

8 September 2023

Mr. Scott Sokolowski Remedial Project Manager Naval Facilities Engineering Systems Command, Mid-Atlantic 9324 Virginia Avenue, Building Z-144 Norfolk, VA 23511-3095

Subject: August 2023 Monthly Operating Report

Full Scale Liquid-Phase Granular Activated Carbon Treatment System

Liberty New York Water, Seamans Neck Road Water Plant

NWIRP Bethpage, New York

Contract No. N40085-16-D-2288, Task Order N4008518F5125

Dear Mr. Sokolowski,

The Full Scale Liquid-Phase Granulated Activated Carbon (GAC) Treatment System is located at the Liberty New York Water (LNYW) Seamans Neck Road Water Plant in Levittown, NY. The GAC System was installed at the effluent of the potable water plant and consists of six GAC vessels operating in parallel to remove low levels of trichloroethene (TCE) from Well No. 3S and Well No. 4S. After processing through the GAC units, the water is treated with sodium hypochlorite and sodium tripolyphosphate before distribution. Startup of the GAC Treatment System occurred on 8 January 2015 by CH2MHill. KOMAN Government Solutions, LLC (KGS) began operation and maintenance (O&M) activities in March 2015.

In May 2018, production Well No. 3S was decommissioned and has been replaced with a new production well designated as Well No. 3A. Well No. 4S is normally in operation during the entire month, while well No. 3A is operated infrequently, typically during the periods of higher water demand.

On 30 January 2023, the plant was taken off-line by Liberty Utilities to support rehabilitation of the iron filtration plant. The plant remained off-line until 4 May 2023, at which time the plant resumed normal operation.

This report documents the routine operation and maintenance of the GAC System performed during the month of August 2023. **Attachment 1** presents the field logs detailing system operating data as recorded during the month. These readings include flow rate and total flows of the overall GAC System and each GAC unit, pressures across the GAC System, effluent chlorine residual and pH values, chemical usage levels of sodium hypochlorite and sodium tripolyphosphate for each chemical tank, and chemical metering pump settings and pressures.

A summary of the system operating data recorded in August 2023 is presented below in **Table 1**.

Table 1 - System Operating Data for August 2023

Date	Total Flow	Flow Rate	Influent Pressure	Effluent Pressure	Differential Pressure	Effluent Chlorine Residual	Effluent pH
	(Gallons)	(GPM)	(PSI)	(PSI)	(PSI)	(mg/L) ⁽¹⁾	(SU) ⁽¹⁾
8/1/2023	8,760,789,000	1,700	52	48	3.8	2.08 read 2.05 manual	7.22 read
8/2/2023	8,763,895,000	1,700	46	43	3.8	2.04 read 2.07 manual	7.31 read
8/3/2023	8,766,432,000	3,420	67	57	10.4	2.02 read 2.00 manual	7.20 read
8/4/2023	8,771,181,000	1,700	49	45	3.7	1.68 read 1.69 manual	7.24 read
8/7/2023	8,779,003,000	1,700	75	80	4.2	1.75 read 1.75 manual	7.05 read
8/8/2023	8,781,512,000	1,700	75	71	4.1	1.75 read 1.73 manual	7.07 read
8/9/2023	8,784,592,000	1,700	57	52	4.3	1.95 read 1.97 manual	7.11 read
8/10/2023	8,787,158,000	1,650	54	51	3.9	2.01 read 2.00 manual	7.09 read
8/11/2023	8,789,734,000	1,700	62	58	3.8	1.21 read 1.22 manual	7.11 read
8/14/2023	8,798,633,000	2,750	94	85	9.0	1.44 read 1.41 manual	7.12 read
8/15/2023	8,801,131,000	1,700	60	57	3.6	1.87 read 1.85 manual	7.15 read
8/16/2023	8,804,575,000	1,700	65	61	3.9	1.67 read 1.65 manual	7.13 read
8/17/2023	8,807,516,000	1,700	54	50	3.9	1.77 read 1.75 manual	7.12 read
8/18/2023	8,807,516,000	3,200	80	70	9.9	1.64 read 1.65 manual	7.10 read
8/21/2023	8,818,962,000	1,700	43	40	3.9	1.97 read 1.95 manual	7.14 read
8/22/2023	8,822,132,000	1,650	50	47	3.3	1.90 read 1.90 manual	7.14 manual
8/23/2023	8,824,882,000	1,600	45	42	3.3	1.99 read 2.02 manual	7.14 read
8/24/2023	8,827,448,000	3,375	69	60	10.8	1.79 read 1.78 manual	7.09 read
8/25/2023	8,830,673,000	1,650	47	43	3.9	1.59 read 1.60 read	7.08 manual
8/28/2023	8,839,481,000	3,200	85	75	9.8	1.95 read 1.93 manual	7.02 read
8/29/2023	8,842,385,000	1,650	78	74	3.8	1.87 read 1.85 manual	7.05 read
8/30/2023	8,845,349,000	1,750	53	49	3.9	1.94 read 1.92 manual	7.07 read
8/31/2023	8,851,006,000	1,650	79	75	4.1	1.62 read 1.63 manual	7.05 read

Effluent pH and chlorine residual readings are recorded by the in-line pH meter and chlorine analyzer. Chlorine is also checked with a manual chlorine residual meter for comparison, while manual pH is only checked occasionally. Both in-line and manual readings are presented, if collected, as noted above.

Figure 1 illustrates the volume of water treated by the GAC System since system startup, with the increment for the month of August 2023. Over 90.2 million gallons of water were treated in July 2023, bringing the total cumulative volume of water treated since startup to over 8.85 billion gallons.

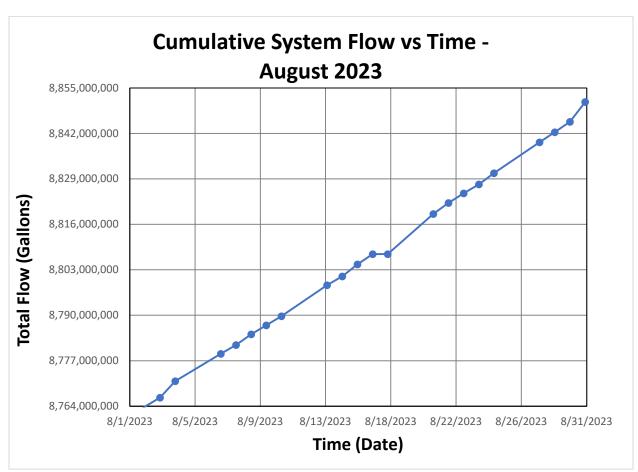


Figure 1 - Volume of Water Treated through Full Scale GAC System (August 2023)

In general, differential pressure increases as the system continues to operate, and decreases after a backwashing event. The increasing trend then continues until the next backwashing event is performed. Also, lower differential pressures are observed during times of low water demand (e.g., typically over the winter months). **Figure 2,** below, depicts the pressure loss across the GAC System and subsequent backwashing dates, from September 2022 through the current reporting period.

Backwashing events during the summer and fall are performed more often because of the higher demand during that time of year. The exchange of carbon in each of the six GAC vessels with virgin coconut shell carbon was most recently completed in August 2020 and the Seamans Neck Road facility is able to operate at full capacity. In support of the 2020 Fourth Quarter

microbiological (MIC) sampling conducted in December 2020, it was identified that each vessel required additional backwashing and/or flushing prior to returning to service to address a colored water issue attributable to the remobilization of iron-impacted materials released when flow through the vessels was stopped for a mandatory 12-hour period prior to bacteria sampling, per Nassau County Department of Health (NCDH) requirements. The additional backwashing and flushing events were incorporated into the standard process for bacteria sampling. However, with the recently completed rehabilitation of the Liberty Utilities iron filtration plant, it is anticipated that additional backwashing will be limited or no longer required.

The facility is operating at full design capacity and pressure loss across the overall GAC System is monitored regularly, and it is expected that backwashing events will occur on a periodic basis as needed. In addition, it is expected that backwashing of each vessel will be conducted following each quarterly bacteria sampling event to address potential colored water issues and to ensure the timely return to service for each vessel.

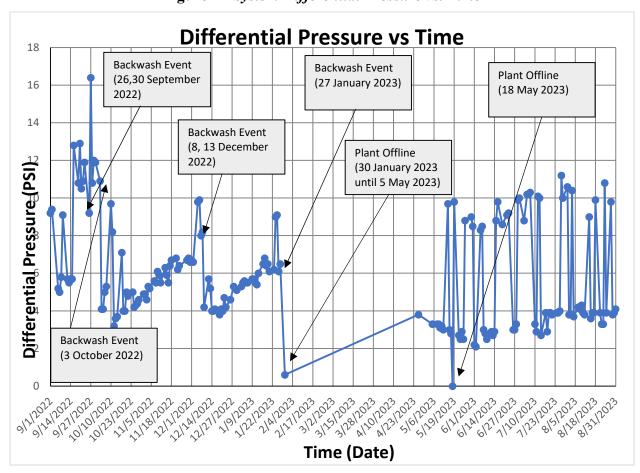


Figure 2 - System Differential Pressure vs. Time

System Maintenance

Routine maintenance of the GAC System during this reporting period consisted of:

- General monitoring of the system flow rates, totalized flows, influent and effluent pressures, differential pressure, chlorine residual, and pH readings.
- Changing paper for the chlorine/pH chart recorder and flow/differential pressure chart recorder on a weekly basis.
- Calibration of the pH meter on a weekly basis.
- Periodic operation of Well 3A in place of or concurrently with Well 4S occurs on an irregular schedule; Well 3A operated concurrently with Well 4S on 3 August, 14 August, 18 Augst, 24 August, and 28 August. Well 3A ran in place of Well 4S on 15 August.

In addition, the following non-routine activities or operation issues occurred during the August 2023 reporting period:

• On 6 August, the smoke alarm in the treatment room activated. No apparent issue; alarm was reset and has been operating correctly.

Please contact me at 610-400-0636 or <u>rgregory@komangs.com</u> with any questions or concerns regarding this report.

Sincerely,

KOMAN Government Solutions, LLC

Robert G. Gregory
Project Manager

Cc: C. Shukis - NAVFAC

V. Varricchio - NWIRP Bethpage Facilities Management

R. Kern - LNYW

N. Niola – LNYW

J. Palmer - LNYW

P. Schauble - KGS

R. Hoffmaster – KGS

D. Brayack - Tetra Tech

R. Moore - Tetra Tech

J. Pelton – NYSDEC

K. Granzen – NYSDEC

M. Travis – NYSDEC

ATTACHMENT 1 O&M LOGS – AUGUST 2023

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System Efficient Procure	P8I	48	0.5	57	78	85	52
System Differential Pressure	Pal	39	4.0	11.2	10.0.	.75	48
Chilerino Assignor: Proc Chilerino Recident - Infine	PPM	1.65	1.41	1.58	1.55	10.6	3.8
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Tank 300 Flow Rule	QF83	250	500	250	250	250	250
Tank 400 Play Rate	OP10	250	550	300	250	150	250
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System Efficient Proceure	Pal	43	57	45	50	75	57
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Tank 400 Flow Roto	GP10	250	300	450	250	250	250
Tenk 669 Flow Rate	0010	250	250	500	· 300	250	250
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Tank 300 Flow Rate	Gru	550	250	250	250	600	250
Tent 490 Flow Rate	eru	550	250	250	256	550	250
Tenk 669 Flow Rate	920	550	300	250	. 250	550	250
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System Efficant Preseure	Pal	70	40	47	42	60	4/3
System Differential Pressure	Pol	9.9	3.9	7.3	33.	10.8	.3.9
Chierino Analyser: Free Chierino Realdeal - Inline	FPM	1.64	1.97	1-90	199	1.79	1.59
(Silisant Winter pil - Inline	Units	7.10	7.14	7.14	7.14	709	7.08
Lilanual Chiarino Reading for: Hash 100	PPM	1.65	1.95	1.90	2.02	1.78	1-60
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	New Year	Granuk	Daily Re ar Activated Carl		System		
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Tenti Digita Homostidentite Level	Oullann	182	109	15.3	153	150	143
Hypodderito Level	Calleng	153	81	155	155	155	153
Tank PRIA Polyalkopskysia Lovel	Octions	32	32	122	121	125	121
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Tent: 160 Plear Name	eru	500			OW		
Tonk 200 Flow Rado	eru	500	250	250	250		
Tank 300 Flow Rodo	Ores	330	250	250	250		i dina di sue i
Tent 400 Flow Rate	00-00	500	250	250	250		
Tenk 989 Flow Rate	970	530	300	300	250		
Test 600 Flow Ruse	GPU	450	300	300	.300		
Total 169 Total Play	Callons	-	The same of the sa	200 .	- 200		
Tank 200 Yelsi Flow	College	72 777	21289,000	21,884,000	32,440,000	in the same	938 HT 1.364
Tent: 500 Total Flow	Bellens	76,791,02	13910 000	74,391,000	7491,000		
Tenk 400 Total Flow	Gellons	16371,000	18/18,000	79 708,000			
Tenk 600 Total Flow	GeSeno	The state of the s	14 145,000	185,000	17 78700		
Took 668 Total Flow	Gallons	3260000	200,483,000	65,878,000	09,360,000		
Gyatem Influent Procesure	PSI	\$5		RZ 760,000	33,744,000		
System Efficient Procesure	Par	70	78	53	79		
System Differential Pressure	Po	9.8	74	49	75		
Shierino Analyzor: Pres Chierino Rosidani - Inlino	PPM	1.8	3.8	3,9	4.1.		
Efficient Wester pil - Indino	Utelto	7.02	7.87	1.94	1,62		
Manual Chiarine Reading (as: Heek Kin	PPOR C	1.93	7.05	7.07	7.05		
Manuel pH abook (as: Homae)	Unite		1.03	1.9.2	1.63		

Doilly Readings Granuler Activated Carbon Treatment System										
Coppleton	Charles	8 28 2023	8292023	5302027	831-2023					
Test 800A (Associated Lored	Callen	28	152	97	156					
Tenk 0000 Physiolderite Level	Oullens	143	155	155	155					
Ithmochilatio Lores Took (Math Himochilatio Love) Track (MAC) Hemochilatio Love)	Calliano	153	153	153	153					
Asset Bank	Octor	131	103	145	124					
Polyalisacingly Lord Tapic String Polyalisacing Lord	Cellons	-26	36	160	160					
Makadag Paraja 866A: magaileria Gadgad Parama	Pen									
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