



RECEIVED

By Alameda County Environmental Health at 3:16 pm, Aug 06, 2013

July 10, 2013

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

Re: **Discharge Compliance Report – First Half 2013**
3093 Broadway, Oakland, California

Dear Ms. Borisova:

Pangea Environmental Services, Inc. (Pangea) has prepared this *Discharge Compliance Report – First Half 2013* for the subject site as specified in the Wastewater Discharge Permit #50650951 issued September 20, 2010. There were no operational changes to the system during this reporting period and no hazardous waste or carbon vessels were removed from the site during this reporting period. Totalizer readings and select analytical results are presented in Table 1. The laboratory analytical report for treatment system effluent is included in Appendix A.

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

ATTACHMENTS

Table 1 – GWE (DPE) System Performance Summary

Appendix A – Laboratory Analytical Report

PANGEA Environmental Services, Inc.

Pangea

Table 1. GWE (DPE) System Performance Summary - 3093 Broadway, Oakland, California

Well 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
System	04/15/11	40	40	0	--	---	---	---	0.000	0.000	0.000	Startup testing, water not discharged to sewer.
Influent	04/27/11	1,267	1,227	12	0.07	8,300	1,500	ND (<100)	0.085	0.015	0.000	Startup water sampling of influent
	05/05/11	7,858	6,591	8	0.57	---	---	---	0.455	0.082	0.000	System on
	05/29/11	36,261	28,403	24	0.82	---	---	---	1.960	0.354	0.000	On. Broken transfer pump
	06/03/11	39,361	3,100	5	0.43	---	---	---	0.214	0.039	0.000	System off. Restart
	07/06/11	94,837	55,476	33	1.17	---	---	---	3.829	0.692	0.000	System on
	07/11/11	94,837	0	5	0.00	---	---	---	0.000	0.000	0.000	On.
	07/14/11	97,337	2,500	3	0.58	---	---	---	0.173	0.031	0.000	Off. Restart.
	07/19/11	112,225	14,888	5	2.07	---	---	---	1.028	0.186	0.000	Off on arrival & departure. Blower malfunction.
	07/21/11	112,225	0	2	0.00	---	---	---	0.000	0.000	0.000	Off. Reset high temp control. Restart.
	07/28/11	142,936	30,711	7	3.05	---	---	---	2.120	0.383	0.000	On.
	08/01/11	155,689	12,753	4	2.21	---	---	---	0.880	0.159	0.000	On.
	08/08/11	175,705	20,016	7	1.99	---	---	---	1.382	0.250	0.000	On.
	08/18/11	204,566	28,861	10	2.00	---	---	---	1.992	0.360	0.000	On.
	09/01/11	220,420	15,854	14	0.79	---	---	---	1.094	0.198	0.000	Off. Restart system
	09/22/11	251,290	30,870	21	1.02	---	---	---	2.131	0.385	0.000	On.
	09/26/11	261,174	9,884	4	1.72	---	---	---	0.682	0.123	0.000	On.
	10/05/11	266,388	5,214	9	0.40	5,700	400	ND (<50)	0.247	0.017	0.000	On.
	10/10/11	276,750	10,362	5	1.44	---	---	---	0.491	0.034	0.000	Off. Restart.
	10/18/11	296,101	19,351	8	1.68	---	---	---	0.917	0.064	0.000	On.
	11/15/11	315,133	19,032	28	0.47	---	---	---	0.902	0.063	0.000	On.
	11/22/11	315,907	774	7	0.08	---	---	---	0.037	0.003	0.000	On.
	11/29/11	326,151	10,244	7	1.02	---	---	---	0.486	0.034	0.000	On.
	12/08/11	337,285	11,134	9	0.86	---	---	---	0.528	0.037	0.000	On.
	12/14/11	344,270	6,985	6	0.81	---	---	---	0.331	0.023	0.000	On.
	12/19/11	349,720	5,450	5	0.76	---	---	---	0.258	0.018	0.000	On. Turn off for QM event. Restart 12/20.
	12/22/11	351,767	2,047	3	0.47	---	---	---	0.097	0.007	0.000	On. Off at departure.
	01/16/12	382,493	30,726	25	0.85	---	---	---	1.456	0.102	0.000	On.
	01/26/12	405,236	22,743	10	1.58	12,000	330	ND (<500)	2.270	0.062	0.000	On. Shutdown for carbon changeout.
	02/18/12	405,237	22,744	33	0.48	---	---	---	2.270	0.062	0.000	Off. Restart.
	03/06/12	406,378	1,141	17	0.05	---	---	---	0.114	0.003	0.000	Off. Restart.
	03/14/12	406,627	249	8	0.02	2,700	35	ND (<50)	0.006	0.000	0.000	On.
	03/27/12	411,055	4,428	13	0.24	---	---	---	0.099	0.001	0.000	Off. Restart.
	03/29/12	419,143	8,089	2	2.81	---	---	---	0.182	0.002	0.000	On.
	04/04/12	438,857	19,713	6	2.28	---	---	---	0.443	0.006	0.000	On.
	04/11/12	464,211	25,354	7	2.52	---	---	---	0.569	0.007	0.000	On.
	04/20/12	487,971	23,760	9	1.83	---	---	---	0.533	0.007	0.000	On.
	05/04/12	520,526	32,555	14	1.61	---	---	---	0.731	0.009	0.000	On.
	05/23/12	530,295	9,770	19	0.36	15,000	170	ND (<50)	1.219	0.014	0.000	Off. Restart.
	06/05/12	532,663	2,368	13	0.13	---	---	---	0.295	0.003	0.000	Off. Restart.
	06/19/12	552,072	19,409	14	0.96	---	---	---	2.421	0.027	0.000	Off. Restart.
	07/05/12	569,188	17,116	16	0.74	---	---	---	2.135	0.024	0.000	On.
	07/19/12	578,546	9,358	14	0.46	---	---	---	1.167	0.013	0.000	On.
	08/07/12	590,297	11,751	19	0.43	5,800	100	ND (<50)	0.567	0.010	0.000	Off. Restart.
	08/26/12	634,340	44,044	19	1.61	---	---	---	2.124	0.037	0.000	On. Turn off for QM event.
	09/14/12	634,764	424	19	0.02	---	---	---	0.020	0.000	0.000	Off. Restart.
	10/04/12	650,875	16,111	20	0.56	---	---	---	0.777	0.013	0.000	Off. Leave off.
	02/06/13	651,506	631	125	0.00	---	---	---	0.030	0.001	0.000	Off. Resart DPE, leave AS off.
	02/15/13	679,080	27,574	9	2.13	---	---	---	1.330	0.023	0.000	On.
	03/01/13	701,730	22,650	14	1.12	---	---	---	1.092	0.019	0.000	On.

Pangea

Table 1. GWE (DPE) System Performance Summary - 3093 Broadway, Oakland, California

Well 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
	03/28/13	735,690	33,960	27	0.87	310	6.4	ND (<5.0)	0.088	0.002	0.000	On.
	04/11/13	750,310	14,620	14	0.73	---	---	---	0.038	0.001	0.000	On.
	04/17/13	752,027	1,717	6	0.20	---	---	---	0.004	0.000	0.000	Off. Restart.
	04/18/13	758,623	6,596	1	4.58	---	---	---	0.017	0.000	0.000	On.
	04/22/13	784,350	25,727	4	4.47	---	---	---	0.066	0.001	0.000	On.
	04/23/13	787,690	3,340	1	2.32	---	---	---	0.009	0.000	0.000	On.
	04/25/13	796,930	9,240	2	3.21	---	---	---	0.024	0.000	0.000	On.
	04/30/13	801,771	4,841	5	0.67	---	---	---	0.012	0.000	0.000	Off. Leave off.
	05/01/13	804,220	2,449	1	1.70	---	---	---	0.006	0.000	0.000	Off. Turn on.
	05/02/13	805,286	1,066	1	0.74	---	---	---	0.003	0.000	0.000	On.
	05/14/13	818,081	12,795	12	0.74	---	---	---	0.033	0.001	0.000	Off. Restart. Transfer pump slow; turn off.
	05/15/13	818,100	19	1	0.01	---	---	---	0.000	0.000	0.000	Off. Repair. Restart.
	05/30/13	832,100	14,000	15	0.65	3,800	21	ND (<50)	0.442	0.002	0.000	On.
	06/05/13	832,960	860	6	0.10	---	---	---	0.027	0.000	0.000	Off. Restart.
	06/10/13	833,868	1,768	11	0.11	---	---	---	0.056	0.000	0.000	Off. Shutdown system for QM in two weeks.
									44.995	4.016	0.000	Total Cumulative Removal (Lbs)*
System	07/06/11	---	---	---	---	ND (<50)	ND (<0.5)	ND (<5.0)	--	--	--	
Midpoint	10/05/11	---	---	---	---	ND (<50)	1.9	ND (<5.0)	--	--	--	
	01/26/12	---	---	---	---	95	13	ND (<5.0)	--	--	--	
	03/28/13	---	---	---	---	67	1.4	ND (<5.0)	--	--	--	
System	04/27/11	---	---	---	---	ND (<50)	ND (<0.5)	ND (<5.0)	---	---	---	Startup water sampling of effluent
Effluent**	07/06/11	---	---	---	---	ND (<50)	ND (<0.5)	ND (<5.0)	---	---	---	
	10/05/11	---	---	---	---	ND (<50)	ND (<0.5)	ND (<5.0)	---	---	---	
	01/26/12	---	---	---	---	ND (<50)	ND (<0.5)	ND (<5.0)	---	---	---	
	03/14/12	---	---	---	---	ND (<50)	0.52	ND (<5.0)	---	---	---	
	05/23/12	---	---	---	---	ND (<50)	ND (<0.5)	ND (<5.0)	---	---	---	
	03/28/13	---	---	---	---	ND (<50)	ND (<0.5)	ND (<5.0)	---	---	---	

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

ABBREVIATIONS AND NOTES:

gpm = Gallons per minute
 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
 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 ug/L)

Appendix A

Laboratory Analytical Report



Analytical Report

Pangea Environmental Svcs., Inc. 1710 Franklin Street, Ste. 200 Oakland, CA 94612	Client Project ID: #1005.001; Connell Auto	Date Sampled: 03/28/13
		Date Received: 03/28/13
	Client Contact: Morgan Gillies	Date Reported: 04/04/13
	Client P.O.: 3093 Broadway, Oakland, CA	Date Completed: 04/03/13

WorkOrder: 1303807

April 04, 2013

Dear Morgan:

Enclosed within are:

- 1) The results of the **3** analyzed samples from your project: **#1005.001; Connell Auto,**
- 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.

McCAMPBELL ANALYTICAL, INC.

1534 Willow Pass Road
Pittsburg, CA 94565

Website: www.mccampbell.com Email: main@mccampbell.com

Telephone: (925) 252-9262

Fax: (925) 252-9269

1303807

CHAIN OF CUSTODY RECORD

TURN AROUND TIME

RUSH
 24 HR
 48 HR
 72 HR
 5 DAY

EDF Required? Coef (Normal) No Write On (DW) No

Report To: Morgan Gillies Bill To: Pangea Analysis Request Other Comments

Company: Pangea Environmental Services, Inc.
1710 Franklin Street, Suite 200, Oakland, CA 94612
E-Mail: mgillies@pangeaenv.com
Tele: (510) 836-3700 Fax: (510) 836-3709
PO#: 3093 Broadway, Oakland, CA Project Name: Connell Auto
Project Location: 3093 Broadway, Oakland, Ca Project #: 1005.001
Sampler Signature: *[Signature]*

SAMPLE ID (Field Point Name)	LOCATION	SAMPLING		# Containers	Type Containers	MATRIX					METHOD PRESERVED				BTEX & TPH as gas (602.8020 + 8015)/MTBE	Analysis Request	Other	Comments
		Date	Time			Water	Soil	Air	Sludge	Other	ICE	HCL	HNO ₃	Other				
INF-W		3/28/13	12:30	3	VOA	X					X			X			Filter Samples for Metals analysis: Yes / No	
MID-W		↓	12:35	↓	↓	↓					↓		↓					
EFF-W		↓	12:40	↓	↓	↓					↓		↓					

Relinquished By: *[Signature]* Date: 3/28/13 Time: 2:45 Received By: *[Signature]*
 Relinquished By: *[Signature]* Date: 3/28/13 Time: 1:30 Received By: *[Signature]*
 Relinquished By: *[Signature]* Date: _____ Time: _____ Received By: _____

ICE/3.4
 GOOD CONDITION _____
 HEAD SPACE ABSENT _____
 DECHLORINATED IN LAB _____
 APPROPRIATE CONTAINERS _____
 PRESERVED IN LAB _____

COMMENTS: _____
 VOAS O&G METALS OTHER
 PRESERVATION pH<2



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

CHAIN-OF-CUSTODY RECORD

WorkOrder: 1303807

ClientCode: PEO

WaterTrax
 WriteOn
 EDF
 Excel
 EQuIS
 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; tdelafuente@pa
cc:
 PO: 3093 Broadway, Oakland, CA
 ProjectNo: #1005.001; Connell Auto

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

Requested TAT: **5 days**

Date Received: **03/28/2013**

Date Printed: **03/28/2013**

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	
1303807-001	INF-W	Water	3/28/2013 12:30	<input type="checkbox"/>	A	A											
1303807-002	MID-W	Water	3/28/2013 12:35	<input type="checkbox"/>	A												
1303807-003	EFF-W	Water	3/28/2013 12:40	<input type="checkbox"/>	A												

Test Legend:

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

Prepared by: Zoraida Cortez

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: **3/28/2013 3:59:56 PM**

Project Name: **#1005.001; Connell Auto**

LogIn Reviewed by: **Zoraida Cortez**

WorkOrder N°: **1303807** 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: 3.4°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: 76021

WorkOrder: 1303807

EPA Method: SW8021B/8015Bm		Extraction: SW5030B					Spiked Sample ID: 1303856-033A			
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	94.7	93.6	1.14	93.7	70 - 130	20	70 - 130	
MTBE	ND	10	97.8	80.5	19.4	83.9	70 - 130	20	70 - 130	
Benzene	ND	10	101	97.4	3.71	97.6	70 - 130	20	70 - 130	
Toluene	ND	10	102	98.8	3.39	97.9	70 - 130	20	70 - 130	
Ethylbenzene	ND	10	101	99.1	2.32	96.7	70 - 130	20	70 - 130	
Xylenes	ND	30	102	99.8	2.42	97.1	70 - 130	20	70 - 130	
%SS:	103	10	102	102	0	101	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 76021 SUMMARY

Lab ID	Date Sampled	Date Extracted	Date Analyzed	Lab ID	Date Sampled	Date Extracted	Date Analyzed
1303807-001A	03/28/13 12:30 PM	04/02/13	04/02/13 1:56 AM	1303807-002A	03/28/13 12:35 PM	04/03/13	04/03/13 3:33 AM
1303807-003A	03/28/13 12:40 PM	04/03/13	04/03/13 4:02 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.