

Alameda Countyne 17, 2005

JUN 2 0 2005

Hernan E. Gomez
Hazardous Material Inspector
City of Oakland Fire Department
Office of Emergency Services
1605 Martin Luther King, Jr. Way
Oakland, California 94612

**Environmental Health** 

Re:

**Underground Storage Tank/Product Piping Removal and** 

**Compliance Sampling Report** 

Chevron Service Station 9-2029 890 West MacArthur Blvd. Oakland, California



Dear Mr. Gomez:

On behalf of Chevron Products Company (Chevron), Cambria Environmental Technology, Inc. (Cambria), is submitting the results of compliance sampling activities performed at the referenced site (Figure 1). Compliance soil samples were collected at the direction of the Oakland Fire Department following the removal of underground storage tanks (USTs), dispenser islands, product piping and associated excavation activities. Presented below are the site background, excavation activities, sampling program, and analytical results.

#### SITE BACKGROUND

The site is located at the northeast intersection of West MacArthur Boulevard and Market Street, in a mixed commercial and residential area of Oakland, California. Chevron began operation, under a ground lease agreement, in 1956 and operated continuously at the site until June 2004. According to Chevron records, facilities were constructed prior to 1956, indicating station operations existed prior to Chevron's site involvement. Two of three site parcels were subsequently purchased by Chevron in 1957, followed by the third parcel in 1984. In 1984, the site was reconstructed into its current configuration. Product dispenser replacement and UST upgrades were conducted in 1997. The former site facilities consisted of a kiosk and five dispenser islands beneath a common canopy. Three gasoline USTs in a common pit were located directly east of the kiosk. The previous generation of USTs were located in the same excavation. A former used-oil UST was located northeast of the kiosk and adjacent to the northeast dispenser island. A former station building that housed hydraulic lifts was located immediately north of the current kiosk. The site is located on the East Bay Plain, approximately 1½ mile east of San Francisco Bay and approximately 1½ mile north of Lake Merritt. The site is relatively flat at an elevation of approximately 50 feet above mean sea level. The nearest surface water body is Glen Echo Creek, located approximately 1 mile southeast of the site, which

Cambria Environmental Technology, Inc.

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drains into Lake Merritt. Based on topography and previous data, shallow groundwater beneath the site flows to the southwest.

Site Hydrogeology: The site is built upon Holocene alluvium of unconsolidated, plastic, moderately to poorly sorted carbonaceous silt and clay overlying medium-grained alluvium of unconsolidated, moderately sorted, permeable fine sand, silt, and clayey silt with a few beds of coarse sand. Sediments encountered during previous investigations have been characterized as clay containing varying amounts of silt, sand and gravel to 21-22 feet below grade (fbg), underlain by well and poorly graded sands to the total depth explored of 25 fbg. Groundwater typically occurs between 10 to 14 fbg and flows toward the southwest.



#### **SAMPLING ACTIVITIES**

On April 25, 2005, three USTs, five dispenser islands and associated product piping were removed from the site. Compliance soil samples were collected following City of Oakland Fire Department protocol. Details of these activities are presented below.

**Personnel:** Mr. John Ortega of Cambria, Mr. Hernan Gomez of the City of Oakland Fire Department, and Mr. George Johns of Staubach, Inc., a Chevron contractor, were onsite to observe removal activities.

UST/Dispenser/Piping Removal Contractor: Musco Excavators, Inc.

UST/Dispenser/Piping Removal and Compliance Sampling Date: April 25, 2005.

UST Removed: Three 10,000 gallon single-walled fiberglass gasoline USTs and associated product piping were removed (Figure 2). Prior to removal, all three UST's were tripled rinsed and emptied. Two of three USTs were observed to be in good condition. Damage was observed on the east end of the third tank located on the south side of the excavation. Groundwater in the UST area caused the tank to float and rub against the shoring, damaging the tank. This damage occurred after the tanks were cleaned and emptied and, consequently, no leaks or spills occurred. The tanks and associated product piping were transported and disposed of at Ecology Control Industries, in Richmond, California, a Chevron approved disposal facility. Waste manifest documentation regarding the proper disposal of the UST's is included as Attachment A

UST/Product Piping/Dispenser Island Compliance Soil Sampling: On April 25, 2005, Mr. John Ortega from Cambria collected 22 soil samples (EX-1 through EX-22) at depths and locations directed by Mr. Hernan Gomez of the Oakland Fire Department (Figure 2). Soil samples were collected from UST cavity sidewalls and beneath the product piping and dispensers. The laboratory analytic reports are presented in Attachment B.



Five compliance samples (EX1 through EX5) were collected from the UST cavity from approximately 10 fbg in native soil, at the locations shown on Figure 2. Compliance soil samples were not collected from the floor or the east sidewalls portion of the cavity due to groundwater and shoring inside the cavity. On April 26, 2005, a grab groundwater sample was collected from the bottom of the UST cavity. Tank cavity water was pumped into a holding tank for later disposal. On April 27, 2005, Mr. Hernan Gomez returned to the site to observe that groundwater in the UST cavity had not recharged and requested no further collection of groundwater samples. Analytic data for soil and groundwater is summarized in Tables1 and 2.

Product line and dispenser island compliance samples EX-6 through EX-22 were collected at approximately 3.5 fbg. Sample EX21 contained 190 milligrams-per-kilogram (mg/kg) TPHg. As a result, hydrocarbon impacted soil from this area was over-excavated, stockpiled and transported for disposal.

Sampling Methodology: Soil samples were collected using steam-cleaned brass tubes driven into soil in the excavator bucket or directly beneath the dispenser islands and product piping trenches. Soil stockpile samples were collected by driving brass tubes into the soil stockpile. Cambria's Excavation Sampling Procedures are presented in Attachment C.

Chemical Analyses: Soil samples were analyzed for some or all of the following constituents based on Oakland Fire Department requests and disposal requirements:

- TPHg by EPA Method 8015M,
- BTEX, MTBE, by EPA Method 8021B,
- Lead by EPA Method 6010B.

Soil and Water Disposal: Approximately 54.12 tons of soil was removed from the UST, dispenser island and product line locations, and approximately 16,400 gallons of groundwater was pumped from the UST cavity. All soil and groundwater removed from the site for disposal was transported by Integrated Waste Management (IWM) of Milpitas, California. Soil was disposed of at Republic

Services Landfill in Livermore, California and groundwater was transported to Chemical Waste Management in Kettleman Hills, California. Analytic data for soil disposal profiling is summarized in Table 3. Oakland Fire Department Hazardous Material Inspector Hernan Gomez approved the reuse of the pea gravel to backfill the UST's cavity. A copy of the summary sheet with the total volume of soil and groundwater disposed is included in Attachment D.

#### **SOIL ANALYTIC RESULTS**



Hydrocarbon impacts were not detected in the UST excavation, with the exception of 65 mg/kg TPH-g in sample EX5 at 10 fbg. TPH-g was detected at 190 mg/kg beneath the product line and dispenser island areas in EX21 at 3.5 fbg. Low to non-detect concentrations of BTEX were observed in the product line and dispenser island areas. Benzene was detected at 0.35 mg/kg in sample EX-22 at 3.5 fbg, located near the southeastern dispenser island.

#### CONCLUSIONS AND RECOMMENDATIONS

All identified sample locations with elevated hydrocarbon impact were excavated. Hydrocarbon impacts, apparently resulting from operation of previous generation facilities, necessitated continued excavation. The extent and analytic results of this continued remedial excavation will be presented as a separate report to the Alameda County Environmental Health Department approximately four weeks after the conclusion of site activities.

#### CLOSING

We appreciate the opportunity to work with you on this project. Please call Mr. John Ortega at (510) 420-3349 if you have any questions or comments.

Sincerely,

Cambria Environmental Technology, Inc.

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John Ortega V
Senior Staff Scientist

Robert Joss

Robert Foss, P.G. #7445 Associate Geologist

Figures:

1 - Vicinity Map

2 - Site Plan

Tables:

1 - Analytic Results for Soil

2 - Analytic Results for Groundwater

3 - Analytic Results for Soil Disposal Profiling

Attachments:

A - Waste Manifests

B – Excavation Sampling Procedures C – Laboratory Analytic Reports

D - Summary Sheets - Soil and Ground Water Disposal at Landfills

cc:

Dana Thurman, Chevron Environmental Management Company, P.O. Box 6012,

San Ramon, California 94583

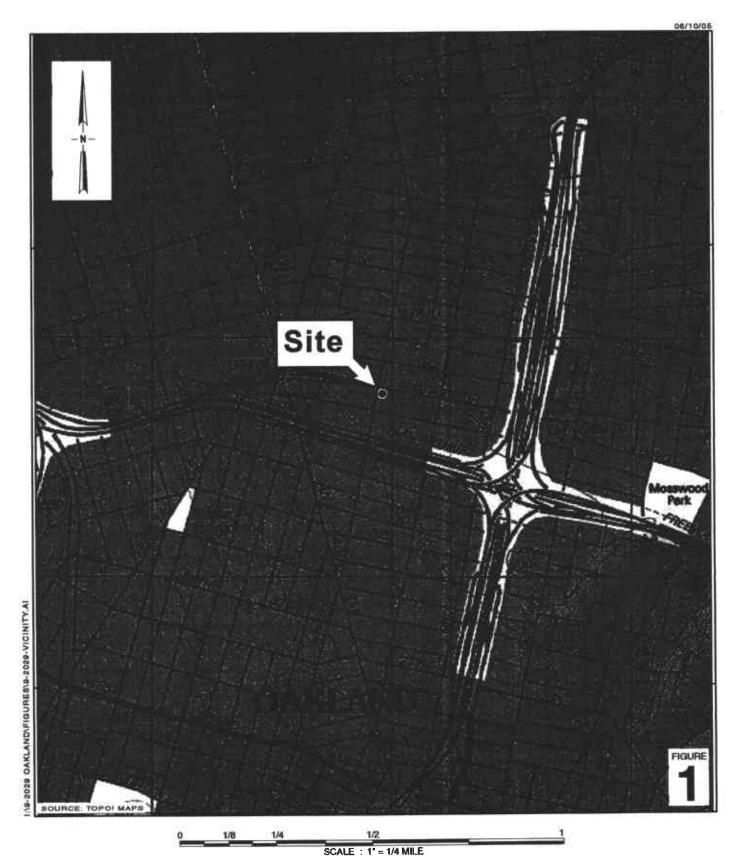
George Johns, QPM/Staubach Company 6001 Bollinger Canyon Road, Building T,

San Ramon, California 94583

Barney Chan, Alameda Environmental Health Services Agency,

1131 Harbor Bay Parkway, Suite 260, Alameda, California 94502-9335

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**Chevron Service Station 9-2029** 

890 West MacArthur Boulevard Oakland, California



Area Well Survey

Former Chevron Station 9-2029

890 W. MacArthur Boulevard

Oakland, California



UST, Dispenser Island and Product Line Sampling Locations

CAMBRIA

Table 1. Analytical Results for Soil - Chevron Service Station 9-2029, 890 West MacArthur Boulevard, Oakland, California Xylenes MTBE Lead Toluene Ethylbenzene TPHg Benzene Sample Sample ID Date 11 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 4/25/2005 0.1> EX1-S-10' 12 < 0.005 < 0.005 < 0.005 0.0095 4/25/2005 1.8 < 0.005 EX2-S-10' 8.7 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 EX3-S-10' 4/25/2005 <1.0 11 < 0.005 < 0.005 < 0.005 4/25/2005 <1.0 < 0.005 < 0.005 EX4-S-10' 9.8 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 4/25/2005 <1.0 EX5-S-10' < 0.005 < 0.005 < 0.005 8.9 0.020 4/25/2005 3.5 < 0.005 EX6-S-3.5' 12 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 4/25/2005 <1.0 EX7-S-3.5' < 0.005 <0.005 9.7 < 0.005 < 0.005 0.1>< 0.005 EX8-S-3.51 4/25/2005 8.9 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 EX9-S-3.5' 4/25/2005 <1.0 < 0.005 < 0.005 5.5 4/25/2005 0.1>< 0.005 < 0.005 < 0.005 EX10-S-3.5' 12 <1.0 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 4/25/2005 EX11-S-3.5' < 0.005 < 0.005 < 0.005 9.3 < 0.005 EX12-S-3.51 4/25/2005 <1.0 < 0.005 < 0.005 < 0.005 7.2 < 0.005 <1.0 < 0.005 < 0.005 4/25/2005 EX13-S-3.51 6.6 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 EX14-S-3.51 4/25/2005 <1.0 11 0.069 < 0.005 0.0870.53 EX15-S-3.51 4/25/2005 65 < 0.005 7.9 < 0.005 < 0.005 4/25/2005 <1.0 < 0.005 < 0.005 < 0.005 EX16-S-3.5' 14 <.0.050 0.20 < .0.050 0.61 < 0.50 4/25/2005 370 EX17-S-3.51 < 0.005 < 0.005 < 0.005 7.8 <1.0 < 0.005 < 0.005 4/25/2005 EX18-S-3.5' 7.1 < 0.005 < 0.005 < 0.005 < 0.005 < 0.005 <1.0 EX19-S-3.51 4/25/2005 8.4 0.0075 0.021 < 0.005 < 0.005 4/25/2005 3.4 < 0.005 EX20-S-3.5' 22 0.27 0.37 0.20 0.14 0.17 EX21-S-3.5' 4/25/2005 190 < 0.25 13 0.20

0.058

0.78

#### **Explanation:**

EX22-S-3.5'

Concentrations in soil are reported in miligrams per kilogram (mg/kg)

4/25/2005

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

Benzene, Toluene, Ethylbenzene, Xylenes (BTEX), and Methyl tertiary-butyl ether (MTBE) by EPA Method 8021B

76

0.35

Total Lead by EPA Method 6010

< x.xxx - Not detected above method detection limits

Cambria

Table 2. Analytical Results Groundwater - Chevron Service Station 9-2029, 890 West MacArthur Boulevard, Oakland, California

Sample ID	Sample Date	ТРНд	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE
Tank Pit Water	4/27/2005	210	1.5	1.5	<0.5	42	4.4

### Explanation:

Concentrations in water are reported in micrgrams per liter (ug/L)

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

Benzene, Toluene, Ethylbenzene, Xylenes (BTEX) and Methyl tertiary-butyl ether (MTBE) by EPA Method 8260B

< x.xxx - Not detected above method detection limits

Table 3. Analytical Results for Soil Disposal Profiling - Chevron Service State	ation 9-2029, 890 West MacArthur Boulevard, Oakland, California
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Sample ID	Sample Date	TPHg	Benzene	Toluene	Ethylbenzene	Xylenes	MTBE	Lead
COMP-1	4/25/2005	37	0.0054	0.019	0.035	0.029	<0.05	9.5

### Explanation:

Concentrations in soil are reported in miligrams per kilogram (mg/kg), equivalent to parts per million (ppm)

TPHg = Total petroleum hydrocarbons as gasoline by modified EPA Method 8015

Benzene, Toluene, Ethylbenzene, Xylenes, and MTBE by EPA Method 8021B

Lead by EPA Method 6010

<x.xxx - Not detected above method detection limits</p>

**ATTACHMENT A** 

**Waste Manifests** 

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	16 GENERATOR'S CERTIFICATION: I hereby declare that the contents of the marked, and labeled, and are in all respects in proper condition for his straight of the selected that i have a program in practicable and that I have selected the practicable method of treatment and the environment; OR, if I am a small quantity generator, I have a available to me and that I can afford.  Printed/Typed Name  17. Transporter l'Acknowledgement of Receipt of Materials  Printed/Typed Name	his consignment are hansport by highway place to reduce the vent, storage, or disponade a good foith of Signature Signature	lly and accurate according to at	icily of	waste gene	rated to t	he degree i	have detern ent and fotu- est waste mo	mined to be economic to threat to human has snagement method the onth Day							
▼ I HANNYOUTER FA	16 GENERATOR'S CERTIFICATION: I hereby declare that the contents of the marked, and labeled, and are in all respects in proper condition for his lift am a large quantity generator, I certify that I have a program in practicable and that I have selected the practicable method of treatment and the environment; OR, if I am a small quantity generator, I have a available to me and that I can offord.  Printed/Typed Name  17. Transporter   Acknowledgement of Receipt of Materials  Printed/Typed Name  18. Transporter 2 Acknowledgement of Receipt of Materials  Printed/Typed Name	his consignment are hansport by highway place to reduce the vent, storage, or disponade a good foith of Signature Signature	lly and accurate according to at	icily of	waste gene	rated to t	he degree i	have detern ent and fotu- est waste mo	mined to be economic to threat to human has snagement method the onth Day							
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DO NOT WRITE BELOW THIS LINE.

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	UNIFORM HAZARDOUS WASTE MANIFEST	D.No. 1 / 1/ 9/6/5	Manifest Document	1 No.	1	Page 1		n in the shaded areas ired by Federal law
	3. Generator's Name and Mailing Address CHEVROM PROCESCIS COMMANY P.O.BOX SUBS	e Kathy Nor	<b>1535</b>	B. State	Generato		2	2452784
	4. Generator's Phone ( 特定 於東京等語: 5 Transporter 1 Company Name 6 US	5 EPA ID Number	<u>~</u>	C. Stole	Transpor	ter's ID (Res	arved.]	7483
	English Control Solventus	00820	3 <b>017</b> 3	D. Trans	porter's i	hone	151	01 235-139
	7 Transporter 2 Company Name 8. US	S EPA ID Number	<u> </u>	E. State	Transport	ter's ID [Res		
	11			F. Trans		•		
	9. Designated Facility Name and Site Address 10. US Excellence Constant functions:	S EPA ID Number		G. State	Facility's	iD III	. [ ]	H. I.
	295 For 65v6			H. Focili	fy's Phon	<del></del>	· · · · · · · · · · · · · · · · · · ·	
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	11. US DOT Description (including Proper Shipping Name, Hazard Class, an	d ID Number)	No.	Туря		vantily	Wi/Yol	I, Waste Number State
	Non-RCRA hazardous waste, solid			TP			p	EPA/Other
G	(waste empty storage tank )			<b>Lin</b>	92	000	) 1	16.766
N E	ь.							State EPA/Other
Â	c.		<del>-     -   -</del>	<del> </del>	<del> </del>	<u>1l</u>		State
့်			1.,	,	١.			EPA/Other
ì	d			<del>                                     </del>	+	Ш.	-	State
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	A Alband Production Filescond Process Albander			K Hond	lien Code	tor Wash	es Listed Abo	)ve
	J. Additional Descriptions for Materials Listed Above THE CALLY TAKEN		المحمود المحمود	g.	9.9		b.	
	CAPACITY PIC CONTRACTORY		risses   and	¢.			d.	
	15. Special Handling Instructions and Additional Information VOCAN PROPER PROPERTY CONTRACT CHEVRO 24 Hours Consumpting Contract Chevro 24 Hours Consumpting Contract Chevro	n emence I: 800 IJ: C	ecy info	MAT.	now	CEN	TER JOS#	ベンブノソビチ
	16 GENERATOR'S CERTIFICATION: I hereby declare that the contents of this marked, and labeled, and are in all respects in proper condition for trans	usbatt by highway accou	and to abblicable	internation	al and u	тионат дом	atumanı tağı	rigitoris
	If I am a large quantity generator, I certify that I have a program in plantacious and that I have selected the practicable method of treatment and the environment; OR, if I am a small quantity generator, I have no available to me and that I can afford.	ace to reduce the valum r, starage, or disposal cu ade a good faith effort to	e and toxicity of w crently available to minimize my was	raste gener o me which te generati	ated to the minimizer on and s	ie degree l as the preso elect the bo	have determent and futurest waste ma	nined to be economicalle threat to human healt nagement method that
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ķ	CHINH JOHNSON	Signature	/ ihu	NU			U <sup>M</sup>	14 25 C
§	18. Transporter 2 Acknowledgement of Receipt of Materials						Mo	nth Day Y
		Signature						
FACI		Signature						
C ]	Printed/Typed Name  19 Discrepancy Indication Space  20. Facility Owner or Operator Certification of receipt of hazardous materia	•	s) except or noted	in Hem 19.			N-	enth Doy Ye

ecology control industries
See instructions on back of page 6.

Department of Toxic Substances Control
Sacramento, Californio

<b>A</b>	UNIFORM HAZARDOUS WASTE MANIFEST	1 Generator's US EPA ID No. 「ARAOOCITINA	Manifest Docum	eni No.	2. Page 1		in the shaded areas red by Federal law.
	3. Generator's Name and Mailing Address  **********************************				anifest Document i	Number 2	4527753
	4. Generator's Phone [ 500 USS THE	6. US EPA ID Numbe		C 51-10 Te	unsparter's ID [Res	erved I	
	5 Transporter 1 Company Name			J	der's Phone	• •	
	SEVELOPEY CHANTON'A. THERETHOU	8. US EPA ID Humbe	<u>Toeffeot</u>	اسا	insporter's ID [Rej		16-236-129
	7 Transporter 2 Company Nume	8. US EFA (I) Produce	" <u>                                     </u>	F. Transpo	rier's Phone	**************************************	
	9. Designated Facility Name and Site Address Comments Comments Comments Comments The Comments	10. US EPA ID Numbe	r	G. State Fo			
	Eser Maio Alan CA ESE	B IGANOO	<u>Ranzana</u>	7	4,		9-324-363B
	11. US DOT Description (Including Proper Shippin	- ·	12. C	ontainers Type	13. Total Quantity	14. Unit Wt/Vol	1. Waste Number
G	Whele dependie comis, s GASCAME)		, ( 00		0  / 4 s\b	G	Sinte CPA/Offier DENSE TRUE
E N	b		<b>1</b>				State EPA/Other
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	1. Additional Descriptions for Malestalls Land Abortunes (1975) #1.2018 18 19 19 19 19 19 19 19 19 19 19 19 19 19	291.450, 81.2		K Handlin	Codes for Waste	Listed Above	
	15 Special Handling Instructions and Additional I	aformation President to the state of the sta	Eng Weight	e ou well FO CEA	USELY SKILD DECEMBER CERT	1990 231-06	okombe. 24 fk 23
	MOTENTE TARE		ĒC	7 Jo	1 545 2	77 76	8
	16. GENERATOR'S CERTIFICATION: I hereby dec marked, and lobeled, and are in all respects : If t am a large quantity generator, I certify the	it proper contained for addispose of many			d to the degree []	have determin	und to be economically
	and the environment; OR, if I am a small que ovailable, to me and that I can afford.	anlity generator, I have made a good faith	posal currently available affort to minimize any w	to me which mustic generation	and select the ba	on one turine of yeste mone Mont	agement inefficed their
V.	Printed/Typad Noore  17. Transporter 1 Acknowledgement of Receipt of	SCO Signoluck	our HI	MALLER		<u></u>	4   2   2   5
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	Printed/Typed Name	Signaluré				Moni	th Day Year
F A C	19 Discrepancy Indication Space		·.				
L I T Y	20. Facility Owner or Operator Certification of re	sce <u>ipt of hazardaus materials covered by th</u> Signature	is monifest except as note	d in Item 19.		Mon	th Day Year

IN CASE OF EMERGENCY OR SPILL, CALL THE NATIONAL RESPONSE CENTER 1-800-424-8802: WITHIN CALIFORNIA, CALL 1-800-852-7550

# ATTACHMENT B

**Excavation Sampling Procedures** 

#### **EXCAVATION SAMPLING PROCEDURES**

After confirming a release from underground gasoline storage tanks, product piping or pump islands, soil excavation is often done to remove hydrocarbon bearing soils that may pose a threat to ground water quality beneath a site. Soil samples are routinely collected to monitor the progress of the excavation and to confirm that soils containing hydrocarbons above regulatory limits have been completely removed. Cambria has developed standard operating procedures for collecting soil samples during routine excavation operations to ensure that the samples are collected, handled and documented in compliance with State and local regulatory agency regulations.

#### **Excavation Sampling**

Prior to collecting soil samples during excavation operations, Cambria field staff screen the removed soils with a portable photoionization detector (PID) to qualitatively assess the presence or absence of volatile hydrocarbons. The removed soil is typically segregated based on hydrocarbon concentration and stockpiled on site on plastic sheeting. When the PID measurements indicate that the hydrocarbon bearing soil has been completely removed, Cambria collects soil samples from the excavation sidewalls and bottom for confirmatory analysis at a State certified analytic laboratory.

The soil samples are collected in steam cleaned brass or steel tubes from either a driven split-spoon type sampler or the bucket of a backhoe or excavator. When a backhoe or excavator is used, approximately three inches of soil are scraped from the surface and the tube is driven into the exposed soil.

Upon removal from the sampler or the backhoe, the samples are trimmed flush, capped with Teflon tape and plastic end caps, labeled, logged and refrigerated for delivery under chain of custody to a State certified analytic laboratory.

# ATTACHMENT C Laboratory Analytic Reports



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

Cambria Env. Technology	Client Project ID: #9-2029; Chevron	Date Sampled: 04/25/05
5900 Hollis St, Suite A		Date Received: 04/25/05
Emeryville, CA 94608	Client Contact: John Ortega	Date Reported: 04/26/05
Emeryvine, CA 94008	Client P.O.:	Date Completed: 04/26/05

WorkOrder: 0504373

April 26, 2005

Dear John:

Enclosed are:

- 1). the results of 22 analyzed samples from your #9-2029; Chevron 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.

Yours truly,

Angela Rydelius, Lab Manager

Dank Coo for



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

Cambria Env. Technology	Client Project ID: #9-2029; Chevron	Date Sampled: 04/25/05
5900 Hollis St, Suite A		Date Received: 04/25/05
Emeryville, CA 94608	Client Contact: John Ortega	Date Extracted: 04/25/05
Emeryvine, CA 94000	Client P.O.:	Date Analyzed: 04/25/05-04/26/05

## Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE\*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0504373

Extraction	method: SW3030B			Analytical:	methods: 5 w 8021	B/8015Cm		WORK C	304373	
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	EX1@10'	s	ND	ND	ND	ND	ND	ND	1	88
002A	EX2 @ 10'	s	1.8,g,т	ND	ND	0.0095	ND	ND	1	89
003A	EX3 @ 10'	s	ND	ND	ND	ND	ND	ND	1	84
004A	EX4 @ 10'	S	ND	ND	ND	ND	ND	ND	1	85
005A	EX5 @ 10'	s	ND	ND	ND	ND	ND	ND	1	87
006A	EX6 @ 3.5'	s	3.4,g,m	ND	ND	0.020	ND	ND	1	111
007A	EX7 @ 3.5	s	ND	ND	ND	ND	ND	ND	1	93
A800	EX8 @ 3.5'	s	ND	ND	ND	ND	ND	ND	1	86
009A	EX9 @ 3.5'	S	ND	ND	ND	ND	ND	ND	1	83
010A	EX10 @ 3.5'	s	ND	ND	ND	ND	ND	ND	1	86
011A	EX11 @ 3.5'	s	ND	ND	ND	ND	ND	ND	1	92
012A	EX12 @ 3.5'	s	ND	ND	ND	ND	ND	ND	1	82
013A	EX13 @ 3.5'	S	ND	ND	ND	ND	ND	ND	1	82
014A	EX14 @ 3.5	s	ND	ND	ND	ND	ND	ND	1	101
015A	EX15 @ 3.5'	s	65,g,m	ND	ND	0.087	0.53	0.069	1	104
016A	EX16 @ 3.5'	S	ND	ND	ND	ND	ND	ND	1	104
	ng Limit for DF =1;	w	NA	NA	NA	NA	NA	NA	1	ug/L
	ns not detected at or the reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	1	mg/Kg

ND means not detected at or above the reporting limit

S

1.0

0.05

0.005

0.005

0.005

0.005

1 mg/K

\* water and vapor 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.

<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 ~1 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; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



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Cambria Env. Technology	Client Project ID: #9-2029; Chevron	Date Sampled: 04/25/05
5900 Hollis St, Suite A		Date Received: 04/25/05
Emeryville, CA 94608	Client Contact: John Ortega	Date Extracted: 04/25/05
Lineryvine, CA 74008	Client P.O.:	Date Analyzed: 04/25/05-04/26/05

#### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE\*

Extraction	method: SW5030B	•	g. ()	•	methods: SW8021E				Order: 0	504373
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
017A	EX17 @ 3.5'	s	370,g,m	ND<0.50	ND<0.050	0.20	ND<0.050	0.61	10	94
018A	EX18 @ 3.5'	S	ND	ND	ND	ND	ND	ND	1	98
019A	EX19 @ 3.5'	s	ND	ND	ND	ND	ND	ND	1	100
020A	EX20 @ 3.5	S	3.4,g,m	ND	ND	0.021	ND	0.0075	1	84
021A	EX21 @ 3.5'	s	190,a,g	0.37	0.20	0.14	0.17	0.27	5	92
022A	EX22 @ 3.5'	s	76,a	ND<0.25	0.35	0.058	0.78	0.20	5	100
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									+	
	ng Limit for DF =1;	w	NA	NA	NA	NA	NA NA	NA	1	ug/L
	ns not detected at or	6	1.0	0.05	0.005	0.005			<del> </del>	

Reporting Limit for DF =1; ND means not detected at or	W	NA	NA	NA	NA	NA.	NA	1	ug/L
above the reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	1	mg/Kg

<sup>\*</sup> water and vapor 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.

<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 ~1 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; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



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Website: www.mccampbell.com E-mail: main@nccampbell.com

Cambria Env. Technology

Client Project ID: #9-2029; Chevron

Date Sampled: 04/25/05

Date Received: 04/25/05

Client Contact: John Ortega

Client P.O.:

Date Analyzed: 04/25/05

Date Analyzed: 04/25/05

#### Lead by ICP\*

Extraction method: SW3050B Analytical methods: 6010C Work Order: 0504373

Lab ID	Client ID	Matrix	Extraction	Lead	DF	% SS
23.0 12	Office 42	***********				
0504373-001A	EX1@10'	S	TTLC	11	1	99
0504373-002A	EX2 @ 10'	s	TTLC	12	1	97
0504373-003A	EX3 @ 10'	s	TILC	8.7	1	102
0504373-004A	EX4 @ 10'	s	TTLC	11	1	100
0504373-005A	EX5 @ 10'	S	TTLC	9.8	1	97
0504373-006A	EX6 @ 3.5'	s	TTLC	8.9	1	101
0504373-007A	EX7 @ 3.5	s	TTLC	12	1	98
0504373-008A	EX8 @ 3.5'	s	TTLC	9.7	ı	99
0504373-009A	EX9 @ 3.5'	s	TTLC	8.9	1	97
0504373-010A	EX10 @ 3.5'	s	TTLC	5.5	1	104
0504373-011A	EX11 @ 3.5'	s	TTLC	12	1	94
0504373-012A	EX12 @ 3.5'	s	TTLC	9.3	1	102
0504373-013A	EX13 @ 3.5'	s	TTLC	7.2	1	100
0504373-014A	EX14 @ 3.5'	s	TILC	6.6	1	103
0504373-015A	EX15 @ 3.5'	s	TTLC	. 11	ı	101
0504373-016A	EX16 @ 3.5'	s	TTLC	7.9	1	103

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

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

<sup>#</sup> means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.



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Cambria Env. Technology	Client Project ID: #9-2029; Chevron	Date Sampled: 04/25/05
5900 Hollis St, Suite A		Date Received: 04/25/05
Emeryville, CA 94608	Client Contact: John Ortega	Date Extracted: 04/25/05
Zinciy vino, C2 ( )4000	Client P.O.:	Date Analyzed: 04/25/05-04/26/05

#### Lead by ICP\*

Extraction method: SW3050B Analytical methods: 6010C Work Order:

Extraction method: SW3050B			Analytical	methods: 6010C	Work Order:		
Lab ID	Client ID	Matrix	Extraction	Lead	DF	% SS	
0504373-017A	EX17 @ 3.5'	S	TTLC	14	1	99	
0504373-018A	EX18 @ 3.5'	S	TTLC	7.8	1	103	
0504373-019A	EX19 @ 3.5'	S	TTLC	7.1	1	99	
0504373-020A	EX20 @ 3.5'	s	TTLC	8.4	1	95	
0504373-021A	EX21 @ 3.5'	S	TTLC	22	1	101	
0504373-022A	EX22 @ 3.5'	S	TTLC	13	1	102	
		<u> </u>					
		<del>                                     </del>				<u> </u>	

Reporting Limit for DF =1; ND means not detected at or	W	TTLC	NA	mg/L
above the reporting limit	S	TTLC	5.0	mg/K.g

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

<sup>#</sup> means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

i) aqueous sample containing greater than ~l vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.



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

## QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0504373

EPA Method: SW8021B/8	3	Batc	hID: 1597	7	Spiked Sample ID: 0504349-002A					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
7 mary to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS/MSD	LCS / LCSD
TPH(btex) <sup>£</sup>	ND	0.60	103	98.9	4.35	97.4	102	4.77	70 - 130	70 - 130
MTBE	ND	0.10	107	89.4	17.5	106	109	3.31	70 - 130	70 - 130
Вепдепе	ND	0.10	114	102	11.5	109	114	4.83	70 - 130	70 - 130
Toluene	ND	0.10	89.1	83	7.15	85.2	89.7	5.19	70 - 130	70 - 130
Ethylbenzene	ND	0.10	109	103	5.24	104	111	6.87	70 - 130	70 - 130
Xylenes	ND	0.30	95.3	90.3	5.39	91	96.7	6.04	70 - 130	70 - 130
%SS:	95	0.10	111	112	0.897	100	93	6.93	70 - 130	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

#### **BATCH 15977 SUMMARY**

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0504373-001A	4/25/05 11:42 AM	4/25/05	4/25/05 10:53 PM	0504373-002A	4/25/05 11:50 AM	4/25/05	4/26/05 11:48 AM
0504373-003A	4/25/05 11:55 AM	4/25/05	4/26/05 1:05 AM	0504373-004A	4/25/05 12:05 PM	4/25/05	4/26/05 2:11 AM
0504373-005A	4/25/05 12:10 PM	4/25/05	4/26/05 5:27 AM	0504373-006A	4/25/05 1:50 PM	4/25/05	4/26/05 12:18 PM
0504373-007A	4/25/05 2:00 PM	4/25/05	4/26/05 7:05 AM	0504373-008A	4/25/05 2:05 PM	4/25/05	4/26/05 8:11 AM
0504373-009A	4/25/05 2:10 PM	4/25/05	4/26/05 8:44 AM	0504373-010A	4/25/05 2:10 PM	4/25/05	4/26/05 10:23 AM
0504373-011A	4/25/05 2:13 PM	4/25/05	4/26/05 10:56 AM	0504373-012A	4/25/05 2:20 PM	4/25/05	4/26/05 11:30 AM
0504373-013A	4/25/05 2:55 PM	4/25/05	4/26/05 12:03 PM	0504373-014A	4/25/05 2:30 PM	4/25/05	4/26/05 8:00 AM

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

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

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# 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.

LL QA/QC Officer



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## QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0504373

EPA Method: SW8021B/	/8015Cm E	xtraction:	SW5030B	}	BatchID: 15995			Spiked Sample ID: 0504373-018A			
Analista	Sample	Spiked	MS	MSD	MS-MSD % RPD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)		
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.		% Rec.	% Rec.	% RPD	MS/MSD	LCS / LCSD	
TPH(btex) £	ND	0.60	99	101	1.56	96.6	97.7	1.07	70 - 130	70 - 130	
МТВЕ	ND	0.10	100	103	2.90	94.9	102	7.47	70 - 130	70 - 130	
Benzene	ND	0.10	109	109	0	100	101	0.936	70 - 130	70 - 130	
Toluene	ND	0.10	86.5	88.7	2.52	81.2	83.4	2.72	70 - 130	70 - 130	
Ethylbenzene	ND	0.10	108	110	2.24	103	106	2.79	70 - 130	70 - 130	
Xylenes	ND	0.30	95.7	96	0.348	90.7	91.7	1.10	70 - 130	70 - 130	
%\$\$:	98	0.10	105	105	0	109	96	13.1	70 - 130	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

#### BATCH 15995 SUMMARY

Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
4/25/05 2:35 PM	4/25/05	4/26/05 12:48 PM	0504373-016A	4/25/05 2:40 PM	4/25/05	4/26/05 8:33 AM
4/25/05 2:48 PM	4/25/05	4/26/05 1:18 PM	0504373-018A	4/25/05 2:51 PM	4/25/05	4/26/05 9:05 AM
4/25/05 3:00 PM	4/25/05	4/26/05 9:38 AM	0504373-020A	4/25/05 3:05 PM	4/25/05	4/26/05 2:27 PM
4/25/05 3:10 PM	4/25/05	4/26/05 3:01 PM	0504373-022A	4/25/05 3:15 PM	4/25/05	4/26/05 3:35 PM
	4/25/05 2:35 PM 4/25/05 2:48 PM 4/25/05 3:00 PM	4/25/05 2:35 PM 4/25/05 4/25/05 2:48 PM 4/25/05 4/25/05 3:00 PM 4/25/05	4/25/05 2:35 PM       4/25/05       4/26/05 12:48 PM         4/25/05 2:48 PM       4/25/05       4/26/05 1:18 PM         4/25/05 3:00 PM       4/25/05       4/26/05 9:38 AM	4/25/05 2:35 PM     4/25/05     4/26/05 12:48 PM     0504373-016A       4/25/05 2:48 PM     4/25/05     4/26/05 1:18 PM     0504373-018A       4/25/05 3:00 PM     4/25/05     4/26/05 9:38 AM     0504373-020A	4/25/05 2:35 PM       4/25/05       4/26/05 12:48 PM       0504373-016A       4/25/05 2:40 PM         4/25/05 2:48 PM       4/25/05       4/26/05 1:18 PM       0504373-018A       4/25/05 2:51 PM         4/25/05 3:00 PM       4/25/05       4/26/05 9:38 AM       0504373-020A       4/25/05 3:05 PM	4/25/05 2:35 PM     4/25/05     4/26/05 12:48 PM     0504373-016A     4/25/05 2:40 PM     4/25/05       4/25/05 2:48 PM     4/25/05     4/26/05 1:18 PM     0504373-018A     4/25/05 2:51 PM     4/25/05       4/25/05 3:00 PM     4/25/05     4/26/05 9:38 AM     0504373-020A     4/25/05 3:05 PM     4/25/05

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

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

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# 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.

QA/QC Officer



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## QC SUMMARY REPORT FOR 6010C

W.O. Sample Matrix: Soil

QC Matrix: Soll

WorkOrder: 0504373

EPA Method: 6010C Extraction: SW3050B						BatchID: 15994			Spiked Sample ID: 0504372-001A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)
Allalyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
Lead	9.5	50	88.9	96.1	6.45	10	86.3	94.5	9.04	75 - 125	80 - 120
%SS:	96	250	99	104	5.47	250	114	112	1.33	70 - 130	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

#### **BATCH 15994 SUMMARY**

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0504373-001A	4/25/05 11:42 AM	4/25/05	4/26/05 12:07 AM	0504373-002A	4/25/05 11:50 AM	4/25/05	4/26/05 12:09 AM
0504373-003A	4/25/05 11:55 AM	4/25/05	4/26/05 12:24 AM	0504373-004A	4/25/05 12:05 PM	4/25/05	4/26/05 12:26 AM
0504373-005A	4/25/05 12:10 PM	4/25/05	4/26/05 12:28 AM	0504373-006A	4/25/05 1:50 PM	4/25/05	4/26/05 12:30 AM
0504373-007A	4/25/05 2:00 PM	4/25/05	4/26/05 12:32 AM	0504373-008A	4/25/05 2:05 PM	4/25/05	4/26/05 12:34 AM
0504373-009A	4/25/05 2:10 PM	4/25/05	4/26/05 12:36 AM	0504373-010A	4/25/05 2:10 PM	4/25/05	4/26/05 12:38 AM
0504373-011A	4/25/05 2:13 PM	4/25/05	4/26/05 12:40 AM	0504373-012A	4/25/05 2:20 PM	4/25/05	4/26/05 12:42 AM
0504373-013A	4/25/05 2:55 PM	4/25/05	4/26/05 12:48 AM	0504373-014A	4/25/05 2:30 PM	4/25/05	4/26/05 12:50 AM
0504373-015A	4/25/05 2:35 PM	4/25/05	4/26/05 12:52 AM	0504373-016A	4/25/05 2:40 PM	4/25/05	4/26/05 12:54 AM
0504373-017A	4/25/05 2:48 PM	4/25/05	4/26/05 12:56 AM	0504373-018A	4/25/05 2:51 PM	4/25/05	4/26/05 12:58 AM
0504373-019A	4/25/05 3:00 PM	4/25/05	4/26/05 1:00 AM				

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

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

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

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.

LL QA/QC Officer



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

## QC SUMMARY REPORT FOR 6010C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0504373

EPA Method: 6010C		Extract	lion: SW	3050B		Batch	D: 15996		Spiked Sample ID: 0504373-022A								
Analyte	Sample Spiked		MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)						
	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD						
Lead	13	50	92.1	90.9	0.980	10	90.1	85.8	4.86	75 - 125	80 - 120						
%SS:	102	250	106	110	3.34	250	111	111	0	70 - 130	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

#### BATCH 15996 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0504373-020A	4/25/05 3:05 PM	4/25/05	4/26/05 1:02 AM	0504373-021A	4/25/05 3:10 PM	4/25/05	4/26/05 1:04 AM
0504373-022A	4/25/05 3:15 PM	4/25/05	4/25/05 11:41 PM				

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

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

MS / MSD spike recoverles and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

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.

MQA/QC Officer

# **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

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

WorkOrder: 0504373

ClientID: CETE

Report to:

John Ortega Cambria Env. Technology 5900 Hollis St, Suite A

Emeryville, CA 94608

TEL: FAX: (510) 420-3349 (510) 420-9170

ProjectNo: #9-2029; Chevron PO:

Bill to:

Requested TAT:

1 day

Accounts Payable

Cambria Env. Technology

5900 Hollis St, Ste. A Emeryville, CA 94608 Date Received:

04/25/2005

Date Printed:

04/25/2005

									F	Request	ed Test	s (See le	egend b	elow)					
Sample ID	ClientSampID	Matrix	Collection Date F	lold	1	2	3	4	5	6	7	8	9	10	11	12	13	14	15
0504373-001	EX1@10'	Soil	4/25/05 11:42:00		Α	Α													
0504373-002	EX2 @ 10'	Soil	4/25/05 11:50:00		Α	Α			<u> </u>	1		<u> </u>							$\perp$
0504373-003	EX3 @ 10'	Soil	4/25/05 11:55:00		Α	Α													$\bot$
0504373-004	EX4 @ 10'	Soil	4/25/05 12:05:00		Α	Α						<u> </u>	<u> </u>						
0504373-005	EX5 @ 10'	Soil	4/25/05 12:10:00		Α	Α							<u> </u>	<u> </u>					
0504373-006	EX6 @ 3.5'	Soil	4/25/05 1:50:00 PM		Α	Α					1		ļ						$\perp$
0504373-007	EX7 @ 3.5	Soil	4/25/05 2:00:00 PM		A	Α						1	<u> </u>						$\bot$
0504373-008	EX8 @ 3.5'	Soil	4/25/05 2:05:00 PM		Α	Α					<u> </u>	<u></u>	<u></u>						$\perp$
0504373-009	EX9 @ 3.5'	Soil	4/25/05 2:10:00 PM		Α	Α													
0504373-010	EX10 @ 3.5'	Soil	4/25/05 2:10:00 PM		Α	Α								<u> </u>					1
0504373-011	EX11 @ 3.5'	Soil	4/25/05 2:13:00 PM		Α	Α			•	<u>L</u>	<u> </u>								丄
0504373-012	EX12 @ 3.5'	Soil	4/25/05 2:20:00 PM		Α	Α										ļ			$\perp$
0504373-013	EX13 @ 3.5'	Soil	4/25/05 2:55:00 PM		Α	Α							İ	<u> </u>			<u></u>		$\bot$
0504373-014	EX14 @ 3.5'	Soll	4/25/05 2:30:00 PM		Α	Α													┷
0504373-015	EX15 @ 3.5'	Soil	4/25/05 2:35:00 PM		Α	Α									<u> </u>				
Test Legend:																			
1 G-MB	TEX_S	2	PB_S		3					4					5				
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11		12		Г	13					14					15				

Prepared by: Melissa Valles

#### 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.

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

# **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0504373

ClientID: CETE

Report to:

John Ortega

Cambria Env. Technology

5900 Hollis St, Suite A Emeryville, CA 94608

TEL: FAX:

(510) 420-3349

(510) 420-9170 ProjectNo: #9-2029; Chevron

PO:

Bill to:

Accounts Payable

Cambria Env. Technology

5900 Hollis St, Ste. A Emeryville, CA 94608 Date Received: Date Printed:

Requested TAT:

04/25/2005

1 day

04/25/2005

																Dust 1		V-	1123120	303
										R	eques	ted Te	sts (Sec	legend	below)					
Sample ID	ClientSamplD	Matrix	Collection Date	Hold	1	2	3	4	ŧ	5	6	7	8	9	10	11	12	13	14	15
0504373-016	EX16 @ 3.5'	Soil	4/25/05 2:40:00 PM		Α	Α					-	1		_	T	Ţ	T 1		1	$\top$
0504373-017	EX17 @ 3.5'	Soil	4/25/05 2:48:00 PM		Α	A	1					1	+	<del></del>		+			<del> </del>	+
0504373-018	EX18 @ 3.5'	Soil	4/25/05 2:51:00 PM	in	Α	A	<u> </u>	<del> </del>	_	-		<del> </del>	-	<del> </del>		<del> </del>	-			+
0504373-019	EX19 @ 3.5'	Soil	4/25/05 3:00:00 PM	ifi	Α	A			<del> </del>	1				-		<del> </del>	<del></del>		<u> </u>	+-
0504373-020	EX20 @ 3.5'	Soil	4/25/05 3:05:00 PM		Α	A	-		<del> </del>			+	<del></del>			<del> </del>	-			+
0504373-021	EX21 @ 3.5'	Soil	4/25/05 3:10:00 PM		A	A	<del>                                     </del>	<u> </u>	-	$\dashv$		-	-	+		<del> </del>				
0504373-022	EX22 @ 3.5'	Soil	4/25/05 3:15:00 PM		Ā	A	┪┈──	<del> </del>	+-	-		<del> </del>		+		1	<del> </del>	· ·		

#### Test Legend:

1	G-MBTEX_S
6	
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2	PB_S
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Prepared by: Melissa Valles

#### 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.

McC	AMPBEL	L ANAL	YTICAL,	INC.

110 2rd AVENUE SOUTH, #D7 PACHECO, CA 945S3-5560

Website: www.mccampbell.com Email: main@mccampbell.com nbone: (925) 798-1620 Fax: (925) 798-1622 Telephone: (925) 798-1629

CHAIN OF CUSTODY RECORD

TURN AROUND TIME		Ø	Q
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RUSH 24 HR 48 HR 72 HR 5 DAY EDF Required [circle one]? Coelt (Normal) Write On (DW) No EDF required

Report To: CAMBARA Bill To: SAME										_	Analysis Request Other C												Comments													
Company: 596	D Mall	> 5	S <i>L</i> .		ner					a	2			┢	T		1	Τ		I I	A 919	Net	ues	L		_					THE	-	Comments			
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Tele: (5/0 ) 47	20- 334	4	I	ax: (	2/0	) L	l La	<u>م د</u>	91	<u></u> 7-0	. <u></u>	P. C.	-	SU(S		(5520 E&F/B&F)	(418.1)				.					8/6						١	for Metals analysis:			
Project#: 🔁	Project #: 40 Chaurou 9-2029 Project Name:												\$61	١.	22	9		6							827	_						Yes / No				
Project Location:	590 Mm	cArt	hur	BWZ	I.			1	( Ja,	EL.	u	Î	N	+07	1	e (55	흕	1	802							625 / 8270 / 8310	8	8	$\Box$			١	2007110			
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SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	Afr	Studge	ĬĊĔ	HCI	HNO,	Other	BTEX & TPH	TPH 28 Diesel (8015)	Total Petroleum	Total Petroleum Hydrocarbons	EPA 601 / 8010 / 8021	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8081	EPA 608 / 8082 PCB's ONLY	EPA 8140 / 8141	EPA 8150 / 8151	EPA 524,2 / 624 / 8260	EPA 525 / 625 / 8270	PAH's / PNA's by EPA	CAM-17 Metals (6010 / 6020)	LUNT 5 Metals (6010 / 6020)	Lead (200.8 / 200.9 (/ 6010)							
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9257984612

INC

118 2 <sup>nd</sup> AVENUE SOUTH, #D7 PACHECO, CA 94553-5560										CHAIN OF CUSTODY RECORD TURN AROUND TIME																						
W	ebsite: www.	PA (	THREEN, CA	64565	SECO.			L - 91						Ţţ	IRN	A	RO	UN	M I	ΓIM	Œ					<b>P</b>		_	<u>]</u>			Q
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110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com B-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #9-2029	Date Sampled: 04/27/05
5900 Hollis St, Suite A		Date Received: 04/27/05
D	Client Contact: John Ortega	Date Reported: 05/02/05
Emeryville, CA 94608	Client P.O.:	Date Completed: 05/02/05

WorkOrder: 0504407

May 02, 2005

Dear John:

#### Enclosed are:

- 1). the results of 1 analyzed sample from your #9-2029 project,
- 2). a QC report for the above sample
- 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.

ingela Rydelius, Lab Manager

Yours truly,



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

Cambria Env. Technology	Client Project ID: #9-2029	Date Sampled: 04/27/05
5900 Hollis St, Suite A		Date Received: 04/27/05
Emeryville, CA 94608	Client Contact: John Ortega	Date Extracted: 04/28/05
Efficiency inc, CA 94008	Client P.O.:	Date Analyzed: 04/28/05
Gaso	line Range (C6-C12) Volatile Hydrocarbons	as Gasoline*
Extraction method: SW5030B	Analytical methods: SW8015Cm	Work Order: 0504407

action method:		Analytic	al methods: SW8015Cm	Work Order:	050440
Lab ID	Client ID	Matrix	TPH(g)	DF	% S
001A	TANK PIT WATER	w	210,a	1	106
-					
<u>.</u> <u>.</u>					
			<del> </del>		
					-
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Reportin	ng Limit for DF =1; ns not detected at or	W	50		g/L
	the reporting limit	S	NA	1	NΑ

ND means not detected at or	W	50	μg/L
above the reporting limit	S	NA	NA

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

<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 ~1 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; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



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

Cambria Env. Technology	Client Project ID:	: #9-2029		Date Sampled: 04/27/05						
5900 Hollis St, Suite A			[:	Date Received: 04/27/05						
·	Client Contact: J	ohn Ortega		Date Extracted	1: 04/29	/29/05				
Emeryville, CA 94608	Client P.O.:			Date Analyzed	1: 04/29	4/29/05				
		and BTEX by C					0501157			
Extraction Method: SW5030B	Analy	ytical Method: SW8260E	9			Work Ord	er: 0504407			
Lab II	0504407-001B									
Client II	TANK PIT WATER					Reporting DF				
Matri							-1			
D	F 1					S	w			
Compound Concentration							μg/L			
Compound		Соцсе	IIII ALIUN			ug/kg	Pro-			
Benzene	1.5	Conce	III alloh			NA NA	0.5			
	1.5 ND	Conce	uti atton	7-3 6-27						
Benzene		Conce	uti atton			NA	0.5			
Benzene Ethylbenzene	ND	Conce				NA NA	0.5			
Benzene Ethylbenzene Methyl-t-butyl ether (MTBE)	ND 4.4	Conce				NA NA	0.5 0.5 0.5			
Benzene  Ethylbenzene  Methyl-t-butyl ether (MTBE)  Toluene	ND 4.4 1.5 42	ogate Recoveries				NA NA NA	0.5 0.5 0.5			
Benzene  Ethylbenzene  Methyl-t-butyl ether (MTBE)  Toluene	ND 4.4 1.5 42					NA NA NA	0.5 0.5 0.5			

94

%SS3:

Comments

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

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

<sup>#</sup> surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

h) lighter than water immiscible sheen/product is present; i) liquid sample that contains greater than ~1 vol. % sediment; j) sample diluted due to high organic content/matrix interference; k) reporting limit near, but not identical to our standard reporting limit due to variable Encore sample weight; m) reporting limit raised due to insufficient sample amount; n) results are reported on a dry weight basis; p) see attached narrative.



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

## QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0504407

EPA Method: SW8021B/	SW5030E	3	Batc	hID: 1601	6	Spiked Sample ID: 0504413-007A				
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)	
Filalyto	μg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD
TPH(btex) <sup>£</sup>	ND	60	100	101	0.476	95.6	93.8	1.87	70 - 130	70 - 130
МТВЕ	ND	10	96.3	91.8	4.74	94.5	88	7.08	70 - 130	70 - 130
Benzene	ND	10	98.6	100	1.50	101	96.5	4.94	70 - 130	70 - 130
Toluene	ND	10	106	105	0.840	100	95.4	5.24	70 - 130	70 - 130
Ethylbenzene	ND	10	112	115	2.55	107	102	4.92	70 - 130	70 - 130
Xylenes	ND	30	100	100	0	95.3	90.7	5.02	70 - 130	70 - 130
%SS:	97	10	110	106	3.57	108	110	1.84	70 - 130	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

#### BATCH 16016 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0504407-001A	4/27/05 3:50 PM	4/28/05	4/28/05 8:14 AM				

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

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

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(blex) = sum of BTEX areas from the FID.

# cluttered chromatogram; sample peak coelutes with surrogate peak.

N/A = not applicable or 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.

QA/QC Officer



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

## QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Water

QC Matrix: Water

WorkOrder: 0504407

EPA Method: SW8260B	E	xtraction:	: SW5030B	į	Batc	:hID: 1601	7	Spiked Sample ID: 0504403-002A			
Analyte	Sample	Spiked	мѕ	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)		
	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
Benzene	ND	10	102	103	1.47	99	101	1.58	70 - 130	70 - 130	
Methyl-t-butyl ether (MTBE)	ND	10	119	119	0	107	116	8.07	70 - 130	70 - 130	
Toluene	ND	10	103	105	2.00	94.2	102	8.42	70 - 130	70 - 130	
%SS1:	107	10	102	101	0.708	102	102	0	70 - 130	70 - 130	
%SS2:	100	10	97	96	0.548	95	97	3.06	70 - 130	70 - 130	
%SS3:	119	10	110	112	1.59	115	107	7.55	70 - 130	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

#### BATCH 16017 SUMMARY

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0504407-001B	4/27/05 3:50 PM	4/29/05	4/29/05 5:50 PM				

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

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

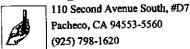
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the 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.

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

QA/QC Officer



# **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 0504407

ClientID: CETE

Report to:

John Ortega

Cambria Env. Technology 5900 Hollis St, Suite A Emeryville, CA 94608 TEL:

(510) 420-3349 (510) 420-9170

FAX: (510) 420 ProjectNo: #9-2029

PO:

Bill to:

Accounts Payable

Cambria Env. Technology 5900 Hollis St, Ste. A

Emeryville, CA 94608

Requested TAT:

5 days

5 d

Date Received: 04/27/2005

Date Printed:

04/27/2005

				ſ		•						Requ	ieste	d Tes	ts (See	legend l	pelow)					
Sample ID	ClientSampID	Matrix	Collection Date	Hold	1	. 2	2 ]	3	1	4	5		6	7	8	9	10	11	12	13	14	15
0504407-001	TANK PIT WATER	Water	4/27/05 3:50:00 PM	1	A	E	3						•			T						Ţ

### Test Legend:

1	G-MBTEX_W
6	
11	

2	MBTEX-8260B_W
7	
12	

3	
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4	
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14	

5	
10	
15	

Prepared by: Rosa 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.

M	[cCAMP]	10 2 <sup>rd</sup> A	VENUE SO	OUTH,	#D7	AL	, Il	₹C.						TURN AROUND TIME										M									
Web	site: www.mc	PACHE( campbell	CO, CA 94: .com Em:	553-5560 ail: main@mccampbell.com						RUSH 24 HR 48 HR 72 HR & DA										DAY													
Telephor	ie: (925) 798	-1620			F	ax:	(925	79		22				EDF Required? Coelt (Normal) No Write On (DW) No																			
	Report To: John Olega Bill To: CHMBREW										Analysis Request Other									ther		Comments											
Company: CAN	13PEA	<u>UKNJ.</u>	Sect	L				-					႕				٤	-															Filter
5900 Halli	<u>5 51, 5</u>	<u>u. le</u>				<del></del>								4			(EF/BF)								Ì	2				ğ	1 1		Samples
Emary Mc,	CA 946	20°5		-Ma						~				8015)/MATER									(F)			/8310				8260			for Metals
Tele: (510 ) 47	20-3349		<u>.</u>	ax: (	510	) 4	<u> </u>	<u>-9</u>	17	<u>د</u>				8015			0/166	8.3	(SE)			ଚ	cide			270			ı				analysis:
Project #: 9 - 7	0 29	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	<u></u>	rojec	ENAI	ne:	<u> </u>	120	27	7.3			$\dashv$	_	_		(552)		arb	डि	ΓX	cide	erbi	Cg)	3	8/8	(02	9	ı	100	<u> </u>		Yes / No
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SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	Sludge	Other	ICE	HCL	HNO3	Other	RIEX & TPH a	BTEX only (EPA 602/8020)	TPH as Diesel (8015)	Total Petroleum Oil & Grease (5520/1664	Total Petroleum Hydrocarbons (418.1)	EPA 601/8010/8021 (Halocarbons)	EPA 608 / 8081 (CI Pesticides)	EPA 608 / 8082 PCB's ONLY	EPA 8140 / 8141 (Np Pesticides)	EPA 8150 / 8151 (Acidic Herbicides)	EPA 524.2 / 624 / 8260 (VOCs)	EPA 525 / 625 / 8270 (SVOCs)	PAH's / PNA's by EPA 625 / 8270	CAM-17 Metals (6010 / 6020)	LUFT 5 Metals (6010 / 6020)	Lead (200.8 / 200.9 / 6010)	BTEX + MIGS			
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Relinquished By:	/ /	Date:	Time:	Received By:			HEAD SPACE ABSENT DECHLORINATED IN LAB																										
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110 2nd Avenue South, #D7, Pacheco, CA 94553-5560 Telephone: 925-798-1620 Fax: 925-798-1622 Website: www.mccampbell.com E-mail: main@mccampbell.com

Cambria Env. Technology	Client Project ID: #9-2029; 890 W.	Date Sampled: 04/25/05
5900 Hollis St, Suite A	MacArthur Blvd, Oakland	Date Received: 04/25/05
Emeryville, CA 94608	Client Contact: John Ortega	Date Reported: 04/26/05
Linelyvino, CA 94000	Client P.O.:	Date Completed: 04/26/05

WorkOrder: 0504372

April 26, 2005

#### Dear John:

#### Enclosed are:

- 1). the results of 1 analyzed sample from your #9-2029; 890 W. MacArthur Blvd, Oakland project,
- 2). a QC report for the above sample
- 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



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

Cambria Env. Technology	Client Project ID: #9-2029; 890 W.	Date Sampled: 04/25/05
5900 Hollis St, Suite A	MacArthur Blvd, Oakland	Date Received: 04/25/05
Emeryville, CA 94608	Client Contact: John Ortega	Date Extracted: 04/25/05
Emeryvine, CA 34006	Client P.O.:	Date Analyzed: 04/26/05

#### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE\*

Extraction method: SW5030B Analytical methods: SW8021B/8015Cm Work Order: 0504372

	rediod. Swyode	<b>-</b>			neulous: 5 W auz I				Jiuer, U	
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS
001A	Comp-1	S	37,g,m	ND	0.0054	0.019	0.035	0.029	1	107
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Reporting Limit for DF =1;  ND means not detected at or	w	NA	NA	NA	NA	NA	NA	1	ug/L
above the reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	1	mg/Kg

<sup>\*</sup> water and vapor 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.

<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 ~1 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; n) TPH(g) range non-target isolated peaks subtracted out of the TPH(g) concentration at the client's request.



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

Cambria Env. Technology	Client Project ID: #9-2029; 890 W. MacArthur Blvd, Oakland	Date Sampled: 04/25/05
5900 Hollis St, Suite A	WacAithur Bivu, Oakland	Date Received: 04/25/05
Emeryville, CA 94608	Client Contact: John Ortega	Date Extracted: 04/25/05
	Client P.O.:	Date Analyzed: 04/25/05

#### Lead by ICP\*

Extraction method: SW3050B

Analytical methods: 6010C

Work Order: 050437:

Extraction metron: 5 W			Anaiyucai	methods: 6010C	Work Order:	0504372
Lab ID	Client ID	Matrix	Extraction	Lead	DF	% SS
0504372-001A	Comp-1	s	TTLC	9.5	1	96

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

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

# means surrogate diluted out of range; ND means not detected above the reporting limit; N/A means not applicable to this sample or instrument.

i) aqueous sample containing greater than ~1 vol. % sediment; for DISSOLVED metals, this sample has been preserved prior to filtration; for TTLC metals, a representative sediment-water mixture was digested; j) reporting limit raised due to insufficient sample amount; k) reporting limit raised due to matrix interference; m) estimated value due to low/high surrrogate recovery, caused by matrix interference; n) results are reported on a dry weight basis; p) see attached narrative.





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

## QC SUMMARY REPORT FOR SW8021B/8015Cm

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0504372

EPA Method: SW8021B/	8015Cm E	Extraction: SW5030B			Bato	:hID: 1597	7	Spiked Sample ID: 0504349-002A			
Analyte	Sample	Spiked	MS % Rec.	MSD	MS-MSD % RPD	LCS	LCSD	LCS-LCSD	Acceptance Criteria (%)		
7 ilialy to	mg/Kg	mg/Kg		% Rec.		% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD	
TPH(btex) <sup>£</sup>	ND	0.60	103	98.9	4.35	97.4	102	4.77	70 - 130	70 - 130	
МТВЕ	ND	0.10	107	89.4	17.5	106	109	3.31	70 - 130	70 - 130	
Benzene	ND	0.10	114	102	11.5	109	114	4.83	70 - 130	70 - 130	
Toluene	ND	0.10	89.1	83	7.15	85.2	89.7	5.19	70 - 130	70 - 130	
Ethylbenzene	ND	0.10	109	103	5.24	104	111	6.87	70 - 130	70 - 130	
Xylenes	ND	0.30	95.3	90.3	5.39	91	96.7	6.04	70 - 130	70 - 130	
%SS:	95	0.10	111	112	0.897	100	93	6.93	70 - 130	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

#### **BATCH 15977 SUMMARY**

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0504372-001A	4/25/05 3:35 PM	4/25/05	4/26/05 12:36 PM				

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

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

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

£ TPH(btex) = sum of BTEX areas from the FID.

# 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.

11 QA/QC Officer



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

## QC SUMMARY REPORT FOR 6010C

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder: 0504372

EPA Method: 6010C Extraction				on: SW3050B BatchID: 15994				Spiked Sample ID: 0504372-001A					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acceptance	Criteria (%)		
	mg/Kg	mg/Kg	% Rec. % Rec		. % RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	LCS / LCSD		
Lead	9.5	50	88.9	96.1	6.45	10	86.3	94.5	9.04	75 - 125	80 - 120		
%SS:	96	250	99	104	5.47	250	114	112	1.33	70 - 130	70 - 130		

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

#### **BATCH 15994 SUMMARY**

Sample ID	Date Sampled	Date Extracted	Date Analyzed	Sample ID	Date Sampled	Date Extracted	Date Analyzed
0504372-001A	4/25/05 3:35 PM	4/25/05	4/25/05 11:10 PM				

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

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

MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons; a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the spike recovery.

N/A = not applicable to this method.

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.

M QA/QC Officer

**CHAIN-OF-CUSTODY RECORD** 

Page 1 of 1

A STATE OF THE STA

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

WorkOrder: 0504372

ClientID: CETE

Report to:

John Ortega

Cambria Env. Technology

5900 Hollis St, Suite A Emeryville, CA 94608 TEL:

(510) 420-3349

FAX: (510) 420-9170

ProjectNo: #9-2029; 890 W. MacArthur Blvd, Oakla

PQ:

Bill to:

Requ

Requested TAT:

1 day

Accounts Payable

Cambria Env. Technology

5900 Hollis St, Ste. A Emeryville, CA 94608 Date Received:

04/25/2005

Date Printed:

04/25/2005

					Requested Tests (See legend below)																
Sample ID	ClientSampID	Matrix	Collection Date H	lold	1	2	3	4	5	6	3	7	l	8	9	10	11	12	13	14	15
0504372-001	Comp-1	Sail	4/25/05 3:35:00 PM		Α	Α		<u> </u>	<u> </u>												

#### Test Legend:

1 G-MBTEX_S	2 PB_S	3	4	5
6	7	8	9	10
11	12	13	14	15

Prepared	by:

Comments:

24hr Rush

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.

0504372

SAMPLING

1/20/15/17:35

Time

Date

Report To: John Along

Company: CLAMBREAL

Tele: (5/0) 470 - 33 49

Project Location: 850 lai

LOCATION

5-2029

Project #: 9-2019

Sampler Signature:

SAMPLE ID

(Field Point Name)

Comp. 1

Relinquished Ry:

# McCAMPBELL ANALYTICAL, INC.

110 2nd AVENUE SOUTH, #D7 PACHECO, CA 94553-5560

Website: www.mccampbell.com Email: main@mccampbell.com Telephone: (925) 798-1620 Fax: (925) 798-1622

Em. Toc

Bill To:

Silo A Energy VH MA 94608

Fax: (30 ) 400 -9/20

Project Name: 9-7029

Water

Received By:

Received By:

Received By:

Time:

Time:

Date:

MATRIX

Air Sludge

Other

ICE HCI HNO,

CUSTODY RECORD TURN AROUND TIME RUSH 48 HR 72 HR 5 DAY EDF Required [circle one]? Coelt (Normal) Write On (DW) No EDF required Analysis Request Other Comments Filter (5520 E&F/B&R) Samples 625 / 8270 / 8310 for Metals analysis: BTEX ONLY (EPA 602 / 8020) Yes/No EPA 608 / 8082 PCB's ONLY LUIT 5 Metals (6010 / 6020) EPA 524.2 / 624 / 8260 EPA 601 / 8010 / 8021 METHOD TPH as Diésel (8015) PRESERVED Total Petroleum Oil EPA 8140 / 8141 EPA 8150 / 8151 EPA 608 / 8081 BTEX & Other ICE/t° COMMENTS: GOOD CONDITION Please Run STLE 750 pour + TUP > 5 pour HEAD SPACE ABSENT DECHLORINATED IN LAB APPROPRIATE CONTAINERS PRESERVED IN LAB VOAS O&G METALS OTHER PRESERVATION\_ \*Please circle water type:

GROUND WASTE DRINKING RECREATIONAL EFFLUENT

# ATTACHMENT D

Summary Sheets - Soil Disposal at Landfills

# Integrated Wastestream Management, Inc. 950 Ames Avenue, Milpitas, CA 95035

### ATTACHMENT "A"

95071-BS

Chevron #9-2029 890 W MacArthur Blvd Oakland, CA

Soil Disposed at Republic Services, Livermore, CA

	Removal/Disposal Date	Tons	Ticket No.	Manifest No.	Hauler
1	05/10/05	17.94	644038	95071BS-Ld1	IWM
2	05/10/05	18.51	644028	95071BS-Ld2	IWM
3	05/10/05	17.67	644029	95071BS-Ld3	<b>IWM</b>

**Total Tonnage** 

54.12

# Integrated Wastestream Management, Inc. 950 Ames Avenue, Milpitas, CA 95035

### **ATTACHMENT "A"**

95043-BW

Chevron #9-2029 890 W MacArthur Blvd Oakland, CA

Water Disposed at Chemical Waste Management, Kettleman Hills, CA

	Removal/Disposal Date	Tons	Ticket No.	Manifest No.	Hauler
1	04/29/05	22.69	MCK290405-CH1	129991	<b>IWM</b>
2	05/02/05	22.63	MCK020505-CH2	130144	IWM
3	05/03/05	22.75	MCK030505-CH3	130233	IWM

**Total Tonnage** 

68.07