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CITY OF SAN BERNARDINO
MUNICIPAL WATER DEPARTMENT

San Bernardino Municipal Water Department

Operations Monthly Treatment Report

Newmark OU / Towers / 19th St South GAC / 19th St North GAC

Reporting Period: Nov 2006

EPA 17th Street Plant

Production GAC Wells

EPA 003	174.885	AF

GAC Treatment

Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	44.796	230.397	1B	0.000	596.009
2A	38.526	220.203	2B	0.000	587.466
3A	99.302	371.198	3B	0.000	600.316
Totals	**182.624 AF**	**821.798 AF**		**0.000 AF**	**1783.791 AF**

Vessels			
TCE-In	0.5		
TCE-Out	0.0		
PCE-In	2.8		
PCE-Out	0.0		
Total	**3.3 ug/L**	**lbs Removed**	**1.64**

EPA South Plant and Waterman Towers

Production GAC Wells

EPA 002	202.909	
EPA 004	197.326	
EPA 005	215.363	
Total	**615.598 AF**	

Tower Wells		Wells		Towers	
Waterman	228.469	TCE+PCE-In	4.0	TCE+PCE-Out	0.0
30th St.	250.856	TCE+PCE-In	4.0	TCE+PCE-Out	0.0
South Total	**479.325 AF**				
Leroy	74.045	TCE+PCE-In	4.0	TCE+PCE-Out	0.0
31st St.	74.566	TCE+PCE-In	4.0	TCE+PCE-Out	0.0
North Total	**148.611 AF**				

GAC Treatment

Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	0.000	1075.898	1B	62.486	360.383
2A	0.000	1037.317	2B	99.575	477.113
3A	0.000	1071.177	3B	62.479	354.426
4A	0.000	1030.841	4B	62.573	347.724
5A	0.000	1045.364	5B	99.557	447.752
6A	0.000	583.778	6B	99.998	467.853
7A	0.000	836.614	7B	59.405	368.316
8A	0.000	972.046	8B	68.758	438.061
Totals	**0.000 AF**	**7653.035 AF**		**614.831 AF**	**3261.628 AF**

Vessels				Towers	
TCE-In	0.6			#'s Removed Waterman	2.48
TCE-Out	0.0			#'s Removed 30th St	2.73
PCE-In	1.9			#'s Removed Leroy	0.80
PCE-Out	0.0			#'s Removed 31st St	0.81
Total	**2.5 ug/L**	**lbs Removed**	**4.18**	**Total pounds Removed Tower**	**6.83**

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EPA North Plant and Newmark Towers

Production GAC Wells		Tower Wells					
		Newmark 1	4.458	TCE+PCE-In	0.5	TCE+PCE-Out	0.0
EPA 006	106.722	Newmark 4	7.309	TCE+PCE-In	0.5	TCE+PCE-Out	0.0
EPA 007	178.969	West Tower	11.767 AF				
NM3	121.382	Newmark 2	0.604	TCE+PCE-In	0.5	TCE+PCE-Out	0.0
Total	407.073 AF	East Total	0.604 AF				

GAC Treatment

Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	18.216	569.919	1B	27.853	27.853
2A	49.061	723.511	2B	38.613	38.613
3A	27.892	627.045	3B	21.240	21.240
4A	18.733	899.013	4B	30.415	30.415
5A	21.644	870.273	5B	27.218	27.218
6A	28.861	897.011	6B	20.817	20.817
7A	44.268	939.644	7B	34.897	34.897
Totals	208.675 AF	5526.416 AF		201.053 AF	201.053 AF

Vessels				Towers	
TCE-In	0.5			#'s Removed Newmark 1	0.01
TCE-Out	0.6			#'s Removed Newmark 4	0.01
PCE-In	2.4			#'s Removed Newmark 2	0.00
PCE-Out	1.0				
Total	1.3 ug/L	lbs Removed	1.45	Total pounds Removed Tower	0.02

19th Street South Plant

Production GAC Wells	
19th St 1	131.938
19th St 2	0.028 AF
Total	131.966 AF

GAC Treatment

Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	0.000	704.081	1B	34.254	448.035
2A	0.000	762.205	2B	33.427	336.472
3A	0.000	795.884	3B	34.415	261.889
4A	0.000	758.694	4B	33.338	280.179
Totals	0.000 AF	3020.864 AF		135.434 AF	1326.575 AF

Vessels			
TCE-In	0.0		
TCE-Out	0.0		
PCE-In	3.6		
PCE-Out	0.0		
Total	3.6 ug/L	lbs Removed	1.32

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EPA 19th Street North Plant

Production GAC Wells

EPA 1	198.329	AF
EPA 108	190.799	AF
EPA 109	181.651	AF
EPA 110	232.381	AF
EPA 111	295.962	AF
EPA 112	0.062	AF
Totals	**1099.184**	**AF**

GAC Treatment

Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	78.808	1852.349	1B	10.660	10.660
2A	87.800	1959.856	2B	3.512	3.512
3A	92.197	2116.429	3B	0.000	0.000
4A	77.142	1954.530	4B	10.611	10.611
5A	95.007	2143.925	5B	0.000	0.000
6A	85.934	2297.588	6B	3.487	3.487
7A	0.000	0.000	7B	0.000	0.000
8A	86.648	1813.024	8B	0.000	0.000
9A	89.332	1981.812	9B	0.000	0.000
10A	90.583	1971.824	10B	0.000	0.000
11A	84.320	1999.362	11B	0.000	0.000
12A	93.558	2194.378	12B	0.000	0.000
13A	92.771	2090.821	13B	0.000	0.000
14A	0.000	0.000	14B	0.000	0.000
Totals	**1054.100 AF**	**24375.898 AF**		**28.270 AF**	**28.270 AF**

Vessels	
TCE-In	0.8
TCE-Out	0.5
PCE-In	3.6
PCE-Out	0.6
Total	**3.3 ug/L**

lbs Removed **9.71**

Summary

Monthly	
Total AF Treated GAC	2424.987
Total AF Treated Towers	640.307
Combined AF Treated	**3065.294**
Total lbs Removed GAC	18.3
Total lbs Removed Towers	6.8
Combined Pounds Removed	**25.1**

Year to Date	
Total AF Treated GAC	29119.523
Total AF Treated Towers	7197.274
Combined AF Treated	**36316.797**
Total lbs Removed GAC	311.5
Total lbs Removed Towers	72.2
Combined Pounds Removed	**383.6**