Andy Saberi 1045 Airport Boulevard South San Francisco, CA 94080

Mr. Jerry Wickham Alameda County Health Care Services Agency 1131 Harbor Bay Parkway, Suite 250 Alameda, CA 94502-6577

Re: 1230 14<sup>th</sup> Street, Oakland, California ACEH Case No. 295

## RECEIVED

5:55 pm, Mar 05, 2012 Alameda County Environmental Health

Dear Mr. Wickham:

I, Mr. Andy Saberi, have retained Pangea Environmental Services, Inc. (Pangea) as the environmental consultant for the project referenced above. Pangea is submitting the attached report on my behalf.

I declare, under penalty of perjury, that the information and/or recommendations contained in the attached report are true and correct to the best of my knowledge.

If you have any questions, please call me at (650) 588-3088.

Sincerely,

Andy Saberi

December 28, 2011



Marie Kulka EBMUD Environmental Services Division P.O. Box 24055, MS#702 Oakland, CA 94623-1055

## Re: **Discharge Compliance Report – Second Half 2011** 1230 14<sup>th</sup> Street, Oakland, California

Dear Ms. Kulka:

Pangea Environmental Services, Inc. (Pangea) has prepared this *Discharge Compliance Report – Second Half 2011* for the subject site as specified in the Wastewater Discharge Permit #5064043 2 issued August 17, 2010. There were no hazardous waste offhauls or operational changes at the site during this half year. <u>This report presents analytical test results -- no regulated substances (petroleum hydrocarbons) were detected in the system effluent compliance point</u>.

## **BACKGROUND INFORMATION**

DPE system installation was required and approved by the Alameda County Environmental Health (ACEH) to cleanup residual petroleum hydrocarbons from a prior unauthorized release. The DPE system consists of an aboveground vacuum pump to simultaneously extract soil vapor and groundwater. The groundwater treatment equipment consists of a vapor/liquid separator (knockout tank), transfer pump, a particulate filter vessel, two 1,000-lb activated carbon vessels connected in series, and a water totalizer meter. Once the transfer tank becomes full, the transfer pump is activated by level control switches in the transfer tank and pumps the groundwater through the water treatment system prior to discharge to the sanitary sewer under permit from the EBMUD.

## SYSTEM OPERATION AND PERFORMANCE

DPE system operation commenced on April 27, 2011. As of December 14, 2011, the DPE system operated for a total of about 923 hours (approximately 38 days). As of the end of this reporting period (December 14, 2011), the DPE system extracted and treated approximately 107,070 gallons of groundwater. The average groundwater flow rate during the second half of 2011 has ranged from approximately 0.01 to 0.14 gpm, which includes system shutdown periods. GWE system performance is summarized in Table 1.

## PANGEA Environmental Services, Inc.

## SYSTEM SAMPLING

During this reporting period, samples were collected from the influent and effluent ports of the groundwater treatment system on December 14, 2011. The system operated for approximately 17 days of the reporting period. System flow data and groundwater analytical results are summarized on Table 1. Based on laboratory analytical results, the DPE system was operating in compliance with discharge permit conditions: <u>no regulated substances (petroleum hydrocarbons) were detected in the system effluent.</u> The laboratory analytical report is included in Appendix A.

## CLOSING

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

If you have any questions, please email <u>mgillies@pangeaenv.com</u> or call me at (408) 910-1783.

Sincerely, Pangea Environmental Services, Inc.

1 de

Morgan Gillies Project Manager

## ATTACHMENTS

Table 1 – GWE (DPE) System Performance Summary Appendix A – Laboratory Analytical Report Table 1. GWE (DPE) System Performance Summary - 1230 14th Street, Oakland, California

Vell ID	Date	Totalizer Reading (gallons)	Interval Flow Volume (gallons)	Interval Duration (days)	Average Flow Rate (gpm)	TPHg Concentration (ug/L)	Benzene Concentration (ug/L)	MTBE Concentration (ug/L)	TPHg Removed (Lbs)	Benzene Removed (Lbs)	MTBE Removed (Lbs)	Comments
		(gunons)	(guilons)	(duys)	(gpiii)	(ug/L)	( <i>ug/L</i> )	(46/12)	(103)	(103)	(103)	
	03/03/11	251	251	0		960	120	ND (<5.0)	0.002	0.000	0.000	Starup water sampling of influent (3/7/11)
	04/12/11	965	714	40	0.01				0.006	0.001	0.000	Off.
system	04/27/11	2,090	1,125	15	0.05				0.009	0.001	0.000	On.
nfluent	05/05/11	62,822	60,732	8	5.27				0.485	0.061	0.000	On.
	05/16/11	100,689	37,867	11	2.39				0.302	0.038	0.000	On.
	05/24/11	101,686	997	8	0.09				0.008	0.001	0.000	Off. Shutdown 5/19 due to high EFF-V conc.
	07/13/11	101,686	0	50	0.00				0.000	0.000	0.000	Off. Restart, check cat cell. Send for repair.
	09/06/11	102,753	1,067	55	0.01				0.009	0.001	0.000	Off. Restart, off at departure.
	10/24/11	102,753	0	48	0.00				0.000	0.000	0.000	Off. Restart, install new cat cell. Off at departure.
	11/22/11	103,480	727	29	0.02				0.006	0.001	0.000	Off. Restart.
	11/23/11	103,593	113	1	0.08				0.001	0.000	0.000	Off. Restart.
	11/28/11	104,011	418	5	0.06				0.003	0.000	0.000	Off. Restart.
	11/29/11	104,105	94	1	0.07				0.001	0.000	0.000	Off. Restart.
	12/14/11	107,070	2,965	15	0.14	320	8.9	ND (<5.0)	0.008	0.000	0.000	On.
									0.839	0.103	0.000	= Total Cumulative Removal (Lbs)
System Effluent	3/7/2011** 12/14/2011**					ND (<50) ND (<50)	ND (<0.5) ND (<0.5)	ND (<5.0) ND (<5.0)				Startup water sampling of effluent

Discharge Limits (ug/L):	5	5	5	5
	Benzene	Toluene	Ethylbenzene	Total Xylenes

#### ABBREVIATIONS AND NOTES:

gpm = Gallons per minute

TPHd = Total Petroleum Hydrocarbon as Diesel analyzed by EPA Method 8015B with silica gel cleanup

TPHg = Total Petroleum Hydrocarbon as Gasoline analyzed by EPA Method 8015B

Benzene analyzed by EPA Method 8021B

MTBE = Methyl tertiary butyl ether analyzed by EPA Method 8021 Cm

Toulene, Ethylbenzene and Total Xylenes analyzed by EPA Method 8015B

-- = not measured/not available

\* Estimated contaminant mass calculated by multiplying average concentration detected during period (Table 1) by volume of extracted groundwater. Uses most recent lab data.

\*\*Unless noted Toulene, Ethylbenzene and Total Xylenes non-detect (<0.5)

# APPENDIX A

Laboratory Analytical Report



McCampbell Analytical, Inc. "When Quality Counts" 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

# **Analytical Report**

Pangea Environmental Svcs., Inc.	Client Project ID: #1150.001; 1230 14th St.	Date Sampled:	12/14/11
1710 Franklin Street, Ste. 200		Date Received:	12/16/11
1710 Franklin Street, Ste. 200	Client Contact: Morgan Gillies	Date Reported:	12/22/11
Oakland, CA 94612	Client P.O.:	Date Completed:	12/19/11

### WorkOrder: 1112519

December 22, 2011

### Dear Morgan:

Enclosed within are:

- 1) The results of the 2 analyzed samples from your project: #1150.001; 1230 14th St.,
- 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.

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Tele: (510) 836-3	3702			Fax:					geae		0111		-	MM																			for Met
and the second se									th e				-	8015)/MTBE																			analysis
Project #: 1150.001 Project Name: 1230 14 <sup>th</sup> St   Project Location: 1230 14 <sup>th</sup> St., Oakland Project Name: 1230 14 <sup>th</sup> St										-	+																			Yes / No			
Sampler Signatu			ind										-	802																			
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		SAM	PLING	~	ers	L	MA	TR	X		RESE			Gas																			
SAMPLE ID	LOCATION (Field Point Name)	Date	Time	# Containers	Type Containers	Water	Soil	Air .	Other	ICE	HCL	HNO <sub>3</sub>	Other	BTEX & TPH as																			
EFF-W	EFF	12-14-1	0930	3	Von	X			1	X	X			X								1		+	+	+				$\vdash$			
TNF-W	INF	12-14-1	0945	3	T	V			-	X	X			V									-	-		-		-					
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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				WorkOr	der: 1112519	Clier	ntCode: PEO		
	WaterTrax	WriteOn	✓ EDF	Excel	Fax	🖌 Email	HardCopy	ThirdParty	☐ J-flag
Report to:				Bil	I to:		Rec	uested TAT:	5 days
Morgan Gillies	Email: n	ngillies@pangea	env.com		Bob Clark-Ric	ldell			
Pangea Environmental Svcs., Inc.	cc:				Pangea Envir	onmental Svcs	s., Inc.		
1710 Franklin Street, Ste. 200	PO:				1710 Franklin	Street, Ste. 20	00 <b>Da</b> i	te Received:	12/16/2011
Oakland, CA 94612		1150.001; 1230	14th St.		Oakland, CA	94612	Dat	te Printed:	12/16/2011
(510) 836-3700 FAX: (510) 836-3709									

								Rec	quested	Tests (	See lege	end belo	ow)			
Lab ID	Client ID	Matrix	Collection Date	Hold	1	2	3	4	5	6	7	8	9	10	11	12
1112519-001	EFF-W	Water	12/14/2011 9:30		А	A										
1112519-002	INF-W	Water	12/14/2011 9:45		А											

#### Test Legend:

1	G-MBTEX_W
6	
11	

2	PREDF REPORT
7	
12	

3	
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4	
9	

5	
10	

Prepared by: Maria Venegas

#### **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:	Pangea Environme	ntal Svcs., Inc.			Date	e and T	Time Received:	12/16/2011	4:38:37 PM
Project Name:	#1150.001; 1230 14	Ith St.			Che	cklist o	completed and re	viewed by:	Maria Venegas
WorkOrder N°:	1112519	Matrix: Water			Carı	rier:	<u>Rob Pringle (M</u>	Al Courier)	
		<u>Cha</u>	in of Cι	<u>istody (C</u>	OC) Inform	nation			
Chain of custody	present?		Yes	✓	No				
Chain of custody	signed when relinquis	shed and received?	Yes	✓	No				
Chain of custody	agrees with sample l	abels?	Yes	✓	No				
Sample IDs note	d by Client on COC?		Yes	✓	No				
Date and Time o	f collection noted by C	Client on COC?	Yes	✓	No				
Sampler's name	noted on COC?		Yes	✓	No				
			Sample	Receipt	Informatio	n			
Custody seals in	tact on shipping conta	iner/cooler?	Yes		No			NA 🖌	
Shipping contain	er/cooler in good cond	dition?	Yes	✓	No				
Samples in prope	er containers/bottles?		Yes	✓	No				
Sample containe	ers intact?		Yes	✓	No				
Sufficient sample	e volume for indicated	test?	Yes	✓	No				
		Sample Pres	ervatio	n and Ho	old Time (H	<u>T) Info</u>	ormation		
All samples rece	ived within holding tim	ne?	Yes	✓	No				
Container/Temp	Blank temperature		Coole	er Temp:	6.3°C				
Water - VOA vial	ls have zero headspac	ce / no bubbles?	Yes	✓	No	No	VOA vials submi	tted 🗌	
Sample labels ch	necked for correct pres	servation?	Yes	✓	No				
Metal - pH accep	otable upon receipt (pł	H<2)?	Yes		No			NA 🗹	
Samples Receive	ed on Ice?		Yes	✓	No				
		(Ісе Тур	e: WE	TICE )	)				
* NOTE: If the "N	lo" box is checked, se	e comments below.							

\_\_\_\_\_

McCampbell Analytic				Toll Free Telepho				Pass Road, Pittsburg, CA 94565-1701 one: (877) 252-9262 / Fax: (925) 252-9269 npbell.com / E-mail: main@mccampbell.com						
Pangea Environmental Svcs., Inc.				Client Project ID: #1150.001; 1230			1230	Date Sampled: 12/14/11						
1710 Franklin Street, Ste. 200 Clien				14th St	14th St.				Date Received: 12/16/11					
				Client Contact: Morgan Gillies				Date Extracted: 12/18/11-12/19/11						
				Client l	Client P.O.:				Date Analyzed: 12/18/11-12/19/11					
Extractio	Ga on method: SW5030B	soline Ra	inge (C	C6-C12)	-		<b>5 as Gasoli</b> 5W8021B/8015	ne with BTE	X and MT		rk Order:	1112519		
Lab ID	Client ID	Matrix	TP	PH(g)	MTBE	Benzene	Toluene	Ethylbenzene	Xylenes	DF	% SS	Comments		
001A	EFF-W	W	1	ND	ND	ND	ND	ND	ND	1	100			
002A	INF-W	W	3	320	ND	8.9	17	4.1	86	1	109	d1		

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

\* water and vapor samples are reported in ug/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: d1) weakly modified or unmodified gasoline is significant

DHS ELAP Certification 1644



## **QC SUMMARY REPORT FOR SW8021B/8015Bm**

W.O. Sample Matrix: Water	QC Matrix: Water				BatchID: 63389		WorkOrder: 1112519			
EPA Method: SW8021B/8015Bm Extraction: S	W5030B						Spiked Sam	ple ID:	1112499-001A	
Analyte	Sample Spiked MS			MSD MS-MSD		LCS	Acceptance C		Criteria (%)	
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH(btex) <sup>£</sup>	ND	60	81.6	82.6	1.25	98.6	70 - 130	20	70 - 130	
MTBE	ND	10	113	108	4.20	115	70 - 130	20	70 - 130	
Benzene	ND	10	100	96.9	3.22	112	70 - 130	20	70 - 130	
Toluene	ND	10	103	99.5	3.34	107	70 - 130	20	70 - 130	
Ethylbenzene	ND	10	108	105	2.79	104	70 - 130	20	70 - 130	
Xylenes	ND	30	108	104	3.12	119	70 - 130	20	70 - 130	
%SS:	99	10	92	94	1.83	114	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 63389 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1112519-001A	12/14/11 9:30 AM	12/19/11	12/19/11 8:33 PM	1112519-002A	12/14/11 9:45 AM	12/18/11	12/18/11 4:27 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, or inconsistency in sample containers.

DHS ELAP Certification 1644

K\_\_\_QA/QC Officer