



RECEIVED

By Alameda County Environmental Health at 11:51 am, Mar 25, 2013

January 24, 2013

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

Re: **Discharge Compliance Report – Second Half 2012**
3093 Broadway, Oakland, California

Dear Ms. Borisova:

Pangea Environmental Services, Inc. (Pangea) has prepared this *Discharge Compliance Report – Second Half 2012* 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.

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

PANGEA Environmental Services, Inc.

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

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.
									40.940	3.951	0.000	Total Cumulative Removal (Lbs)*

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	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)	--	--	--	
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)	---	---	---	

<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

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 µg/L)