

4 October 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: September 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. 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 September 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.

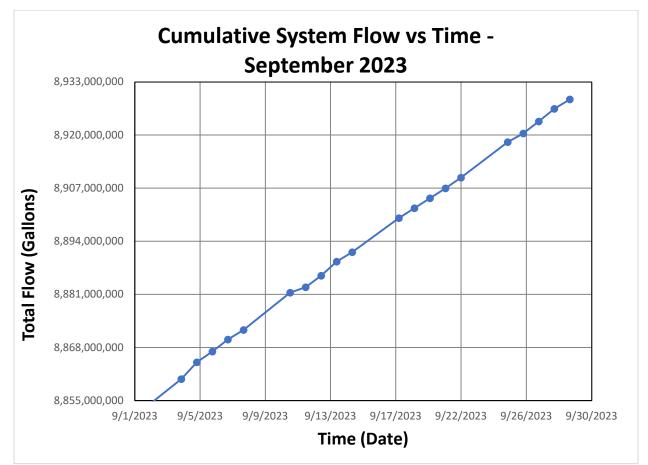
A summary of the system operating data recorded in September 2023 is presented below in **Table 1**.

Table 1 - System Operating Data for September 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⁾
9/1/2023	8,851,172,000	3,250	89	79	9.8	1.98 read 1.99 manual	7.07 read
9/4/2023	8,860,266,000	3,300	88	78	10.2	1.91 read 1.93 manual	7.09 read
9/5/2023	8,864,366,000	1,700	78	74	3.9	1.81 read 1.80 manual	7.14 read
9/6/2023	8,866,992,000	3,250	85	74	10.4	1.94 read 1.93 manual	7.14 read
9/7/2023	8,869,927,000	1,650	58	53	4.3	1.82 read 1.84 manual	7.15 read
9/8/2023	8,872,312,000	3,300	60	49	11.0	1.91 read 1.89 manual	7.13 read
9/11/2023	8,881,439,000	1,650	82	78	4.2	1.87 read 1.85 manual	7.14 read
9/12/2023	8,882,738,000	2,800	95	87	8.4	1.90 read 1.92 manual	7.01 read
9/13/2023	8,885,562,000	1,500	68	65	3.3	1.89 read 1.91 manual	7.06 read
9/14/2023	8,889,038,000						
9/15/2023	8,891,329,000						
9/18/2023	8,899,669,000	1,600	65	62	3.8	1.71 read 1.73 manual	7.01 read
9/19/2023	8,902,122,000	1,600	64	56	6.4	1.73 read 1.74 manual	6.89 read
9/20/2023	8,904,550,000					1.69 read 1.67 manual	6.76 read
9/21/2023	8,906,978,000	3,250	58	49	9.3	1.91 read 1.93 manual	6.87 read
9/22/2023	8,909,595,000	3,350	60	52	8.7	1.87 read 1.88 manual	6.98 read
9/25/2023	8,918,273,000	1,650	71	64	8.0	1.98 read 1.96 manual	6.98 read
9/26/2023	8,920,413,000	1,600	53	50	3.1	1.87 read 1.85 manual	6.93 read
9/27/2023	8,923,333,000	2,000	71	66	5.5	1.69 read 1.71 manual	6.66 read
9/28/2023	8,926,436,000	1,700	80	78	2.7	1.67 read 1.65 manual	6.58 read
9/29/2023	8,928,758,000	1,650	63	61	2.8	1.66 read 1.68 manual	6.82 read

(1) 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 September 2023. Over 80.2 million gallons of water were treated in September 2023, bringing the total cumulative volume of water treated since startup to over 8.92 billion gallons.

Figure 1 - Volume of Water Treated through Full Scale GAC System (September 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 October 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 plant is able to operate at full capacity.

Previously identified high iron loading in the GAC vessels has been alleviated by the completed (May 2023) rehabilitation of the Liberty Utilities iron filtration plant at the Seamans Neck Road plant.

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.

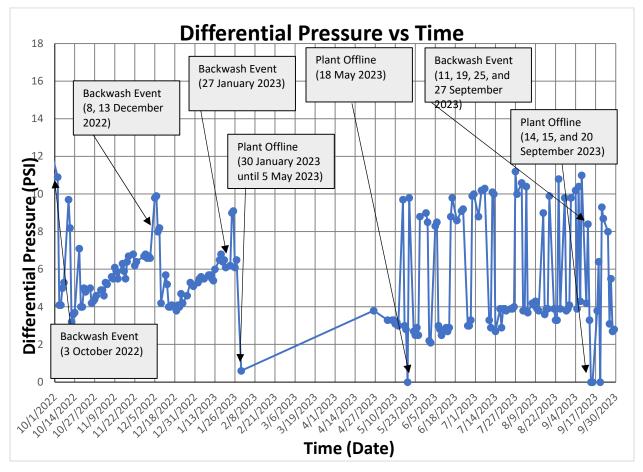


Figure 2 - System Differential Pressure vs. Time

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 1 September, 4 September, 6 September, 8 September, 12 September, 21-22 September, and 27 September.

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

- On 4 September, the smoke alarm in the treatment room activated. No apparent issue; alarm was reset.
- On 11 September, GACs #100 and #200 were backwashed following the 2023 Q3 MIC sampling event. The sample hold times were exceeded by the laboratory; resampling required. The plant was temporarily shut down for AOP system related electrical work.
- On 14 September, the plant was temporarily shut down for AOP system related electrical work.
- On 15 September, the plant was temporarily shut down to test the AOP system booster pumps.
- On 19 September, GACs #500 and #600 were backwashed following the 2023 Q3 MIC sampling event.
- On 20 September, the plant was temporarily shut down to test the AOP system booster pumps.
- On 25 September, GACs #300 and #400 were backwashed following the 2023 Q3 MIC sampling event.
- On 27 September, GACs #100 and #200 were backwashed following the 2023 Q3 MIC re-sampling event.

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

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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 – SEPTEMBER 2023

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Tank 309 Flow Rule	OPH	550	250	150	250	450	500
Tank 400 Flow Rate	dens	500	250	300	250	500	500
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Chiesko Analyzer: Proc Chierino Resident - Initeo	PPM	1.95	1.87	1.64	1.62		10.2
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Tank 480 Plaw Role	CPR9	250	500	250	600	250	500
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Tank 280 Flow Robo	QP98	400	500	350	250	ok	250
Tank 300 Flow Rule	64768	400	_550	ola	aso	550	250
Tank 488 Plow Rote	@P20	400	500	or	250	500	250
Tenk 989 Plan Reso	69939	400	550	400	. 250	550	250
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