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Alameda County Environmental Health

<u>PREPARED BY:</u> GEOCON CONSULTANTS, INC. 6671 BRISA STREET LIVERMORE, CALIFORNIA

111 GRAND AVENUE, 12TH FLOOR

PREPARED FOR:

CALTRANS DISTRICT 4

OAKLAND, CA 94612

GEOCON PROJECT NO. E8415-06-83 CALTRANS EA 04-3A5114





SEPTEMBER 2010



GEOTECHNICAL ENVIRONMENTAL MATERIALS



Project No. E8415-06-83 September 8, 2010

Mr. Chris Bledsoe Caltrans – District 4 111 Grand Avenue Oakland, California 94612

Subject: UST REMOVAL REPORT TELEGRAPH AVENUE OAKLAND, CALIFORNIA CONTRACT NO. 43A0199, EA 04-3A5114

Dear Mr. Bledsoe:

Geocon has prepared this UST Removal Report for the above referenced site on behalf of Caltrans - District 4 (Caltrans). The report contains details of field services and laboratory analytical results.

A copy of Caltrans' authorization letter to submit the report to the Alameda County Environmental Health Department is provided in Appendix F. Please contact the undersigned if you have any questions or comments.

G

JOHN W. LOVE

No. 6315

Sincerely, GEOCON CONSULTANTS, INC.

John Love, PG Sr. Project Geologist

JWL:RWD

- (3) Addressee
- Donna Drogos, Alameda County Health Care Services Agency (electronic submittal)



Richard Day, CEG, CHG Regional Manager

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UST REMOVAL REPORT

1.0 INTRODUCTION

On behalf of the California Department of Transportation (Caltrans) - District 4, Geocon removed one 650-gallon steel underground storage tank (UST) located beneath the sidewalk along the east side of Telegraph Avenue in Oakland, under the Bay Area Rapid Transit (BART) and Highway 24 overcrossings. In addition to removing the UST, Geocon also over-excavated and arranged for the disposal of 25 tons of petroleum-impacted soil underlying and surrounding the tank.

This report was prepared under Caltrans Contract No. 43A0199, Task Order No. 04-2007-69.

1.1 Site Description

The UST was located beneath the sidewalk along the east side of Telegraph Avenue under the BART and Highway 24 overcrossings; approximately 50 feet north of the 56th Street intersection in Oakland, California (see Figure 1). The UST was situated adjacent to the BART and Highway 24 overcrossing footings, and Telegraph Avenue. Photographs of the UST removal operations are provided in Appendix A.

1.2 Background

The UST was discovered by BART's contractor during seismic retrofit construction activities on July 13, 2010. It was measured to be 8 feet long by 44 inches wide. The UST contained water with a diesel fuel sheen upon discovery. Approximately 711 gallons of fluid and rinsate was removed from the UST by NRC Environmental Services (NRC) on July 16, 2010, in preparation of the UST's removal later that day. A copy of the hazardous waste manifest used to transport and dispose the fluids is provided in Appendix B

1.2 Scope of Services

The general scope of services conducted in conjunction with this project consisted of the following:

- Obtained UST removal permit from the City of Oakland Fire Department;
- Removed and disposed of oily water inside the UST;
- Removed, loaded, prepared manifests, and transported UST to a recycling facility for disposal;
- Over-excavated approximately 25 tons of petroleum hydrocarbon-impacted soil;
- Collected excavation confirmation soil samples;

- Loaded, transported, and disposed of soil at the Hay Road Class II Landfill in Vacaville, California; and
- Prepared this report.

2.0 UST REMOVAL

2.1 UST Removal and Soil Over-Excavation

On July 16, 2010, one 650-gallon single-wall steel UST was removed from the site under the oversight of the City of Oakland Fire Department (OFD). A copy of the OFD UST removal permit is provided in Appendix C.

Prior to removing the UST, the atmosphere in the UST was rendered inert by adding 80 pounds of dry ice to displace organic vapors that may have been present in the UST after the oily water and rinsate fluids were removed from the UST by NRC Environmental (see Section 1.2). A Gastech meter was used to confirm the atmosphere inside the UST was less than 10 percent of the lower explosive limit (LEL) prior to physically removing the UST from the ground.

Holes were observed in the UST and an obvious petroleum odor was noticed in the underlying soils. As a result, Geocon removed as much petroleum-impacted soil (nearly 25 tons) surrounding and underlying the UST as possible, given the surrounding overcrossing footings, roadway, sidewalk, and reach capability of the small excavator used to unearth and remove the UST. The resultant excavation was approximately eight feet deep and the irregular-shaped lateral dimensions of the excavation are shown on Figure 2.

The UST was transported by NRC under hazardous waste manifest to the Ecology Control Industries facility in Richmond, California, for recycling. A copy of the hazardous waste manifest is provided in Appendix B.

2.1.1 Excavation Soil Sampling Procedures, Analysis, and Results

One soil sample was collected beneath the former UST at a depth of approximately eight feet at the direction of the OFD Assistant Fire Marshall, Mr. Keith Mathews. Four additional soil samples were collected from along the bottom of the excavation sidewalls of the completed over-excavation after Mr. Matthews left the site. The additional soil samples were collected for the purpose of assessing the lateral extent of impacts to soil before the excavation was backfilled. All the confirmation soil samples were collected at an approximate depth of eight feet. The sample locations are shown on Figure 2.

Confirmation soil samples were collected from the excavator bucket by driving a stainless steel sample tube into a freshly exposed surface of soil removed from selected areas of the excavation. Upon collection, each sample tube was sealed on both ends with Teflon tape and plastic end caps, and then placed in a chest cooled with ice for transport to the analytical laboratory. The soil samples were delivered under chain-of-custody protocol to McCampbell Analytical, Inc., a State of California-certified laboratory located in Pittsburg, California.

Excavation soil samples were analyzed for total petroleum hydrocarbons as gasoline (TPHg), as diesel (TPHd), and as motor oil (TPHmo) following EPA Test Method 8015B; volatile organic compounds (VOCs) following EPA Test Method 8260B; and Leaking Underground Storage Tank (LUFT) 5 Metals following EPA Test Method 6010/7000.

TPHg, TPHd, and TPHmo were detected in all but one of the soil samples (TPHmo was reported as non-detect in soil sample "Excavation A"). The TPHg concentrations ranged from 5.9 milligrams per kilogram (mg/kg) to 400 mg/kg, TPHd concentrations ranged from 4.2 mg/kg to 110 mg/kg, and detected TPHmo concentrations ranged from 7.7 mg/kg to 14 mg/kg.

Several VOCs were also detected in each of the excavation soil samples; however none of the analytes were reported at concentrations exceeding the San Francisco Bay Regional Water Quality Control Board's (RWQCB's) environmental screening levels (ESLs) for shallow (\leq 3 meters) soils at residential or commercial sites (RWQCB, May 2008, Tables A and B)...

LUFT 5 metals were detected at background concentrations in each of the excavation soil samples.

Excavation soil sample results are tabulated in Tables 1 and 2, and copies of the analytical laboratory data sheets are provide in Appendix D.

Geocon did not backfill the completed excavation. This portion of the project was conducted at a later date by BART contractors.

2.1.2 Stockpile Soil Sampling and Results

Excavated soil was stockpiled in two 20-cubic-yard soil bins. One four-point composite soil sample was collected from each bin and analyzed for the same constituents as the excavation soil samples (see Section 2.1.1). The soil bin samples were also analyzed for soluble threshold limit concentration (STLC) chromium and TPHd following waste extraction test (WET) methodology. These additional analyses were requested by the landfill prior to acceptance of the soil in the bins for disposal.

The soil sample results of the soil bins samples are tabulated in Tables 1 and 2, and copies of the analytical laboratory data sheets are provided in Appendix D.

2.1.3 Soil and Groundwater Conditions

Soils encountered during the UST removal and soil over-excavation activities consisted of firm to very stiff, sandy and silty clays. An obvious petroleum odor was present in the soils from ground surface to the total depth of the excavation; however the intensity of the odors seemed to dissipate with depth.

Groundwater was not encountered during the soil excavation portion of the project; however a review of the Geotracker database indicates there is a Chevron Station (5500 Telegraph Avenue) site situated approximately 200 feet south of the UST removal area, where groundwater was encountered under confined conditions from 10 to 13 feet below ground surface (bgs). Static groundwater at this site was consistently measured between 7 and 9 feet bgs in site monitoring wells, and the groundwater flow direction was towards the south. Given the Chevron Station's proximity to the UST removal area, we would expect groundwater conditions to be similar to that documented at the Chevron site.

3.0 SOIL DISPOSAL

On August 6, 2010, NRC loaded and transported the two soil bins containing a total of 25 tons of petroleum hydrocarbon-impacted soil to the Hay Road Class II Landfill in Vacaville, California.

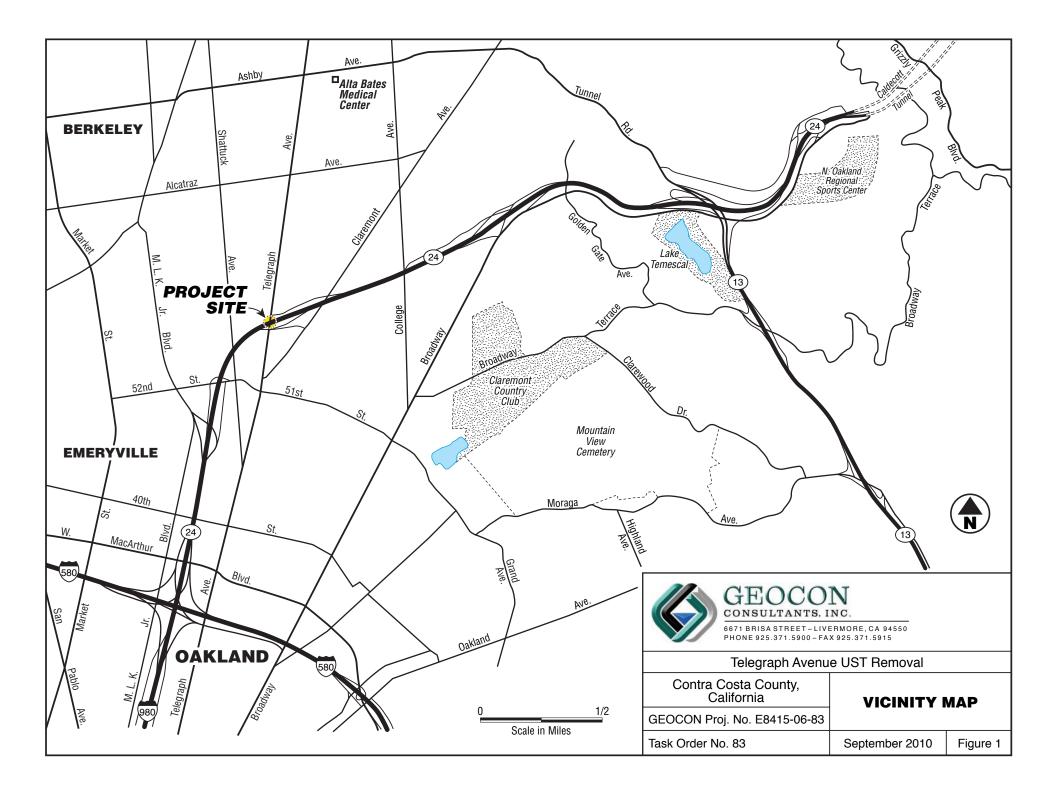
Copies of the non-hazardous waste manifests and landfill weight tickets for each load are provided in Appendix E.

4.0 CONCLUSIONS AND RECOMMENDATIONS

Based on field observations noted during the soil over-excavation activities, as well as analytical laboratory results of confirmation soil samples, the following is concluded:

- Some TPH-impacted soil remains in-place beneath the former UST. Geocon removed as much TPH-impacted soil as physically possible given the surface and subsurface structures surrounding the former UST and the vertical reach of the excavator.
- Given that the former UST area is located beneath the Highway 24 and BART overcrossings adjacent to Telegraph Avenue, groundwater is not likely to be used for drinking water purposes, and residual TPH impacts are located more than four feet below ground surface, the only potential sensitive receptor that could be affected by residual soil impacts would be construction / trench workers directly exposed to affected soil. Since the highest TPHg (400 mg/kg) and TPHd (110 mg/kg) concentrations remaining in-place are below the RWQCB construction / trench worker direct exposure ESLs of 4,200 mg/kg for TPHg and TPHd (RWQCB, May 2008, Table K-3), this potential exposure scenario does not appear to represent an unacceptable concern either.
- Several VOCs were detected in the confirmation soil samples; however, only naphthalene and ethylbenzene have established ESLs. The maximum reported naphthalene (2.0 mg/kg) and ethylbenzene (0.96 mg/kg) concentrations did not exceed their respective RWQCB ESLs of 2.8 mg/kg and 3.3 mg/kg for shallow soils (\leq 3 meters) at commercial/industrial sites where groundwater is and is not a potential drinking water source (RWQCB, May 2008, Tables A and B).

Additional soil removal is not practical given the location of the residually impacted soils. The site is located adjacent to the east side of Telegraph Avenue beneath the BART and Highway 24 overcrossings and as such does not pose a threat to human health or other sensitive receptors. Based on the above information, we recommend the site be considered for case closure by the Alameda County Environmental Health Department.



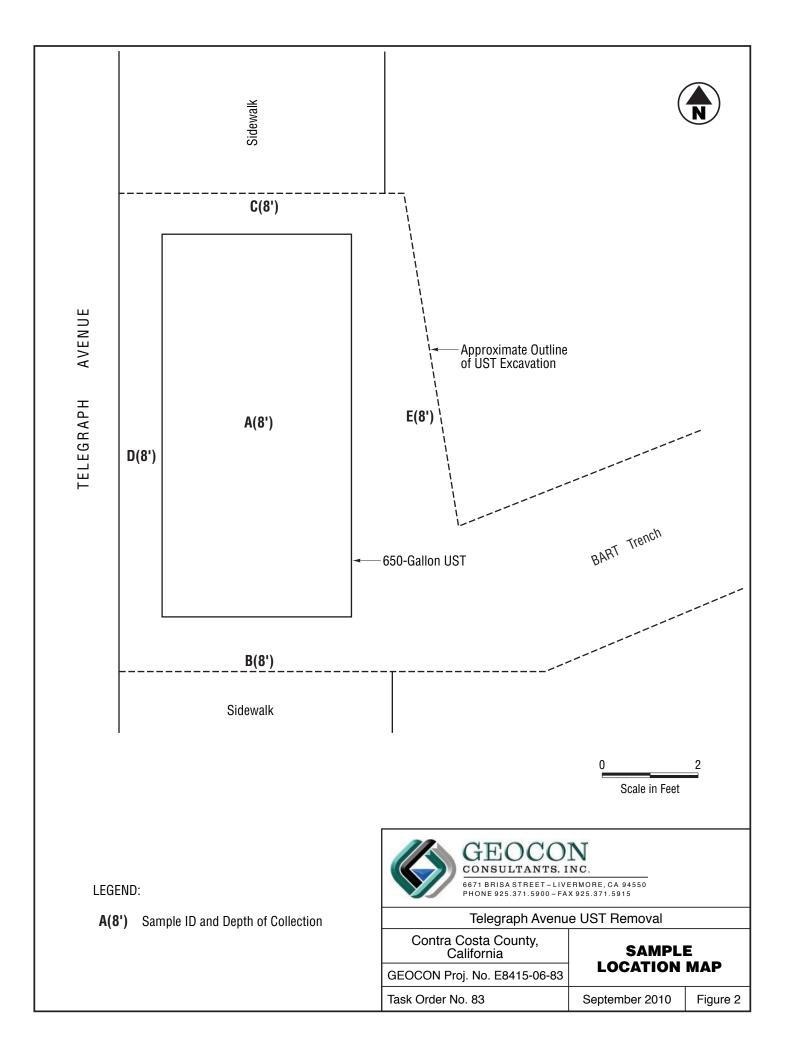


Table 1 Soil Sample Results TPHg, TPHd, TPHmo, and VOCs Caltrans - Telegraph Avenue Oakland, California

Sample ID	Sample Location	Sample Depth (feet)	Date	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	VOCs (mg/kg)
Excavation A	Bottom Center	8	7/16/10	5.9	4.2	<5.0	n-Butyl benzene = 0.072 n-Propyl benzene = 0.049
Excavation B	South Sidewall	8	7/16/10	150	49	7.7	n-Butyl benzene = 0.59 Naphthalene = 1.8 sec-Butyl benzene = 0.17 Isopropylbenzene = 0.37 n-Propyl benzene = 1.0
Excavation C	North Sidewall	8	7/16/10	380	100	11	n-Butyl benzene = 0.69 4-Isopropyl toluene = 0.31 sec-Butyl benzene = 0.26 Isopropylbenzene = 0.49 n-Propyl benzene = 0.73
Excavation D	West Sidewall	8	7/16/10	190	51	9.3	n-Butyl benzene = 0.32 Naphthalene = 0.57 sec-Butyl benzene = 0.12 Isopropylbenzene = 0.27 n-Propyl benzene = 0.50
Excavation E	East Sidewall	8	7/16/10	400	110	14	n-Butyl benzene = 1.4 4-Isopropyl toluene = 0.39 Naphthalene = 2.0 1,2,4-Trimethylbenzene = 0.23 sec-Butyl benzene = 0.31 Ethylbenzene = 0.96 Isopropylbenzene = 0.72 n-Propyl benzene = 1.5 1,3,5-Trimethylbenzene = 1.2

Table 1 Soil Sample Results TPHg, TPHd, TPHmo, and VOCs Caltrans - Telegraph Avenue Oakland, California

Sample ID	Sample Location	Sample Depth (feet)	Date	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	VOCs (mg/kg)
Soil Bin 3156 A-D	4-Point Composite Soil Bin Sample		7/16/10	500	410 / *4.3	60	n-Butyl benzene = 3.2 Naphthalene = 4.0 1,2,4-Trimethylbenzene = 2.1 sec-Butyl benzene = 0.70 Isopropylbenzene = 1.1 n-Propyl benzene = 2.9
Soil Bin 3334 A-D	4-Point Composite Soil Bin Sample		7/16/10	630	360 / *3.4	49	n-Butyl benzene = 4.0 Naphthalene = 14 1,2,4-Trimethylbenzene = 6.6 sec-Butyl benzene = 0.80 Ethylbenzene = 0.77 Isopropylbenzene = 1.3 n-Propyl benzene = 4.4 1,3,5-Trimethylbenzene = 1.7 Xylenes = 0.89

Notes-

mg/kg - milligrams per kilogram

TPHg - Total petroleum hydrocarbons as gasoline

TPHd - Total petroleum hydrocarbons as diesel

TPHmo - Total petroleum hydrocarbons as motor oil

VOCs - Volatile Organic Compounds

* - Soluble threshold limit concentration (milligrams per liter)

< - Not detected above stated laboratory reporting limit

		Soil San LUFT Caltrans - Te Oakland	able 2 aple Results 5 Metals elegraph Aven 4, California					
Sample ID	Sample Location	Sample Depth (feet)	Date	Cadmium (mg/kg)	Chromium (mg/kg)	Lead (mg/kg)	Nickel (mg/kg)	Zinc (mg/kg)
Excavation A	Bottom Center	8	7/16/10	<0.25	53	7.9	37	42
Excavation B	South Sidewall	8	7/16/10	< 0.25	52	7.2	31	26
Excavation C	North Sidewall	8	7/16/10	0.31	64	12	87	61
Excavation D	West Sidewall	8	7/16/10	<0.25	55	8.3	48	38
Excavation E	East Sidewall	8	7/16/10	<0.25	46	7.1	61	36
Soil Bin 3156 A-D	4-Point Composite Soil Bin Sample		7/16/10	0.48	56 / *0.18	23	68	190
Soil Bin 3334 A-D	4-Point Composite Soil Bin Sample		7/16/10	0.38	49	22	67	170

Notes-

mg/kg - milligrams per kilogram

* - Soluble threshold limit concentration (milligrams per liter)

< - Not detected above stated laboratory reporting limit







Photograph 1 – View looking east across Telegraph Avenue at UST removal area.



Photograph 2 – View looking south at UST removal area.





ļ	SITE PHOTOS 1 and 2	
	UST Removal	
	Telegraph Avenue	
	Oakland, California	
E8415-06-83		September 2010



Photograph 3 – View looking east at UST excavation and immediate surrounding area.



Photograph 4 – View of excavation and surrounding soil nails





ļ	SITE PHOTOS 3 and 4	ļ
	UST Removal	
	Telegraph Avenue	
	Oakland, California	
E8415-06-83		September 2010



Photograph 5 – View of UST being removed from the ground.



Photograph 6 – View of UST being loaded onto NRC truck for disposal.





	SITE PHOTOS 5 and 6	Ó
	UST Removal	
	Telegraph Avenue	
	Oakland, California	
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Jul 14, 2010 Resubnitted	HWY 14 and BART Overpasses Resubmitted Dates	Company Phone # 925-371-5900	Reviewer Mathews]	Pick up per	son	Pick up	person Phone #
O Yes O No O 1st O 3rd O 2nd O 4th	1.)	Contact Person John Love Expedite/After Hours	Fees Paid Yes Fees Paid Date	1.) 2.)	Reviewed D)ates		unt of Time
<u>. </u>	4.)	O Yes O No	Jul 14, 2010	3.) 4.)			Review	Complete Date
Plan Check Fees (NO				Comme	<u>ents</u>			
	, full price for each system	—	<u>Jnits</u> <u>Subtotal</u>					
a. Sprinkler System/Zone	e	O 242.16	·· ··				-	
b. Standpipe Systemc. Underground Main		O 242.16 O 242.16						
c. Underground Maind. Fire Pump System		O 242.16		en-1				
e. Fire Hydrant		○ 2.12 0000000000000000000000000000000000	WHEWED					
f. FM 200, Halon, gas	suppression system	O 242.16		Mai	ling Addr	ess		
g. Dry chemical suppr		O 242. 6 OAKLA	ND FIRE DEPARTMENT	Geoco	on COnsul	ltants		
h. Spray Booth Install	·	O 242.1	Vork Martie	-				
	<u>-h) min 2.0 hr (FP Engineer)</u>	O 352.2	A. 1-T. J. 10					
i. Evacuation Plans		O 242.10 DATE:	14 500					
j. Fire Alarm System			INSPE, EQUIRE	<u> </u>			<u> </u>	
k. Range Hood & Duc	ct Suppression System	O 242.16	48 HOURS NUTICE	ا الم	Date:	Check #	Amou	int Received:
Expedited plan check fee (i-	-i) min 2.0 hrs (Fire Inspector)	○ 352.20	Contraction of the second s	7/1	4/2010	4030		\$754.89
Inspection Fees						h an an a	1 -	
a. Inspection, \$149.49/hour		O 149.49			<u></u>		╡┝═╸	
b. Reinspection, \$149.49/ho	our	O 149.49						
c. After Hours Inspection (S	\$224.24 x 2.5 hrs) \$224.24 after 1st two hou	s O 560.60] [
Tank Permit Fees	/CUPA				<u> </u>		1	
a. Removal, 1st Tank (\$242	.16/hr x 2.5 hrs min. plus inspection \$149.49) (a) 754.89	\$754.89		ł	L	J L_	ł
\$149.49 each additional t	tank	O 149.49			Total Ar	mount Received	1:	<u>\$754.89</u>
b. Installation, 1st Tank (\$2	242.16/hr x 2.5 hrs min. plus inspection \$598	.37) O 1203.77						
\$149.49 each additional t	tank	O 149.49			Tot	al Amount Due	e:	<u>\$0.00</u>
c. Modifications:		O 142.37		<u> </u>				}
Other Fees						Billing Invoid	e Date:	
Consultation Fee / FP	Engineer time (\$242.16/hr)	O 242.16	·	-				Updated 3/31/08
Building Permit Fire	Code Review - 65% of Building Permi	t Cost:			-			
		Total	Cost \$ 754.8	9				

APPLICATION fo	CITY OF OA FIRE PREVENTI 250 Frank Ogawa P Oakland, Californi (510) 238 PERMIT to INSTA In the CITY OF	ON BUREAU laza, Suite 3341 a 94612-2032 -3851 ALL, REMOVE or REPAIR TANKS	
PLEASE CIRLCE APPROPRIATE ACTION	Request Subm S: Application is here	ittal Date: 7/14/10 eby made for permit to:	
(a) Remove (b) Install (c) Repair	(d) Modify	(e) Abandon/Close in Place A	
(a) Gasoline (b) Fuel oil (c) Diesel	(d)	tank(s) and excavate, commencing:	
(a) four feet inside the curb line*; (b) inside th *inside curb line, please attach copy of sidewa			
on the <u>east</u> side of To	elegraph +1	Stave 50 feet N of 56 StrAv The Present storage heating 0:1 LAVE 12 th Flr Phone C, CA 94623	e.
Site Address: Telegraph An	at scies	Present storage heating Oil	
Owner: Caltrons - Dist. 4	ddress III Grand	Ave 12 Flr Phone	
Applicant: Geocon Consultants	Address <u>6671 B</u> Livermo	Phone <u>925-371-50</u> R, CA 94550	900
Sidewalk surface to be disturbed	Number of Tanks	Capacity 630 Gallons ea.	
RemarksSignatureSHA	Re	DEPARTNENT	
 PLEASE ATTACH/SUBMIT: (All applicants) (2) Copies of Closure Plans for undergroun (2) Sets of plans and (1) copy of specificati (2) Sets of plans and (2) sets of application 	d tank removal (s)	Tahk VS REQUIRE	
 (2) Sets of plans and (2) sets of application (2) Sets of plans for aboveground tank insta 			
• copy or prepare to show Planning and Bui	ding approval for abo SE SUBMIT THIS A		ON FOR
	FOR OFFICE	USE ONLY	
Permit No	Amt. Recv'd	Date Issued:	
Copies to: Electrical Inspection	ck#	Cash	
	Receipt#	Recv'd by:	_

• OAKLAND FIRE DEPARMENT/FIRE PREVENTION BUREAU HAZARDOUS MATERIALS UNIT

250 FRANK H. OGAWA PLAZA, SUITE 3341, OAKLAND, CA 94612-2032 • (510) 238-3927

HAZARDOUS MATERIALS INSPECTION REPORT

Site Number	Facility Name		Facility Ad	dress	Zip Code
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KX -	One Sample From Con	ver of	Tank excar	at in batter	
	Facility Contact/Print Name:		Inspected By:	AFM Griffin	238-7759
(PHA John Love	-	(In)	Insp. Matthews	238-2396 238-7054
l	Facility Contact/Signature:		238-3927	Insp. Skillern	238-7253
	925-371-5900			U	238-3927

Date:

16Ju/10

538-156 (11/09)



McCampbell An "When Quality		Web: www.mccampbell.c	coad, Pittsburg, CA 945 om E-mail: main@mc 52-9262 Fax: 925-252	ccampbell.com
GEOCON Env. Consultants	Client Project ID: #E8415-0	6-83; Caltrans Telegraph	Date Sampled:	07/16/10
6671 Brisa St			Date Received:	07/16/10
00/1 01/30 50	Client Contact: John Love		Date Reported:	07/22/10
Livermore, CA 94550	Client P.O.:		Date Completed:	07/22/10

WorkOrder: 1007440 A

July 22, 2010

Dear John:

Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: **#E8415-06-83; Caltrans Telegraph**,
- 2) A QC report for the above sample,
- 3) A copy of the chain of custody, and
- 4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

N N	McCAMPBELL ANALYTICAL, INC. 1534 WILLOW PASS ROAD PITTSBURG, CA 94565-1701 /0074440								тι	IRI	NA	R			AI T C			F	CI		ST	S	D	R	E	CC	R	D							
	ebsite: <u>www.m</u> lephone: (877	ccampbe	II.com En		nain@	mcca : (925															a.	PI		Ę		Ex	cel		1,	Wr	ite	On	(D	R 5 DAY W) D is required	
Report To: 🔨	John Lo	ore		Bill To):	59	m	C										_	A	nal	ysis	Re	qu	est	۱. 			_			0)the	r	Comments	5
Company: 66	eocon Co	onsul	tant	2					_									0																**Indicate	
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McCampbell Analytical, Inc.

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

Pittsburg, CA 94565-1701 (925) 252-9262				WorkOrd	ler: 1007440	A Clien	tCode: GECL		
	WaterTrax	WriteOn	EDF	Excel	Fax	🖌 Email	HardCopy	ThirdParty	J-flag
Report to:				В	ill to:		Req	uested TAT:	1 day
John Love GEOCON Env. Consultants 6671 Brisa St	Email: love cc: PO:	e@geoconinc.	com; Livermo	ore@geoco	Accounts Pa GEOCON E 6671 Brisa	nv. Consultants		e Received: e Add-On:	07/16/2010 07/19/2010
Livermore, CA 94550 925-371-5900 FAX 925-371-5915	ProjectNo: #E8	3415-06-83; Ca	altrans Teleg	raph	Livermore, (CA 94550	Dat	e Printed:	07/19/2010
						Pequested Test	s (See legend be		

							Neq	uesteu	16313 (000 100	jenia be	,10			
Lab ID	Client ID	Matrix	Collection Date Hold	1	2	3	4	5	6	7	8	9	10	11	12
1007440-001	Soil Bin 3156 A-D	Soil	7/16/2010 11:00	А											

Test Legend:

1 STLCMETALMS_S	2	3	
6	7	8	
11	12		

4	
9	

5				
10				

Prepared by: Maria Venegas

Comments: 24hr Rush. STLC Cr added to #001 24hr per J.L. 07/19/10

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

	CCampbell Analyti "When Ouality Counts"	ical, Inc.		Web: www	w.mccamp	Pass Road, Pittsburg, CA bbell.com E-mail: main@ 377-252-9262 Fax: 925-	mccampbell	.com				
GEOCON En	v. Consultants	Client Project ID Caltrans Telegra		E8415-06-83;	<u>epnoner</u>		07/16/10					
6671 Brisa St		Calualis Telegia	арп			Date Received:	07/16/10					
		Client Contact:	Jol	nn Love		Date Extracted:	07/19/10	-07/21/1)			
Livermore, CA	A 94550	Client P.O.:				Date Analyzed:	nalyzed: 07/22/10					
				Metals*								
Extraction method	: CA Title 22 Client ID	A	-	tical methods: SW60 Extraction Type	020	Chromium	DF	Work Ord % SS	er: 1007440 Comments			
1007440-001A	Soil Bin 3156 A-D	S		WET		0.18	1	N/A				

Reporting Limit for $DF = 1$;	W	TOTAL	NA	μg/L
ND means not detected at or above the reporting limit	S	WET	0.1	mg/L
		1		

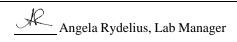
*water samples are reported in $\mu g/L$, product/oil/non-aqueous liquid samples and all TCLP / STLC / DISTLC / SPLP extracts are reported in mg/L, soil/sludge/solid samples in mg/kg, wipe samples in $\mu g/wipe$, filter samples in $\mu g/filter$.

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

WET = Waste Extraction Test, i.e., STLC (Soluble Threshold Limit Concentration). DI WET = Waste Extraction Test using DI water (DI STLC).

%SS = Percent Recovery of Surrogate Standard DF = Dilution Factor

DHS ELAP Certification 1644





McCampbell Analytical, Inc. "When Quality Counts" 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW6020

W.O. Sample Matrix: Soil			QC Matri	x: Soil			Batch	D: 51936	WorkOrder 1007440			
EPA Method SW6020	Extrac	ction CA	Title 22					5	Spiked San	nple ID:	N/A	
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	
	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Chromium	N/A	10	N/A	N/A	N/A	99	102	3.44	N/A	N/A	75 - 125	20
All target compounds in the Method Blank of this extraction batch were ND less than the method RL with the following exceptions: NONE												

BATCH 51936 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1007440-001A	07/16/10 11:00 AM	07/19/10	07/22/10 8:04 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.

DHS ELAP Certification 1644

JR QA/QC Officer

	Analytical, Inc.	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269							
GEOCON Env. Consultants	Client Project ID: #E8415-0	6-83; Caltrans Telegraph	Date Sampled:	07/16/10					
6671 Brisa St			Date Received:	07/16/10					
0071 51134 51	Client Contact: John Love	Client Contact: John Love							
Livermore, CA 94550	Client P.O.:		Date Completed:	07/19/10					

WorkOrder: 1007439

July 19, 2010

Dear John:

Enclosed within are:

- 1) The results of the 5 analyzed samples from your project: **#E8415-06-83; Caltrans Telegraph**,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

we	lcCAMP bsite: <u>www.m</u> ephone: (87'	1534 WII PITTSBU ccampbel	LLOW PA RG, CA 9 Lcom En	SS RO 4565-17	AD 701	'a	2 amp	7 4 bell.	Com		>				UR Geo'			o	UN	D T F	IM	IE PI	DF	RU	SH E	xce			48 H Wri	fR ite (HR DV	SDAY V) D required
Report To: 3	ohn Lov	e	I	Bill To	o:	50	m	~						Analysis Request								Other			(Comments							
Company: 6	eocon (Consu	Hart	د																													**Indicate
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Tele: (923 3			F	ax: (921	5	37	1 - 1	59	15					10																		potentially
Project #: ES			F	Projec	t Nar	ne: (Cal	tra	<u>ل</u>	Te	leg	raf	ろ	1	15	_	5																dangerous to
Project Location:	Oaklo	nd, C	A								0			_	~	0	1-3	5															handle:
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McCampbell Analytical, Inc.



1534 Willow Pass Rd Pittsburg CA 94565-1701

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262				WorkO	rder: 100743	9 Clien	tCode: GECL		
	WaterTrax	WriteOn		Excel	Fax	🖌 Email	HardCopy	ThirdParty	J-flag
Report to:	Em eile de				II to:	weble	Req	uested TAT:	1 day
John Love GEOCON Env. Consultants 6671 Brisa St Livermore, CA 94550 925-371-5900 FAX 925-371-5915	cc: PO:	-	nc.com; Livermore ; Caltrans Telegra	C .	Accounts Pa GEOCON E 6671 Brisa S Livermore, C	nv. Consultants St		te Received: te Printed:	07/16/2010 07/16/2010
						Requested Tes	ts (See legend b	elow)	
Lab ID Client ID		Matrix	Collection Date	lold 1	2 3	4 5 6	7 8	9 10	11 12

1007439-001	Excavation A 8'	Soil	7/16/2010 10:45	А	А	А					
1007439-002	Excavation B 8'	Soil	7/16/2010 11:10	А	А	А					
1007439-003	Excavation C 8'	Soil	7/16/2010 11:30	А	Α	Α					
1007439-004	Excavation D 8'	Soil	7/16/2010 12:00	А	А	А					
1007439-005	Excavation E 8'	Soil	7/16/2010 12:05	А	А	А					

Test Legend:

1 8260B_S	2 G-MBTEX_S
6	7
11	12

3	LUFTMS_
8	

4	
9	

5			
10			

The following SampIDs: 001A, 002A, 003A, 004A, 005A contain testgroup.

Prepared by: Maria Venegas

Comments: 24hr Rush

> NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



McCampbell Analytical, Inc.

"When Ouality Counts"

Sample Receipt Checklist

Client Name:	GEOCON Env. Co	nsultan	ts				Date a	and Ti	ime Received:	7/16/2010	1:58:16 PM
Project Name:	#E8415-06-83; Ca	altrans 1	Telegraph				Check	dist c	ompleted and re	eviewed by:	Maria Venegas
WorkOrder N°:	1007439	Matrix	<u>Soil</u>				Carrie	r:	Client Drop-In		
			<u>Chain</u>	of Cu	stody (C	COC) Int	forma	ation			
Chain of custody	present?			Yes	\checkmark	No					
Chain of custody	signed when relinqui	shed and	received?	Yes	\checkmark	No					
Chain of custody	agrees with sample I	abels?		Yes	✓	No					
Sample IDs noted	by Client on COC?			Yes	\checkmark	No					
Date and Time of	collection noted by Cli	ient on CC	C?	Yes	✓	No					
Sampler's name r	noted on COC?			Yes	\checkmark	No					
			S	ample	Receipt	Inform	ation	<u>)</u>			
Custody seals int	tact on shipping conta	iner/coole	er?	Yes		No				NA 🔽	
Shipping containe	er/cooler in good cond	ition?		Yes	\checkmark	No					
Samples in prope	er containers/bottles?			Yes	✓	No					
Sample containe	rs intact?			Yes	\checkmark	No					
Sufficient sample	volume for indicated	test?		Yes	✓	No					
		<u>San</u>	nple Prese	rvatior	n and Ho	old Time	e (HT)) Info	ormation		
All samples recei	ved within holding tim	e?		Yes	✓	No					
Container/Temp E	Blank temperature			Coole	r Temp:	11.8°C)			NA 🗆	
Water - VOA vial	ls have zero headspa	ce / no bu	ubbles?	Yes		No		No	VOA vials submi	itted 🗹	
Sample labels ch	necked for correct pres	servation	?	Yes	\checkmark	No					
Metal - pH accep	table upon receipt (pH	l<2)?		Yes		No				NA 🗹	
Samples Receive	ed on Ice?			Yes	✓	No					
			(Ice Typ	e: WE	TICE)					
* NOTE: If the "N	lo" box is checked, se	e comme	ents below.								

Client contacted:

Date contacted:

Contacted by:

Comments:

McCampbell A	Analytical,] litv Counts"	nc.		Web: www.mccam	Pass Road, Pittsburg, Ca pbell.com E-mail: mai 877-252-9262 Fax: 92	n@mccampbell.com							
GEOCON Env. Consultants				415-06-83;	Date Sampled:	07/16/10							
	Caltra	ns Telegr	aph		Date Received:	07/16/10							
6671 Brisa St	Client	Contact:	John L	ove	Date Extracted:	07/16/10							
Livermore, CA 94550		Client P.O.: Date Analyzed: 07/19/10											
			ое т	CCME (Decie T		0111110							
	volatile Orga	•		d GC/MS (Basic T	arget List)*								
Extraction Method: SW5030B		Analyt	ical Metho	od: SW8260B		Work Order: 1007	439						
Lab ID				100743									
Client ID Matrix		Excavation A 8' Soil											
Compound	Concentration *	DF	Reporting	Compou		Concentration *	DF	Reporting					
			Limit					Limit					
Acetone Benzene	ND<0.20 ND<0.020	4.0	0.05	tert-Amyl methyl e Bromobenzene	emer (TAME)	ND<0.020 ND<0.020	4.0	0.005					
Bromochloromethane	ND<0.020	4.0	0.005	Bromodichloromet	hane	ND<0.020	4.0	0.005					
Bromoform	ND<0.020	4.0	0.005	Bromomethane	nune	ND<0.020	4.0	0.005					
2-Butanone (MEK)	ND<0.080	4.0	0.003	t-Butyl alcohol (TH	RA)	ND<0.20	4.0	0.005					
n-Butyl benzene	0.072	4.0	0.005	sec-Butyl benzene	<i>(((()</i>))	ND<0.020	4.0	0.005					
tert-Butyl benzene	ND<0.020	4.0	0.005	Carbon Disulfide		ND<0.020	4.0	0.005					
Carbon Tetrachloride	ND<0.020	4.0	0.005	Chlorobenzene		ND<0.020	4.0	0.005					
Chloroethane	ND<0.020	4.0	0.005	Chloroform		ND<0.020	4.0	0.005					
Chloromethane	ND<0.020	4.0	0.005	2-Chlorotoluene		ND<0.020	4.0	0.005					
4-Chlorotoluene	ND<0.020	4.0	0.005	Dibromochloromet	hane	ND<0.020	4.0	0.005					
1,2-Dibromo-3-chloropropane	ND<0.016	4.0	0.004	1,2-Dibromoethane		ND<0.016	4.0	0.004					
Dibromomethane	ND<0.020	4.0	0.005	1,2-Dichlorobenzei		ND<0.020	4.0	0.005					
1,3-Dichlorobenzene	ND<0.020	4.0	0.005	1,4-Dichlorobenzei	ie	ND<0.020	4.0	0.005					
Dichlorodifluoromethane	ND<0.020	4.0	0.005	1,1-Dichloroethane		ND<0.020	4.0	0.005					
1,2-Dichloroethane (1,2-DCA)	ND<0.016	4.0	0.004	1,1-Dichloroethene		ND<0.020	4.0	0.005					
cis-1,2-Dichloroethene	ND<0.020	4.0	0.005	trans-1,2-Dichloro	ethene	ND<0.020	4.0	0.005					
1,2-Dichloropropane	ND<0.020	4.0	0.005	1,3-Dichloropropa	ne	ND<0.020	4.0	0.005					
2,2-Dichloropropane	ND<0.020	4.0	0.005	1,1-Dichloroprope	ne	ND<0.020	4.0	0.005					
cis-1,3-Dichloropropene	ND<0.020	4.0	0.005	trans-1,3-Dichloro	propene	ND<0.020	4.0	0.005					
Diisopropyl ether (DIPE)	ND<0.020	4.0	0.005	Ethylbenzene		ND<0.020	4.0	0.005					
Ethyl tert-butyl ether (ETBE)	ND<0.020	4.0	0.005	Freon 113		ND<0.40	4.0	0.1					
Hexachlorobutadiene	ND<0.020	4.0	0.005	Hexachloroethane		ND<0.020	4.0	0.005					
2-Hexanone	ND<0.020	4.0	0.005	Isopropylbenzene		ND<0.020	4.0	0.005					
4-Isopropyl toluene	ND<0.020	4.0	0.005	Methyl-t-butyl eth		ND<0.020	4.0	0.005					
Methylene chloride	ND<0.020	4.0	0.005		one (MIBK)	ND<0.020	4.0	0.005					
Naphthalene	ND<0.020	4.0	0.005	n-Propyl benzene		0.049	4.0	0.005					
Styrene	ND<0.020	4.0	0.005	1,1,1,2-Tetrachlor	oethane	ND<0.020	4.0	0.005					
1,1,2,2-Tetrachloroethane	ND<0.020	4.0	0.005	Tetrachloroethene		ND<0.020	4.0	0.005					
Toluene	ND<0.020	4.0	0.005	1,2,3-Trichloroben		ND<0.020	4.0	0.005					
1,2,4-Trichlorobenzene	ND<0.020	4.0	0.005	1,1,1-Trichloroeth	ane	ND<0.020	4.0	0.005					
1,1,2-Trichloroethane	ND<0.020	4.0	0.005	Trichloroethene 1,2,3-Trichloropro	2020	ND<0.020	4.0	0.005					
Trichlorofluoromethane 1,2,4-Trimethylbenzene	ND<0.020	4.0	0.005			ND<0.020	4.0	0.005					
Vinvl Chloride	ND<0.020 ND<0.020	4.0	0.005	1,3,5-Trimethylber Xvlenes	izene	ND<0.020 ND<0.020	4.0	0.005					
	1 IND<0.020			coveries (%)		IND≤0.020	4.0	0.005					
0/ 001			ogate Ke			-	-						
%SS1:		107		%SS2:		9	6						
%SS3: Comments:		90		1									

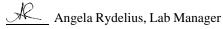
* water and vapor samples are reported in µg/L, soil/sludge/solid samples in mg/kg, product/oil/non-aqueous liquid samples and all TCLP & SPLP extracts are reported in mg/L, wipe samples in μ g/wipe.

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

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



When Oua	Analytical, In	<u>nc.</u>		Web: www.mccan	Pass Road, Pittsburg, C. npbell.com E-mail: mai 877-252-9262 Fax: 92	n@mccampbell.com			
GEOCON Env. Consultants				415-06-83;	Date Sampled:	07/16/10			
	Caltran	s Telegi	raph		Date Received:	07/16/10			
6671 Brisa St	Client	⁷ ontact:	John L	01/9	Date Extracted: 07/16/10				
Livermore CA 04550									
Livermore, CA 94550	Client P	.0.:			Date Analyzed:	07/19/10			
	Volatile Organ	ics by I	P&T and	d GC/MS (Basic T	Target List)*				
Extraction Method: SW5030B	_	Analy	tical Metho	od: SW8260B	_	Work Order: 1007	439		
Lab ID				100743	9-002A				
Client ID					tion B 8'				
Matrix					oil				
Compound	Concentration *	DF	Reporting Limit	Compoi	ınd	Concentration *	DF	Reportin Limit	
Acetone	ND<1.0	20	0.05	tert-Amyl methyl	ether (TAME)	ND<0.10	20	0.005	
Benzene	ND<0.10	20	0.005	Bromobenzene	,,	ND<0.10	20	0.005	
Bromochloromethane	ND<0.10	20	0.005	Bromodichloromet	hane	ND<0.10	20	0.005	
Bromoform	ND<0.10	20	0.005	Bromomethane		ND<0.10	20	0.005	
2-Butanone (MEK)	ND<0.40	20	0.02	t-Butyl alcohol (Tl	BA)	ND<1.0	20	0.05	
n-Butyl benzene	0.59	20	0.005	sec-Butyl benzene		0.17	20	0.005	
tert-Butyl benzene	ND<0.10	20	0.005	Carbon Disulfide		ND<0.10	20	0.005	
Carbon Tetrachloride	ND<0.10	20	0.005	Chlorobenzene		ND<0.10	20	0.005	
Chloroethane	ND<0.10	20	0.005	Chloroform		ND<0.10	20	0.005	
Chloromethane	ND<0.10	20	0.005	2-Chlorotoluene		ND<0.10	20	0.005	
4-Chlorotoluene	ND<0.10	20	0.005	Dibromochlorome		ND<0.10	20	0.005	
1,2-Dibromo-3-chloropropane	ND<0.080	20	0.004	1,2-Dibromoethane		ND<0.080	20	0.004	
Dibromomethane	ND<0.10	20	0.005	1,2-Dichlorobenze		ND<0.10	20	0.005	
1,3-Dichlorobenzene	ND<0.10	20	0.005	1,4-Dichlorobenze		ND<0.10	20	0.005	
Dichlorodifluoromethane	ND<0.10	20	0.005	1,1-Dichloroethan		ND<0.10	20	0.005	
1,2-Dichloroethane (1,2-DCA)	ND<0.080	20	0.004	1,1-Dichloroethen		ND<0.10	20	0.005	
cis-1,2-Dichloroethene	ND<0.10	20	0.005	trans-1,2-Dichloro		ND<0.10	20	0.005	
1,2-Dichloropropane	ND<0.10	20	0.005	1,3-Dichloropropa		ND<0.10	20	0.005	
2,2-Dichloropropane	ND<0.10	20	0.005	1,1-Dichloroprope		ND<0.10	20	0.005	
cis-1,3-Dichloropropene	ND<0.10	20	0.005	trans-1,3-Dichloro	propene	ND<0.10	20	0.005	
Diisopropyl ether (DIPE)	ND<0.10	20	0.005	Ethylbenzene		ND<0.10	20	0.005	
Ethyl tert-butyl ether (ETBE)	ND<0.10	20	0.005	Freon 113		ND<2.0	20	0.1	
Hexachlorobutadiene 2-Hexanone	ND<0.10 ND<0.10	20 20	0.005	Hexachloroethane Isopropylbenzene		ND<0.10 0.37	<u>20</u> 20	0.005	
	ND<0.10	20	0.005	Methyl-t-butyl eth	or (MTDE)	0.37 ND<0.10	20	0.005	
4-Isopropyl toluene Methylene chloride	ND<0.10	20	0.005	4-Methyl-2-pentar		ND<0.10	20	0.005	
Naphthalene	1.8	20	0.005	n-Propyl benzene	ione (withk)	1.0	20	0.005	
Styrene	ND<0.10	20	0.005	1,1,1,2-Tetrachlor	oethane	ND<0.10	20	0.005	
1,1,2,2-Tetrachloroethane	ND<0.10	20	0.005	Tetrachloroethene		ND<0.10	20	0.005	
Toluene	ND<0.10	20	0.005	1,2,3-Trichloroben		ND<0.10	20	0.005	
1.2.4-Trichlorobenzene	ND<0.10	20	0.005	1,1,1-Trichloroeth		ND<0.10	20	0.005	
1,1,2-Trichloroethane	ND<0.10	20	0.005	Trichloroethene		ND<0.10	20	0.005	
Trichlorofluoromethane	ND<0.10	20	0.005	1,2,3-Trichloropro	pane	ND<0.10	20	0.005	
1,2,4-Trimethylbenzene	ND<0.10	20	0.005	1,3,5-Trimethylbe		ND<0.10	20	0.005	
Vinvl Chloride	ND<0.10	20	0.005			ND<0.10	20	0.005	
		Surr	ogate Re	coveries (%)					
%SS1:	9'			%SS2:		12	4		
%SS3:	11					. 12			

Comments:

* 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/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor



When Our "When Our	Analytical, I	nc.		Web: www.mccamp	Pass Road, Pittsburg, Ca obell.com E-mail: mai 377-252-9262 Fax: 92	n@mccampbell.com				
GEOCON Env. Consultants		•		415-06-83;	Date Sampled:	07/16/10				
6671 D : 04	Caltrar	is Telegr	aph		Date Received:	07/16/10				
6671 Brisa St	Client	Contact:	John L	ove	Date Extracted:	07/16/10				
Livermore, CA 94550	Client I	P.O.:			Date Analyzed: 07/19/10					
			0 & T and	d GC/MS (Basic T						
Extraction Method: SW5030B	volatile Ofga	•		od: SW8260B	aiget List)	Work Order: 1007	439			
Lab ID				1007439	0.003 4					
Client ID				Excavat						
Matrix				So						
Compound	Concentration *	DF	Reporting Limit	Compou		Concentration *		Reporting Limit		
Acetone	ND<1.0	20	0.05	tert-Amyl methyl e	ther (TAME)	ND<0.10	20	0.005		
Benzene	ND<0.10	20	0.005	Bromobenzene	,,	ND<0.10		0.005		
Bromochloromethane	ND<0.10	20	0.005	Bromodichlorometh			20	0.005		
Bromoform	ND<0.10	20	0.005	Bromomethane		ND<0.10	20	0.005		
2-Butanone (MEK)	ND<0.40	20	0.02	t-Butyl alcohol (TB			20	0.05		
n-Butyl benzene	0.69	20	0.005	sec-Butyl benzene		0.26	20	0.005		
tert-Butyl benzene	ND<0.10	20	0.005	Carbon Disulfide		ND<0.10	20	0.005		
Carbon Tetrachloride	ND<0.10	20	0.005	Chlorobenzene		ND<0.10	20	0.005		
Chloroethane	ND<0.10	20	0.005	Chloroform		ND<0.10	20	0.005		
Chloromethane	ND<0.10	20	0.005	2-Chlorotoluene		ND<0.10	20	0.005		
4-Chlorotoluene	ND<0.10	20	0.005	Dibromochloromet		ND<0.10	20	0.005		
1,2-Dibromo-3-chloropropane	ND<0.080	20	0.004	1,2-Dibromoethane	(EDB)	ND<0.080	20	0.004		
Dibromomethane	ND<0.10	20	0.005	1,2-Dichlorobenzen	e	ND<0.10	20	0.005		
1,3-Dichlorobenzene	ND<0.10	20	0.005	1,4-Dichlorobenzen		ND<0.10	20	0.005		
Dichlorodifluoromethane	ND<0.10	20	0.005	1,1-Dichloroethane		ND<0.10	20	0.005		
1,2-Dichloroethane (1,2-DCA)	ND<0.080	20	0.004	1,1-Dichloroethene		ND<0.10	20	0.005		
cis-1,2-Dichloroethene	ND<0.10	20	0.005	trans-1,2-Dichloroe		ND<0.10	20	0.005		
1,2-Dichloropropane	ND<0.10	20	0.005	1,3-Dichloropropar		ND<0.10	20	0.005		
2,2-Dichloropropane	ND<0.10	20	0.005	1,1-Dichloroproper		ND<0.10	20	0.005		
cis-1,3-Dichloropropene	ND<0.10	20	0.005	trans-1,3-Dichloror	ropene	ND<0.10	20	0.005		
Diisopropyl ether (DIPE)	ND<0.10	20	0.005	Ethylbenzene		ND<0.10	20	0.005		
Ethyl tert-butyl ether (ETBE)	ND<0.10	20	0.005	Freon 113		ND<2.0	20	0.1		
Hexachlorobutadiene	ND<0.10	20	0.005	Hexachloroethane		ND<0.10	20	0.005		
2-Hexanone	ND<0.10	20	0.005	Isopropylbenzene		0.49	20	0.005		
4-Isopropyl toluene	0.31	20	0.005	Methyl-t-butyl ethe		ND<0.10	20	0.005		
Methylene chloride	ND<0.10	20	0.005		one (MIBK)	ND<0.10	20	0.005		
Naphthalene Styrene	ND<0.10	20	0.005	n-Propyl benzene	athana	0.73	20	0.005		
	ND<0.10	20	0.005	1,1,1,2-Tetrachloro Tetrachloroethene	etnane	ND<0.10	20	0.005		
1,1,2,2-Tetrachloroethane Toluene	ND<0.10 ND<0.10	20 20	0.005	1,2,3-Trichlorobenz	ana	ND<0.10 ND<0.10	<u>20</u> 20	0.005		
1,2,4-Trichlorobenzene	ND<0.10	20	0.005	1,2,3-Trichlorobenz		ND<0.10	20	0.005		
1.1.2-Trichloroethane	ND<0.10	20	0.005	Trichloroethene	inc	ND<0.10	20	0.005		
Trichlorofluoromethane	ND<0.10	20	0.005	1,2,3-Trichloroproj	ane	ND<0.10	20	0.005		
1,2,4-Trimethylbenzene	ND<0.10	20	0.005	1,3,5-Trimethylben		ND<0.10	20	0.005		
Vinvl Chloride	ND<0.10	20	0.005	Xvlenes		ND<0.10	20	0.005		
				coveries (%)						
%SS1:	0	6	- and Mt	%SS2:		12	2			
%SS1: %SS3:)6		70.552.		1 12	. 4			
%555: Comments:	1	50		1						

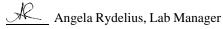
Comments:

* 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/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard



When Oua	Analytical, In	<u>ıc.</u>		Web: www.mccamp	Pass Road, Pittsburg, Ca obell.com E-mail: mai 377-252-9262 Fax: 92	n@mccampbell.com				
GEOCON Env. Consultants				15-06-83;	Date Sampled:	07/16/10				
	Caltran	s Telegi	aph		Date Received:	07/16/10				
6671 Brisa St	Client (Contact:	John L	Date Extracted: 07/16/10						
Livermore, CA 94550	Client F	2.0.:			Date Analyzed: 07/17/10					
			P.T on	l GC/MS (Basic Ta		•				
Estre disc Matheda CW5020D	volatile Organ	-			arget List).	Work Order: 1007	120			
Extraction Method: SW5030B		Analyt	ical Metho	od: SW8260B		work Order: 1007	439			
Lab ID Client ID				<u>1007439</u> Excavati						
Matrix				Excavati						
Compound	Concentration *	DF	Reporting Limit	Compour		Concentration *	DF	Reporting Limit		
Acetone	ND<1.0	20	0.05	tert-Amyl methyl e		ND<0.10	20	0.005		
Benzene	ND<0.10	20	0.005	Bromobenzene		ND<0.10	20	0.005		
Bromochloromethane	ND<0.10	20	0.005	Bromodichlorometh	ane	ND<0.10	20	0.005		
Bromoform	ND<0.10	20	0.005	Bromomethane		ND<0.10	20	0.005		
2-Butanone (MEK)	ND<0.40	20	0.02	t-Butyl alcohol (TB	A)	ND<1.0	20	0.05		
n-Butyl benzene	0.32	20	0.005	sec-Butyl benzene		0.12	20	0.005		
tert-Butyl benzene	ND<0.10	20	0.005	Carbon Disulfide		ND<0.10	20	0.005		
Carbon Tetrachloride	ND<0.10	20	0.005	Chlorobenzene		ND<0.10	20	0.005		
Chloroethane	ND<0.10	20	0.005	Chloroform		ND<0.10	20	0.005		
Chloromethane	ND<0.10	20	0.005	2-Chlorotoluene		ND<0.10	20	0.005		
4-Chlorotoluene	ND<0.10	20	0.005	Dibromochlorometh		ND<0.10	20	0.005		
1,2-Dibromo-3-chloropropane	ND<0.080	20	0.004	1,2-Dibromoethane	(EDB)	ND<0.080	20	0.004		
Dibromomethane	ND<0.10	20	0.005	1,2-Dichlorobenzen	e	ND<0.10	20	0.005		
1,3-Dichlorobenzene	ND<0.10	20	0.005	1,4-Dichlorobenzen	e	ND<0.10	20	0.005		
Dichlorodifluoromethane	ND<0.10	20	0.005	1,1-Dichloroethane		ND<0.10	20	0.005		
1,2-Dichloroethane (1,2-DCA)	ND<0.080	20	0.004	1,1-Dichloroethene		ND<0.10	20	0.005		
cis-1,2-Dichloroethene	ND<0.10	20	0.005	trans-1,2-Dichloroe		ND<0.10	20	0.005		
1,2-Dichloropropane	ND<0.10	20	0.005	1,3-Dichloropropan		ND<0.10	20	0.005		
2,2-Dichloropropane	ND<0.10	20	0.005	1,1-Dichloropropen		ND<0.10	20	0.005		
cis-1,3-Dichloropropene	ND<0.10	20	0.005	trans-1,3-Dichlorop	ropene	ND<0.10	20	0.005		
Diisopropyl ether (DIPE)	ND<0.10	20	0.005	Ethylbenzene		ND<0.10	20	0.005		
Ethyl tert-butyl ether (ETBE)	ND<0.10	20	0.005	Freon 113		ND<2.0	20	0.1		
Hexachlorobutadiene	ND<0.10	20	0.005	Hexachloroethane		ND<0.10	20	0.005		
2-Hexanone	ND<0.10	20	0.005	Isopropylbenzene		0.27	20	0.005		
4-Isopropyl toluene	ND<0.10	20	0.005	Methyl-t-butyl ethe		ND<0.10	20	0.005		
Methylene chloride	ND<0.10	20	0.005		one (MIBK)	ND<0.10	20	0.005		
Naphthalene	0.57	20	0.005	n-Propyl benzene	athona	0.50	20	0.005		
Styrene	ND<0.10	20	0.005	1,1,1,2-Tetrachloro	emane	ND<0.10	20	0.005		
1,1,2,2-Tetrachloroethane Toluene	ND<0.10 ND<0.10	20 20	0.005	Tetrachloroethene 1,2,3-Trichlorobenz	ene	ND<0.10 ND<0.10	<u>20</u> 20	0.005		
1,2,4-Trichlorobenzene	ND<0.10	20	0.005	1,1,1-Trichloroetha		ND<0.10	20	0.005		
1.1.2-Trichloroethane	ND<0.10	20	0.005	Trichloroethene		ND<0.10	20	0.005		
Trichlorofluoromethane	ND<0.10	20	0.005	1,2,3-Trichloroprop	ane	ND<0.10	20	0.005		
1,2,4-Trimethylbenzene	ND<0.10	20	0.005	1,3,5-Trimethylben		ND<0.10	20	0.005		
Vinvl Chloride	ND<0.10	20	0.005	Xvlenes		ND<0.10	20	0.005		
				coveries (%)						
%SS1:	11	1		%SS2:		10	8			
%\$\$\$3:	12									

Comments:

* 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/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard



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GEOCON Env. Consultants				415-06-83;	Date Sampled:	07/16/10				
	Caltran	s Telegr	aph		Date Received:	07/16/10				
6671 Brisa St	Client (Contact:	John L	Date Extracted: 07/16/10						
Livermore, CA 94550	Client F	2.0.:			Date Analyzed: 07/19/10					
			96-T and	CC/MS (Decia T		•				
	volatile Organ	•		d GC/MS (Basic T	arget List)	Work Order: 1007	120			
Extraction Method: SW5030B		Analyt	ical Metho	od: SW8260B		work Order: 1007	439			
Lab ID				1007439						
Client ID Matrix				Excavat So						
Compound	Concentration *	DF	Reporting Limit	Compou		Concentration *	DF	Reporting Limit		
Acetone	ND<1.0	20	0.05	tert-Amyl methyl e		ND<0.10	20	0.005		
Benzene	ND<0.10	20	0.005	Bromobenzene		E) ND<0.10 ND<0.10		0.005		
Bromochloromethane	ND<0.10	20	0.005	Bromodichlorometh			20 20	0.005		
Bromoform	ND<0.10	20	0.005	Bromomethane		ND<0.10	20	0.005		
2-Butanone (MEK)	ND<0.40	20	0.02	t-Butyl alcohol (TB	(A)	ND<1.0	20	0.05		
n-Butyl benzene	1.4	20	0.005	sec-Butyl benzene		0.31	20	0.005		
tert-Butyl benzene	ND<0.10	20	0.005	Carbon Disulfide		ND<0.10	20	0.005		
Carbon Tetrachloride	ND<0.10	20	0.005	Chlorobenzene		ND<0.10	20	0.005		
Chloroethane	ND<0.10	20	0.005	Chloroform		ND<0.10	20	0.005		
Chloromethane	ND<0.10	20	0.005	2-Chlorotoluene		ND<0.10	20	0.005		
4-Chlorotoluene	ND<0.10	20	0.005	Dibromochloromet		ND<0.10	20	0.005		
1,2-Dibromo-3-chloropropane	ND<0.080	20	0.004	1,2-Dibromoethane		ND<0.080	20	0.004		
Dibromomethane	ND<0.10	20	0.005	1,2-Dichlorobenzen		ND<0.10	20	0.005		
1,3-Dichlorobenzene	ND<0.10	20	0.005	1,4-Dichlorobenzen		ND<0.10	20	0.005		
Dichlorodifluoromethane	ND<0.10	20	0.005	1,1-Dichloroethane		ND<0.10	20	0.005		
1,2-Dichloroethane (1,2-DCA)	ND<0.080	20	0.004	1,1-Dichloroethene		ND<0.10	20	0.005		
cis-1,2-Dichloroethene	ND<0.10	20	0.005	trans-1,2-Dichloroe		ND<0.10	20	0.005		
1,2-Dichloropropane	ND<0.10	20	0.005	1,3-Dichloropropar		ND<0.10	20	0.005		
2,2-Dichloropropane	ND<0.10	20	0.005	1,1-Dichloroproper		ND<0.10	20	0.005		
cis-1,3-Dichloropropene	ND<0.10	20	0.005	trans-1,3-Dichlorop	propene	ND<0.10	20	0.005		
Diisopropyl ether (DIPE)	ND<0.10	20	0.005	Ethylbenzene		0.96	20	0.005		
Ethyl tert-butyl ether (ETBE)	ND<0.10	20	0.005	Freon 113		ND<2.0	20	0.1		
Hexachlorobutadiene	ND<0.10	20	0.005	Hexachloroethane		ND<0.10	20	0.005		
2-Hexanone	ND<0.10	20	0.005	Isopropylbenzene		0.72	20	0.005		
4-Isopropyl toluene	0.39 ND<0.10	<u>20</u> 20	0.005	Methyl-t-butyl ethe		ND<0.10	$\frac{20}{20}$	0.005		
Methylene chloride					one (MIBK)	ND<0.10				
Naphthalene Styrene	2.0 ND<0.10	20 20	0.005	n-Propyl benzene 1,1,1,2-Tetrachloro	athana	1.5 ND<0.10	20 20	0.005		
			0.005		betnane					
1,1,2,2-Tetrachloroethane Toluene	ND<0.10 ND<0.10	20 20	0.005	Tetrachloroethene 1,2,3-Trichlorobenz	zene	ND<0.10 ND<0.10	<u>20</u> 20	0.005		
1,2,4-Trichlorobenzene	ND<0.10	20	0.005	1,2,3-Trichloroetha		ND<0.10	20	0.005		
1.1.2-Trichloroethane	ND<0.10	20	0.005	Trichloroethene		ND<0.10	20	0.005		
Trichlorofluoromethane	ND<0.10	20	0.005	1,2,3-Trichloroprop	pane	ND<0.10	20	0.005		
1,2,4-Trimethylbenzene	0.23	20	0.005	1.3.5-Trimethylben		1.2	20	0.005		
Vinvl Chloride	ND<0.10	20	0.005	Xvlenes		ND<0.10	20	0.005		
				coveries (%)						
%SS1:	9		3	%SS2:		12	4			
%SS3:	9			/0002.		12	· ·			

Comments:

* 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/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

	Campbell Analyti "When Ouality Counts"	ical, Inc.	Web: www.mccamp		main@m	ccampbell.	com	
GEOCON Env.		Client Project ID:	#E8415-06-83;	Date Sample				
6671 Brisa St		Caltrans Telegraph	n	Date Received: 07/16/10				
		Client Contact: Jo	ohn Love	Date Extracted: 07/16/10				
Livermore, CA 9	94550	Client P.O.:		Date Analyz	ed 07	/16/10-0	07/19/10	
Extraction method SW			ntile Hydrocarbons as G	asoline*	Wa	rk Order:	1007439	
Lab ID	Client ID	Matrix	TPH(g)		DF	% SS	Commen	
001A	Excavation A 8'	S	5.9		1	85	d7,d9	
002A	Excavation B 8'	S	150		10	99	d7,d9	
003A	Excavation C 8'	S	380		20	#	d7,d9	
004A	Excavation D 8'	S	190		100	103	d7,d9	
005A	Excavation E 8'	S	400		20	#	d7,d9	
	rting Limit for DF =1;	W	NA			NA		
	eans not detected at or ve the reporting limit	S	1.0			mg/K	g	

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

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram d9) no recognizable pattern



	McCampbe	ell Ana		2.	Web: www		bell.coi	ad, Pittsburg, CA m E-mail: main 2-9262 Fax: 925		m		
GEOC	ON Env. Consultants		Client Pro Caltrans	ject ID: #E8 Felegraph	3415-06-83;			e Sampled:	07/16/10			
6671 B	risa St							e Received:	07/16/10			
				ntact: John	Love		Dat	e Extracted:	07/16/10			
Liverm	ore, CA 94550		Client P.C).:			Dat	e Analyzed:	07/19/10			
				LU	FT 5 Metals*							
	n method: SW3050B	Matria	Entre etien Terre		al methods: SW6			Nislaal	7:	1	rder: 10	
Lab ID	Client ID	Matrix	Extraction Type	Cadmium	Chromium	Lea	ia	Nickel	Zinc	DF	% SS	Comments
001A	Excavation A 8'	S	TOTAL	ND	53	7.9)	37	42	1	116	
002A	Excavation B 8'	S	TOTAL	ND	52	7.2	2	31	26	1	109	
003A	Excavation C 8'	S	TOTAL	0.31	64	12		87	61	1	113	
004A	Excavation D 8'	S	TOTAL	ND	55	8.3	3	48	38	1	111	
005A	Excavation E 8'	S	TOTAL	ND	46	7.1	l	61	36	1	110	

Reporting Limit for DF =1;	W	TOTAL	NA	NA	NA	NA	NA	NA
ND means not detected at or above the reporting limit	S	TOTAL	0.25	0.5	0.5	0.5	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/solid samples in mg/kg, wipe samples in μ g/wipe, filter samples in μ g/filter.

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

TOTAL = Hot acid digestion of a representative sample aliquot.

TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.

DISS = Dissolved metals by direct analysis of $0.45 \ \mu m$ filtered and acidified sample.

SS = Percent Recovery of Surrogate StandardDF = Dilution Factor



	Campbell Analyt		Web: www.mc	low Pass Road, Pittsburg, CA ccampbell.com E-mail: main one: 877-252-9262 Fax: 925			
GEOCON Env. O	Consultants	5	D: #E8415-06-83; Caltr	ans Date Sampled:	07/16/	10	
6671 Brisa St		Telegraph		Date Received:	07/16/		
0071 Diisa St		Client Contact:	John Love	Date Extracted:	07/16/	10	
Livermore, CA 94	4550	Client P.O.:		Date Analyzed:	07/17/	10	
Extraction method: SV	W3550B		able Petroleum Hydroca methods: SW8015B	rbons*	W	ork Order:	1007439
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1007439-001A	Excavation A 8'	S	4.2	ND	1	116	e11,e2
1007439-002A	Excavation B 8'	S	49	7.7	1	105	e11,e2
1007439-003A	Excavation C 8'	S	100	11	1	108	e11,e2
1007439-004A	Excavation D 8'	S	51	9.3	1	108	e11,e2
1007439-005A	Excavation E 8'	S	110	14	1	106	e11,e2

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

* 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.

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.

%SS = Percent Recovery of Surrogate Standard DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

e2) diesel range compounds are significant; no recognizable pattern e11) stoddard solvent/mineral spirit (?)





"When Ouality Counts"

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil			QC Matri	x: Soil			Batch	ID: 51832		WorkC	order 10074	39
EPA Method SW8260B	Extra	ction SW	5030B					s	Spiked San	nple ID	: 1007371-0)09A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%))
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	75	73.5	2.00	76.4	76.7	0.339	70 - 130	30	70 - 130	30
Benzene	ND	0.050	108	107	0.872	114	113	0.795	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	81.4	78.9	3.15	88.8	83.6	5.96	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	106	105	0.493	110	107	2.29	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	94.5	91.7	2.97	97.5	98.1	0.597	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	97	92.2	5.08	98.3	97.7	0.639	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	129	123	5.15	128	127	0.946	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	107	106	1.12	103	104	1.41	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	92.5	91.2	1.36	91.5	91.5	0	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	96.5	94.7	1.86	97.9	97.2	0.688	70 - 130	30	70 - 130	30
Toluene	ND	0.050	112	111	0.805	115	114	0.903	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	110	108	1.41	110	111	1.18	70 - 130	30	70 - 130	30
%SS1:	113	0.13	98	96	1.48	95	95	0	70 - 130	30	70 - 130	30
%SS2:	117	0.13	106	105	1.59	106	104	1.77	70 - 130	30	70 - 130	30
%SS3:	112	0.013	111	114	2.53	111	114	3.23	70 - 130	30	70 - 130	30

BATCH 51832 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1007439-001A	07/16/10 10:45 AM	07/16/10	07/19/10 10:15 AM	1007439-002A	07/16/10 11:10 AM	07/16/10	07/19/10 11:50 AM
1007439-003A	07/16/10 11:30 AM	07/16/10	07/19/10 1:33 PM	1007439-004A	07/16/10 12:00 PM	07/16/10	07/17/10 12:29 AM
1007439-005A	07/16/10 12:05 PM	07/16/10	07/19/10 2:15 PM				

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

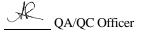
% Recovery = 100 * (MS-Sample) / (Amount Spiked); RPD = 100 * (MS - MSD) / ((MS + MSD) / 2).

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.



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"When Ouality Counts"

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil		(QC Matrix	k: Soil			Batch	BatchID: 51893 WorkOrder 1007439			39	
EPA Method SW8021B/8015Bm	Extrac	ction SW	5030B			Spiked Sample ID: 1007417-00				001A		
Analyte	Analyte Sample Spiked MS MSD MS-MSD LCS LCSD LCS-LCSD Acceptance C			Criteria (%)	1							
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex)	ND	0.60	100	100	0	100	101	0.837	70 - 130	20	70 - 130	20
MTBE	ND	0.10	117	113	3.31	118	118	0	70 - 130	20	70 - 130	20
Benzene	ND	0.10	106	112	5.78	110	107	2.37	70 - 130	20	70 - 130	20
Toluene	ND	0.10	92.4	97.1	4.91	95.5	93.9	1.62	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	96.8	95.1	1.78	99.9	98	1.86	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	108	113	4.26	112	110	1.65	70 - 130	20	70 - 130	20
%SS:	80	0.10	105	111	5.87	109	107	1.59	70 - 130	20	70 - 130	20
All target compounds in the Method B NONE	lank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:			

BATCH 51893 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1007439-001A	07/16/10 10:45 AM	07/16/10	07/16/10 11:45 PM	1007439-002A	07/16/10 11:10 AM	07/16/10	07/19/10 2:30 PM
1007439-003A	07/16/10 11:30 AM	07/16/10	07/19/10 11:57 AM	1007439-004A	07/16/10 12:00 PM	07/16/10	07/19/10 12:27 PM
1007439-005A	07/16/10 12:05 PM	07/16/10	07/19/10 12:58 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).

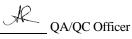
MS / MSD spike recoveries and / or %RPD may fall outside of laboratory acceptance criteria due to one or more of the following reasons: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) the spiked sample's matrix interferes with the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





NONE

<u>McCampbell Analytical, Inc.</u>

"When Ouality Counts"

RPD

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QC SUMMARY REPORT FOR SW6020

W.O. Sample Matrix: Soil QC Matrix: Soil WorkOrder 1007439 EPA Method SW6020 Extraction SW3050B BatchID: 51865 Spiked Sample ID: 1007439-005A LCSD LCS-LCSD Sample Spiked MS MSD MS-MSD Spiked 1 CS Acceptance Criteria (%) Analyte % Rec. LCS/LCSD % RPD % RPD MS / MSD RPD mg/Kg mg/Kg % Rec. % Rec mg/Kg % Rec. Cadmium ND 50 103 91.4 12.1 10 102 93.6 8.05 75 - 125 20 75 - 125 Chromium 46 50 90.5 80.3 5.71 10 100 92.8 7.57 75 - 125 20 75 - 125 102 Lead 7.1 50 90 10.8 10 99.8 92.4 7.54 75 - 125 20 75 - 125 Nickel 61 50 NR NR NR 10 103 97.8 75 - 125 20 75 - 125 4.68 Zinc 36 500 102 90.7 10.9 100 104 98.3 5.77 75 - 125 75 - 125 20 %SS: 110 250 110 98 12.0 250 104 97 7.14 70 - 130 20 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 51865 SUMMARY Lab ID Date Sampled Date Extracted Date Analyzed Lab ID Date Sampled Date Extracted Date Analyzed 1007439-001A 07/16/10 10:45 AM 07/19/10 12:53 PM 1007439-002A 07/16/10 07/16/10 11:10 AM 07/16/10 07/19/10 1:00 PM 1007439-003A 07/16/10 11:30 AM 07/19/10 1:07 PM 1007439-004A 07/16/10 12:00 PM 07/19/10 1:15 PM 07/16/10 07/16/10 1007439-005A 07/16/10 07/19/10 12:03 PM 07/16/10 12:05 PM

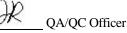
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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.





McCampbell Analytical, Inc. "When Ouality Counts" 1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil		(QC Matri	k: Soil			Batch	ID: 51821		WorkOrder 1007439				
EPA Method SW8015B	Extra	ction SW	3550B					5	Spiked Sar	nple ID	: 1007357-0	01A		
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	Criteria (%)			
, indigite	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD		
TPH-Diesel (C10-C23)	5.0	40	125	119	4.44	114	107	6.57	70 - 130	30	70 - 130	30		
%SS:	96	25	111	101	9.30	83	80	3.41	70 - 130	30	70 - 130	30		
All target compounds in the Meth NONE	od Blank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:					

BATCH 51821 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1007439-001A	07/16/10 10:45 AM	07/16/10	07/17/10 1:42 AM				

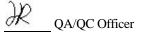
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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 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 SW8015B

W.O. Sample Matrix: Soil	x: Soil			Batch	ID: 51892		WorkOrder 1007439					
EPA Method SW8015B	Extra	ction SW	3550B					5	Spiked San	nple ID:	: 1007439-0)05A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%))
/ indigite	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	110	40	119	116	0.674	112	111	1.13	70 - 130	30	70 - 130	30
%SS:	106	25	112	103	8.14	91	92	0.948	70 - 130	30	70 - 130	30
All target compounds in the Metho NONE	od Blank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:			

BATCH 51892 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1007439-002A	07/16/10 11:10 AM	07/16/10	07/17/10 4:55 PM	1007439-003A	07/16/10 11:30 AM	07/16/10	07/17/10 3:46 PM
1007439-004A	07/16/10 12:00 PM	07/16/10	07/17/10 12:22 PM	1007439-005A	07/16/10 12:05 PM	07/16/10	07/17/10 1:30 PM

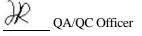
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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.



McCampbell An "When Ouality"		Web: www.mccampbell.c	Road, Pittsburg, CA 945 com E-mail: main@mc 52-9262 Fax: 925-255	ccampbell.com
GEOCON Env. Consultants	Client Project ID: #E8415-0	6-83; Caltrans Telegraph	Date Sampled:	07/16/10
6671 Brisa St			Date Received:	07/16/10
00/1 biisa St	Client Contact: John Love		Date Reported:	07/19/10
Livermore, CA 94550	Client P.O.:		Date Completed:	07/19/10

WorkOrder: 1007440

July 19, 2010

Dear John:

Enclosed within are:

- 1) The results of the 2 analyzed samples from your project: **#E8415-06-83; Caltrans Telegraph**,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

McCAMPBELL ANALYTICAL, INC. 1534 WILLOW PASS ROAD PITTSBURG, CA 94565-1701							1	TUF	RN.	AR						F	[A	9	Ę				Ç	3						
Tel	bsite: <u>www.m</u> ephone: (877	ccampbel 7) 252-92	ll.com En 262	nail: m	iain@ Fax:	: (925	5) 25	52-92					(Geo	Tra	cke	er H	EDI	FC	Y					Ixc	el		Wr	HR rite	On	(D	W) D	A¥ red
	ohn La			Bill To):	59	m	L										F	Anal	ysis	Re	que	st	_	_		_		C	Other	r	Comm	ents
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Project #: ES	115-06-	- 873	P	rojec	t Nan	ne: 🤇	ali	man	5	Tel	leg	mpt	1_	L'ú	-	3																	rous to
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SAMPLE ID	LOCATION/			ers	Type Containers									F	S	5																	
SAME DE ID	Field Point Name	Data	Time	Containers	ont								5	7+	3	5																	
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Relinquished/By:		Date:	Time:	Decei	ved By							-	IC	F /40	1.	2	_					_	_		_	_	00	MM	ENTS	2	_		
A company		7/16/		Male	22	2	11	//	2		~	-	GC	OOD	CON	DITI				3						2							
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1534 Willow Pass Rd Pittsburg CA 94565 1701

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262				WorkO	Order: 100744	0 Client	tCode: GECL		
	WaterTrax	WriteOn	EDF	Excel	Fax	🖌 Email	HardCopy	ThirdParty	J-flag
Report to:				E	Bill to:		Req	uested TAT:	1 day
John Love	Email: I	ove@geoconinc	.com; Livermo	re@geoco	Accounts Pa	iyable			
GEOCON Env. Consultants	CC:				GEOCON E	nv. Consultants			
6671 Brisa St	PO:				6671 Brisa S	St	Dat	e Received:	07/16/2010
Livermore, CA 94550	ProjectNo: #	#E8415-06-83; C	altrans Teleg	raph	Livermore, C	CA 94550	Dat	e Printed:	07/16/2010
925-371-5900 FAX 925-371-5915									
						Requested Test	s (See legend h	elow)	

Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1007440-001	Soil Bin 3156 A-D	Soil	7/16/2010 11:00		А	Α	Α									
1007440-002	Soil Bin 3334 A-D	Soil	7/16/2010 11:50		А	А	Α									

Test Legend:

1 8260B_S	2 G-MBTEX_S
6	7
11	12

2	G-MBTEX_S
7	
12	

3	LUFTMS_S
8	

4	
9	

5	
10	

The following SampIDs: 001A, 002A contain testgroup.

Prepared by: Maria Venegas

Comments: 24hr Rush

> NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.



"When Ouality Counts"

Sample Receipt Checklist

Client Name:	GEOCON Env. Co	onsultan	ts				Date a	and T	ime Received:	7/16/2010	2:32:34 PM
Project Name:	#E8415-06-83; Ca	altrans	Telegraph				Check	dist c	completed and re	eviewed by:	Maria Venegas
WorkOrder N°:	1007440	Matrix	<u>Soil</u>				Carrie	r:	CA OverNight		
			<u>Chain</u>	of Cu	stody (C	:0C)	Informa	ation			
Chain of custody	present?			Yes	V		No 🗆				
Chain of custody	signed when relinqui	shed and	received?	Yes	✓		No 🗆				
Chain of custody	agrees with sample I	abels?		Yes	✓		No 🗌				
Sample IDs noted	by Client on COC?			Yes	V		No 🗆				
Date and Time of	collection noted by Cli	ient on CC	C?	Yes	✓		No 🗆				
Sampler's name r	noted on COC?			Yes	✓		No 🗆				
			S	ample	Receipt	Info	mation	<u>1</u>			
Custody seals int	tact on shipping conta	iner/coole	ər?	Yes			No 🗆			NA 🔽	
Shipping containe	er/cooler in good cond	lition?		Yes	V		No 🗆				
Samples in prope	er containers/bottles?			Yes	✓		No 🗆				
Sample containe	rs intact?			Yes	✓		No 🗆				
Sufficient sample	volume for indicated	test?		Yes	✓		No 🗌				
		<u>Sar</u>	<u>mple Prese</u>	vatior	n and Ho	old Ti	me (HT)) Info	ormation		
All samples recei	ved within holding tim	e?		Yes	✓		No 🗌				
Container/Temp E	Blank temperature			Coole	r Temp:	11.8	3°C			NA 🗆	
Water - VOA vial	ls have zero headspa	ce / no bu	ubbles?	Yes			No 🗆	No	VOA vials submi	tted 🗹	
Sample labels ch	necked for correct pres	servation	?	Yes	✓		No 🗌				
Metal - pH accep	table upon receipt (pH	l<2)?		Yes			No 🗆			NA 🗹	
Samples Receive	ed on Ice?			Yes	✓		No 🗆				
			(Ice Typ	e: WE	TICE)					
* NOTE: If the "N	lo" box is checked, se	ee comme	ents below.								

Client contacted:

Date contacted:

Contacted by:

Comments:

When Out	Analytical, In	<u>1C.</u>		Web: www.mccam	Pass Road, Pittsburg, C. pbell.com E-mail: mai 877-252-9262 Fax: 92	n@mccampbell.com		
GEOCON Env. Consultants	Client F	Project II) : #E84	415-06-83;	Date Sampled:	07/16/10		
	Caltran	s Telegr	aph		Date Received:	07/16/10		
6671 Brisa St	Client (Contact:	John I	ove	Date Extracted:			
Livermore, CA 94550			JOINTL	010				
Livennoie, CA 94550	Client F	2.0.:			Date Analyzed:	0//16/10		
	Volatile Organ	nics by P	P&T and	d GC/MS (Basic T	arget List)*			
Extraction Method: SW5030B		Analyt	ical Metho	od: SW8260B		Work Order: 1007	440	
Lab ID				100744	0-001A			
Client ID				Soil Bin 3				
Matrix				Sc	vil			
Compound	Concentration *	DF	Reporting Limit	Compou	nd	Concentration *	DF	Reporting Limit
Acetone	ND<5.0	100	0.05	tert-Amyl methyl e	ther (TAME)	ND<0.50	100	0.005
Benzene	ND<0.50	100	0.005	Bromobenzene		ND<0.50	100	0.005
Bromochloromethane	ND<0.50	100	0.005	Bromodichloromet	hane	ND<0.50	100	0.005
Bromoform	ND<0.50	100	0.005	Bromomethane		ND<0.50	100	0.005
2-Butanone (MEK)	ND<2.0	100	0.02	t-Butyl alcohol (TB	SA)	ND<5.0	100	0.05
n-Butyl benzene	3.2	100	0.005	sec-Butyl benzene		0.70	100	0.005
tert-Butyl benzene	ND<0.50	100	0.005	Carbon Disulfide		ND<0.50	100	0.005
Carbon Tetrachloride	ND<0.50	100	0.005	Chlorobenzene	ND<0.50	100	0.005	
Chloroethane	ND<0.50	100	0.005	Chloroform	ND<0.50	100	0.005	
Chloromethane	ND<0.50	100	0.005	2-Chlorotoluene	ND<0.50	100	0.005	
4-Chlorotoluene	ND<0.50	100	0.005	Dibromochloromet	ND<0.50	100	0.005	
1,2-Dibromo-3-chloropropane	ND<0.40	100	0.004	1,2-Dibromoethane		ND<0.40	100	0.004
Dibromomethane	ND<0.50	100	0.005	1,2-Dichlorobenzer		ND<0.50	100	0.005
1,3-Dichlorobenzene Dichlorodifluoromethane	ND<0.50 ND<0.50	<u>100</u> 100	0.005	1,4-Dichlorobenzer		ND<0.50 ND<0.50	<u>100</u> 100	0.005
1,2-Dichloroethane (1,2-DCA)		100	0.003	1,1-Dichloroethene			100	0.005
cis-1,2-Dichloroethene	ND<0.40 ND<0.50	100	0.004	trans-1,2-Dichloroe		ND<0.50 ND<0.50	100	0.005
1,2-Dichloropropane	ND<0.50	100	0.005	1,3-Dichloropropar		ND<0.50	100	0.005
2,2-Dichloropropane	ND<0.50	100	0.005	1,1-Dichloroproper		ND<0.50	100	0.005
cis-1,3-Dichloropropene	ND<0.50	100	0.005	trans-1,3-Dichlorop		ND<0.50	100	0.005
Diisopropyl ether (DIPE)	ND<0.50	100	0.005	Ethylbenzene	Jiopene	ND<0.50	100	0.005
Ethyl tert-butyl ether (ETBE)	ND<0.50	100	0.005	Freon 113		ND<10	100	0.1
Hexachlorobutadiene	ND<0.50	100	0.005	Hexachloroethane		ND<0.50	100	0.005
2-Hexanone	ND<0.50	100	0.005	Isopropylbenzene		1.1	100	0.005
4-Isopropyl toluene	ND<0.50	100	0.005	Methyl-t-butyl ethe	er (MTBE)	ND<0.50	100	0.005
Methylene chloride	ND<0.50	100	0.005			ND<0.50	100	0.005
Naphthalene	4.0	100	0.005	n-Propyl benzene		2.9	100	0.005
Styrene	ND<0.50	100	0.005	1,1,1,2-Tetrachloro	bethane	ND<0.50	100	0.005
1,1,2,2-Tetrachloroethane	ND<0.50	100	0.005	Tetrachloroethene		ND<0.50	100	0.005
Toluene	ND<0.50	100	0.005	1,2,3-Trichloroben		ND<0.50	100	0.005
1,2,4-Trichlorobenzene	ND<0.50	100	0.005	1,1,1-Trichloroetha	ane	ND<0.50	100	0.005
1,1,2-Trichloroethane	ND<0.50	100	0.005	Trichloroethene		ND<0.50	100	0.005
Trichlorofluoromethane	ND<0.50	100	0.005	1,2,3-Trichloropro		ND<0.50	100	0.005
1,2,4-Trimethylbenzene	2.1	100	0.005	1,3,5-Trimethylben	zene	ND<0.50	100	0.005
Vinvl Chloride	ND<0.50	100	0.005	Xvlenes		ND<0.50	100	0.005
			ogate Re	coveries (%)		1		
%SS1:	9.			%SS2:		9	8	
%SS3:	12	.5						

Comments:

* 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/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

With the neuronal state with the neuron state withe neuron state with the neuron state with the neuron state w	Analytical, In dity Counts"	<u>nc.</u>		Web: www.mccamp	Pass Road, Pittsburg, Ca bell.com E-mail: mai 377-252-9262 Fax: 92	n@mccampbell.com		
GEOCON Env. Consultants	Client F	roject II): #E84	415-06-83;	Date Sampled:	07/16/10		
		s Telegr		,		07/16/10		
6671 Brisa St		0	··T		Date Received:	0//16/10		
	Client C	Contact:	John L	ove	Date Extracted:	07/16/10		
Livermore, CA 94550	Client F	2.0.:			Date Analyzed:	07/19/10		
	Volatile Organ	nics by F	P&T and	d GC/MS (Basic Ta	arget List)*			
Extraction Method: SW5030B	, change of Bar	•		od: SW8260B		Work Order: 1007	440	
Lab ID				1007440)-002A			
Client ID				Soil Bin 3				
Matrix				Soli Dill'S				
Compound	Concentration *	DF	Reporting Limit	Compour		Concentration *	DF	Reporting Limit
Acetone	ND<5.0	100	0.05	tert-Amyl methyl e	ther (TAME)	ND<0.50	100	0.005
Benzene	ND<0.50	100	0.005	Bromobenzene		ND<0.50	100	0.005
Bromochloromethane	ND<0.50	100	0.005	Bromodichlorometh	ane	ND<0.50	100	0.005
Bromoform	ND<0.50	100	0.005	Bromomethane		ND<0.50	100	0.005
2-Butanone (MEK)	ND<2.0	100	0.02	t-Butyl alcohol (TB	A)	ND<5.0	100	0.05
n-Butyl benzene	4.0	100	0.005	sec-Butyl benzene		0.80	100	0.005
tert-Butyl benzene	ND<0.50	100	0.005	Carbon Disulfide		ND<0.50	100	0.005
Carbon Tetrachloride	ND<0.50	100	0.005	Chlorobenzene	ND<0.50	100	0.005	
Chloroethane	ND<0.50	100	0.005	Chloroform	ND<0.50	100	0.005	
Chloromethane	ND<0.50	100	0.005	2-Chlorotoluene	ND<0.50	100	0.005	
4-Chlorotoluene	ND<0.50	100	0.005	Dibromochlorometh	ND<0.50	100	0.005	
1,2-Dibromo-3-chloropropane	ND<0.40	100	0.004	1,2-Dibromoethane	(EDB)	ND<0.40	100	0.004
Dibromomethane	ND<0.50	100	0.005	1,2-Dichlorobenzen	e	ND<0.50	100	0.005
1,3-Dichlorobenzene	ND<0.50	100	0.005	1,4-Dichlorobenzen	e	ND<0.50	100	0.005
Dichlorodifluoromethane	ND<0.50	100	0.005	1,1-Dichloroethane		ND<0.50	100	0.005
1,2-Dichloroethane (1,2-DCA)	ND<0.40	100	0.004	1,1-Dichloroethene		ND<0.50	100	0.005
cis-1,2-Dichloroethene	ND<0.50	100	0.005	trans-1,2-Dichloroe		ND<0.50	100	0.005
1,2-Dichloropropane	ND<0.50	100	0.005	1,3-Dichloropropan	e	ND<0.50	100	0.005
2,2-Dichloropropane	ND<0.50	100	0.005	1,1-Dichloropropen		ND<0.50	100	0.005
cis-1,3-Dichloropropene	ND<0.50	100	0.005	trans-1,3-Dichlorop	ropene	ND<0.50	100	0.005
Diisopropyl ether (DIPE)	ND<0.50	100	0.005	Ethylbenzene		0.77	100	0.005
Ethyl tert-butyl ether (ETBE)	ND<0.50	100	0.005	Freon 113		ND<10	100	0.1
Hexachlorobutadiene	ND<0.50	100	0.005	Hexachloroethane		ND<0.50	100	0.005
2-Hexanone	ND<0.50	100	0.005	Isopropylbenzene		1.3	100	0.005
4-Isopropyl toluene	ND<0.50	100	0.005	Methyl-t-butyl ethe		ND<0.50	100	0.005
Methylene chloride	ND<0.50	100	0.005		one (MIBK)	ND<0.50	100	0.005
Naphthalene	14	100	0.005	n-Propyl benzene	-1	4.4	100	0.005
Styrene	ND<0.50	100	0.005	1,1,1,2-Tetrachloro	etnane	ND<0.50	100	0.005
1,1,2,2-Tetrachloroethane	ND<0.50	100	0.005	Tetrachloroethene		ND < 0.50	100	0.005
Toluene	ND<0.50	100	0.005	1,2,3-Trichlorobenz		ND<0.50	100	0.005
1,2,4-Trichlorobenzene 1,1,2-Trichloroethane	ND<0.50 ND<0.50	<u>100</u> 100	0.005	1,1,1-Trichloroetha Trichloroethene	ne	ND<0.50 ND<0.50	<u>100</u> 100	0.005
Trichlorofluoromethane	ND<0.50	100	0.005	1,2,3-Trichloroprop	ane	ND<0.50	100	0.005
1,2,4-Trimethylbenzene	6.6	100	0.005	1,3,5-Trimethylben		ND<0.30	100	0.005
Vinvl Chloride	ND<0.50	100	0.005	Xvlenes	20110	0.89	100	0.005
				coveries (%)				
%SS1:	10		AU	%SS2:		11	2	
%SS1: %SS3:	12			70.552.		1 11	4	
Comments:	12	2						

Comments:

* 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/method detection limit; N/A means analyte not applicable to this analysis.

surrogate diluted out of range or coelutes with another peak; &) low surrogate due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

	McCampbell Analyti "When Ouality Counts"	<u>cal, Inc.</u>	Web: www.mccamp		-	ccampbell.c	ell.com)))))))))))))))))))					
GEOCON	Env. Consultants	Client Project ID: Caltrans Telegrap		Date Sample	ed: 07	/16/10						
6671 Brisa	St		/16/10									
		Client Contact: J	ohn Love	Date Extract	ed: 07	/16/10						
Livermore,	CA 94550	Client P.O.:		Date Analyz	xed 07.	/17/10-0	7/19/10					
		-	atile Hydrocarbons as G	asoline*								
Extraction metho			methods SW8015Bm									
Lab ID	Client ID	Matrix	TPH(g)		DF	% SS	Comments					
001A	Soil Bin 3156 A-D	S	500		50	121	d7,d9					
002A	Soil Bin 3334 A-D	630		100	105	d7						
	Reporting Limit for DF =1;	W	NA			NA	•					
N	ID means not detected at or above the reporting limit	S	1.0			mg/Kg	5					

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

cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

d7) strongly aged gasoline or diesel range compounds are significant in the TPH(g) chromatogram d9) no recognizable pattern



	<u>McCampbe</u>	ell Ana en Ouality Col		2.	Web: ww	w.mccamp	bell.com	ad, Pittsburg, CA m E-mail: main 2-9262 Fax: 925	@mccampbell.co	m		
GEOC	ON Env. Consultants		Client Pro Caltrans		#E8415-06-83;		Dat	e Sampled:	07/16/10			
6671 B	risa St			relegraph			Dat	e Received:	07/16/10			
			Client Co	ontact: Jo	hn Love		Dat	e Extracted:	07/16/10			
Liverm	ore, CA 94550		Client P.C).:			Dat	e Analyzed:	07/19/10			
Entre etie	n method: SW3050B				LUFT 5 Metals* ytical methods: SW					Wester O	rder: 1	007440
Lab ID	Client ID	Matrix	Extraction Type	1		Lea	hd	Nickel	Zinc	DF		Comments
001A	Soil Bin 3156 A-D	S	TOTAL	0.48	56	23		68	190	1	111	
002A	Soil Bin 3334 A-D	S	TOTAL	0.38	49	22	2	67	170	1	109	

Reporting Limit for DF =1;	W	TOTAL	NA	NA	NA	NA	NA	NA
ND means not detected at or above the reporting limit	S	TOTAL	0.25	0.5	0.5	0.5	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/solid samples in mg/kg, wipe samples in μ g/wipe, filter samples in μ g/filter.

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

TOTAL = Hot acid digestion of a representative sample aliquot.

TRM = Total recoverable metals is the "direct analysis" of a sample aliquot taken from its acid-preserved container.

DISS = Dissolved metals by direct analysis of $0.45 \ \mu m$ filtered and acidified sample.

SS = Percent Recovery of Surrogate StandardDF = Dilution Factor



<u>McC</u>	ampbell Analyt. "When Quality Counts"	ical, Inc.		Web: www.mc	ccampb	ass Road, Pittsburg, CA bell.com E-mail: main 77-252-9262 Fax: 925				
GEOCON Env. Co	onsultants		ID: #	E8415-06-83; Caltra	ans	Date Sampled:	07/16/	'10		
6671 Brisa St		Telegraph Date Received:						07/16/10		
0071 blisa St		Client Contac	et: Jol	hn Love		Date Extracted:	07/16/	/10		
Livermore, CA 945	550	Client P.O.:				Date Analyzed:	07/17/	/10-07/19	9/10	
Extraction method: SW	3550B			Petroleum Hydrocai ds: SW8015B	rbon	s*	W	ork Order:	1007440	
Lab ID	Client ID	Matrix		TPH-Diesel (C10-C23)	T	PH-Motor Oil (C18-C36)	DF	% SS	Comments	
1007440-001A	Soil Bin 3156 A-D	S		410		60	2	113	e11,e2	
1007440-002A	Soil Bin 3334 A-D	S		360		49	5	108	e11,e2	
								1		

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

* 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.

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.

%SS = Percent Recovery of Surrogate Standard DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

e2) diesel range compounds are significant; no recognizable pattern e11) stoddard solvent/mineral spirit (?)





McCampbell Analytical, Inc.

"When Ouality Counts"

QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil		QC Matrix: Soil						D: 51832		WorkC	order 10074	40
EPA Method SW8260B	Extra	ction SW	SW5030B Spiked Sample ID: 100737								: 1007371-0)09A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%))
, indigite	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
tert-Amyl methyl ether (TAME)	ND	0.050	75	73.5	2.00	76.4	76.7	0.339	70 - 130	30	70 - 130	30
Benzene	ND	0.050	108	107	0.872	114	113	0.795	70 - 130	30	70 - 130	30
t-Butyl alcohol (TBA)	ND	0.25	81.4	78.9	3.15	88.8	83.6	5.96	70 - 130	30	70 - 130	30
Chlorobenzene	ND	0.050	106	105	0.493	110	107	2.29	70 - 130	30	70 - 130	30
1,2-Dibromoethane (EDB)	ND	0.050	94.5	91.7	2.97	97.5	98.1	0.597	70 - 130	30	70 - 130	30
1,2-Dichloroethane (1,2-DCA)	ND	0.050	97	92.2	5.08	98.3	97.7	0.639	70 - 130	30	70 - 130	30
1,1-Dichloroethene	ND	0.050	129	123	5.15	128	127	0.946	70 - 130	30	70 - 130	30
Diisopropyl ether (DIPE)	ND	0.050	107	106	1.12	103	104	1.41	70 - 130	30	70 - 130	30
Ethyl tert-butyl ether (ETBE)	ND	0.050	92.5	91.2	1.36	91.5	91.5	0	70 - 130	30	70 - 130	30
Methyl-t-butyl ether (MTBE)	ND	0.050	96.5	94.7	1.86	97.9	97.2	0.688	70 - 130	30	70 - 130	30
Toluene	ND	0.050	112	111	0.805	115	114	0.903	70 - 130	30	70 - 130	30
Trichloroethene	ND	0.050	110	108	1.41	110	111	1.18	70 - 130	30	70 - 130	30
%SS1:	113	0.13	98	96	1.48	95	95	0	70 - 130	30	70 - 130	30
%SS2:	117	0.13	106	105	1.59	106	104	1.77	70 - 130	30	70 - 130	30
%SS3:	112	0.013	111	114	2.53	111	114	3.23	70 - 130	30	70 - 130	30

BATCH 51832 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1007440-001A	07/16/10 11:00 AM	07/16/10	07/16/10 9:21 PM	1007440-002A	07/16/10 11:50 AM	07/16/10	07/19/10 12:34 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.

R_QA/QC Officer

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



"When Ouality Counts"

QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil			QC Matrix	c: Soil			Batchl	D: 51893		WorkC	order 10074	40
EPA Method SW8015Bm	Extra	ction SW	5030B					s	piked San	nple ID	: 1007417-0	01A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%)	
/ that y to	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH(btex ^f	ND	0.60	100	100	0	100	101	0.837	70 - 130	20	70 - 130	20
MTBE	ND	0.10	117	113	3.31	118	118	0	70 - 130	20	70 - 130	20
Benzene	ND	0.10	106	112	5.78	110	107	2.37	70 - 130	20	70 - 130	20
Toluene	ND	0.10	92.4	97.1	4.91	95.5	93.9	1.62	70 - 130	20	70 - 130	20
Ethylbenzene	ND	0.10	96.8	95.1	1.78	99.9	98	1.86	70 - 130	20	70 - 130	20
Xylenes	ND	0.30	108	113	4.26	112	110	1.65	70 - 130	20	70 - 130	20
%SS:	80	0.10	105	111	5.87	109	107	1.59	70 - 130	20	70 - 130	20
All target compounds in the Method I NONE	Blank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following e	exceptions:			

BATCH 51893 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1007440-001A	07/16/10 11:00 AM	07/16/10	07/17/10 4:48 AM	1007440-002A	07/16/10 11:50 AM	07/16/10	07/19/10 11:27 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.

 \pounds 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 = matrix interference and/or 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.

A QA/QC Officer



"When Ouality Counts"

QC SUMMARY REPORT FOR SW6020

W.O. Sample Matrix: Soil

QC Matrix: Soil

WorkOrder 1007440

EPA Method SW6020			Extract	tion SW3	3050B		BatchID	: 51865	Spik	ed Sample	ID:	1007439-00	5A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	Spiked	LCS	LCSD	LCS-LCSD	Acc	eptanc	e Criteria (%	»)
Analyte	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	mg/Kg	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
Cadmium	ND	50	103	91.4	12.1	10	102	93.6	8.05	75 - 125	20	75 - 125	20
Chromium	46	50	90.5	80.3	5.71	10	100	92.8	7.57	75 - 125	20	75 - 125	20
Lead	7.1	50	102	90	10.8	10	99.8	92.4	7.54	75 - 125	20	75 - 125	20
Nickel	61	50	NR	NR	NR	10	103	97.8	4.68	75 - 125	20	75 - 125	20
Zinc	36	500	102	90.7	10.9	100	104	98.3	5.77	75 - 125	20	75 - 125	20
%SS:	110	250	110	98	12.0	250	104	97	7.14	70 - 130	20	70 - 130	20
All target compounds in th NONE	e Method B		is extract	ion batch			e method F	L with the					

			BATCH 51865 SL	JMMARY			
Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1007440-001A	07/16/10 11:00 AM	07/16/10	07/19/10 1:22 PM	1007440-002A	07/16/10 11:50 AM	07/16/10	07/19/10 1:29 PM

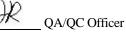
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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.





McCampbell Analytical, Inc. "When Ouality Counts" 1534 Willow Pass Road, Pittsburg, CA 94565-1701Web: www.mccampbell.comE-mail: main@mccampbell.comTelephone: 877-252-9262Fax: 925-252-9269

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil			QC Matri	x: Soil			Batch	ID: 51892		WorkC	Order 10074	40
EPA Method SW8015B	Extra	ction SW	3550B					5	Spiked Sar	nple ID	: 1007439-0	05A
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acc	eptance	Criteria (%)	
, indigite	mg/Kg	mg/Kg	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	110	40	119	116	0.674	112	111	1.13	70 - 130	30	70 - 130	30
%SS:	106	25	112	103	8.14	91	92	0.948	70 - 130	30	70 - 130	30
All target compounds in the Methe NONE	od Blank of this	extraction	batch we	re ND les	s than the	method R	L with th	e following	exceptions:			

BATCH 51892 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1007440-001A	07/16/10 11:00 AM	07/16/10	07/19/10 10:06 AM	1007440-002A	07/16/10 11:50 AM	07/16/10	07/17/10 8:20 PM

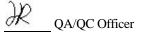
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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.



	Analytical, Inc.	Web: www.mccampbell	Road, Pittsburg, CA 945 .com E-mail: main@m 252-9262 Fax: 925-25	ccampbell.com
GEOCON Env. Consultants	Client Project ID: #E8415-0	6-83; Caltrans Telegraph	Date Sampled:	07/16/10
6671 Brisa St			Date Received:	07/16/10
0071 51134 51	Client Contact: John Love		Date Reported:	08/03/10
Livermore, CA 94550	Client P.O.:		Date Completed:	08/03/10

WorkOrder: 1007440 B

August 03, 2010

Dear John:

Enclosed within are:

- 1) The results of the 2 analyzed samples from your project: **#E8415-06-83; Caltrans Telegraph**,
- 2) A QC report for the above samples,
- 3) A copy of the chain of custody, and
- 4) An invoice 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 or concerns, please feel free to give me a call. Thank you for choosing

McCampbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius Laboratory Manager McCampbell Analytical, Inc.

We Tel	bsite: <u>www.m</u> lephone: (87	1534 WI PITTSBU ccampbel 7) 252-92	LLOW PA RG, CA 9 I.com En 862	SS RO 4565-17 nail: n	AD 701 nain@ Fax	/ <i>OC</i> mcca : (92:) 25	74 ell.co 2-92		0)					AR	OL	JNI EDI	F L		PI Ch	DF	RU RU III) ISH E	2 xce			48 I Wr] HR ite	On	2 HI (D) ag	C 5 DAY W) C Is required
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**MAI clients MUST gloved, open air, samp	disclose any dan le handling by I	gerous che	emicals kno Non-disclo	own to sure in	be pre	esent in	thei ediat	r subn	nitte	l san	nples	in co	oncer	ntrat nt is	tions	s that	may	cause	e imi	medi	for l	arm	or s	erio	us fut	ture	health	h end	lange	rmen	t as	a result of brief,
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SHO .

1534 Willow Pass Rd Pittsburg, CA 94565-1701 (925) 252-9262

CHAIN-OF-CUSTODY RECORD

Page 1 of 1

(925) 252-9262				WorkOre	der: 1007440	B Clien	ntCode: GECL		
	WaterTrax	WriteOn	EDF	Excel	Fax	🖌 Email	HardCopy	ThirdParty	J-flag
Report to:				В	ill to:		Re	quested TAT:	1 day
John Love GEOCON Env. Consultants 6671 Brisa St Livermore, CA 94550	Email: love cc: PO: ProjectNo: #E8	@geoconinc.c		C C	Accounts Pa GEOCON E 6671 Brisa Livermore, (nv. Consultants St	Da	te Received: te Add-On: te Printed:	07/16/2010 07/29/2010 07/29/2010
925-371-5900 FAX 925-371-5915		5415-00-63, Ca	alitaris relegi	арп 	Liverniore, (JA 94550	Du	te i riniea:	07/29/2010

							Req	uested	Tests (See leg	gend be	elow)			
Lab ID	Client ID	Matrix	Collection Date Hold	1	2	3	4	5	6	7	8	9	10	11	12
1007440-001	Soil Bin 3156 A-D	Soil	7/16/2010 11:00	Α											
1007440-002	Soil Bin 3334 A-D	Soil	7/16/2010 11:50	Α											

Test Legend:

1	STLC_DIESEL_S	
6		
11		

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12	

L

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9	

5	
10	

Prepared by: Maria Venegas

Comments: 24hr Rush. STLC Cr added to #001 24hr per J.L. 07/19/10. STLC Diesel added on both Comps on 7/29/10 24hr Rush.

NOTE: Soil samples are discarded 60 days after results are reported unless other arrangements are made (Water samples are 30 days). Hazardous samples will be returned to client or disposed of at client expense.

	CCampbell Analyti "When Ouality Counts"	cal, Inc.	1534 Willow Pass Road, Pittsburg, CA 94565-1701 Web: www.mccampbell.com E-mail: main@mccampbell.com Telephone: 877-252-9262 Fax: 925-252-9269						
GEOCON En	v. Consultants	Client Project ID: Caltrans Telegraph	Date Sampled:		07/16/10				
6671 Brisa St			1	Date Received: 07/16/10			0		
		Client Contact: Jo	ohn Love	Date Extr	Date Extracted: 07/31/10-08/02/10				
Livermore, CA	A 94550	Client P.O.:		Date Ana	lyzed	08/02/0	0		
Total Extractable Petroleum Hydrocarbons (STLC)* Extraction method CA Title 22/SW3510C Analytical methods: SW8015B Work Order: 100"									
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)		DF	% SS	Comments		
1007440-001A	Soil Bin 3156 A-D	S	4.3		1	94	e11,e2		
1007440-002A	Soil Bin 3334 A-D	S	3.4		1	93	e11,e2		
Repo	Dorting Limit for DF =1;	W	NA			N.	A		
	neans not detected at or ove the reporting limit	S	0.05			mg	:/L		

* 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 mg/L.

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.

%SS = Percent Recovery of Surrogate Standard

DF = Dilution Factor

+The following descriptions of the TPH chromatogram are cursory in nature and McCampbell Analytical is not responsible for their interpretation:

e2) diesel range compounds are significant; no recognizable pattern e11) stoddard solvent/mineral spirit (?)



Angela Rydelius, Lab Manager



"When Ouality Counts"

QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil		QC Matrix: Soil					Batch	ID: 52183	WorkOrder 1007440			
EPA Method SW8015B	Extra	Extraction CA Title 22/SW3510C					Spiked Sample ID: N/A					
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	LCSD	LCS-LCSD	Acce	eptance	Criteria (%))
, and j to	mg/L	mg/L	% Rec.	% Rec.	% RPD	% Rec.	% Rec.	% RPD	MS / MSD	RPD	LCS/LCSD	RPD
TPH-Diesel (C10-C23)	N/A	1	N/A	N/A	N/A	108	102	5.84	N/A	N/A	70 - 130	30
%SS:	N/A	0.63	N/A	N/A	N/A	103	92	10.6	N/A	N/A	70 - 130	30

BATCH 52183 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1007440-001A	07/16/10 11:00 AM	07/31/10	08/02/00 3:44 PM	1007440-002A	07/16/10 11:50 AM	07/31/10	08/02/00 4:52 PM

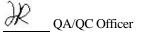
MS = Matrix Spike; MSD = Matrix Spike Duplicate; LCS = Laboratory Control Sample; LCSD = Laboratory Control Sample Duplicate; RPD = Relative Percent Deviation.

% 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.







						21	34	tangha Lagadha				
k	NON-HAZARDOUS	-1. Generator ID Number		2. Page 1 of	3. Emer	gency Response	Phone	4. Waste T	racking Nu	nber		
A	WASTE MANIFEST	CAS	1 1_0 0 1	, den	MRO	<u>Es 510 70</u>	<u>19-1390</u>			149-0	A	
	DEPARTMENT C 111 GRAND AVE OAKLAND CA	ng Address DF TRANSPORTATION INUE FLOOR 12 14603		OLIOCK	CALI 58TH	OF'S SITE Address TRANS DIS STREET & LAND CA		4 OAKLAN	D	ER PASS	·	
	Generator's Phone: 543 6. Transporter 1 Company Nam	<u>R22.2760</u>	s ¹¹					U.S. EPA ID	Number			
		MENTAL SERVICES	(AC)					U.S. EPA ID	<u> </u>	<u>n n a n</u>	11	1
	8. Designated Facility Name an RECOLOGY EN ⁴ 8428 HAY ROAD VACAVILLE CA Facility's Phone: 767 6	VIROAIMENTAL SOLUT 95687	IONS-HAVE Ø	74-D				U.S. EPA ID		1 2 0 1	<u> </u>	<u>1</u> 3
	9. Waste Shipping Nam		en anterial			10. Conta No.	iners Type	11. Total Quantity	12. Unit Wt./Vol.			
GENERATOR	1. NON HAZARI HYDROCARE	DOLIS WASTE SOLID (S SONS)	SOLEWITH	·		0 ŭ 1	CM	018				
GENE	2.	مير مو	÷						×			,
	3.											
	4.			the.								
	CONSULTANT:	RIATE PERSONAL PI GEOCON CONSULTAI FERRY POINT ALAM	NTS, INC. E	671 BR	in : Iga :	JOS\$/ 90 JTREET,	LIAEN	MORE, C	Ë.	3151	0	
		CATION: I certify the materials describ	ed above on this manifes			al regulations for	reporting pro	oper disposal of I	Hazardous \	Vaste.		
¥	Generator's/Offeror's Printed/T	yped Name	carce L	si	ignature	<u>C</u>	Manung and	45		Month	Day	Year
INT'L	15. International Shipments Transporter Signature (for expo	Import to U.S.	Γ	Export from	U.S.	Port of er Date leav						
ш	16. Transporter Acknowledgme	ent of Receipt of Materials						<u>.</u>		Month	Day	Year
TRANSPORTER	Transporter 1 Printed/Typed Na	. <u>rene 0</u>			ignature ignature					Month	Day Day Day	Year
Å	17. Discrepancy											
	17a. Discrepancy Indication Sp	Quantity	Туре		L	Residue		Partial R	ejection		Full Rejecti	on
۲ ۲	17b. Alternate Facility (or Gene	erator)	<u>,</u>		Mai	nifest Reference I	Number:	U.S. EPA I) Number			
ACILI								1				
ATED F.	Facility's Phone: 17c. Signature of Alternate Fac	cility (or Generator)		I						, Month	Day	Year
 DESIGNATED FACILITY 											,I	
	18. Designated Facility Owner	or Operator: Certification of receipt of	materials covered by the	e manifest exce	opt as note	ed in Item 17a						
V	Printed/Typed Name	Lan Sur			ignature	2-	C	ngladennadog na _f ra _{na a}		Month J	Day	Year 10
169	9-BLC-O 6 10498 (Rev	<u> </u>				ġ.		D	ESIGN/	TED FACIL	ITY'S (COPY

Ticket: 926365 RECOLOGY HAY ROAD Date: 8/6/2010 RECOLOGY HAY ROAD Times 11:44:36 - 12:19:57 6426 Hay Road Vacaville, CA 95687 Phone: (707)-678-4718 Truck: 2134.. Customer: 47589/NRC ENVIRONMENTAL S Gross: 66080 LBS Scale Tare: 39300 LBS Scale Net: 26780 LBS Scale: H2 Profile: 4695/CALTRANS, 56TH TELEGRAPH Origin Materials & Services 👘 Quantity Rate Amount SOILC/Soil Contaminated OAK/Dakland 13.390 \$15.00 per Ton \$200.85 Total Amount: \$200,85 avie La Marion A. WMSTR4-LO 9/09 🗳 Printed on recycled paper

			- All		, (J				
*	NDN-HAZARDOUS 1. Generator ID Number 2. Page	1 of 3. Eme	ergency Response	Phone	4. Waste Tr	acking Nur	nber		
Î	WASTE MANIFEST CASTINISTI	NP	ator's Site Address	<u>(0.120)</u>	on mailing odde	<u>57</u>	<u>(40</u>	• & _	
	5. Generator's Name and Mailing Address DEPARTMENT OF TRANSPORTATION CALTRANS DISTRI 111 GRAND AVENUE FLOOR 12 OAKLAND CA 94623	CK SSTI	ITRAMS DIS TRAMS DIS H STREET ((LAND) CA	TRICH	4 OAKLAN	D	ER PASS		
	CARLAND CA 94623 Generator's Phone: 540 622-6750 6. Transporter 1 Company Name 622-6750				U.S. EPA ID	Number			
	NRC ENVIRONMENTAL SERVICES INC) <u>n n</u>	0034		4
	7. Transporter 2 Company Name				U.S. EPA ID	Number			
2. 2.	8. Designated Facility Name and Site Address RECOLOGY ENVIRONMENTAL SOLUTIONS- HAY F OAD 8426 HAY ROAD VACAVILLE CA 95687				U.S. EPA ID	Number			
	Facility's Phone: 707 878 8745		10. Contai	ners	<u> </u>	<u>2 3</u> 12, Unit	1 2 8	* 0 1	.
	9. Waste Shipping Name and Description		No.	Туре	Quantity	Wt./Vol.			
GENERATOR -	1 NON HAZARDOUS WASTE SOLID (SOIL WITH HYDROCARBONS)		0.0.1	ÇM.	0.15				
GEN	2.								
	3.								
	4.								
	CONSULTANT: GEOCON CONSULTANTS, INC. 6671 I NRCES 1605 FERRY POINT ALAMEDA, CA. 94501		B		t	3-			
	14. GENERATOR'S CERTIFICATION: I certify the materials described above on this manifest are not s Generator's/Offeror's Printed/Typed Name	subject to fed	eral regulations for	reporting pr	oper disposal of I	Hazardous	Waste. Mon	th Day	Year
¥	LAWRENCE LA:		Sections and a section of the sectio		Lati		5	16	10
INT'L	15. International Shipments Import to U.S. Export	from U.S.	Port of en	· ·					
	Transporter Signature (for exports only): 16. Transporter Acknowledgment of Receipt of Materials	,	Date leav	ing U.S.:					<u> </u>
TRANSPORTER	Transporter 1 Printed/Typed Name	Signature	1 1	1	1		Mon I C	. .	Year
USPO	Samvel Shave Sorta	Signature	Manuel .		Aoue:		C Mon	th Day	Year
TRAI									
*	17. Discrepancy								
	17a. Discrepancy Indication Space Quantity Type		Residue		Partial R	ejection	L	Li Fuli Rejec	tion
		M	anifest Reference I	Number:					
۲	17b. Alternate Facility (or Generator)			¢.	U.S. EPA II) Number			
FACIE	Facility's Phone:								
DESIGNATED FACILITY	17c. Signature of Alternate Facility (or Generator)	,					Mor	th Day	Year
IGNA									
- DES									
	18. Designated Facility Owner or Operator: Certification of receipt of materials covered by the manifest Printed/Typed Name	except as no Signature					Моŗ	ıth Day	Year
¥	Norma Sugar		$\mu \succ$	daathati dari ka karana angka da aya	·C		d	76	10
169	9-BLC-O 6 10498 (Rev. 8/06)			_	, Di	ESIGN/	ATED FAC	ILITY'S	COPY

RECOLOGY HAY ROAD RECOLOGY HAY ROAD 6426 Hay Road Vacaville, CA 95687 Phone: (707)-678-4718 Truck: 2130. Customer: 47589/NRC ENVIRONMENTAL S

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Profile: 4695/CALTRANS, 56TH TELEGRAPH

Ticket: 926373 Date: 8/6/2010

Time: 12:01:25 - 12:26:02

Gross: 60740 LBS Scale Tare: 38080 LBS Scale Net: 22660 LBS Scale: M2

Origin OAK/Oakland Jamu Jak MSTR4-LO 9/09 Printed on recycled pe	Quantity Rate 11.33@ #15.00 per Ton ZERO Total Amount: Marion A.	Amount \$169.95 \$169.95



September 8, 2010

Mr. John Love Geocon Consultants, Inc. 6671 Brisa Street Livermore, CA 94550 Fax (925)371-5915

Subject: UST Removal Report Telegraph Avenue Oakland, California

Dear Mr. Love:

I have reviewed and approved the above referenced document. Please submit it to the Alameda County Health Care Services Agency (ACHCSA). Should the ACHCSA require, I declare under the penalty of perjury, that to the best of my knowledge, the information contained in the attached workplan is true and correct.

If you have any questions, or need additional information, please give me a call at (510) 622-6022.

Sincerely,

Bedose

Chris Bledsoe Transportation Engineer Office of Construction Environmental Engineering Support

Table 1 Soil Sample Results TPHg, TPHd, TPHmo, and VOCs Caltrans - Telegraph Avenue Oakland, California

Sample ID	Sample Location	Sample Depth (feet)	Date	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	VOCs (mg/kg)
Excavation A	Bottom Center	8	7/16/10	5.9	4.2	<5.0	n-Butyl benzene = 0.072 n-Propyl benzene = 0.049
Excavation B	South Sidewall	8	7/16/10	150	49	7.7	n-Butyl benzene = 0.59 Naphthalene = 1.8 sec-Butyl benzene = 0.17 Isopropylbenzene = 0.37 n-Propyl benzene = 1.0
Excavation C	North Sidewall	8	7/16/10	380	100	11	n-Butyl benzene = 0.69 4-Isopropyl toluene = 0.31 sec-Butyl benzene = 0.26 Isopropylbenzene = 0.49 n-Propyl benzene = 0.73
Excavation D	West Sidewall	8	7/16/10	190	51	9.3	n-Butyl benzene = 0.32 Naphthalene = 0.57 sec-Butyl benzene = 0.12 Isopropylbenzene = 0.27 n-Propyl benzene = 0.50
Excavation E	East Sidewall	8	7/16/10	400	110	14	n-Butyl benzene = 1.4 4-Isopropyl toluene = 0.39 Naphthalene = 2.0 1,2,4-Trimethylbenzene = 0.23 sec-Butyl benzene = 0.31 Ethylbenzene = 0.96 Isopropylbenzene = 0.72 n-Propyl benzene = 1.5 1,3,5-Trimethylbenzene = 1.2

Table 1 Soil Sample Results TPHg, TPHd, TPHmo, and VOCs Caltrans - Telegraph Avenue Oakland, California

Sample ID	Sample Location	Sample Depth (feet)	Date	TPHg (mg/kg)	TPHd (mg/kg)	TPHmo (mg/kg)	VOCs (mg/kg)
Soil Bin 3156 A-D	4-Point Composite Soil Bin Sample		7/16/10	500	410 / *4.3	60	n-Butyl benzene = 3.2 Naphthalene = 4.0 1,2,4-Trimethylbenzene = 2.1 sec-Butyl benzene = 0.70 Isopropylbenzene = 1.1 n-Propyl benzene = 2.9
Soil Bin 3334 A-D	4-Point Composite Soil Bin Sample		7/16/10	630	360 / *3.4	49	n-Butyl benzene = 4.0 Naphthalene = 14 1,2,4-Trimethylbenzene = $6.6sec-Butyl benzene = 0.80Ethylbenzene = 0.77Isopropylbenzene = 1.3n-Propyl benzene = 4.41,3,5$ -Trimethylbenzene = $1.7Xylenes = 0.89$
Notes-							

mg/kg - milligrams per kilogram

TPHg - Total petroleum hydrocarbons as gasoline

TPHd - Total petroleum hydrocarbons as diesel

TPHmo - Total petroleum hydrocarbons as motor oil

VOCs - Volatile Organic Compounds

* - Soluble threshold limit concentration (milligrams per liter)

< - Not detected above stated laboratory reporting limit