City of Oakland Fire Services Agency. Because the tank was removed by a local contractor without a tank removal permit, the Fire Services Agency will likely require additional information about the tank removal. I recommend discussing this matter with the sellers and having them disclose the investigation information to the Fire Services Agency.

#### **CLOSING**

Cambria appreciates this opportunity to assist you with this project. If you have any questions, please contact me at (510) 420-3303.

Sincerely,

Cambria Environmental Technology, Inc.

Bob Clark-Riddell, PE Principal Engineer

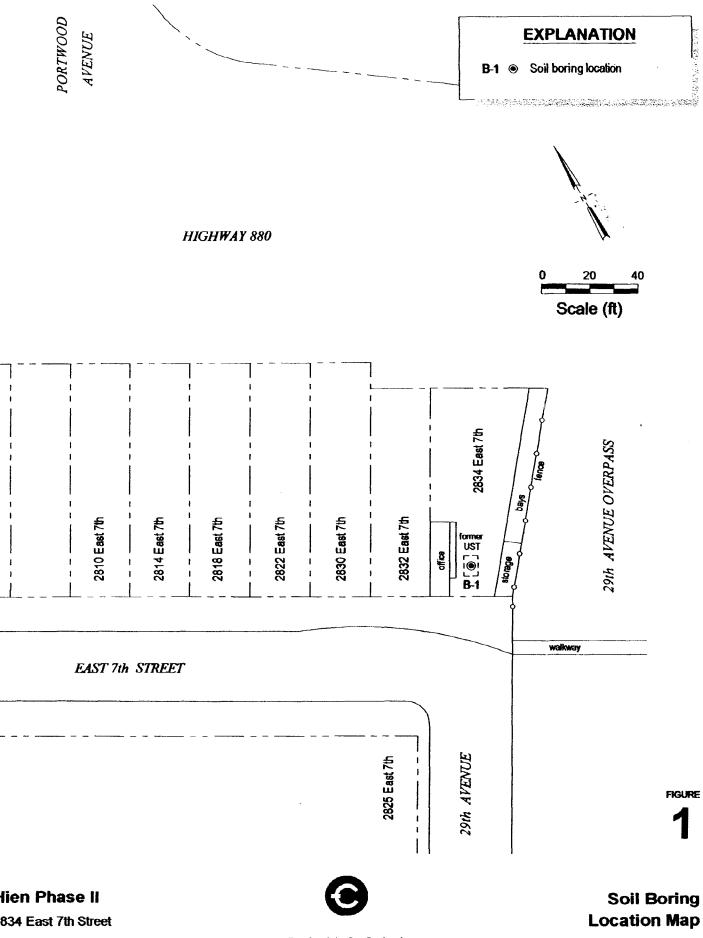
**ATTACHMENTS** 

Figure 1 – Soil Boring Location Map
Table 1 – Soil Analytical Data
Attachment A – Drilling Permit
Attachment B – Boring Log

Attachment C - Laboratory Analytical Report

Cc: Gunther Kitsch, 2325 Belvedere Avenue, San Leandro, California 94577 Steve Oelschlaegel, 1432 Via Lucas, San Lorenzo, California 94580

H:\Misc Sites\Raymond Hien (Hans & Gunther)\Report\invest report.doc



Hien Phase II 2834 East 7th Street Oakland, California



# **CAMBRIA**

Table 1: Soil Analytical Data - Petroleum Hydrocarbons: 2834 East 7th Street, Oakland, California

Sample ID	Date Sanipled	Sample Depth (ft)	TPHg <b>←</b>	ТРНа	ТРНто	Benzene		Ethyl- benzene /kg	Xylenes	мтве	VOCs	SVOCs	Cadmium <b>←</b>	Chromium	Nickel mg/kg —	Lead	Zinc →
<b>B</b> -1@10.5	07/29/03	10.5	< 1.0	< 1.0	<5.0	<5.0	<5,0	<5.0	<b>&lt;5</b> .0	<5.0	ND	ХD	<0.5	49	121	10	42
B-1@14.5	07/29/03	14.5	< 1.0	< 1.0	<b>&lt;5</b> ,0	<5.0	<5,0	<5.0	<b>&lt;5</b> .0	<5.0	ND						

#### Abbreviations and Methods:

ft = measured in feet

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8021B/8015Cm

TPHd = Total petroleum hydrocarbons as diesel by modified EPA Method 8015C

TPHmo = Total petroleum hydrocarbons as motor oil by modified EPA Method 8015C

Benzene, toluene, ethylbenzene, and xylenes by EPA Method 8260B

MTBE = Methyl tertiary butyl ether by EPA Method 8260B

VOCs = Volatile organics by modified EPA Method 8260B

SVOCs = Semi-volatile organics by modified EPA Method 8270D

μg/kg = Micrograms per kilogram

mg/kg = Milligrams per kilogram

ND = analyte not detected above laboratory limit. See report laboratory report for limits.

### CAMBRIA



### **ATTACHMENT A**

**Drilling Permit** 



### ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD CA. 94544-1395
PUONE (519) 670-6433 James Yoo
PAY (510) 771-4633 James Yoo

FAX (510)91-1939 APPLICANIG: PLEASE ATTACH A SITE MAP FOR ALL DRILLING FRAMIT APPLICATIONS DREIRUCTION OF WELLS OVER 45 FRET REQUIRES A BEPARATE PERMIT APPLICATION

DRILLING PERMIT APPLICATION

for applicant to complete	for oppice use
LOCATION OF PRUJECT 2834 East 7th Street	PIRMIT NUMBER W03-069
The second secon	PERMIT CONDITIONS Circled Fermit Regulrements Apply
CLIENT	• • • • • • • • • • • • • • • • • • • •
Number Baymond Hier	A. GENERAL
Addres 1220 E- 12th St Phono City Oakland Zin 9410010	1. A permit application should be submitted so at to arrive at the ACPWA office five days prive to
W. Dakinga.	phybrided bracking office that only before in
APPLICANT	2. Submit to ACPWA within 60 days after completion of
Nant Matt Meyers of Cambrid	permitted ariginal Department of Water Rosentreas-
Environmental 10.810-420-9170	Well Completion Report
Address 500 Halls St SuiteAthane 510-420-3314	3. Permit is void if project not begun within 90 days of approval date
My Empryville	D, WATER SUPPLY WRLLS
	1. Minimum surface soul thickness is two inches of
typr of project	cepters grout placed by werkle.
Well Conzenerian Georgehaical Investigation	2. Minimum anal depth is 50 feet for municipal and
Cuthodia Protection t1 General 36	Industrial wells or 20 feet for damoutle and inigation
Waler Supply 11 Contamination X  Monitoring 11 Wall Destruction 1	walls unless a leaser depth in specially approved.  C. CIROUNDWATER MONITORING WELLS
Soil Boring De	INCLUDING PIEZOMETERS
PROPERTURATER SUPPLY WELL USE	1. Millimira surface scal thickness is two inches of
New Connected 11 Replacement Donnectic ,	coment grout placed by fremia.
Miniscipal 13 brigation 3;	2. Minimum seal dupth for invalidning wells is the
Industrial (1 Other	maximum depth practicable or 20 feet.
Deiling Metion:	D. GEOTECTENICAL / Onder prince trong grout of content
Mud Robby * Air Robby : Augor :	Charlyword mixing Abbar two-thick and control of king
Cable 11 Other H' Geoprobe	or with compound cittings.
	E. CATHODIC
DRILLER'S NAME VIVONCE	Fill hole anodo zone with concrute placed by tremie.
DRILLER'S LICENSE NO. 105927	P. WELL DESTRUCTION
The state of the s	Sand a map of work site. A separate portril is required for wells decayor than 4,5 feet.
	G. SPECIAL CONDITIONS
YELL PROJECTS	
Drill Hole Dismeter 7/ In. Maximum Casher Dismeter n. Doubt n.	NOTE: One application rouse to submitted for each wall or well
Burther Scal Dopph	destruction. Maltiple busings on one application are acceptable for genterlarical and contamination invarigations.
ENVIRONMENTAL	the beam of the man periodicity in the second by the second by
<del>NEGERCHINGAL</del> PROJECTS	· · · · · · · · · · · · · · · · · · ·
Humber of Bodage 1 Maximum Holo Warner 2 in Depth 20 A	1
Trpu	$M_{\rm D}$
ESTIMATED STARTING DATE 7/29/03	10-14-7/S
ESTIMATED COMPLETION DATE 1/20/03	APPROVED DATE
horeby agree to tumply with all requirements of this permit and Alameda County Confe	
	, , , , , , , , , , , , , , , , , , , ,
APPLICANT'S SIGNATURA DATE 7	21/03 / 1 1
PLEASIL PRINT NAME Matthew A. Meyers Rev.	
CLUASIC PRINT NAME Mathewa, Meyers Revs	-04-02
•	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \



### ALAMEDA COUNTY PUBLIC WORKS AGENCY

WATER RESOURCES SECTION
399 ELMHURST ST. HAYWARD, CA. 94544-1395
PHONE (510) 670-6633 James Yoo FAX (510) 782-1939

**PERMIT NO. W03-0691** 

# WATER RESOURCES SECTION GROUNDWATER PROTECTION ORDINANCE GP # 1-GENERAL CONDITIONS; CONTAMINATION INVESTIGATION

- 1. Prior to any drilling activities shall be the applicants responsibilities to contact and coordinate a Underground Service Alert (USA), obtain encroachment permit(s), excavation permit(s) or any other permits required for that Federal, State, County or to the City and follow all City or County Ordinances No work shall begin until all the permits and requirements have been approved or obtained.
- 2. Bornings shall be sealed within 24 hours following completion of testing or sampling activities. Borings shall not be left in a condition as to allow for the introduction of surface waters or foreign materials into them. No borehole(s) shall be left in a manner to act as a conduit at any time. Borings shall be secured such that they do not endanger public health. All boreholes left open more than 24 hours will need approval from Alameda County Public Works Agency, Water Resources Section. All boreholes shall be backfilled according to permit destruction requirements and all concrete material and asphalt material shall be to Caltrans Spec or County/City Codes.
- 3. Permitte, permittee's, contractors, consultants or agents shall be responsible to assure that all material or waters generated during drilling, boring destruction, and/or other activities associated with this Permit will be safely handled, properly managed, and disposed of according to all applicable federal, state, and local statues regulating such. In no case shall these materials and/or waters be allowed to enter, or potentially enter, on-or off site storm sewers, dry wells, or waterways or be allowed to move off the property where wok is being completed.
- 4. Permit is valid only for the purpose specified herein on July 28 to July 28, 2003. No changes in construction procedures, as described on this permit application. Geoprobes shall not be converted to monitoring wells, without a permit application process.
- 5. Drilling Permit(s) can be voided/ canceled only in writing. It is the applicants responsibilities to notify Alameda County Public Works Agency, Water Resources Section in writing for an extension or to cancel the drilling permit application. No drilling permit application(s) shall be extended beyond ninety (90) days from the original start date. Applicants may not cancel a drilling permit application after the completion date of the permit issued has passed.
- 6. Compliance with the above well-sealing specifications shall not exempt the well-sealing contractor from complying with appropriate State reporting-requirements related to well destruction (Sections 13750 through 13755 (Division 7, Chapter 10, Article 3) of the California Water Code). Contractor must complete State DWR Form 188 and mail original to the Alameda County Public Works Agency, Water Resources Section, within 60 days. Including a site map showing all the borehole locations.
- 7. Permittee shall assume entire responsibility for all activities and uses under this permit and shall indemnify, defend and save the Alameda County Public Works Agency, its officers, agents, and employees free and harmless from any and all expense, cost, liability in connection with or resulting from the exercise of this Permit including, but not limited to, properly damage, personal injury and wrongful death.
- 8. This permit may be voided if it contains incorrect information.



**ATTACHMENT B** 

**Boring Log** 

### **BORING/WELL LOG**



CLIENT NAME
JOB/SITE NAME

Cambria Environmental Technology, Inc. 1144 - 65th St. Oakland, CA 94608 Telephone: (510) 420-0700

Fax: (510) 420-9170

	Raymond Hien	BORING/WELL NAME	B-1
	2830-2834 East 7th Street	DRILLING STARTED	29-Jul-03
	Oakland, California	DRILLING COMPLETED	29-Jul-03
<u> </u>	£42 4000	WELL DEVELOPMENT DA	ATE (VIELD) NA

 LOCATION
 Oakland, California
 DRILLING COMPLETED
 29-Jul-03

 PROJECT NUMBER
 542-1000
 WELL DEVELOPMENT DATE (YIELD)
 NA

 DRILLER
 Vironex
 GROUND SURFACE ELEVATION
 Not Surveyed

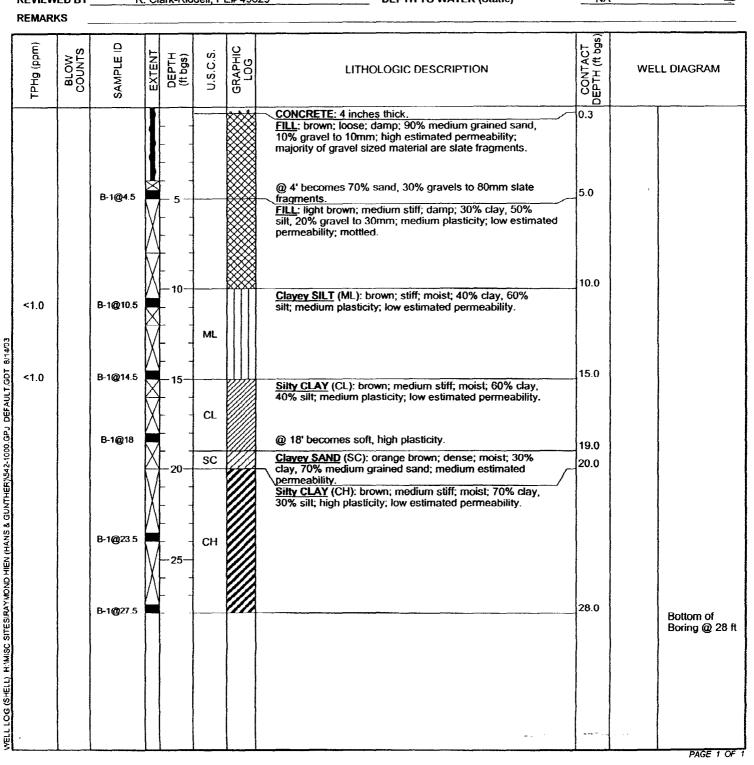
 DRILLING METHOD
 Hydraulic push
 TOP OF CASING ELEVATION
 NA

 BORING DIAMETER
 2 inches
 SCREENED INTERVAL
 NA

BORING DIAMETER 2 inches SCREENED INTERVAL NA

LOGGED BY M. Meyers DEPTH TO WATER (First Encountered)

REVIEWED BY R. Clark-Riddell, PE# 49629 DEPTH TO WATER (Static) NA





### **ATTACHMENT C**

**Laboratory Analytical Report** 

	110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
McCampbell Analytical Inc.	Telephone: 925-798-1620 Fax: 925-798-1622
La contraction of the contractio	http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #542-1000-001;	Date Sampled: 07/28/03
5900 Hollis St, Suite A	Raymond Hien	Date Received: 07/29/03
Emoravilla CA 04609	Client Contact: Matt Meyers	Date Reported: 08/01/03
Emeryville, CA 94608	Client P.O.:	Date Completed: 08/01/03

WorkOrder: 0307495

August 01, 2003

Dear Matt:

#### Enclosed are:

- 1). the results of 2 analyzed samples from your #542-1000-001; Raymond Hien project,
- 2). a QC report for the above samples
- 3). a copy of the chain of custody, and
- 4). a bill for analytical services.

All analyses were completed satisfactorily and all QC samples were found to be within our control limits. If you have any questions please contact me. McCampbell Analytical Laboratories strives for excellence in quality, service and cost. Thank you for your business and I look forward to working with you again.

Angela Rydelius, Lab Manager

1/10 Campoon / Diarytical Lie		McCampbell	Analytical	Inc
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110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #542-1000-001;	Date Sampled: 07/28/03
5900 Hollis St, Suite A	Raymond Hien	Date Received: 07/29/03
Emogravilla CA 04608	Client Contact: Matt Meyers	Date Extracted: 07/29/03
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 07/29/03-07/30/03

#### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline\*

Extraction method: SV			alytical methods: SW8021B/8015Cm	Work Order:	0307495
Lab ID	Client ID	Matrix	ТРН(g)	ĎF	% SS
002A	B-1@10.5	S	ND	ı	86.2
003A	B-1@14.5	S	ND	1	90.5
Reporting ND means	Limit for DF = 1; not detected at or	w	NA		NΑ
above the	reporting limit	S	1.0	m	g/Kg

<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

DHS Certification No. 1644

Angela Rydelius, Lab Manager

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified gasoline is significant; b) heavier gasoline range compounds are significant(aged gasoline?); c) lighter gasoline range compounds (the most mobile fraction) are significant; d) gasoline range compounds having broad chromatographic peaks are significant; biologically altered gasoline?; e) TPH pattern that does not appear to be derived from gasoline (stoddard solvent / mineral spirit?); f) one to a few isolated non-target peaks present; g) strongly aged gasoline or diesel range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) reporting limit raised due to high MTBE content; k) TPH pattern that does not appear to be derived from gasoline (aviation gas). m) no recognizable pattern.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560
Telephone: 925-798-1620 Fax: 925-798-1622
http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #542-1000-001;	Date Sampled: 07/28/03
5900 Hollis St, Suite A	Raymond Hien	Date Received: 07/29/03
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 07/29/03
Ellici yville, CA 74000	Client P.O.:	Date Analyzed: 07/29/03

### Diesel (C10-23) and Oil (C18+) Range Extractable Hydrocarbons as Diesel and Motor Oil\*

Extraction method: SW	73550C		Analytical methods: SW8015C		Work O	rder: 0307495
Lab ID	Client ID	Matrix	TPH(d)	TPH(mo)	DF	% SS
0307495-002A	B-1@10.5	s	ND	ND	1	98.3
0307495-003A	B-1@14.5	S	ND	ND	1	99.0
						-
						<u></u>

Reporting Limit for DF =1; ND means not detected at or	w	NA	NA	ug/L
above the reporting limit	S	1.0	5.0	mg/Kg

<sup>\*</sup> water samples are reported in µg/L, wipe samples in µg/wipe, soil/solid/sludge samples in mg/kg, product/oil/non-aqueous liquid samples in mg/L, and all DISTLC / STLC / SPLP / TCLP extracts are reported in µg/L.

th

<sup>#</sup> cluttered chromatogram resulting in coeluted surrogate and sample peaks, or; surrogate peak is on elevated baseline, or; surrogate has been diminished by dilution of original extract.

<sup>+</sup>The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation: a) unmodified or weakly modified diesel is significant; b) diesel range compounds are significant; no recognizable pattern; c) aged diesel? is significant); d) gasoline range compounds are significant; e) unknown medium boiling point pattern that does not appear to be derived from diesel; f) one to a few isolated peaks present; g) oil range compounds are significant; h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than -2 vol. % sediment; k) kerosene/kerosene range; l) bunker oil; m) fuel oil; n) stoddard solvent/mineral spirit.

# McCampbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology		Date Sampled: 07/28/03
5900 Hollis St, Suite A	Raymond Hien	Date Received: 07/29/03
Emeryville, CA 94608	Client Contact: Matt Meyers	Date Extracted: 07/29/03
Energyline, CA 94008	Client P.O.:	Date Analyzed: 07/30/03

### Volatiles Organics by P&T and GC/MS (Basic Target List)\*

Work Order: 0307495 Extraction Method: SW5030B

Extraction Method. 0113030D	,,			
Lab ID		0307495-002A	· ·	t:
Client ID		B-1@10.5		•
Matrix		Soil		
Compound	Concentration * DF Reporting	Compound	Concentration *	DF Reporting

Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting
Acetone	ND	1.0	50	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromochloromethane	ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	Bromoform	ND	1.0	5.0
2-Butanone (MEK)	ND	1.0	10	Bromomethane	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	5.0
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	5.0
1.2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1.2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1.4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1,1-Dichlorocthane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1,2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
Iodomethane (Methyl iodide)	ND	1.0	50	Isopropylbenzene	ND	1.0	5.0
4-Isopropyl toluene	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Methylene chloride	ND	0.1	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND	1.0	5.0
1,2,4-Trichlorobenzene	ND	1.0	5.0	1,1,1-Trichloroethane	ND	1.0	5.0
1,1,2-Trichloroethane	ND	1.0	5.0	Trichloroethene	ND	1.0	5.0
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND	1.0	5.0
1,2,4-Trimethylbenzene	ND	1.0	5.0	1,3,5-Trimethylbenzene	ND	1.0	5.0
Vinyl Acetate	ND	1.0	50	Vinyl Chloride	ND	1.0	5.0
Xylenes	ND	1.0	5.0			· · · · · · · · · · · · · · · · · · ·	
		Suri	rogate Re	ecoveries (%)			
%SS1:	98.	7		%SS2:	102	?	
%SS3:	99.	9				*************	

99.9

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than -2 vol. % sediment; j) sample diluted due to high organic content.



water and vapor samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in µg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

# McCampbell Analytical Inc.

110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 http://www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	— · · · · · · · · · · · · · · · · · · ·	Date Sampled: 07/28/03				
5900 Hollis St, Suite A	Raymond Hien	Date Received: 07/29/03				
D = == '11	Client Contact: Matt Meyers	Date Extracted: 07/29/03				
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 07/30/03				

### Volatiles Organics by P&T and GC/MS (Basic Target List)\*

Extraction Method: SW5030B Analytical Method: SW8260B Work Order: 0307495

Lab ID				0307495-003A		3.	
Client ID				B-1@14.5		-	
Matrix				Soil			
Compound	Concentration *	DF	Reporting	Compound	Concentration *	DF	Reporting
	1		Limit				Limit
Acetone	ND	1.0	50	Benzene	ND	1.0	5.0
Bromobenzene	ND	1.0	5.0	Bromochloromethane	ND ND	1.0	5.0
Bromodichloromethane	ND	1.0	5.0	Bromoform	ND	1.0	5.0
2-Butanone (MEK)	ND	1.0	10	Bromomethane	ND	1.0	5.0
n-Butyl benzene	ND	1.0	5.0	sec-Butyl benzene	ND	1.0	5.0
tert-Butyl benzene	ND	1.0	5.0	Carbon Disulfide	ND	1.0	5.0
Carbon Tetrachloride	ND	1.0	5.0	Chlorobenzene	ND	1.0	5.0
Chloroethane	ND	1.0	5.0	2-Chloroethyl Vinyl Ether	ND	1.0	5.0
Chloroform	ND	1.0	5.0	Chloromethane	ND	1.0	5.0
2-Chlorotoluene	ND	1.0	5.0	4-Chlorotoluene	ND	1.0	5.0
Dibromochloromethane	ND	1.0	5.0	1,2-Dibromo-3-chloropropane	ND	1.0	, 5.0
1,2-Dibromoethane (EDB)	ND	1.0	5.0	Dibromomethane	ND	1.0	5.0
1.2-Dichlorobenzene	ND	1.0	5.0	1,3-Dichlorobenzene	ND	1.0	5.0
1.4-Dichlorobenzene	ND	1.0	5.0	Dichlorodifluoromethane	ND	1.0	5.0
1.1-Dichloroethane	ND	1.0	5.0	1,2-Dichloroethane (1,2-DCA)	ND	1.0	5.0
1,1-Dichloroethene	ND	1.0	5.0	cis-1,2-Dichloroethene	ND	1.0	5.0
trans-1.2-Dichloroethene	ND	1.0	5.0	1,2-Dichloropropane	ND	1.0	5.0
1,3-Dichloropropane	ND	1.0	5.0	2,2-Dichloropropane	ND	1.0	5.0
1,1-Dichloropropene	ND	1.0	5.0	cis-1,3-Dichloropropene	ND	1.0	5.0
trans-1,3-Dichloropropene	ND	1.0	5.0	Ethylbenzene	ND	1.0	5.0
Hexachlorobutadiene	ND	1.0	5.0	2-Hexanone	ND	1.0	5.0
lodomethane (Methyl iodide)	ND	1.0	50	Isopropyibenzene	ND	1.0	5.0
4-isopropyl toluene	ND	1.0	5.0	Methyl-t-butyl ether (MTBE)	ND	1.0	5.0
Methylene chloride	ND	1.0	5.0	4-Methyl-2-pentanone (MIBK)	ND	1.0	5.0
Naphthalene	ND	1.0	5.0	n-Propyl benzene	ND ND	1.0	5.0
Styrene	ND	1.0	5.0	1,1,1,2-Tetrachloroethane	ND	1.0	5.0
1,1,2,2-Tetrachloroethane	ND	1.0	5.0	Tetrachloroethene	ND	1.0	5.0
Toluene	ND	1.0	5.0	1,2,3-Trichlorobenzene	ND ND	1.0	5.0
1,2,4-Trichlorobenzene	. ND	1.0	5.0	1,1,1-Trichloroethane	ND ND	1.0	5.0
1,1,2-Trichloroethane	ND ND	1.0	5.0	Trichloroethene	ND ND	1.0	<del></del>
Trichlorofluoromethane	ND	1.0	5.0	1,2,3-Trichloropropane	ND ND	1.0	5.0
1,2,4-Trimethylbenzene	ND ND	1.0	5.0	1,3,5-Trimethylbenzene	ND ND	1.0	5.0
Vinyl Acetate	ND ND	1.0	50	Vinyl Chloride	ND ND	1.0	5.0
Xylenes	ND	1.0	5.0	Vinyi Chioride	I ND	1.0	3.0
Affeires	IND NO			ecoveries (%)		<del> </del>	
%SS1:	97.		ARMIE VI	%SS2:	100		
%SS3:	101			/9334.	100		
Comments:	101		<del></del>				

Comments:

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

# surrogate diluted out of range or surrogate coelutes with another peak.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.



<sup>\*</sup> water and vapor samples and all TCLP & SPLP extracts are reported in μg/L, soil/sludge/solid samples in μg/kg, wipe samples in μg/wipe, product/oil/non-aqueous liquid samples in mg/L.

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Cambria Env. Technology	Client Project ID: #542-1000-001;	Date Sampled: 07/28/03
5900 Hollis St, Suite A	Raymond Hien	Date Received: 07/29/03
T	Client Contact: Matt Meyers	Date Extracted: 07/29/03
Emeryville, CA 94608	Client P.O.:	Date Analyzed: 07/29/03

#### Semi-Volatile Organics by GC/MS (Basic Target List)\*

Extraction Method: SW3550C Analytical Method: SW8270D

Work Order: 0307495

Extraction Method: SW3550C		А	alytical ivic	1100: 3W8270D	77.23 K	Oraci. u	301173
Lab ID				0307495-002A		:	
Client ID			,	B-1@10.5			
Matrix				Soil			
Compound	Concentration *	DF	Reporting Limit	Compound	Concentration *	DF	Reporting Limit
Acenaphthene	ND	1.0	0.33	Acenaphthylene	ND	1.0	0.33
Anthracene	ND	1.0	0.33	Benzidine	ND	1.0	1.6
Benzoic Acid	ND	1.0	1.6	Benz(a)anthracene	ND	1.0	0.33
Benzo(b)fluoranthene	ND	1.0	0.33	Benzo(k)fluoranthene	ND	1.0	0.33
Benzo(g,h,i)perylene	ND	1.0	0.33	Benzo(a)pyrene	ND	1.0	0.33
Benzyl Alcohol	ND	1.0	0.66	Bis (2-chlorocthoxy) Methane	ND	1.0	0.33
Bis (2-chloroethyl) Ether	ND	1.0	0.33	Bis (2-chloroisopropyl) Ether	ND	1.0	0.33
Bis (2-ethylhexyl) Phthalate	ND	1.0	0.33	4-Bromophenyl Phenyl Ether	ND	1.0	0.33
Butylbenzyl Phthalate	ND	1.0	0.33	4-Chloroaniline	ND	1.0	0.66
4-Chloro-3-methylphenol	ND	1.0	0.33	2-Chloronaphthalene	ND	1.0,	0.33
2-Chlorophenol	ND	1.0	0.33	4-Chlorophenyl Phenyl Ether	ND	1.0	0.33
Chrysene	ND	1.0	0.33	Dibenzo(a,h)anthracene	ND	1.0	0.33
Dibenzofuran	ND	1.0	0.33	Di-n-butyl Phthalate	ND	1.0	0.33
1,2-Dichlorobenzene	ND	1.0	0.33	1,3-Dichlorobenzene	ND	1.0	0.33
1,4-Dichlorobenzene	ND	1.0	0.33	3,3-Dichlorobenzidine	ND	1.0	0.66
2,4-Dichlorophenol	ND	1.0	0.33	Diethyl Phthalate	ND	1.0	0.33
2,4-Dimethylphenol	ND	1.0	0.33	Dimethyl Phthalate	ND	1.0	0.33
4,6-Dinitro-2-methylphenol	ND	1.0	1.6	2,4-Dinitrophenol	ND	1.0	1.6
2,4-Dinitrotoluene	ND	0.1	0.33	2,6-Dinitrotoluene	ND	1.0	0.33
Di-n-octyl Phthalate	ND	1.0	0.33	1,2-Diphenylhydrazine	ND	1.0	0.33
Fluoranthene	ND	1.0	0.33	Fluorene	ND	1.0	0.33
Hexachlorobenzene	ND	1.0	0.33	Hexachlorobutadiene	ND	1.0	0.33
Hexachlorocyclopentadiene	ND	1.0	1.6	Hexachloroethane	ND	1.0	0.33
Indeno (1,2,3-cd) pyrene	ND	1.0	0.33	Isophorone	ND	1.0	0.33
2-Methylnaphthalene	ND	1.0	0.33	2-Methylphenol (o-Cresol)	ND	1.0	0.33
3 &/or 4-Methylphenol (m,p-Cresol)	ND	1.0	0.33	Naphthalene	ND	1.0	0.33
2-Nitroaniline	ND	1.0	1.6	3-Nitroaniline	ND	1.0	1.6
4-Nitroaniline	ND	1.0	1.6	2-Nitrophenol	ND	1.0	1.6
4-Nitrophenol	ND	1.0	1.6	Nitrobenzene	ND	1.0	0.33
N-Nitrosodiphenylamine	ND	1.0	0.33	N-Nitrosodi-n-propylamine	ND	1.0	0.33
Pentachlorophenol	ND	1.0	1.6	Phenanthrene	ND	1.0	0.33
Phenol	ND	1.0	0.33	Ругепе	ND	1.0	0.33
1,2,4-Trichlorobenzene	ND	1.0	0.33	2,4,5-Trichlorophenol	ND	1.0	0.33
2,4,6-Trichlorophenol	ND	1.0	0.33				
		Sur	rogate R	ecoveries (%)			
%SS1:	94.	5		%SS2:	96.	9	
%SS3:	10			%SS4:	88.	5	
%SS5:	101	1		%SS6:	84.	8	

Comments

<sup>\*</sup> water samples and all TCLP & SPLP extracts are reported in µg/L, soil/sludge/solid samples in mg/kg, wipe samples in µg/wipe, product/oil/non-aqueous liquid samples in mg/L.

ND means not detected above the reporting limit; N/A means analyte not applicable to this analysis.

<sup>#)</sup> surrogate diluted out of range; &) low or no surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~2 vol. % sediment; j) sample diluted due to high organic content.

### QC SUMMARY REPORT FOR SW8021B/8015Cm

Matrix: S

WorkOrder: 0307495

EPA Method: SV	W8021B/8015Cm	Extraction:	SW5030E	3	BatchID: 7981			Spiked Sample ID: 0307464-013A				
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)		
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low 3	High		
TPH(btex) <sup>£</sup>	ND	0.60	104	106	2.27	95	94.6	0.464	70	130		
МТВЕ	ND	0.10	82.8	90.4	8.82	87.5	94.8	7.98	70	130		
Benzene	ND	0.10	95.2	91.8	3.66	88.7	90.8	2.36	70	130		
Toluene	ND	0.10	96.1	92.5	3.83	89	91.3	2.54	70	130		
Ethylbenzene	ND	0.10	96.6	93.4	3.42	92.9	95.3	2.58	70	130		
Xylenes	ND	0.30	99.3	95	4.46	94.3	95.3	1.05	70	130		
%SS:	112	100	87.1	81.4	6.77	106	110	3.70	70	130		

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / (MS + MSD) \* 2.

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

<sup>£</sup> TPH(btex) = sum of BTEX areas from the FID.

<sup>#</sup> cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

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### QC SUMMARY REPORT FOR SW8015C

Matrix: S

WorkOrder: 0307495

EPA Method: SW8015C	Extraction: SW3550C				BatchID: 7977			Spiked Sample ID: 0307456-028A			
	Sample	Spiked	MS*	MSD*	MS-MSD*	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)	
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High	
TPH(d)	ND	150	91.6	91.2	0.485	104	106	2.22	70	130	
%SS:	95.8	100	97.8	97.5	0.297	102	102	0	70	130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / (MS + MSD) \* 2.

MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if. a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

### **QC SUMMARY REPORT FOR SW8260B**

Matrix: S

WorkOrder: 0307495

EPA Method: SW8260B	60B Extraction: SW5030B				BatchID:	7990	Spiked Sample ID: 0307495-003A				
	Sample	Sample Spiked MS* MSD*				LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)		
	μg/Kg	µg/Кg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	Low	High	
Benzene	ND	50	110	112	1.55	111	112	1.04	70	130	
Chlorobenzene	ND	50	111	114	2.31	114	114	0	70	130	
1,1-Dichloroethene	ND	50	82.2	83.3	1.35	84	83.5	0.551	70	130	
Methyl-t-butyl ether (MTBE)	ND	50	107	108	0.997	109	111	2.25	70	130	
Toluene	ND	50	115	117	1.65	117	117	0	70	130	
Trichloroethene	ND	50	94.9	95.9	0.986	95.8	97.1	1.43	70	130	
%SS1:	97.7	100	103	103	0	105	104	1.19	70	130	
%SS2:	100	100	98.6	98.8	0.228	100	100	0	70	130	
%SS3:	101	100	95.9	97.5	1.68	95.6	95.9	0.286	70	130	

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions:

NONE

MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or analyte content.

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels.

<sup>%</sup> Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / (MS + MSD) \* 2.

<sup>\*</sup> MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if; a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

### QC SUMMARY REPORT FOR SW8270D

Matrix: S

WorkOrder: 0307495 Spiked Sample ID: 0307495-002A BatchID: 8000 EPA Method: SW8270D Extraction: SW3550C LCSD LCS-LCSD Acceptance Criteria (%) LCS MS\* MSD\* MS-MSD Sample Spiked % RPD % Rec. % Rec. % RPD Low High % Rec. mg/Kg % Rec mg/Kg 959 97 4 1.55 30 130 ND 2 71.6 68 8 3.86 Acenaphthene 97.8 97 0.816 30 130 ND 4 84.5 84 2 0.302 4-Chloro-3-methylphenol 96.8 96.1 0.679 30 130 2-Chlorophenol ND 4 86.6 85.4 1.44 99.6 100 0.531 30 130 2 79.2 77.2 2.56 ND 1.4-Dichlorobenzene 2.4-Dinitrotoluene ND 2 83 79.2 4.60 92.6 93.6 1.01 30 130 92.8 0.677 85.3 93.4 30 130 87.7 2.78 4-Nitrophenol ND 4 0 103 106 2.78 30 130 117 117 ND 2 N-Nitrosodi-n-propylamine 2.66 90.5 90.4 0.0719 30 130 ND 57.1 55.6 Pentachlorophenol 97.1 Phenol ND 4 864 84.6 2.15 97.5 0.401 30 130 5.07 90.4 90.6 0.133 30 130 ND 2 Pyrene 94.5 1 07 1,2,4-Trichlorobenzene ND 2 72.4 70 3.44 95.5 30 130 89.1 2.95 98.7 101 2.52 30 %SS1: 94.5 100 917 130 110 110 0 30 %SS2: 96.9 100 99,4 91.7 130 %SS3: 101 100 99.7 95 4.83 96.9 97.6 118.0 30 130 4 15 97.7 %SS4 88.5 100 83.6 80.2 98.5 0.752 30 130 100 98 103 98.1 %SS5: 101 106 8.06 4.97 30 130 %SS6: 84.8 100 81.9 77.5 5.60 89.7 89.8 0.148 30 130

All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE

MS = Matrix Spike, MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent

% Recovery = 100 \* (MS-Sample) / (Amount Spiked); RPD = 100 \* (MS - MSD) / (MS + MSD) \* 2.

MS and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

N/A = not enough sample to perform matrix spike and matrix spike duplicate.

NR = analyte concentration in sample exceeds spike amount for soil matrix or exceeds 2x spike amount for water matrix or sample diluted due to high matrix or

& = low or no surrogate due to matrix interference

Laboratory extraction solvents such as methylene chloride and acetone may occasionally appear in the method blank at low levels,

### McCampbell Analytical Inc.

# **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

WorkOrder: 0307495

Subcontractor:

GEO ANALYTICAL LABORATORIES

1405 Kansas Avenue Modesto, CA 95351

TEL:

(209) 572-0900

FAX: ProjectNo: (209) 572-0916

#542-1000-001; Raymond Hien

Date Received:

7/29/03

Acct #:

N/A

Date Printed:

7/29/03

					LUff	. ,	Requested Te	sts	
Sample ID	ClientSampID	Matrix	Collection Date	TAT	6010C	:			
0307495-002A	B-1@10.5	Soil	7/28/03 1:40:00 PM	5 DAY	1 20	01331			

Comments:

PLEASE FAX WHEN READY!

Please send results to:

Relinquished by: Relinquished by:

Received by:

Date/Time

Received by:

Date/Time

# GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351

Phone (209) 572-0900 Fax (209) 572-0916

### **CERTIFICATE OF ANALYSIS**

Report # P211-02

Date: 8/01/03

McCampbell Analytical

Project: 542-1000-001; Raymond Hien

Date Rec'd: Date Started:

7/30/03 7/30/03

110 2nd Ave. South #D7 CA 94553 Pacheco

PO# 0307495

Date Completed: 8/01/03

Date Sampled: 7/28/03 Time: 1:40pm

Sampler:

Sample ID: 0307495 - 002A

Lab ID:

P201331

Method	RL	Analyte	Results	Units
6010B	0.5	Cadmium	ND	те/Ке
6010B	1.0	Chromium	49	mg/Kg
6010B	2.0	Nickel	121	mg/Kg
6010B	5.0	Lead	10	mg/Kg
6010B	2.0	Zinc	42	mg/Kg

Inorganic Supervisor

Donna Keller Laboratory Director

Certification # 1157

# GeoAnalytical Laboratories, Inc.

1405 Kansas Avenue Modesto, CA 95351

Phone (209) 572-0900 Fax (209) 572-0916

Report# P211-02

QC REPORT

McCampbell Analytical 110 2nd Ave. South #D7

Pacheco

CA 94553

Analyt <b>e</b>	Method	Batch #	Dates Analyzed	Orig.	Dupl.	MS %Rec	MSD %Rec	RPD	LCS %Rec	Blank	Comments
Cadmium	6010B	I05196	7/31/03			116.4	119.6	2.6	111.8	ND	
Chromium	6010B	105197	7/31/03			116.0	112.0 *	3.5		ND	Sample analyte concentration too high to spike.
Nickel	6010B	105202	7/31/03			109.2	105.8 *	3.2		ND	Sample analyte concentration too high to spike.
Lead	<b>60</b> 10B	105200	7/31/03			103.4	96.4	3.6	95.4	ND	
Zinc	<b>6</b> 010B	105205	7/31/03			37.2	36.5 *	2.0		ND	Sample analyte concentration too high to spike.

\* LCS/LCSD (see comments)

Inorganic Supervisor

Certification # 1157

Donna Keller

Laboratory Director

	McCAM	(PBELI	ANAI	YT	CAI	. IN	<u> </u>								т	מוז	זא		CH						ST		DΥ	R		CC	R	D	i⊠(
, r	. 1	10 2" AN		UTH,	#D7 60			<b></b>		_				ED					.OC						RU		2			R 4	48 I-	JOL	IR 5 DAY
Report To: Matt N	ne: (925) 798 Jevers	-1620	F	iii To		ax: (9 mbria		798-	162	2			+		1 1	ССЧ	un		Ana					140			·			Otl	1er		Comments
Report To: Matt Meyers Bill To: Cambria  Company: Cambria Environmental Technology, Inc.								T					2 1116	,3	13 10	oq i	- 1				1			<u> </u>			Comments						
5900 Hollis Street,													7			Grease (5520 E&F/B&F)							١			Ì							
Emeryville, Ca 946			E-mail:	mne	yers@	gcain	bria-	env.	com	1				TBE		&F/E	- 1							9									
Tele: (510) 420-33	314		Fax: (5)	0) 42	0-917	70								+ 8015)/ MTBE	Ì	<u>න</u>	8.1					į		8/	}		Ì	1					
Project #:542-1000			Project I	Vame:	Rayı	mond	Hie	n						8015		(552	4							8270	l		l	Į					,
Project Location: 2	2834 East 7th	Street, O	akland											+ 02	1	ase	Sc		802		LY		Ì	25 / 1	- 1		6		om /	j			
Sampler Signature:	> 5					··				·				7.80		5	OCAL		02 /	- {	õ		ļ	A 6.			2,60	-	P/	Ì			
	0	SAMF	LING		Si Si	N	TAN	RIX		M: PRE	F.TH SER	OD VE	D	Gas (602/8020	TPH as Diesei (80i 5)	Fotal Petroleum Oil &	Total Petroleum Hydrocarbons (418.1)		BTEX ONLY (EPA 602 / 8020)		EPA 608 / 8080 PCB's ONLY	EPA 624 / 8240 / 8260		PAH'S / PNA'S by EPA 625 / 8270 / 8310			Lead (7240/7421 /239.2/6010)		Multiple Range TPHg/d/mo				
SAMPLEID				K IS	Type Containers										2013	En l	e l	EPA 601 / 8010	.Y.(1	EPA 608 / 8080	080	240	EPA 625 / 8270	A's	CAM-I 7 Metals	slais	742		ngc			ıls	
(Field Point Name)	LOCATION	Data	Time	# Containers	log			a l					- [	BTEX & TPH as	걸	613	etro	2	NO	8 / 8	% %	8/ %	15/8	4	Σ.	LUFT 5 Metals	240		S			LUFT Metals	
,		Date	Time	5	, e	Water	Soul	Sludge	Other	0)	-,  5	HNC.	Other	EX	H	<u> </u>	<u>명</u>	A 66	EX	79 Y	A 60	A 62	A 62	H's	Σ	E	() pe		T D	VOCs	SVOCs	F	
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B-10-23.3				<del>                                     </del>		-	<del>    -</del>			$\forall$								-															HOLD
B-1@275		7/3/03	2.70	<u>Y</u>	$ \Psi $	<b> </b>	<u> </u>	<u> </u>		<u> </u>	-	+	_ -	-		}-		-															1toLD
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### McCampbell Analytical Inc.

# **CHAIN-OF-CUSTODY RECORD**

Page | of 1

110 Second Avenue South, #D7 Pacheco, CA 94553-5560 (925) 798-1620

WorkOrder: 0307495

Client:

Cambria Env. Technology

TEL:

(510) 420-0700

5900 Hollis St, Suite A Emeryville, CA 94608

FAX:

(510) 420-3394

ProjectNo:

#542-1000-001; Raymond Hien

Date Received:

7/29/03

PO:

Date Printed:

7/29/03

					Requested Tests										
Sample ID	ClientSampID	Matrix	Collection Date	Hold	6010C	SW8015C	N8021B/8015C	SW8260B	SW8270D						
0307495-002	B-1@10.5	Soil	7/28/03 1:40:00 PM	<u> </u>	T				T						
0307495-002			7/28/03 1:50:00 PM	<del>                                     </del>	<del></del>	A	A	A							

Prepared by: Maria Venegas

Comments:

NOTE: Samples are discarded 60 days after results are reported unless other arrangements are made. Hazardous samples will be returned to client or disposed of at client expense.