

April 11, 2013

Leroy Griffin City of Oakland Fire Department Fire Prevention Bureau 250 Frank H. Ogawa Plaza, Suite 3341 Oakland, CA 94612

Subject:

**Underground Storage Tank Closure** 

385 26th Street, Oakland

Dear Mr. Griffin,

This report documents the closure of one 550-gallon underground storage tank (UST) at the subject site. The UST was discovered by a paving a grading contractor on February 13, 2013. Cook Environmental Services (CES) was hired by the property owner, the Kyle Milligan and Susan Casentini Trust, to inspect the property on February 14, 2013. CES discovered a buried redwood tank approximately 12 feet in diameter that contained an unknown volume of heating oil.

The structural integrity of the redwood tank had been severely compromised and a large volume of heating oil had impacted surrounding soils. The underground storage tank (UST) was connected to a large cast iron pipe that was probably connected to a fill spout behind the sidewalk on 26<sup>th</sup> Street.

The City of Oakland Fire Department was notified and Cook Environmental Services, Inc (CES) filed an UST removal permit with the Fire Department on March 4, 2013. A copy of the permit is provided as **Attachment A**. On March 18, 2013, Mr. Griffin requested that an unauthorized release form be submitted for the site. A copy of this form is provided in **Attachment B**.

CES retained Fremouw Environmental Services, Inc (FES) to empty the UST. Since the redwood tank was badly decayed, no triple rinse or decontamination procedures could be performed. FES removed approximately 80 gallons of heating oil from the excavation on March 11, 2013. A sample of the heating oil was collected on March 11, 2013 and analyzed for PCBs. PCBs were not detected. The laboratory report for this analysis is included as **Attachment C**. The two drums of heating oil were disposed of as non-RCRA waste. The hazardous waste manifest for the heating oil is provided in **Attachment D**.

CES excavated the UST and contaminated soil from March 11 to 13, 2013. Leroy Griffin of the City of Oakland Fire Prevention Bureau was onsite. Since the redwood tank was badly decomposed, it could not be removed intact and was taken out in pieces and placed in 10 cubic yard roll off bins along with the contaminated soil. Six bins were filled (approximately 60 CY). The soil in four of the bins was classified as non-hazardous and was disposed of at the Potrero Hills landfill in Suisun, California. Non-hazardous waste manifests for these soils are provided in **Attachment E**.

The soil in two of the bins was classified as non-RCRA hazardous waste and was disposed of at the U.S. Ecology landfill in Beatty, Nevada. Hazardous waste manifests for these soils are provided in **Attachment F**.

After excavation activities were complete, CES collected two soil samples from the base of the excavation. Sample S1 was collected from the south end of the excavation at depth of approximately 10 feet below grade. Sample S2 was collected from the north end of the excavation (closest to 26<sup>th</sup> Street) at a depth of approximately 10 feet below grade. Soil samples were collected from the bucket of the excavator and placed in stainless steel sample tubes, labeled and placed on ice in a cooler. Samples were handled using chain-of-custody procedures.

Samples were transported to McCampbell Analytical, Inc. in Pittsburg, California that same day and analyzed for the standard suite of analytes required of a UST containing heating oil. Analyses included total petroleum hydrocarbons as diesel (TPH-d) using EPA method 8015B modified; benzene, toluene, ethylbenzene and xylenes (BTEX) using EPA method 8021B; and naphthalene and MtBE using EPA method 8260B. The samples appeared to be contaminated due to staining and hydrocarbon odor.

BTEX and MtBE constituents were not detected in soil samples above laboratory detection limits. TPH-d concentrations range from 6,500 to 11,000 milligrams per kilogram (mg/kg). Naphthalene concentrations range from 10 to 14 mg/kg. The laboratory analytical reports are provided in **Attachment G**.

In conclusion, there has been a release of heating oil from a former redwood UST that was located in a parking lot adjacent to 385 26<sup>th</sup> Street. Approximately 80 cubic yards of soil and redwood debris were removed from the site and disposed of offsite. Residual soil contains up to 11,000 mg/kg of TPH-d. BTEX constituents were not detected. Naphthalene was detected at up to 14 mg/kg. Groundwater was not encountered in the excavation.

The site potentially qualifies for closure under the Low-Threat Underground Storage Tank Case Closure Policy established by the State Water Resources Control Board. The following general criteria for low risk closure have been satisfied:

- 1. The unauthorized release is located within the service area of a public water system;
- 2. The unauthorized release consists only of petroleum:
- 3. The unauthorized ("primary") release from the UST system has been stopped;
- 4. Free product has been removed to the maximum extent practicable;
- 5. Secondary source removal has been addressed;
- 6. Soil or groundwater has been tested for MtBE and the results reported in accordance with Health and Safety Code section 25296.15 and
- 7. Nuisance as defined by Water Code section 13050 does not exist at the site.

The only criterion that has not been fully satisfied is the development of a conceptual site model that delineates the lateral and vertical extent of TPH contamination in soil and evaluates whether groundwater quality has been affected. We recommend additional investigation to fill this data gap so that the Site can be evaluated for closure under the Low-Threat Underground Storage Tank Case Closure Policy.

Please call me if you have questions or concerns related to this UST closure report.

Very truly yours,

Cook Environmental Services, Inc.

Tim Cook, P.E. President

cc: Susan Casentini, Kyle Milligan and Susan Casentini Trust Bruce Paoli, Paoli Construction

# ATTACHMENT A UST Removal Permit



# Oakland Fire Department, Fire Prevention Bureau 250 Frank H. Ogawa Plaza, Ste. 3341 Oakland, CA 94612-2032



# **Inspection Work Order**

**Business Name:** 

STUDIO QUERCUS

Reason:

Tanks

Address:

385 26TH ST

Scheduled:

2013-02-22 2:30PM

Job (Insp Ref#):

2013-25951

Assigned To:

Skillern, Sheryl

Comments:

3/4/13 - Meka Bolds w/Cook Environmental submittal additional documents to this submittal per LG'

request, CLIENT IS REQUESTING INSPECTION ON 3/6/13, PLEASE CONFIRM. hro

Removal of UST and 1-inspection. Tim Cook w/Cook Environmental Services, 925-478-8390. \$795

paid. hro

Invoice #

2013-01003

Applicant:

Tim Cook with Cook Environme

Invoice Amount

795.50

Applicant Ph#:

925-478-8390

Contractor:

Contractor Ph#:

EVIEWED AND APPROVED OAKLAND FIRE DEPARTMENT

O IV

TITLE

ALL INSPÉCTIONS REQUIRE

48 Hours notice

## CITY OF OAKLAND FIRE PREVENTION BUREAU

250 Frank Ogawa Plaza, Suite 334 Oakland, California 94612-2032

REVIEWED AND APPROVED OAKLAND FIRE DEPARTMENT TITLESEMON DATE:\_

(510) 238-3851

ALL INSPECTIONS REQUIRE
48 HOURS NOTICE
APPLICATION for PERMIT to INSTALL, REMOVE OF REPAIR TANKS
In the CITY OF CARLAND

Request Submittal Date: 3/4/13  PLEASE CIRLCE APPROPRIATE ACTIONS: Application is hereby made for permit to:
(h) 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 the property line; (c) aboveground: (d) underground tank(s) *inside curb line, please attach copy of sidewalk/excavation permit from PLANNING AND BUILDING
on the Sooth side of 2674 (St) Ave. 40 feet 5 of 26 (St) Ave.
Site Address: 385 2619 St. Present storage nations of
Owner: Kyle Millis Ward Sus and Sus and Address Phone (510) 891-8893  388 Bolmant St. OAK MANN, A 94610
300 Bolmant St. OAK MANN, 4+ 94610
Applicant: Tim Cook Cook Environ months services, INC.  Address 405 Tran Blut Ger 208 Applicant 925)478-8390  WALNOT GERE, OA 94597
Remarks raduced task, decomposed, hear oil released to Soil
Signature Tim Ulf
PLEASE ATTACH/SUBMIT: (All applicants must have a City Business License Permit)
<ul> <li>(2) Copies of Closure Plans for underground tank removal (s)</li> <li>(2) Sets of plans and (1) copy of specifications for above ground tank removal</li> <li>(2) Sets of plans and (2) sets of application packets for underground tank installation/modifications</li> <li>(2) Sets of plans for aboveground tank installation and specifications</li> <li>copy or prepare to show Planning and Building approval for aboveground tank removal and tank repair</li> <li>NOTE: FOR TANK INSTALLATION PLEASE SUBMIT THIS APPLICATION FORM ALONG WITH A APPLICATION FOR PERMIT TO OPERATE, MAINTAIN OR STORE</li> </ul>
FOR OFFICE USE ONLY
Permit No Amt. Recv'd Date Issued:
Copies to: Electrical Inspection ck#Cash
Receipt#Reov'd by:

<u>FACIL1</u>	TY INFORMATION
Facility/Residence Name	Business Tyme
Site Address 385 26th St	Business Type  City Out and Zip 94612
Contact Person Susan Casaria	Title Phone 510 811-98
E-Mail CASOTTIALIZED FORM	Cell Phone 510 388 6608
Owner, Agency, or Corporation Name	Phone
Mailing Address	City State Zip
EPA ID Number	OldyZip
Note: Include "Proof of Financial Res	ponsibility"
CONTRACTOR DEMONTAL TAX	TY/O) A NO PURILLY
CONTRACTOR REMOVING TAN	(K(S) AND PIPING:
Contractor Crok Environm	ental Soluces
Business Address Mass To a for the	Phone 925478-8390 Ste 204City Whole Cool Zip 94597
State Contractors License 92138	STE CONTUITY WAYNUT COOK ZIP 94597
State Community Execuse Civily	<b>7</b> /
Workers Compensation	cense, Hazardous Materials Certification, and
Workers Compensation	
HAZARDOUS WASTE HAULERS	
Hazardous Waste Hauler, Tank(s)	PEMOUN ENVIRON SUCS EPA ID#
Dusiness Address (6) By 70-	15 City Vanalla
- In Frencuio	Phone 707 448 - 3700
Tank(s) and piping destination	
Hazardous Waste Hauler (Rinsate)	EPAID# AS Alone
Duantess address	LAbove City ii
ContactA	S Above Phone " License Exp. Date
Note: Include Hauler License No	License Exp. Date
SAMPLE COLLECTION AND ANA	ALYSIS:
Sample Collector Tim Carle P.F.	Company Cook Envir Salvices
Address 485 Traff Blue City	WALNUT Creek Phone 925 7876869
Soil/Water Analysis Laboratory M.	Compbell Avalumed
State certification No. 1644	Contact Aug / Phone and The Contact
Business Address 1534 Willow Pas	S City Patel Pydellus Zin 0/15/5
	S City Pitts Lydellus Zip 94565
TANK(S	S) INFORMATION
ANK SYSTEM: SIZE (GALLONS) TANK CO	NSTRUCTION SUBSTANCE(S) PREVIOUSLY CONTAINED
ANK1_500(?) Parties	And the state of t
and the same of th	DESTRICTION APPROVED
ANK 2	OAKLAND FIRE DEPARTMENT
ANK 3	BY: Jan Tax
	TITLE SWIDT HAZMOT IN
ANK 4	11100.3200
ANK 4	DATE: 3/4//-5
ANK 4	3/4//3

agree to comply	with all applical	ole City of Oakla	d Storage tank(s) S and Ordinances; Fir de of Regulations.	ystems." I further e Code; Health and	
Applicant //	Print	Applicant_	Signature	Date 2/2Z/13	
	•	"This box for OFM	use only"		
Comments					
nspectors Signa	iture Say	Spll	_Approval Date_3/	4/13	
	•		•		

General Engineering Contractor A, HAZ #921887

REVIEWED AND ABPROVED
OAKLAND FIRE BEPARTMENT
BY:
TITLE: SCOULT AND ABPROVED
TITLE: SCOULT AND ABPROVED
DATE: SCOULT AND ABPROVED
ALL INSPECTIONS REQUIRE
48 HOURS NOTICE

# HEALTH AND SAFETY PLAN FOR UNDERGROUND STORAGE TANK REMOVAL

385 26<sup>th</sup> Street Oakland, California 95209

PREPARED FOR:

Paoli Construction 47 Bret Harte Lane San Rafael, CA 94901

SUBMITTED TO:

Leroy Griffin
City of Oakland Fire Prevention Bureau
250 Frank H Ogawa Plaza, Suite 3341
Oakland, CA 94612

PREPARED BY:

Cook Environmental Services, Inc. 1485 Treat Boulevard, Suite 203A Walnut Creek, California

February 25, 2013

# **ATTACHMENT B Notice of Unauthorized Release**

	UNDERGROUND STORAGE TANK (UST) SITE -	UNAUTHORIZED RELEASE / CONTAMINATION REPORT
□ Ye	RGENCY HAS STATE OFFICE OF EMERGENCY SERVICE  REPORT BEEN FILED? Yes No  ORT DATE CASE #	CES FOR LOCAL AGENCY USE ONLY  I HEREBY CERTIFY THAT I AM A DESIGNATED GOVERNMENT EMPLOYEE AND THAT I HAN REPORTED THIS INFORMATION TO LOCAL OFFICIALS PURSUANT TO SECTION 25180.7 C THE HEALTH AND SAFETY CODE.
Ma	rch 18, 2013	SIGNED
	NAME OF INDIVIDUAL FILING REPORT TIME COOK	ONE SIGNATURE
₩	Tim Cook (92	25) 478-8390   M CM
REPORTED BY	☐ LOCAL AGENCY ☐ REGIONAL BOARD ☐ OWNER/OPERATOR ☐ OTHER  ADDRESS	Cook Environmental Services, Inc
2	1485 Treat Blvd., Ste 203A	Walnut Creek, CA 94597
ISIBLE TY	NAME Kyle Milligan and Susan Casentini Trust	CONTACT PERSON Susan Cansentini PHONE ((510) 891-8893
RESPONSIBLE PARTY	388 Belmont St. Oakland CA 94610	CITY STATE ZIP
Z.	FACILITY NAME (IF APPLICABLE)	OPERATOR NA (NA)
SITE LOCATION	385 26th Street, Oakland, Alameda	County, CA 94612
SITE	CROSS STREET Telegraph Ave.	CITY COUNTY ZIP
()	LOCAL AGENCY AGENCY NAME	PHONE
IMPLEMENTING AGENCIES	City of Oakland Fire Department	<sup>(</sup> (510) 238-7759
MPLEA	REGIONAL BOARD San Francisco Bay (Region 2)	((510) 622-2300
	(1) NAME	
SUBSTANCES	Heating Oil	Unknown
SUBS	(2)	Unknown
EMENT	February 14 Julia	Tank Test
DISCOVERY/ABATEMENT	DATE DISCHARGE BEGAN	METHOD USED TO STOP DISCHARGE (CHECK ALL THAT APPLY)  Remove Contents  Close Tank
OVER	HAS DISCHARGE BEEN STOPPED?	Repair Tank Change Procedure
DISC	Yes No IF YES, DATE	Replace Tank Other Repair Piping
ICE/	SOURCE OF DISCHARGE CAUS	
SOURCE	☐ Submersible Turbine Pump (STP) ☐ Other ☐ Ins	pill ☐ Overfill ☐ Physical/Mechanical Damage ☐ Corrosion stallation Problem ☐ Unknown ☐ Other
CASE	CHECK ONE ONLY  Undetermined Soil Only Groundwater Drinking Water – (	(CHECK ONLY IF WATER WELLS HAVE ACTUALLY BEEN AFFECTED)
CURRENT		Open - Verification Monitoring
STA		☐ Open - Inactive ☐ Closed – No Further Action Required
ACTION	CHECK APPROPRIATE ACTION(S)  Human health exposure control?	
REMEDIAL ACTION	□ No Action Required (NAR) □ Excavate & Treat (ET) □ Excavate & Dispose (ED) □ Free Product Removal (FPR)	☐ Treatment at Hookup (TH) ☐ Other ☐ Replace Supply (RS)
COMMENTS	80 gals of heating oil and 60 tons of contam offsite. Verification soil samples were collection of the City of Oakland Fire Dept. L	ninated soil have been excavated and disposed of cited from the bottom of the excavation under the lab analysis pending.

# ATTACHMENT C Laboratory Analytical Report for Heating Oil

# **Analytical Report**

Cook Environmental Services, Inc.	Client Project ID: #1095; Paoli Construction	Date Sampled: 03/11/13
1485 Treat Blvd, Ste. 203A		Date Received: 03/11/13
1103 11041 511 4, 510, 2031	Client Contact: Tim Cook	Date Reported: 03/12/13
Walnut Creek, CA 94597	Client P.O.:	Date Completed: 03/12/13

WorkOrder: 1303304

March 12, 2013

Dear Tim:

### Enclosed within are:

- 1) The results of the 1 analyzed sample from your project: #1095; Paoli Construction,
- 2) QC data for the above sample, and
- 3) A copy of the chain of custody.

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.

The analytical results relate only to the items tested.

1303304

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	one: (877) 25	52-9262				x: (92	25) 2	52-9	269	)		DATE CONTROL	J	EDI	Re	qui	ed?					_	Yes	1	Writ	te O				No		
Report To: Tim C			A CONTRACTOR OF THE PARTY OF TH	Bill To	o:								_			- (	-	1	\na	lysis	Re	ques	ŧ						(	Other		Comments
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Tele: (925) 478-8		1 74377			ook@coo (925) 478			men	tal.	com	<u> </u>		-			1	3		T.			l			/8310						1	for Metals
Project #:1095	370	-			t Name:		and the second	nete	21.02	ion					e	6	2								270						-	analysis:
Project Location:	385 26th St.	Oakland		Tojec	t (valie.	I du	n Cu	113(1	uct	IOIL	100					1		070		7					90	9	8					Yes / No
Sampler Name &		Outhing					The state of						-		-			20		O			=		623	09/	602	9				
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SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Air	Sludge	Other			HNO.	Value	BIEA (8021B)	Fra as Dreset (8013) & TFHIMO	ELA OZOV - napninalene	EPA 601 / 8010 / 8021	BIEX ONLY (EPA 602 / 8020)	EPA 608 / 8081	EPA 608 / 8082 PCB's ONLY	EPA 8140 / 8141	EPA 8150 / 8151	EPA 8260 (9 oxys only)	EPA 525 / 625 / 8270	PAH's / PNA's by EPA 625 / 8270	CAM-17 Metals (6010 / 6020)	LUFT 5 Metals (6010 / 6020)	Lead (200.8 / 200.9 / 6010)	SPLC Leach	TTLC Leach		
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## McCampbell Analytical, Inc.

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

# **CHAIN-OF-CUSTODY RECORD**

Page 1 of 1

WorkOrder: 1303304 ClientCode: CESW (925) 252-9262 WriteOn ☐ EDF Excel **EQuIS** ✓ Email ☐ HardCopy ☐ ThirdParty J-flag Bill to: Report to: Requested TAT: 1 day Tim Cook Email: tcook@cookenvironmental.com Tim Cook Cook Environmental Services, Inc. CC: Cook Environmental Services, Inc. Date Received: PO: 03/11/2013 1485 Treat Blvd, Ste. 203A 1485 Treat Blvd, Ste. 203A Walnut Creek, CA 94597 ProjectNo: #1095; Paoli Construction Walnut Creek, CA 94597 Date Printed: 03/11/2013 (925) 478-8390 FAX: 925-937-1759 Requested Tests (See legend below) Lab ID **Client ID** Matrix Collection Date Hold 1 2 3 4 5 6 8 9 10 11 12 1303304-001 0-1 Water 3/11/2013 9:00 Α **Test Legend:** 2 1 8081PCB\_W 3 5 7 6 8 9 10 11 12

Prepared by: Jena Alfaro

#### Comments:

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.

# Sample Receipt Checklist

Client Name:	Cook Environmenta	l Services, Inc.			Date a	and Time Received:	3/11/2013 5	:58:02 PM
Project Name:	#1095; Paoli Constr	uction			Login i	Reviewed by:		Jena Alfaro
WorkOrder N°:	1303304	Matrix: Water			Carrier	r: Rob Pringle (M	Al Courier)	
		Chai	n of Cu	ustody (COC	) Informat	tion		
Chain of custody	present?		Yes	<b>V</b>	No 🗆			
Chain of custody	signed when relinquis	hed and received?	Yes	<b>✓</b>	No 🗆			
Chain of custody	agrees with sample la	abels?	Yes	<b>✓</b>	No 🗆			
Sample IDs note	d by Client on COC?		Yes	<b>✓</b>	No 🗆			
Date and Time o	f collection noted by C	lient on COC?	Yes	<b>✓</b>	No 🗆			
Sampler's name	noted on COC?		Yes	<b>✓</b>	No 🗆			
			Samole	Receipt Int	iormation			
Custody seals in	tact on shipping contai		Yes		No 🗆		NA 🗸	
5	er/cooler in good cond		Yes	<b>✓</b>	No $\square$		WA CO	
,G(A) (E)	er containers/bottles?		Yes	<b>✓</b>	No 🗆			
Sample containe			Yes	•	No 🗆			
15 1902 (1909) - 10	volume for indicated	test?	Yes	<b>✓</b>	No 🗆			
		Sample Pres	ervatio	n and Hold	Time (HT) I	Information		
All samples recei	ived within holding time		Yes	<b>✓</b>	No 🗆	momanon		
2000 00 00 00 00 00 <b>5</b> M 00 00 00 00 00 00 00 00 00 00 00 00 0	Blank temperature				7°C		NA 🗆	
CANDIDA TO CANDIDA DE COMO DE	s have zero headspac	e / no hubbles?	Yes		34 1824 	No VOA vials submit		
224 65 57927 935 9	ecked for correct pres		Yes	<b>✓</b>	No $\square$	The Vert Viale Submit	iiod iii	
100 PER 100 PE	table upon receipt (pH		Yes		No 🗆		NA 🗹	
Samples Receive	1 to 1	<b>7</b> :	Yes	<b>✓</b>	No 🗆			
* RSO S		(Ice Type		TICE )	19/2017/7000E	*		
* NOTE: If the "N	lo" box is checked, see	e comments below.						
Comments:								

Cook Environmental Services, Inc.	Client Project ID: #1095; Paoli	Date Sampled: 03/11/13
1485 Treat Blvd, Ste. 203A	Construction	Date Received: 03/11/13
1100 11000 5114, 510. 20011	Client Contact: Tim Cook	Date Extracted: 03/11/13
Walnut Creek, CA 94597	Client P.O.:	Date Analyzed: 03/11/13

Organock Extraction Method: SW3510C		C-ECD (8080 Basic Target thod: SW8081A/8082	List) + PCBs*  Work Order: 13	03304
Lab ID	1303304-001A			505-0000-
Client ID	0-1		Reporting DF	
Matrix	W			
DF	20		S	W
Compound		Concentration	μg/kg	μg/L
Aldrin	ND<0.10		NA	0.005
a-BHC	ND<0.20		NA	0.01
b-BHC	ND<0.10		NA	0.005
d-BHC	ND<0.10		NA	0.005
g-BHC	ND<0.40		NA NA	0.02
Chlordane (Technical)	ND<2.0		NA	0.1
a-Chlordane	ND<1.0		NA	0.05
g-Chlordane	ND<1.0		NA	0.05
p,p-DDD	ND<0.20		NA	0.01
p,p-DDE	ND<0.20		NA	0.01
p,p-DDT	ND<0.20		NA	0.01
Dieldrin	ND<0.20		NA	0.01
Endosulfan I	ND<0.40		NA	0.02
Endosulfan II	ND<0.40		NA	0.02
Endosulfan sulfate	ND<1.0		NA NA	0.05
Endrin	ND<0.20		NA NA	0.01
Endrin aldehyde	ND<1.0		NA NA	0.05
Endrin ketone	ND<1.0		NA NA	0.05
Heptachlor	ND<0.20		NA NA	0.01
Heptachlor epoxide	ND<0.20		NA NA	0.01
Hexachlorobenzene	ND<10		NA NA	0.5
Hexachlorocyclopentadiene	ND<20		NA NA	1.0
Methoxychlor	ND<2.0		NA NA	0.1
Toxaphene	ND<10		NA NA	0.5
Aroclor1016	ND<10		NA NA	0.5
Aroclor1221	ND<10		NA NA	0.5
Aroclor1232	ND<10		NA NA	0.5
Aroclor1242	ND<10		NA NA	0.5
Aroclor1248	ND<10		NA NA	0.5
Aroclor1254	ND<10		NA NA	0.5
Aroclor1260	ND<10		NA NA	0.5
PCBs, total	ND<10		NA NA	0.5
		e Recoveries (%)	1 110	0.5
%SS:	108	e Accoveries (76)		
Comments	a3			

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

ND means not detected above the reporting limit/method detection limit; N/A means analyte not applicable to this analysis; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor.

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

a3) sample diluted due to high organic content.

### QC SUMMARY REPORT FOR SW8081A/8082

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 75381

WorkOrder: 1303304

EPA Method: SW8081A/8082	Extraction: SW3510C			Spiked Sample ID: N/A						
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
H	μg/L	μg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
Aldrin	N/A	1.25	N/A	N/A	N/A	95	N/A	N/A	70 - 130	
g-BHC	N/A	1.25	N/A	N/A	N/A	100	N/A	N/A	70 - 130	
p,p-DDT	N/A	1.25	N/A	N/A	N/A	85.7	N/A	N/A	70 - 130	
Dieldrin	N/A	1.25	N/A	N/A	N/A	109	N/A	N/A	70 - 130	
Endrin	N/A	1.25	N/A	N/A	N/A	102	N/A	N/A	70 - 130	
Heptachlor	N/A	1.25	N/A	N/A	N/A	95.9	N/A	N/A	70 - 130	
%SS:	N/A	1.25	N/A	N/A	N/A	81	N/A	N/A	70 - 130	

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

### BATCH 75381 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1303304-001A	03/11/13 9:00 AM	03/11/13	03/11/13 11:36 PM				

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

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

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

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.

**DHS ELAP Certification 1644** 

SH QA/QC Officer

# ATTACHMENT D Hazardous Waste Manifest for Heating Oil

	W.	ORM HAZARDOUS ASTE MANIFEST	C A C 0 0 2	722810	1 800		O CHEMITHE	01	t Tracking Nu	Approved. OMB No. 2050-0 mber JJK
		nerator's Name and Mailir I M COOK I 485 TREAT BL WALNUT CREE rator's Phone:	VD. STE 203A	20.0	71ñ 385	ator's Site Addre A COOK 5 26TH ST KLAND C		an mailing addre	958)	
	6. Tra	nsporter 1 Company Nam -REMOUW EN	NVIRÖNMENTAL SI			******		U.S. EPAID		0171017
	7. Tra	nsporter 2 Company Nam	ne					U.S. EPA ID	Number	
	Ĭ.	JESS WHITE R	HO CORBOVA LLG d	ba PSC ENV S	11 de la constante de la const			U.S. EPA ID	Number	
	Facilit	y's Phone: 916 3	51-0980					CAI	0 9 8	0884183
	9a. HM	and Packing Group (if a	C 177			10. Con No.	tainers Type	11. Total Quantity	12. Unit Wt.∕Vol.	13. Waste Codes
GENERATOR -			HAZARDOUS WAST	E LIQUIDS (OILY	SLUDGE)	2	DW	40	G	343
- GEN		2.	1							
		3.								
		4.								
			s and Additional Information							
			2	1)388104 - OH			IANDLEKS T	OBE 401E	TRAINEL	AND USE PPE
	E li	xporter, I certify that the o certify that the waste mini	R'S CERTIFICATION: I hereby de ded, and are in all respects in prop ontents of this consignment confor mization statement identified in 40	rm to the terms of the attacher	ording to applicable into	emational and na	ational governme	ntal regulations.	ipping <mark>n</mark> ame, If export ship	and are classified, packaged, ment and I am the Primary
	Genera	ttor's/Offeror's Printed/Typ	ped Name	10	Signature		-			
NTIL	16. Inte				9.7.0	3	4 2			Month Day Year
=	Transp	rrialional Shipments orter signature (for export	Import to U.S.	TVIST	Export from U.S.		entry/exit:	1/13 - 1-	C Judge	Month Day Year
-	17. Trai	orter signature (for export rsporter Acknowledgment	ts only): of Receipt of Materials	41.57	Export from U.S.		intry/exit: ving U.S.:		C- I red see	Month Day Year
-	17. Tran	orter signature (for export nsporter Acknowledgment orter 1 Printed/Typed Nam	ts only): of Receipt of Materials ne	1005	Export from U.S. Signature				C. Market	Month Day Year
-	17. Tran	orter signature (for export nsporter Acknowledgment orter 1 Printed/Typed Nam	ts only): of Receipt of Materials ne	Trust					E in add to the	10311111
→ TRANSPORTER	17. Transport	orter signature (for export insporter Acknowledgment orter 1 Printed/Typed Nam orter 2 Printed/Typed Nam orter 2 Printed/Typed Nam	ts only): of Receipt of Materials se	1105	Signature					Month Day Year
→ TRANSPORTER	17. Transport	order signature (for export insporter Acknowledgment order 1 Printed/Typed Nam order 2 Printed/Typed Nam	ts only): of Receipt of Materials se	Туре	Signature Signature	Date lea	ving U.S.:	Partial Reje		Month Day Year
TRANSPORTER	17. Transport Transport Transport 18. Disc 18a. Disc	orter signature (for export insporter Acknowledgment orter 1 Printed/Typed Nam orter 2 Printed/Typed Nam orter 2 Printed/Typed Nam	ts only): of Receipt of Materials ne  O		Signature Signature	Date lea	ving U.S.:	Partial Reje	ection	Month Day Year  Month Day Year
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— DESIGNATED FACILITY → TRANSPORTER	17. Transport Transport 18. Disc. 18a. Disc. 18b. Alte Facility's 18c. Sig.	order signature (for export insporter Acknowledgment arter 1 Printed/Typed Nam order 2 Printed/Typed Nam order 2 Printed/Typed Nam orepancy screpancy Indication Space emate Facility (or General is Phone: inature of Alternate Facility ardous Waste Report Man	ts only):  of Receipt of Materials  ne  Ce Quantity  to-)  y (or Generator)  nagement Method Codes (i.e., code)  2.	Type  Type  es for hazardous waste treatn	Signature Signature Minent, disposal, and rec	Date lea	ving U.S.:		ection	Month Day Year    O3   1   V3     Month Day Year    Full Rejection
—— DESIGNATED FACILITY ——→ TRANSPORTER	17. Transport Transport 18. Discort 18. Discort 18a. Discort 18b. Alte Facility's 18c. Sig 19. Hazza 1.	order signature (for export insporter Acknowledgment arter 1 Printed/Typed Nam order 2 Printed/Typed Nam order 2 Printed/Typed Nam orepancy screpancy Indication Space emate Facility (or General is Phone: inature of Alternate Facility ardous Waste Report Man	ts only): of Receipt of Materials ne  Ce Quantity  to-)  y (or Generator)  nagement Method Codes (i.e., code	Type  Type  es for hazardous waste treatn	Signature Signature Minent, disposal, and rec	Date lea	ving U.S.:	U.S. EPA ID N	ection	Month Day Year    O3   1   V3     Month Day Year    Full Rejection

# ATTACHMENT E Non-Hazardous Waste Manifests for Soil

NON-HAZARDOUS 1. Gene	POTRERO HILLS LANDFILL, INC. Weighed at: POTRERO HILLS LANDFILL, INC.	none -	4. Weste To 312	racking Number	\$1 Q-	
WASTE MANIFEST  5. Generator's Name and Malling Addres SUSAN CASENTINI TH 385 26TH STREET	P.O. BOX 68 FAIRFIELD, CA 94533		nt than mailing addr	608)		
OAKLAND CA 94901 [Je Benerator's Prone: 9 2 5: [Je	puty: Jamee Quinomer pposit: Jamee Quinomez n: TO: 2623		Ų.S. EPA ID			- 40
FREMOUW ENVIROR  7. Transporter 2 Company Name	ILL TO: 2623 FREMOUW ENVIRONMENTAL SERV	VICES	U,S. EPA ID	R O O O	1710	1 /
POTRERO HILLS LANG 3675 POTRERO HILLS	ehicle ID: eference: PHLF13075 irid: 14 HaulCust#: ORIGIN-DAKLAND		U.S. EPA ID	Number		-
Facility's Phone: 707 432-462  9. Waste Shipping Name and Descri	oriveron?: N Noute: 031213MFA BIN J616	; ype	11. Total Quantity	12. Unit WE/Vol.		
NON HAZARDOUS!	Origin: UAKLAND	;58;37	13	Y	NE	
2.	DATE OUT: 03/20/2013 TIME OUT: 13	: 18: 15		AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA		
	INBOUND TICKET Number: 01-35601 SCALE 1 GROSS WT. 44520	-				
	SCALE 1 GROSS WT. SCALE 3 TARE WT. 27360 NET WEIGHT 17160	0 1.8				
4.	111.1			6000		
13. Special Mandling Instructions and Addition	250	Amount EANDLE	rs to be 40hi	R TRAINED A	ND USE PPE.	
13. Special Handling Instructions and Addition  BINDLI JCIG  14. GENERATOR'S/OFFEROR'S CERTIFICAL marked and labeled place right, and are in a Generation and order of a market in page 18.	Only Description  8.58 Profile Soil-T Disp  BION: Thereby declare that the containts of this consignment as all respects in proper condition for transport according to applic	EANDLE re fully and accurately described a able international and national government.	bove by the proper to emmental regulation	sirping rame, end is.	l are sessified, per Month De	¥ Y
13. Special Handling Instructions and Addition  BIN-11 JCIG  14. GENERATOR S/OFFEROR'S CERTIFICAL marked and labeled dylatered dynamic in a Certamor and force of marked Typics Name  X K. J. Millisch J. S. S.	Oty Description 8.58 Profile Soil-T Disp  8.68 Profile Soil-T Disp  BION: I hereby declare that the containts of this consignment as all respects in proper condition for transport according to applic	EANDLE re fully and accurately described a sable international and reasonal government.	howe has the names	sirping rame, end is.	l ara slassified, pa	y Y
13. Special Handling Instructions and Addition  BINLY JCIG  14. GENERATOR'S/OFFEROR'S CERTIFICAL marked and labeled phase order, and are in a Generation and Conference of Finness' Typed Name  X K. J. M. J. S. J. J. S. J. S	Only Description  8.58 Profile Soil-T Disp  BION: I hereby declare that the containts of this consignment as all respects in proper condition for transport according to applications of the containts of the consignment and respects in proper condition for transport according to applications.	EANDLE re fully and accurately described a sable international and reasonal government.	bove by the proper semmerals regulation	sirping rame, end is.	l are sessified, per Month De	¥ Y
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13. Special Handling Instructions and Addition  BIN-13. JC16  14. GENERATOR'S/OFFEROR'S CERTIFICAL marked and labeled rights and end in elementary of the control of the co	Only Description 8.58 Profile Soil-T Disp 8.58	re fully and accurately described a sable international and national and national and national and last of the full of the ful	bove by the proper semmerals regulation	sirping rame, end is.	Are sessified, per Month De   03   1 2	y Y
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	POTRERO HILLS LANDFILL, INC.	*	
E A	Weighed at: NON-HAZARDOUS 1.Generator POIRERO HILLS LANDFILL, INC.	4, Waste Tracking Number	N. J. S.
	WASTE MANIFEST P.O. Box 68	TREC 031313MF31	-
	S. Generature Name and Mailing Address SUSAN CASENTINI TRUK 385 26TH STREET	rent than mailing address)	40000
	· OAKLAND CA 94901 · Deputy: Jaciyn Deleon		Sec.
	Generator's Phone: 9.2.5 4 Deposit: Jaclyn Deleun 6. Transporder 1 Company Name BILL TO: 2623	U.S. EPA ID Humber	- 5
	FREMOLIN ENVIRONN FREMOUN ENVIHONMENTAL SERVICES	CAR000171017	13
	7. Transporter 2 Company Name	U.S. EPA ID Humber	17.
	Vehicle III: 0D1	U.S. EPA ID Number	-
	8. Doscovered Parity Name and Ste Address Reference: PHLF 13075	U.S. EFA ID MUNUS!	2000
	3675 POTRERO HILLS LA Grid: 14 SUISUN CA 94585 HaulCust#: ORIGIN-DAKLAND		
	Facility's Phone: 707 432-4627   Driver'On? N		
	s. Waste Shipping Name and Description Route: 031313NF31	11. Total 12. Link	
SALOR	TRURYLP#: BING REGIONSE & RECORD	Quantity WL/Vel.	9
S B	1 NON HAZARDOUS SO Origin: OAKLAND	25 Y NONE	
A V	DATE IN: 03/25/2013 TIME IN: 12:52:46		
GENERATOR	2 DATE OUT: 03/25/2013 TIME OUT: 13:45:51		
i	01-367038	a de la companya de	
	INBOUND TIERET NUMBER: UT 551055		
3	SCALE 1 GROSS NT. 78780 LB		
	SCALE 3 TARE WT. 40420 LB		POK
	4. NET WEIGHT 38350 LB		100
	Qty Description Amount		STATE OF
	13. Special Handing Instructions and Additional in 19. 18 Profile Suil-T Disp		1
			1
	BINH'S R27963PL	DLERS TO BE 40HR TRAINED AND USE PPE.	54/4
	ZARU.	DLEAS TO BE THE TRAINED AND USE PPE.	
	14. GENERATOR'S/OFFEROTS CERTIFICATION: I hereby deciare that the contents of this consignment are fully and accurately describe	bed above by the proces shipping name, and are classified, packaged	-3
	marked and labeled/plecarded, and are in all respects in proper condition for transport according to applicable international and national Generator's Officer's Printed Typed Name  Sepreture	i governmental regulations.	_
<b>1</b> √	XXIII Millian & Sign Caconini Trust 1x Top 68	Accord General 03 13 12	1.55
INT		Series Contract	-
			9
POHIER	16. Trunsporter Acknowledgment of Receipt of Materials  Transporter 1 Printed/Typed Name  Signature  Signature	•	1
900	PATRICE RAPOR	Morth Cay Ye	123
TRANS	Transporter 2 Printed/Typed Karne Signature	Morth Day Yes	_
1			40
1	17. Discrepancy		100
	Type Residue	Partial Rejection Full Rejection	100
	Manifest Relenance Number	tier.	
	17b. Alternate Facility (or Generator)	U.S. EPA ID Number	No. of
FACILITY	Pacitity's Phone:	T	
9	17c. Signature of Alternate Facility (or Generator)	Month Day Yea	
BANE			174
DESIGNATED			
1			
	18. Designated Fastility Owner or Opphians Cardination of receipt of materials covered by the manufast except as noted (if item) 17a.	2007年1月1日 1月1日 1月1日 1月1日 1月1日 1月1日 1月1日 1月1日	
	Printed/Typed Name Signature	i Magin Day ( Kin)	- 医
ST Y		DACID	也經
180	P-BLC-O 5 11977 (Rev. 9/09)	<b>DESIGNATED FACILITY TO GENERATO</b>	D)

DUPLICATE TICKET

		POTRERS HILLS LANDFILL	. INC.					
A NON-HAZARDOUS WASTE MANIFEST	1. Generator ID Numb	Weighed at: PUTRERO HILLS LANDFILL P.G. Box 68 FAIRFIELD, CA 94533	. INC.	031213 maling address	MF31.		f	
a THERMOUW E	94901 2 5 4 7 8 NVIRONMEN	Deputy: James Quinonez Deposit: James Quinonez SILL TO: 2623 FREMOUW ENVIRONMENTAL	L SERVICES	LE EPAIDN CAR US EPAIDN	00017	710	1 7	
7. Transporter 2 Company No. 8. Designate 1 Excellent No. 9. Designate 1 Excellent No. 3675 POTRER	L'S LANDFILL, O HILLS LANE	/ehicle ID: Keference: PHLF13076 Brid: 14 HaulCust#: ORIGIN-OAKLAND		U.S. EPAID N	lumber -			
SUISUN CA 9 Facility's Phone: 707  9. Waste Shipping No.	432-4527 gra-end Dascription	OriverOn?: N FRLR/LP#: 10703D1 Origin: OA4LAND		11. Total Guardity	12. Unit WŁ/Vol.			
HOLVE AND A CONTRACT OF THE PROPERTY OF THE PR	(	DATE IN: 03/20/2013 TIME IN: DATE OUT: 03/20/2013 TIME OUT: INBOUND TICKET Number: 01-3	: 13:54:00	12	У			はなった。
3675 POTRER SUISUN CA 9 SUISUN CA 9 Facility's Phone: 707  3. Waste Shipping No. 1. NON-HAZ/  1. NON-HAZ/  1. NON-HAZ/  1. Spacial Handling Institution  1. GENERATOR'S/OFFI randous and labeleduly Centeralor's/Utterd's Paril		SCALE 1 GROSS WT. 44 SCALE 3 TARE WT. 2	4840 LB 7360 LB 7480 LB					
4. 13. Spacial Handling Institu	citions and Additional Infi	Oty Description 8.74 Profile Soil-T Disp	Amount	ytical provi	ded to dispose	i facility	)	3
SIN# JC 2		h1m12-14			R TRAINED AND			
14. GENERATOR'S/OFFI rearised and labeled/pl Generalor's/Offierur's Prof	PORTS CERTIFICATION: I scarded, and see in all respe sedTyped Name		4 64			Month 103	packaged, Day Yes	1
15. Interhetional Shipman	import to U.	S. DEMONTRON	THE PARTY OF THE P	ot Gene	hatzo	03 1	18   1;	2
16. Transporter Activour's Transporter 1 Printed/Typ	dgment of Fleorist of Medan and Name Rappao	3	PHAQ.			Morrin   63   1	12 11	3
17. Discrepancy Indicates		Турь	Residua	Pertial	Rejection	↓ ↓ ↓ ↓	di Rajacaan	
170. Alternate Facility (o			Mandest Reference Number.	U.S. EPA	10 Number	- 10 - Ca		
Transporter 2 Printed/Ty  Transporter 2 Printed/Ty  17. Ciscrepancy  17a. Discrepancy Indicat  17b. Alternate Facility (of  17c. Signature of Alternate  17c. Sig	de Facēty (or Generator)	1		Saure		Month	Day Y	Year
DESIGN			apt as round in Nern 17s					
18. Designated Facility Private/Typed Name	Ourser or Operator: Curtifori	Will by sample or members and any and any	Sgraber	and the second second		Month	94y )	/ear

# ATTACHMENT F Hazardous Waste Manifests for Soil and Redwood Tank Debris

U.S. EPA ID Number  U.S. EPA ID Number  U.S. EPA ID Number	TERMANIFEST  Address  Generator's Site Address (if different than mailing address)  DOT'S Phone:  DO		MARTE MANUEROY	Form Approved, OMB No 4. Manifest Tracking Number
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# ATTACHMENT G Laboratory Analytical Report for Soil Samples

# **Analytical Report**

Cook Environmental Services, Inc.	Client Project ID: #1095; Paoli Construction	Date Sampled: 03/13/13
1485 Treat Blvd, Ste. 203A		Date Received: 03/13/13
1405 110dt Divd, 5to. 20571	Client Contact: Tim Cook	Date Reported: 03/19/13
Walnut Creek, CA 94597	Client P.O.:	Date Completed: 03/19/13

WorkOrder: 1303385

April 10, 2013

Dear Tim:

### Enclosed within are:

- 1) The results of the 2 analyzed samples from your project: #1095; Paoli Construction,
- 2) QC data for the above samples, and
- 3) A copy of the chain of custody.

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.

The analytical results relate only to the items tested.

1303385

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SAMPLE ID (Field Point Name)	LOCATION	Date	Time	# Containers	Type Containers	Water	Soil	Air	Other	ICE	HCL	HNO,	Other	BTEX (8021B)	TPH as Diesel (8015) & TPHmo	EPA 8260 - naphthalene	8310 Pluse 2-methyl napthalene	EPA 601 / 8010 / 8021	BTEX ONLY (EPA 602 / 8020)	EPA 608 / 8081	EPA 608 / 8082 PCB's ONLY	EPA 8140 / 8141	EPA 8150 / 8151	EPA 8260 (9 oxys only)	EPA 525 / 625 / 8270	PAH's / PNA's by EPA 625/8270 / 8310	CAM-17 Metals (6010 / 6020)	LUFF 5 Metals (6010 / 6020)	Lead (200.8 / 200.9 / 6010)	SPLC'Leach	TTLC Leach		
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# McCampbell Analytical, Inc.

1534 Willow Pass Rd Pittsburg, CA 94565-1701

# CHAIN-OF-CUSTODY RECORD

Page 1 of 1

WorkOrder: 1303385

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#### Comments:

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.

Comments:

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com / E-mail: main@mccampbell.com

## Sample Receipt Checklist

Client Name:	Cook Environmental	l Services, Inc.			Date	and T	Time Received:	3/13/201	3 3:28:27 PM
Project Name:	#1095; Paoli Constr	uction			LogIn	Revi	iewed by:		Jena Alfaro
WorkOrder N°:	1303385	Matrix: Soil			Carrie	er:	Rob Pringle (M.	Al Courier	)
		Cha	in of Cu	ustody (CO	C) Informa	ation			
Chain of custody	present?		Yes	<b>✓</b>	No 🗆				
Chain of custody	signed when relinquis	hed and received?	Yes	<b>✓</b>	No 🗆				
Chain of custody	agrees with sample la	ibels?	Yes	<b>✓</b>	No 🗆				
Sample IDs noted	d by Client on COC?		Yes	<b>✓</b>	No $\square$				
Date and Time of	f collection noted by C	lient on COC?	Yes	<b>✓</b>	No $\square$				
Sampler's name	noted on COC?		Yes	<b>✓</b>	No 🗌				
			Sample	Receipt In	formation	lu.			
Custody seals int	act on shipping contai		Yes	П	No 🗆			NA 🗸	
7. <b>*</b> 0	er/cooler in good cond		Yes	<b>✓</b>	No $\square$				
1916) 280 Hall 142000	er containers/bottles?		Yes	<b>✓</b>	No 🗆				
Sample container			Yes	<b>✓</b>	No 🗆				
Sufficient sample	volume for indicated t	test?	Yes	<b>✓</b>	No 🗆				
		Sample Pres	ervatio	n and Hold	Time (HT)	) Info	rmation		
All samples recei	ved within holding time		Yes	<b>✓</b>	No 🗆				
	Blank temperature			r Temp: 2				NA 🗆	
25	s have zero headspac	e / no bubbles?	Yes		No 🗆	No \	VOA vials submit	ted 🗹 .	
	ecked for correct pres		Yes	<b>✓</b>	No 🗌				
Metal - pH accept	table upon receipt (pH	<2)?	Yes		No 🗆			NA 🗸	
Samples Receive	ed on Ice?		Yes	<b>✓</b>	No 🗆				
		(Ice Type	e: WE	TICE )					
* NOTE: If the "No	o" box is checked, see	comments below.							
								-1	

McCampbell "When Que	Analytical, Inc
Cook Environmental Services, Inc	Client Project Construction

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269

						Court of the Court
Cook Environmental Services, Inc.	Client Project ID Construction	: #1095; Paoli	Date Sampled: 03/13/1	3		
1485 Treat Blvd, Ste. 203A	Constituction		Date Received: 03/13/1	3		
	Client Contact: 7	Tim Cook	Date Extracted: 03/13/1	3		
Walnut Creek, CA 94597	Client P.O.:		Date Analyzed: 03/14/1	3		
Extraction method: SW5030B		anics by P&T and GC/I	MS*	Work (	Order: 13	803385
Lab ID Client ID	Matrix 1	Methyl-t-butyl ether (MTBE)	Naphthalene	DF	% SS	Comments
001A S-1	S	ND<1.0	10	200	87	
002A S-2	S	ND<1.0	14	200	91	
9						
n n						
Reporting Limit for DF =1;	W	NA	NA		NA	
ND means not detected at or above the reporting limit	S	0.005	0.005		mg/K	450
* water and vapor samples and all TCLP & SPLP ex liquid samples in mg/L.	dracts are reported in μg	L, soil/sludge/solid samples in	mg/kg, wipe samples in μg/wipe	e, product	/oil/non-	aqueous
ND means not detected above the reporting limit/mostandard; DF = Dilution Factor	ethod detection limit; N/	A means analyte not applicable	e to this analysis; %SS = Percent	Recovery	of Surro	ogate
# surrogate diluted out of range or surrogate coelute	s with another peak.					
			H THE STATE OF THE			

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KF Analyst's Initial

Angela Rydelius, Lab Manager

1534 Willow Pass Road, Pittsburg, CA 94565-1701 Toll Free Telephone: (877) 252-9262 / Fax: (925) 252-9269 http://www.mccampbell.com/E-mail: main@mccampbell.com

Cook Environmental Services, Inc.	Client Project ID: #1095; Paoli	Date Sampled:	03/13/13
1485 Treat Blvd, Ste. 203A	Construction	Date Received:	03/13/13
Termina destrata - Contact de destrata de la composition de la composition de la contact de destrata de la composition della composition	Client Contact: Tim Cook	Date Extracted:	03/13/13
Walnut Creek, CA 94597	Client P.O.:	Date Analyzed:	03/14/13-03/15/13

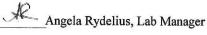
### Gasoline Range (C6-C12) Volatile Hydrocarbons as Gasoline with BTEX and MTBE\*

Extraction n	nethod: SW5030B			Analyt	ical methods:	SW8021B/8015	Bm		Wo	rk Order:	1303385
Lab ID	Client ID	Matrix	TPH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments
001A	S-1	S			ND<1.0	ND<1.0	ND<1.0	ND<1.0	200	#	d7
002A	S-2	S			ND<1.0	ND<1.0	ND<1.0	ND<1.0	200	110	d7
							a a				
			n				*				
								4.04			
			14 m								

Reporting Limit for DF =1; ND means not detected at or	W	50	5.0	0.5	0.5	0.5	0.5	ug/L
above the reporting limit	S	1.0	0.05	0.005	0.005	0.005	0.005	mg/Kg

<sup>\*</sup> 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.

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



<sup>#</sup> cluttered chromatogram; sample peak coelutes w/surrogate peak; low surrogate recovery due to matrix interference; %SS = Percent Recovery of Surrogate Standard; DF = Dilution Factor



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"When Quality Counts"

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Cook Environmental Services, Inc.	Client Project ID: #1095; Paoli	Date Sampled: 03/13/13
1485 Treat Blvd, Ste. 203A	Construction	Date Received: 03/13/13
1465 Heat Biva, Stc. 205A	Client Contact: Tim Cook	Date Extracted: 03/13/13
Walnut Creek, CA 94597	Client P.O.:	Date Analyzed: 03/15/13

### Total Extractable Petroleum Hydrocarbons\*

Extraction method:	traction method: SW3550B Analytical methods: SW8015B						
Lab ID	Client ID	Matrix	TPH-Diesel (C10-C23)	TPH-Motor Oil (C18-C36)	DF	% SS	Comments
1303385-001A	S-1	S	11,000	11,000	100	101	e7,e1,e2
1303385-002A	S-2	S	6500	5200	50	102	e1,e7,e2
				16			
			# * Second 1				
							/
					*		

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

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

el) unmodified or weakly modified diesel is significant

e2) diesel range compounds are significant; no recognizable pattern

e7) oil range compounds are significant

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Angela Rydelius, Lab Manager

### QC SUMMARY REPORT FOR SW8015B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 75463

WorkOrder: 1303385

EPA Method: SW8015B	Extraction: SW3550B						Spiked Sam	ple ID:	1303388-001A
Analyte	Sample	Spiked	MS		MS-MSD % RPD	LCS	Acceptance Criteria (%)		
,	mg/Kg	mg/Kg	% Rec.			% Rec.	MS / MSD	RPD	LCS
TPH-Diesel (C10-C23)	11	40	NR	NR	NR	98	N/A	N/A	70 - 130
%SS:	82	25	NR	NR	NR	93	N/A	N/A	70 - 130

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

### **BATCH 75463 SUMMARY**

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1303385-001A	03/13/13	03/13/13	03/15/13 9:17 PM	1303385-002A	03/13/13	03/13/13	03/15/13 11:35 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.

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A QA/QC Officer

### QC SUMMARY REPORT FOR SW8260B

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 75471

WorkOrder: 1303385

EPA Method: SW8260B Extraction: SW5030B Spiked Sample ID: 1303385-001										
Analyte	Sample	Spiked	MS	MSD c. % Rec.	MS-MSD % RPD	LCS	Acceptance Criteria (%)			
**	mg/Kg	mg/Kg	% Rec.			% Rec.	MS / MSD	RPD	LCS	
tert-Amyl methyl ether (TAME)	ND<1	0.050	NR	NR	NR	90.8	N/A	N/A	70 - 130	
Benzene	ND<1	0.050	NR	NR	NR	95.4	N/A	N/A	70 - 130	
t-Butyl alcohol (TBA)	ND<10	0.20	NR	NR	NR	112	N/A	N/A	70 - 130	
Chlorobenzene	ND<1	0.050	NR	NR	NR ·	95.4	N/A	N/A	70 - 130	
1,2-Dibromoethane (EDB)	ND<0.8	0.050	NR	NR	NR	101	N/A	N/A	70 - 130	
1,2-Dichloroethane (1,2-DCA)	ND<0.8	0.050	NR	NR	NR	101	N/A	N/A	70 - 130	
Diisopropyl ether (DIPE)	ND<1	0.050	NR	NR	NR	99.2	N/A	N/A	70 - 130	
Ethyl tert-butyl ether (ETBE)	ND<1	0.050	NR	NR	NR	99.5	N/A	N/A	70 - 130	
Methyl-t-butyl ether (MTBE)	ND<1	0.050	NR	NR	NR	99.5	N/A	N/A	70 - 130	
Toluene	ND<1	0.050	NR	NR	NR	104	N/A	N/A	70 - 130	
Trichloroethene	ND<1	0.050	NR	NR	NR	93	N/A	N/A	70 - 130	
%SS1:	99	0.12	NR	NR	NR	97	N/A	N/A	70 - 130	
%SS2:	107	0.12	NR	NR	NR	115	N/A	N/A	70 - 130	
%SS3:	87	0.012	NR	NR	NR	112	N/A	N/A	70 - 130	

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

### BATCH 75471 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1303385-001A	03/13/13	03/13/13	03/14/13 1:22 AM	1303385-002A	03/13/13	03/13/13	03/14/13 2:04 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 and / or MSD spike recoveries may not be near 100% or the RPDs near 0% if: a) the sample is inhomogenous AND contains significant concentrations of analyte relative to the amount spiked, or b) if that specific sample matrix interferes with spike recovery.

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

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

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

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A QA/QC Officer

## QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Soil

QC Matrix: Soil

BatchID: 75465

WorkOrder: 1303385

EPA Method: SW8021B/8015Bm Extr	action: SW5030B				1947		Spiked Sam	ple ID:	1303387-002
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)		
	mg/Kg		% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS
TPH(btex) <sup>£</sup>	ND	0.60	95.9	101	5.38	99.2	70 - 130	20	70 - 130
MTBE	ND	0.10	74.2	81.5	8.79	76.6	70 - 130	20	70 - 130
Benzene	ND	0.10	98.8	104	4.90	98.2	70 - 130	20	70 - 130
Toluene	ND	0.10	95.8	100	4.13	96.2	70 - 130	20	70 - 130
Ethylbenzene	ND	0.10	97.9	101	2.91	96.2	70 - 130	20	70 - 130
Xylenes	ND	0.30	98	101	3.25	97.4	70 - 130	20	70 - 130
%SS:	110	0.10	79	83	5.12	100	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: NONE

### BATCH 75465 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1303385-001A	03/13/13	03/13/13	03/14/13 6:06 AM	1303385-002A	03/13/13	03/13/13	03/15/13 3:18 AM

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

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

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

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

# cluttered chromatogram; sample peak coelutes with surrogate peak.

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

NR = 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.

