

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 14th 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 14th 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. This report presents analytical test results -- no regulated substances (petroleum hydrocarbons) were detected in the system effluent compliance point.

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.

1710 Franklin Street, Suite 200, Oakland, CA 94612 Telephone 510.836.3700 Facsimile 510.836.3709 www.pangeaenv.com

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: no regulated substances (petroleum hydrocarbons) were detected in the system effluent. 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 mgillies@pangeaenv.com or call me at (408) 910-1783.

Sincerely,
Pangea Environmental Services, Inc.



Morgan Gillies
Project Manager

ATTACHMENTS

Table 1 – GWE (DPE) System Performance Summary
Appendix A – Laboratory Analytical Report

Pangea

Table 1. GWE (DPE) System Performance Summary - 1230 14th Street, Oakland, California

Well ID	Date	Totalizer Reading (gallons)	Interval Flow Volume (gallons)	Interval Duration (days)	Average Flow Rate (gpm)	TPH _g Concentration (ug/L)	Benzene Concentration (ug/L)	MTBE Concentration (ug/L)	TPH _g Removed (Lbs)	Benzene Removed (Lbs)	MTBE Removed (Lbs)	Comments	
System Influent	03/03/11	251	251	0	---	960	120	ND (<5.0)	0.002	0.000	0.000	Startup water sampling of influent (3/7/11)	
	04/12/11	965	714	40	0.01	---	---	---	0.006	0.001	0.000	Off.	
	04/27/11	2,090	1,125	15	0.05	---	---	---	0.009	0.001	0.000	On.	
	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	3/7/2011**	---	---	---	---	ND (<50)	ND (<0.5)	ND (<5.0)	---	---	---	Startup water sampling of effluent
Effluent	12/14/2011**	---	---	---	---	ND (<50)	ND (<0.5)	ND (<5.0)	---	---	---		

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

ABBREVIATIONS AND NOTES:

gpm = Gallons per minute

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

TPH_g = 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

Toluene, 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 Toluene, Ethylbenzene and Total Xylenes non-detect (<0.5)

APPENDIX A

Laboratory Analytical Report



Analytical Report

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

McC Campbell Analytical Laboratories for your analytical needs.

Best regards,

Angela Rydelius
 Laboratory Manager
 McC Campbell Analytical, Inc.

The analytical results relate only to the items tested.

McC Campbell Analytical, Inc.

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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1112519

ClientCode: PEO

WaterTrax WriteOn EDF Excel Fax Email HardCopy ThirdParty J-flag

Report to:
 Morgan Gillies
 Pangea Environmental Svcs., Inc.
 1710 Franklin Street, Ste. 200
 Oakland, CA 94612
 (510) 836-3700 FAX: (510) 836-3709

Email: mgillies@pangeaenv.com

cc:

PO:

ProjectNo: #1150.001; 1230 14th St.

Bill to:
 Bob Clark-Riddell
 Pangea Environmental Svcs., Inc.
 1710 Franklin Street, Ste. 200
 Oakland, CA 94612

Requested TAT: **5 days**

Date Received: **12/16/2011**

Date Printed: **12/16/2011**

Lab ID	Client ID	Matrix	Collection Date	Hold	Requested Tests (See legend below)												
					1	2	3	4	5	6	7	8	9	10	11	12	
1112519-001	EFF-W	Water	12/14/2011 9:30	<input type="checkbox"/>	A	A											
1112519-002	INF-W	Water	12/14/2011 9:45	<input type="checkbox"/>	A												

Test Legend:

1	G-MBTEX_W	2	PREFD REPORT	3		4		5	
6		7		8		9		10	
11		12							

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 Environmental Svcs., Inc.**

Date and Time Received: **12/16/2011 4:38:37 PM**

Project Name: **#1150.001; 1230 14th St.**

Checklist completed and reviewed by: **Maria Venegas**

WorkOrder N°: **1112519** Matrix: Water

Carrier: Rob Pringle (MAI Courier)

Chain of Custody (COC) Information

Chain of custody present?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody signed when relinquished and received?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Chain of custody agrees with sample labels?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sample IDs noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Date and Time of collection noted by Client on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>
Sampler's name noted on COC?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>

Sample Receipt Information

Custody seals intact on shipping container/cooler?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Shipping container/cooler in good condition?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Samples in proper containers/bottles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sample containers intact?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Sufficient sample volume for indicated test?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

Sample Preservation and Hold Time (HT) Information

All samples received within holding time?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Container/Temp Blank temperature	Cooler Temp: 6.3°C		NA <input type="checkbox"/>
Water - VOA vials have zero headspace / no bubbles?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	No VOA vials submitted <input type="checkbox"/>
Sample labels checked for correct preservation?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	
Metal - pH acceptable upon receipt (pH<2)?	Yes <input type="checkbox"/>	No <input type="checkbox"/>	NA <input checked="" type="checkbox"/>
Samples Received on Ice?	Yes <input checked="" type="checkbox"/>	No <input type="checkbox"/>	

(Ice Type: WET ICE)

* NOTE: If the "No" box is checked, see comments below.

 Comments:



QC SUMMARY REPORT FOR SW8021B/8015Bm

W.O. Sample Matrix: Water

QC Matrix: Water

BatchID: 63389

WorkOrder: 1112519

EPA Method: SW8021B/8015Bm		Extraction: SW5030B					Spiked Sample ID: 1112499-001A			
Analyte	Sample	Spiked	MS	MSD	MS-MSD	LCS	Acceptance Criteria (%)			
	µg/L	µg/L	% Rec.	% Rec.	% RPD	% Rec.	MS / MSD	RPD	LCS	
TPH(btex) £	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.
 £ 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.