

**APENDIX A**

**DHS MONTHLY TREATMENT REPORT**

# CITY OF SAN BERNARDINO MUNICIPAL WATER DEPARTMENT

## BOARD OF WATER COMMISSIONERS

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Director of Finance  
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Safety Program Manager

July 10, 2006

*"Trusted, Quality Service since 1905"*

Ms. Yen Tran  
Sanitary Engineer  
State Department of Health Services  
Drinking Water Field Operator Branch  
464 W. 4th Street, Suite 437  
San Bernardino, CA 92401

**RE: JUNE 2006 MONTHLY SUMMARY TREATMENT REPORTS FOR SYSTEM NO.  
3610039, WATER SUPPLY PERMIT NO. 03-13-99P-002**

Dear Ms. Tran:

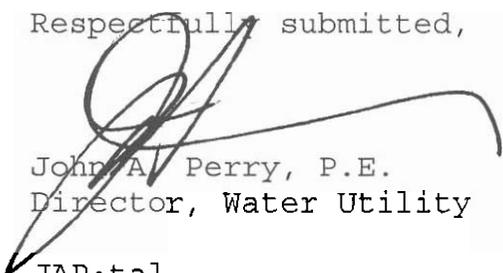
Enclosed are the monthly summary reports for each Granular Activated Carbon and Packed Tower Aeration facility. The required information is provided in two separate report formats: Information on well production, plant influent and effluent water flow, and amount of contaminant removed are covered in the June 2006 Operations Monthly Treatment Reports. Information on bacterial results and constituents of concern for each of the wells and treatment plants for the month of June 2006 is presented in the attached Water Quality Reports, Newmark OU/Towers/19th Street GAC.

It is my understanding the energy consumed for each is no longer of interest to DHS and is not required in the monthly reports.

Ms. Yen Tran  
Page 2  
July 10, 2006

Please contact me at (909) 384-5107 if additional information or modifications to the formats of the reports are desired.

Respectfully submitted,



John A. Perry, P.E.  
Director, Water Utility

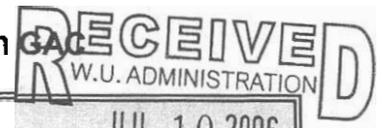
JAP:tal  
Attach.

cc: Kim Hoang, Ph.D. (e-mailed w/attach)  
Stacey R. Aldstadt (e-mailed w/attach)  
Robin Ohama (e-mailed w/attach)  
Mike Lowe (e-mailed w/attach)  
Matthew Litchfield (e-mailed w/attach)  
Valerie Housel (e-mailed w/attach)  
Susan Troy (e-mailed w/attach)  
Lana Kennerly (e-mailed w/attach)

# San Bernardino Municipal Water Department

## Operations Monthly Treatment Report

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



Reporting Period: Jun 2006

EPA 17th Street Plant					
<b>Production GAC Wells</b>					
EPA 003	200.700 AF				
<b>GAC Treatment</b>					
Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	0.000	0.000	1B	66.871	533.897
2A	0.000	0.000	2B	68.875	531.982
3A	0.000	0.000	3B	64.049	547.476
<b>Totals</b>	<b>0.000 AF</b>	<b>0.000 AF</b>		<b>199.795 AF</b>	<b>1613.355 AF</b>
<b>Vessels</b>					
TCE-In	0.8				
TCE-Out	0.0				
PCE-In	3.6				
PCE-Out	0.0				
<b>Total</b>	<b>4.4 ug/L</b>	<b>lbs Removed</b>	<b>2.39</b>		

EPA South Plant and Waterman Towers					
<b>Production GAC Wells</b>		<b>Tower Wells</b>	<b>Wells</b>	<b>Towers</b>	
EPA 002	212.004	Waterman	282.890	TCE+PCE-In	5.7 TCE+PCE-Out 0.0
EPA 004	207.865	30th St.	239.277	TCE+PCE-In	5.7 TCE+PCE-Out 0.0
EPA 005	220.629	<b>South Total</b>	<b>522.167 AF</b>		
<b>Total</b>	<b>640.498 AF</b>	Leroy	155.411	TCE+PCE-In	5.7 TCE+PCE-Out 0.0
		31st St.	89.461	TCE+PCE-In	5.7 TCE+PCE-Out 0.0
		<b>North Total</b>	<b>244.872 AF</b>		
<b>GAC Treatment</b>					
Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	56.699	1075.898	1B	32.135	32.135
2A	56.205	1037.317	2B	34.658	34.658
3A	64.249	1071.177	3B	27.803	27.803
4A	63.611	1030.841	4B	26.898	26.898
5A	77.617	1045.364	5B	11.986	11.986
6A	80.404	583.778	6B	12.378	12.378
7A	35.950	836.614	7B	6.905	6.905
8A	41.021	972.046	8B	7.913	7.913
<b>Totals</b>	<b>475.756 AF</b>	<b>7653.035 AF</b>		<b>160.676 AF</b>	<b>160.676 AF</b>
<b>Vessels</b>			<b>Towers</b>		
TCE-In	0.6		#s Removed Waterman	4.38	
TCE-Out	0.0		#s Removed 30th St	3.71	
PCE-In	2.2		#s Removed Leroy	2.41	
PCE-Out	0.0		#s Removed 31st St	1.39	
<b>Total</b>	<b>2.8 ug/L</b>	<b>lbs Removed</b>	<b>4.84</b>	<b>Total pounds Removed Tower</b>	<b>11.88</b>

**San Bernardino Municipal Water Department  
Operations Monthly Treatment Report  
Newmark OU / Towers / 19th St South GAC / 19th St North GAC**

Reporting Period: Jun 2006

EPA North Plant and Newmark Towers					
Production GAC Wells		Tower Wells			
		Newmark 1	59.052	TCE+PCE-In 0.5	TCE+PCE-Out 0.0
EPA 006	116.915	Newmark 4	184.472	TCE+PCE-In 0.5	TCE+PCE-Out 0.0
EPA 007	183.636	West Tower 243.524 AF			
NM3	124.461	Newmark 2	86.910	TCE+PCE-In 0.5	TCE+PCE-Out 0.0
<b>Total</b>	<b>425.012 AF</b>	<b>East Total</b>	<b>86.910 AF</b>		

**GAC Treatment**

Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	34.538	372.319	1B	0.000	0.000
2A	35.744	448.535	2B	0.000	0.000
3A	33.136	425.240	3B	0.000	0.000
4A	82.645	598.603	4B	0.000	0.000
5A	81.809	590.980	5B	0.000	0.000
6A	81.527	600.145	6B	0.000	0.000
7A	81.575	569.722	7B	0.000	0.000
<b>Totals</b>	<b>430.974 AF</b>	<b>3605.544 AF</b>		<b>0.000 AF</b>	<b>0.000 AF</b>
<b>Vessels</b>			<b>Towers</b>		
TCE-In	0.5		#s Removed Newmark 1		0.08
TCE-Out	0.0		#s Removed Newmark 4		0.25
PCE-In	3.0		#s Removed Newmark 2		0.12
PCE-Out	0.0				
<b>Total</b>	<b>3.5 ug/L</b>	<b>lbs Removed 4.10</b>	<b>Total pounds Removed Tower</b>		<b>0.45</b>

**19th Street South Plant**

19th Street South Plant					
Production GAC Wells					
19th St 1	127.642				
19th St 2	11.265 AF				
Mt Vernon	11.961				
<b>Total</b>	<b>150,868 AF</b>				
GAC Treatment					
Vessel	Monthly Treated	Total Since Change-out	Vessel	Monthly Treated	Total Since Change-out
1A	0.000	704.081	1B	59.401	171.518
2A	0.000	762.205	2B	36.205	137.813
3A	0.000	795.884	3B	23.030	111.378
4A	0.000	758.694	4B	23.221	128.187
<b>Totals</b>	<b>0,000 AF</b>	<b>3020.864 AF</b>		<b>141.857 AF</b>	<b>548.896 AF</b>
<b>Vessels</b>					
TCE-In	0.5				
TCE-Out	0.0				
PCE-In	3.0				
PCE-Out	0.0				
<b>Total</b>	<b>3.5 ug/L</b>	<b>lbs Removed 1.35</b>			

**San Bernardino Municipal Water Department**  
**Operations Monthly Treatment Report**  
**Newmark OU / Towers / 19th St South GAC / 19th St North GAC**

Reporting Period: Jun 2006

EPA 19th Street North Plant					
<b>Production GAC Wells</b>					
EPA 1	201.063 AF				
EPA 108	197.309 AF				
EPA 109	202.507 AF				
EPA 110	205.211 AF				
EPA 111	322.062 AF				
EPA 112	205.760 AF				
<b>Totals</b>	<b>1333.912 AF</b>				
<b>GAC Treatment</b>					
<b>Vessel</b>	<b>Monthly Treated</b>	<b>Total Since Change-out</b>	<b>Vessel</b>	<b>Monthly Treated</b>	<b>Total Since Change-out</b>
1A	106.520	1371.628	1B	0.000	0.000
2A	113.207	1429.437	2B	0.000	0.000
3A	116.653	1587.681	3B	0.000	0.000
4A	111.510	1486.910	4B	0.000	0.000
5A	115.369	1618.723	5B	0.000	0.000
6A	106.487	1815.219	6B	0.000	0.000
7A	0.000	0.000	7B	0.000	0.000
8A	103.523	1344.224	8B	0.000	0.000
9A	105.215	1476.260	9B	0.000	0.000
10A	107.507	1453.719	10B	0.000	0.000
11A	107.594	1505.838	11B	0.000	0.000
12A	119.938	1680.183	12B	0.000	0.000
13A	109.555	1548.657	13B	0.000	0.000
14A	0.000	0.000	14B	0.000	0.000
<b>Totals</b>	<b>1323.078 AF</b>	<b>18318.479 AF</b>		<b>0.000 AF</b>	<b>0.000 AF</b>
<b>Vessels</b>					
TCE-In	0.8				
TCE-Out	0.0				
PCE-In	4.0				
PCE-Out	0.0				
<b>Total</b>	<b>4.8 ug/L</b>	<b>lbs Removed</b>	<b>17.26</b>		

<b>Summary</b>		<b>Year to Date</b>	
<b>Monthly</b>			
<b>Total AF Treated GAC</b>	2732.136	<b>Total AF Treated GAC</b>	16041.044
<b>Total AF Treated Towers</b>	1097.473	<b>Total AF Treated Towers</b>	1632.627
<b>Combined AF Treated</b>	<b>3829.609</b>	<b>Combined AF Treated</b>	<b>17673.671</b>
<b>Total lbs Removed GAC</b>	29.9	<b>Total lbs Removed GAC</b>	177.0
<b>Total lbs Removed Towers</b>	12.3	<b>Total lbs Removed Towers</b>	21.6
<b>Combined Pounds Removed</b>	<b>42.3</b>	<b>Combined Pounds Removed</b>	<b>198.6</b>

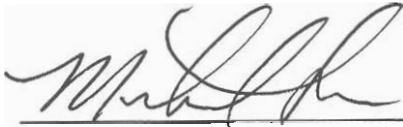
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JUL 10 2006

CITY OF SAN BERNARDINO  
MUNICIPAL WATER DEPARTMENT

**EPA  
PRODUCTION WELL RUN TIME  
Jun-06**

**June Total 720 Hours**

<b>Well</b>	<b>Total Run Hours</b>
EPA 001	718
EPA 002	720
EPA 003	720
EPA 004	720
EPA 005	720
EPA 006	719
EPA 007	719
EPA 108	717
EPA 109	717
EPA 110	692
EPA 111	718
EPA 112	718
NEWMARK 3	718



MICHAEL LOWE  
Water Utility  
Operations Superintendent

cc: John Perry  
Matt Litchfield  
dbane@URSGREINER.com

**San Bernardino Municipal Water Department Water Quality Monthly Report**  
**Newmark OU/Towers/19th St GAC/Muscoy OU**  
**Month of June 2006**

Waterman GAC Treatment Plant	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	Week 1-6/01/06		Week 2-6/07/06		Week 3-6/15/06		Week 4-6/22/06		Week 5-6/29/06		NO <sub>3</sub> (mg/L)
						PCE (ug/L)	TCE (ug/L)									
EPA 002	6/7/2006	A			<1.0											
EPA 004	6/7/2006	A			<1.0											
EPA 005	6/7/2006	A			<1.0											
Combined Influent	6/7/2006							2.1	0.6							
LEAD VESSEL 1A	6/7/2006		<1.1	<1.1	<1.0	2.4	0.9	2.6	0.9	2.9	1.0	NM	NM	NM	NM	
LEAD VESSEL 2A	6/7/2006		<1.1	<1.1	<1.0	2.1	0.8	2.2	0.8	2.4	0.9	NM	NM	NM	NM	
LEAD VESSEL 3A	6/7/2006		<1.1	<1.1	1.5	2.6	0.9	2.6	0.8	2.6	0.8	NM	NM	NM	NM	
LEAD VESSEL 4A	6/7/2006		<1.1	<1.1	<1.0	2.5	0.8	2.6	0.8	2.7	0.8	NM	NM	NM	NM	
LEAD VESSEL 5A	6/7/2006		<1.1	<1.1	<1.0	2.6	0.9	2.7	0.8	2.8	0.9	3.1	0.9	NM	NM	
LEAD VESSEL 6A	6/7/2006		<1.1	<1.1	1.0	2.9	1.0	2.9	0.95	3.0	0.9	3.4	1.0	NM	NM	
LEAD VESSEL 7A	6/7/2006		<1.1	<1.1	<1.0	3.3	1.1	3.4	1.1	3.7	1.2	3.9	1.3	NM	NM	
LEAD VESSEL 8A	6/7/2006		<1.1	<1.1	<1.0	3.2	1.2	3.3	1.1	3.7	1.1	4.1	1.3	NM	NM	
Combined Effluent	6/7/2006		<1.1	<1.1	1.5	0.6	0.6	0.5	0.7	0.5	0.7	0.6	0.7	<0.5	<0.5	

Newmark GAC Treatment Plant	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	Week 1-6/01/06		Week 2-6/07/06		Week 3-6/15/06		Week 4-6/22/06		Week 5-6/29/06		NO <sub>3</sub> (mg/L)
						PCE (ug/L)	TCE (ug/L)									
EPA 006	6/7/2006	A			1.0											
EPA 007	6/7/2006	A			1.0											
Newmark Well 03	6/7/2006	A			1.0											
Combined Influent	6/7/2006							2.8	<0.5							
LEAD VESSEL 1A	6/7/2006		<1.1	<1.1	1.0	NM	NM	2.0	0.8	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 2A	6/7/2006		<1.1	<1.1	<1.0	NM	NM	3.3	0.7	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 3A	6/7/2006		<1.1	<1.1	<1.0	NM	NM	1.6	0.7	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 4A	6/7/2006		<1.1	<1.1	<1.0	NM	NM	1.6	<0.5	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 5A	6/7/2006		<1.1	<1.1	<1.0	NM	NM	2.0	<0.5	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 6A	6/7/2006		<1.1	<1.1	<1.0	NM	NM	1.5	<0.5	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 7A	6/7/2006		<1.1	<1.1	1.0	NM	NM	1.3	0.6	NM	NM	NM	NM	NM	NM	
Combined Effluent	6/7/2006		<1.1	<1.1	1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	

17th Street GAC Treatment Plant	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	Week 1-6/01/06		Week 2-6/07/06		Week 3-6/15/06		Week 4-6/22/06		Week 5-6/29/06		NO <sub>3</sub> (mg/L)
						PCE (ug/L)	TCE (ug/L)									
EPA 003	6/7/2006	A			1.0											
Combined Influent	6/7/2006							3.6	0.8							
LEAD VESSEL 1B	6/7/2006		<1.1	<1.1	1.0	2.8	1.1	3.0	1.0	3.2	1.0	3.4	1.1	3.7	1.1	
LEAD VESSEL 2B	6/7/2006		<1.1	<1.1	<1.0	2.7	1.0	2.8	1.0	2.9	1.0	3.5	1.2	3.6	1.3	
LEAD VESSEL 3B	6/7/2006		<1.1	<1.1	<1.0	2.9	1.1	3.1	1.0	3.3	1.1	3.9	1.2	3.6	1.2	
Combined Effluent	6/7/2006		<1.1	<1.1	1.0	<0.5	0.7	<0.5	0.7	<0.5	0.6	0.6	0.8	0.8	0.7	

19th Street SOUTH GAC Treatment Plant	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	Week 1-6/01/06		Week 2-6/07/06		Week 3-6/15/06		Week 4-6/22/06		Week 5-6/29/06		NO <sub>3</sub> (mg/L)
						PCE (ug/L)	TCE (ug/L)									
19th Street Well 01	6/7/2006	A			1.0											
19th Street Well 02	6/7/2006	A			2.5											
Combined Influent	6/7/2006							3.4	<0.5							
LEAD VESSEL 1B	6/7/2006		<1.1	<1.1	1.0	NM	NM	1.6	<0.5	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 2B	6/7/2006		<1.1	<1.1	1.5	NM	NM	1.2	<0.5	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 3B	6/7/2006		<1.1	<1.1	1.0	NM	NM	1.0	<0.5	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 4B	6/7/2006		<1.1	<1.1	<1.0	NM	NM	1.3	0.5	NM	NM	NM	NM	NM	NM	
Combined Effluent	6/7/2006	A			7.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	

**San Bernardino Municipal Water Department Water Quality Monthly Report  
Newmark OU/Towers/19th St GAC/Muscoy OU  
Month of June 2006**

19th Street NORTH GAC Treatment Plant	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	Week 1-6/01/06		Week 2-6/07/06		Week 3-6/15/06		Week 4-6/22/06		Week 5-6/29/06		NO <sub>3</sub> (mg/L)
						PCE (ug/L)	TCE (ug/L)									
EPA 001	6/7/2006	A			3.0											
EPA 108	6/7/2006	A			6.0											
EPA 109	6/7/2006	A			4.5											
EPA 110	6/7/2006	A			1.0											
EPA 111	6/7/2006	A			<1.0											
EPA 112	6/7/2006	A			2.5											
Combined Influent	6/7/2006							3.6	0.7							
LEAD VESSEL 1A	6/7/2006		<1.1	<1.1	<1.0	NM	NM	1.2	<0.5	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 2A	6/7/2006		<1.1	<1.1	<1.0	NM	NM	1.3	0.5	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 3A	6/7/2006		<1.1	<1.1	<1.0	NM	NM	1.6	0.6	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 4A	6/7/2006		<1.1	<1.1	1.0	NM	NM	1.5	0.6	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 5A	6/7/2006		<1.1	<1.1	<1.0	NM	NM	1.6	0.6	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 6A	6/7/2006		<1.1	<1.1	<1.0	NM	NM	1.5	0.6	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 8A	6/7/2006		<1.1	<1.1	1.5	NM	NM	0.8	<0.5	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 9A	6/7/2006		<1.1	<1.1	1.0	NM	NM	1.1	0.5	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 10A	6/7/2006		<1.1	<1.1	1.5	NM	NM	1.6	0.6	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 11A	6/7/2006		<1.1	<1.1	<1.0	NM	NM	1.6	0.6	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 12A	6/7/2006		<1.1	<1.1	1.0	NM	NM	1.7	0.6	NM	NM	NM	NM	NM	NM	
LEAD VESSEL 13A	6/7/2006		<1.1	<1.1	<1.0	NM	NM	1.2	0.5	NM	NM	NM	NM	NM	NM	
Combined Effluent	6/7/2006		<1.1	<1.1	<1.0	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	<0.5	

Waterman Stripping Towers	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	PCE	TCE	TB	FB
Waterman Combined Tower Influent	6/6/2006					4.9	0.8	<0.5	<0.5
Waterman N. Tower Effluent	6/6/2006	A			<1.0	<0.5	<0.5	<0.5	<0.5
Waterman S. Tower Effluent	6/6/2006	A			1.5	<0.5	<0.5	<0.5	<0.5

Newmark Stripping Towers	DATE	Colilert P/A	MPN Total	MPN Fecal	HPC	PCE	TCE	TB	FB
Newmark W. Tower Influent	6/6/2006					<0.5	<0.5	<0.5	<0.5
Newmark W. Tower Effluent	6/6/2006	A			1.0	<0.5	<0.5	<0.5	<0.5
Newmark E. Tower Influent	6/6/2006					<0.5	<0.5	<0.5	<0.5
Newmark E. Tower Effluent	6/6/2006	A			140.0	<0.5	<0.5	<0.5	<0.5

**NOTE:** If any VOC contaminant is detected in the Towers' Effluent Samples, the laboratory report(s) will be attached for DHS review.

NM = Not Monitored

