



6 July 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: June 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 June 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 June 2023 is presented below in **Table 1**.

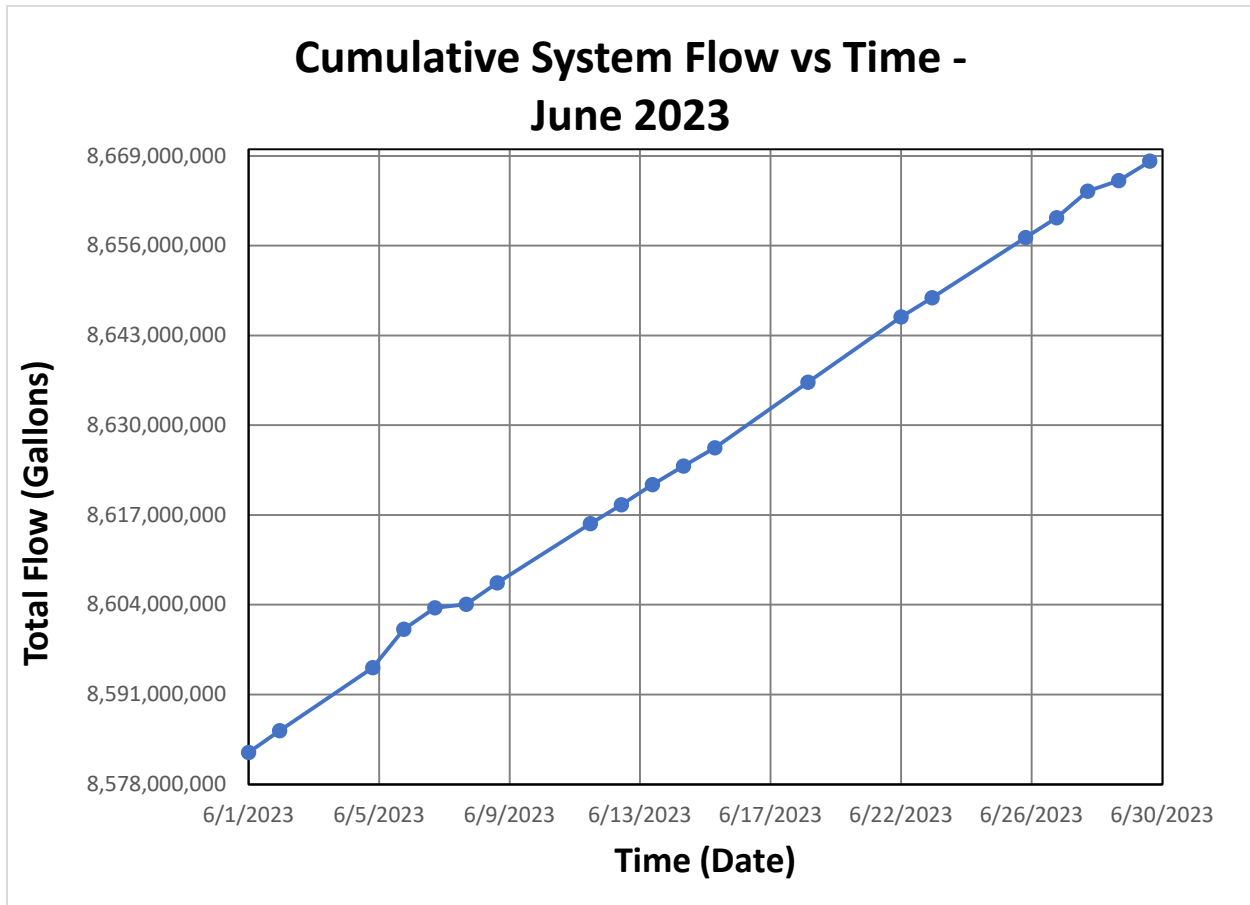
Table 1 - System Operating Data for June 2023

| 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⁾ |
| 6/1/2023 | 8,582,605,000 | 1,700 | 50 | 47 | 2.2 | 1.81 read 1.81 manual | 6.29 read |
| 6/2/2023 | 8,585,756,000 | 1,700 | 40 | 38 | 2.1 | 2.21 read 2.20 manual | 6.54 read |
| 6/5/2023 | 8,594,897,000 | 3,200 | 79 | 69 | 8.3 | 1.85 read 1.83 manual | 6.73 read |
| 6/6/2023 | 8,600,439,000 | 3,400 | 80 | 62 | 8.5 | 1.91 read 1.90 manual | 6.69 read |
| 6/7/2023 | 8,603,559,000 | 1,606 | 46 | 43 | 3.0 | 1.93 read 1.92 manual | 6.61 read |
| 6/8/2023 | 8,604,057,000 | 1,650 | 60 | 57 | 2.8 | 1.61 read 1.60 manual | 6.55 read |
| 6/9/2023 | 8,607,152,000 | 1,700 | 57 | 55 | 2.5 | 1.86 read 1.85 manual | 6.57 read |
| 6/12/2023 | 8,615,738,000 | 1,650 | 55 | 52 | 2.9 | 1.65 read 1.64 manual | 6.63 read |
| 6/13/2023 | 8,618,463,000 | 1,650 | 61 | 58 | 2.7 | 1.59 read 1.60 manual | 6.59 read |
| 6/14/2023 | 8,621,379,000 | 1,600 | 46 | 45 | 2.9 | 1.57 read 1.56 manual | 6.55 read |
| 6/15/2023 | 8,624,069,000 | 3,300 | 98 | 87 | 8.8 | 1.82 read 1.80 manual | 6.54 read |
| 6/16/2023 | 8,626,714,000 | 3,550 | 81 | 71 | 9.8 | 1.68 read 1.70 manual | 6.65 read |
| 6/19/2023 | 8,636,243,000 | 3,150 | 88 | 79 | 8.6 | 1.87 read 1.86 manual | 6.49 read |
| 6/22/2023 | 8,645,687,000 | 2,850 | 94 | 85 | 9.1 | 1.63 read 1.65 manual | 6.60 read |
| 6/23/2023 | 8,648,434,000 | 3,275 | 82 | 73 | 9.2 | 1.71 read 1.73 manual | 6.63 read |
| 6/26/2023 | 8,657,179,000 | 1,575 | 57 | 54 | 3.0 | 1.83 read 1.80 manual | 6.71 read |
| 6/27/2023 | 8,660,050,000 | 1,750 | 75 | 72 | 3.0 | 1.47 read 1.50 manual | 6.61 read |
| 6/28/2023 | 8,663,912,000 | 1,850 | 79 | 76 | 3.3 | 1.68 read 1.71 manual | 6.59 read |
| 6/29/2023 | 8,665,432,000 | 3,350 | 80 | 71 | 9.9 | 1.71 read 1.70 manual | 6.88 read |
| 6/30/2023 | 8,668,238,000 | 3,400 | 78 | 68 | 10.0 | 1.74 read 1.72 manual | 7.31 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 June 2023. Over 85.6 million gallons of water were treated in June 2023, bringing the total cumulative volume of water treated since startup to over 8.66 billion gallons.

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



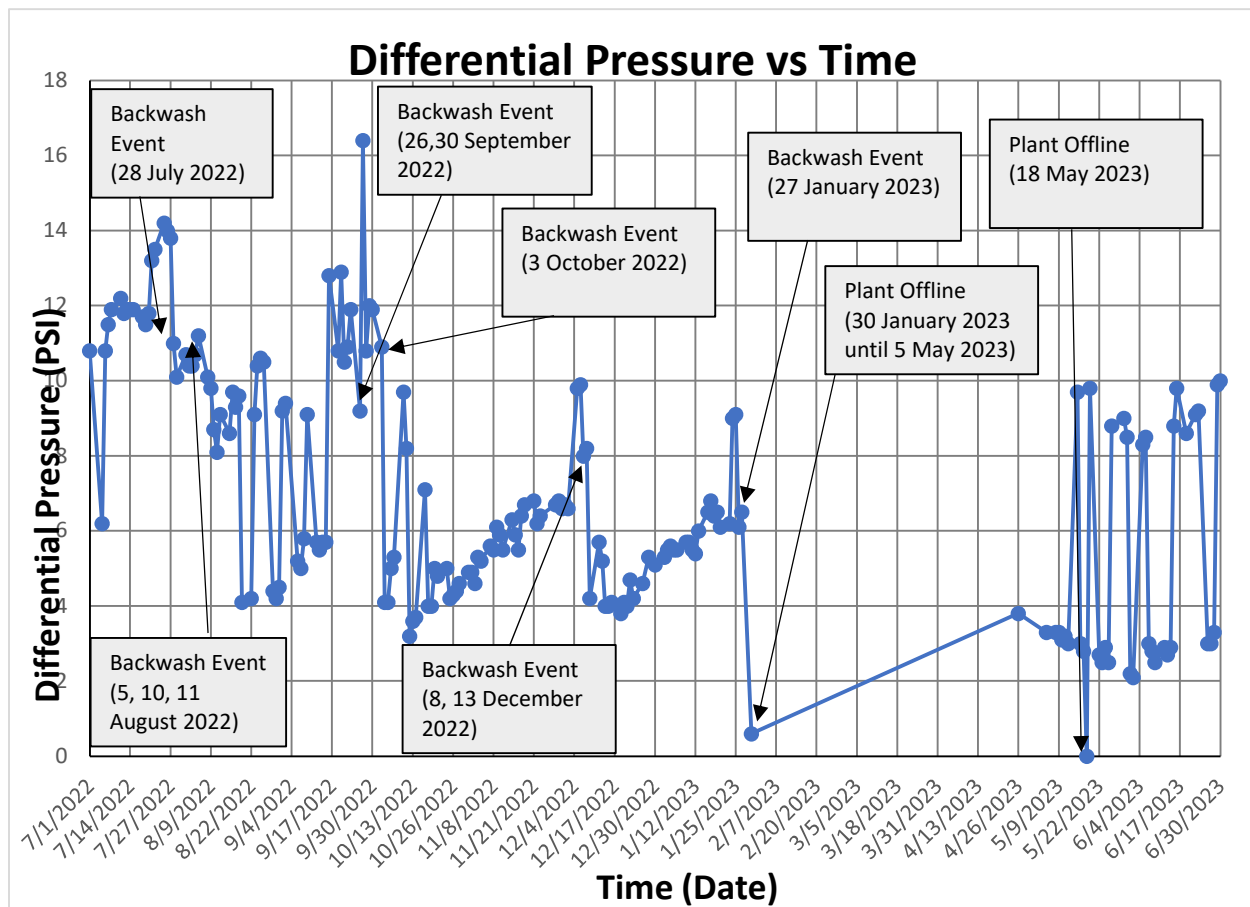
In general, differential pressure increases as the system continues to operate, and decreases after a backwashing event. The increasing trend then continues until the next backwashing event is performed. Also, lower differential pressures are observed during times of low water demand (e.g., typically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

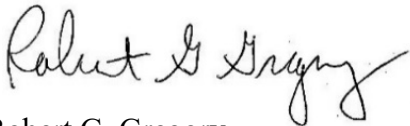
- Changing paper for the chlorine/pH chart recorder and flow/differential pressure chart recorder on a weekly basis.
- Calibration of the pH meter on a weekly basis.
- Periodic operation of Well 3A in place of or concurrently with Well 4S occurs on an irregular schedule; Well 3A operated concurrently with Well 4S on 5-6 June, 15-23 June, and 29-30 June.

No non-routine activities or operation issues occurred during the June 2023 reporting period.

Please contact me at 610-400-0636 or rgregory@komangs.com 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 – JUNE 2023

Daily Readings
Granular Activated Carbon Treatment System

| Description | Date | 5-31-2023 | 6-1-2023 | 6-2-2023 | 6-5-2023 | 6-6-2023 | 6-7-2023 |
|--|-----------|------------|------------|------------|------------|-------------|-------------|
| System Flow Rate | GPM | 3350 | 1700 | 1700 | 3200 | 3400 | 1600 |
| Total System Flow | Gallons | 8663141 | 8666477 | 8689628 | 8678769 | 8684311 | 8687431 |
| Well 3 Status | ON OR OFF | ON | OFF | OFF | ON | ON | OFF |
| Well 4 Status | ON OR OFF | ON | ON | ON | ON | ON | ON |
| Tank 100 Flow Rate | GPM | 550 | 250 | 250 | 500 | 500 | 250 |
| Tank 200 Flow Rate | GPM | 500 | 225 | 200 | 500 | 550 | 250 |
| Tank 300 Flow Rate | GPM | 650 | 250 | 250 | 550 | 550 | 250 |
| Tank 400 Flow Rate | GPM | 500 | 250 | 250 | 500 | 600 | 250 |
| Tank 500 Flow Rate | GPM | 650 | 300 | 250 | 600 | 650 | 250 |
| Tank 600 Flow Rate | GPM | 550 | 200 | 200 | 450 | 500 | 200 |
| Tank 100 Total Flow | Gallons | 80,943,000 | 81,420,000 | 81,885,000 | 83,235,000 | 83,663,000 | 84,014,000 |
| Tank 200 Total Flow | Gallons | 35,197,000 | 35,679,000 | 36,135,000 | 37,461,000 | 37,843,000 | 38,295,000 |
| Tank 300 Total Flow | Gallons | 35,070,000 | 35,625,000 | 36,168,000 | 37,708,000 | 38,197,000 | 38,714,000 |
| Tank 400 Total Flow | Gallons | 34,568,000 | 34,987,000 | 35,543,000 | 36,850,000 | 37,244,000 | 37,621,000 |
| Tank 500 Total Flow | Gallons | 63,480,000 | 64,077,000 | 64,647,000 | 66,285,000 | 66,723,000 | 67,311,000 |
| Tank 600 Total Flow | Gallons | 97,245,000 | 97,909,000 | 98,159,000 | 99,444,000 | 100,368,000 | 100,511,000 |
| System Influent Pressure | PSI | 77 | 50 | 40 | 79 | 80 | 46 |
| System Effluent Pressure | PSI | 69 | 47 | 38 | 67 | 62 | 43 |
| System Differential Pressure | PSI | 8.5 | 2.2 | 2.1 | 8.3 | 8.5 | 3.0 |
| Chlorine Analyzer: Free Chlorine Residual - Inline | PPM | 1.82 | 1.81 | 2.21 | 1.85 | 1.91 | 1.93 |
| Effluent Water pH - Inline | Units | 6.26 | 6.29 | 6.54 | 6.73 | 6.69 | 6.61 |
| Manual Chlorine Reading (cc: Hach DO) | PPM | 1.80 | 1.81 | 2.20 | 1.83 | 1.90 | 1.92 |
| Manual pH check (cc: Hanna) | Units | | | | | | |

**Daily Readings
Granular Activated Carbon Treatment System**

| Description | Date | 5-31-2023 | 6-1-2023 | 6-2-2023 | 6-5-2023 | 6-6-2023 | 6-7-2023 |
|--|---------|------------|----------|--|----------|----------|----------|
| Tank 00A Hypochlorite Level Tank 00A | Gallons | 121 | 153 | 107 | 80 | 56 | 76 |
| Tank 00B Hypochlorite Level Tank 00B | Gallons | 135 | 154 | 148 | 113 | 107 | 100 |
| Tank 00C Hypochlorite Level Tank 00C | Gallons | 153 | 154 | 154 | 64 | 64 | 20 |
| Tank 00D Polysulfate Level Tank 00D | Gallons | 161 | 161 | 160 | 160 | 160 | 160 |
| Tank 00E Polysulfate Level Tank 00E | Gallons | 158 | 120 | 108 | 81 | 59 | 37 |
| Motoring Pump 00A: Hypochlorite Output Pressure | PSI | | | | | | |
| Motoring Pump 00B: Hypochlorite Output Pressure | PSI | | | | | | |
| Motoring Pump 00C: Hypochlorite Output Pressure | PSI | | | | | | |
| Motoring Pump 00D: Polysulfate Output Pressure | PSI | | | | | | |
| Motoring Pump 00E: Polysulfate Output Pressure | PSI | | | | | | |
| Motoring Pump 00A: Stroke Speed | Units | | | | | | |
| Motoring Pump 00B: Stroke Speed | Units | | | | | | |
| Motoring Pump 00C: Stroke Speed | Units | | | | | | |
| Motoring Pump 00D: Stroke Speed | Units | | | | | | |
| Motoring Pump 00E: Stroke Speed | Units | | | | | | |
| Generator Operating Hours | Hours | o/k | o/k | o/k | o/k | o/k | o/k |
| Main Facility Electric Meter Reading | | | | | | | |
| Comments (additional tasks performed, maintenance needed, construction on site, etc.) | | Phos Delc. | cl Delc | Monthly sampling POC's 1, cl Diuron | | | |

Daily Readings
Granular Activated Carbon Treatment System

| Description | Date | 6.8.2023 | 6.9.2023 | 6.12.2023 | 6.13.2023 | 6.14.2023 | 6.15.2023 |
|--|-----------|------------|------------|------------|------------|------------|------------|
| System Flow Rate | GPM | 1650 | 1700 | 1650 | 1650 | 1600 | 3300 |
| Total System Flow | Gallons | 8687929 | 8691024 | 8699616 | 8702335 | 8705257 | 8707941 |
| Well 3 Status | ON OR OFF | OFF | OFF | OFF | OFF | OFF | ON |
| Well 4 Status | ON OR OFF | ON | ON | ON | ON | ON | ON |
| Tank 100 Flow Rate | GPM | 250 | 250 | 225 | 225 | 225 | 500 |
| Tank 200 Flow Rate | GPM | 250 | 250 | 250 | 250 | 250 | 500 |
| Tank 300 Flow Rate | GPM | 250 | 250 | 250 | 250 | 250 | 550 |
| Tank 400 Flow Rate | GPM | 250 | 250 | 250 | 250 | 250 | 500 |
| Tank 500 Flow Rate | GPM | 250 | 225 | 250 | 250 | 250 | 500 |
| Tank 600 Flow Rate | GPM | 200 | 225 | 225 | 200 | 225 | 500 |
| Tank 100 Total Flow | Gallons | 84,578,000 | 85,039,000 | 84,300,000 | 86,703,000 | 87,122,000 | 87,525,000 |
| Tank 200 Total Flow | Gallons | 38,785,000 | 39,231,000 | 40,470,000 | 40,871,000 | 41,288,000 | 41,676,000 |
| Tank 300 Total Flow | Gallons | 39,247,000 | 39,768,000 | 41,211,000 | 41,670,000 | 42,138,000 | 42,603,000 |
| Tank 400 Total Flow | Gallons | 38,160,000 | 38,601,000 | 39,384,000 | 39,715,000 | 39,990,000 | 40,440,000 |
| Tank 500 Total Flow | Gallons | 67,925,000 | 68,483,000 | 70,014,000 | 70,505,000 | 70,947,000 | 71,493,000 |
| Tank 600 Total Flow | Gallons | 20,729,000 | 21,168,000 | 22,363,000 | 22,748,000 | 23,145,000 | 23,523,000 |
| System Influent Pressure | PSI | 60 | 57 | 55 | 61 | 46 | 98 |
| System Effluent Pressure | PSI | 57 | 55 | 52 | 58 | 43 | 87 |
| System Differential Pressure | PSI | 2.8 | 2.5 | 2.9 | 2.7 | 2.9 | 8.8 |
| Chlorine Analyzer: Free Chlorine Residual - Inline | PPM | 1.61 | 1.86 | 1.65 | 1.59 | 1.57 | 1.82 |
| Effluent Water pH - Inline | Units | 6.55 | 6.57 | 6.63 | 6.59 | 6.55 | 6.54 |
| Manual Chlorine Reading (see Hook 10) | PPM | 1.60 | 1.85 | 1.64 | 1.60 | 1.56 | 1.80 |
| Manual pH check (see Manual) | Units | | | | | | |

**Daily Readings
Granular Activated Carbon Treatment System**

| Description | Date | 6-8-2023 | 6-9-2023 | 6-12-2023 | 6-13-2023 | 6-14-2023 | 6-15-23 |
|---|---------|----------|----------|-----------|--------------------|------------------------------|---------|
| Tank 800A Humidity Level | Gallons | 153 | 126 | 84 | 150 | 94 | 150 |
| Tank 800B Humidity Level | Gallons | 162 | 147 | 112 | 152 | 141 | 153 |
| Tank 800C Humidity Level | Gallons | 163 | 163 | 118 | 153 | 153 | 153 |
| Tank 800D Humidity Level | Gallons | 135 | 115 | 70 | 135 | 116 | 98 |
| Tank 800E Humidity Level | Gallons | 33 | 33 | 33 | 89 | 85 | 85 |
| Motoring Pump 800A: Humidity Output Pressure | PSI | | | | | | |
| Motoring Pump 800B: Humidity Output Pressure | PSI | | | | | | |
| Motoring Pump 800C: Humidity Output Pressure | PSI | | | | | | |
| Motoring Pump 800D: Humidity Output Pressure | PSI | | | | | | |
| Motoring Pump 800E: Humidity Output Pressure | PSI | | | | | | |
| Motoring Pump 800A: Stroke/Speed | Units | | | | | | |
| Motoring Pump 800B: Stroke/Speed | Units | | | | | | |
| Motoring Pump 800C: Stroke/Speed | Units | | | | | | |
| Motoring Pump 800D: Stroke/Speed | Units | | | | | | |
| Motoring Pump 800E: Stroke/Speed | Units | | | | | | |
| Generator Operating Hours | Hours | ok | ok | ok | ok | ok | ok |
| Main Facility Electric Meter Reading | | | | | | | |
| Comments (additional tests performed, maintenance needed, construction on site, etc.) | | | | | Cl & Phase Delu | Changed Flow/PH Charts | |

Daily Readings
Granular Activated Carbon Treatment System

| Description | Date | 6-16-2023 | 6-19-2023 | 6-22-2023 | 6-23-23 | 6-26-23 | 6-27-2023 |
|--|-----------|------------|------------|------------|------------|------------|------------|
| System Flow Rate | GPM | 3550 | 3150 | 2850 | 3275 | 1575 | 1750 |
| Total System Flow | Gallons | 8710586 | 8720115 | 8729559 | 8732306 | 8741051 | 8743922 |
| Well 3 Status | ON OR OFF | ON | ON | ON | ON | OFF | OFF |
| Well 4 Status | ON OR OFF | ON | ON | ON | ON | ON | ON |
| Tank 100 Flow Rate | GPM | 550 | 500 | 500 | 500 | 250 | 250 |
| Tank 200 Flow Rate | GPM | 600 | 450 | 400 | 500 | 250 | 250 |
| Tank 300 Flow Rate | GPM | 550 | 550 | 500 | 550 | 250 | 250 |
| Tank 400 Flow Rate | GPM | 550 | 450 | 400 | 450 | 225 | 250 |
| Tank 500 Flow Rate | GPM | 700 | 600 | 550 | 650 | 250 | 300 |
| Tank 600 Flow Rate | GPM | 500 | 450 | 400 | 500 | 200 | 225 |
| Tank 100 Total Flow | Gallons | 87,905,000 | 89,321,000 | 90,762,000 | 91,667,000 | 92,455,000 | 92,875,000 |
| Tank 200 Total Flow | Gallons | 42,058,000 | 43,447,000 | 44,813,000 | 45,211,000 | 46,475,000 | 46,891,000 |
| Tank 300 Total Flow | Gallons | 43,039,000 | 44,650,000 | 46,257,000 | 46,765,000 | 48,175,000 | 48,651,000 |
| Tank 400 Total Flow | Gallons | 40,911,000 | 41,715,000 | 43,075,000 | 43,423,000 | 44,638,000 | 45,634,000 |
| Tank 500 Total Flow | Gallons | 71,964,000 | 73,675,000 | 75,373,000 | 75,858,000 | 77,401,000 | 77,904,000 |
| Tank 600 Total Flow | Gallons | 23,893,000 | 25,225,000 | 26,555,000 | 26,981,000 | 28,143,000 | 28,538,000 |
| System Influent Pressure | PSI | 81 | 88 | 94 | 82 | 57 | 75 |
| System Effluent Pressure | PSI | 71 | 79 | 85 | 73 | 54 | 72 |
| System Differential Pressure | PSI | 9.8 | 8.6 | 9.1 | 9.2 | 3.0 | 3.0 |
| Chlorine Analyzer: Free Chlorine Residual - Inline | PPM | 1.68 | 1.87 | 1.63 | 1.71 | 1.83 | 1.47 |
| Effluent Water pH - Inline | Units | 6.65 | 6.49 | 6.60 | 6.63 | 6.71 | 6.61 |
| Manual Chlorine Reading (cc: Hach DR) | PPM | 1.70 | 1.86 | 1.65 | 1.73 | 1.80 | 1.50 |
| Manual pH check (cc: Hanna) | Units | - | - | - | - | - | - |

**Daily Readings
Granular Activated Carbon Treatment System**

| Description | Date | 6.16.23 | 6.19.2023 | 6.22.2023 | 6.23.2023 | 6.26.2023 | 6.27.2023 |
|--|---------|---------|-----------|--|----------------------------------|-----------|-------------------------|
| Tank 004A Height/Inch Level | Gallons | 338 | 400 | 153 | 120 | 81 | 149 |
| Tank 004B Height/Inch Level | Gallons | 147 | 104 | 155 | 141 | 117 | 153 |
| Tank 005C Height/Inch Level | Gallons | 150 | 121 | 153 | 153 | 111 | 154 |
| Tank 004A Polysulfate Level | Gallons | 91 | 77 | 18 | 40 | 26 | 160 |
| Tank 004B Polysulfate Level | Gallons | 86 | 40 | 39 | 42 | 40 | 161 |
| Mixing Pump 004A: Height/Inch Output Pressure | PSI | | | | | | |
| Mixing Pump 004B: Height/Inch Output Pressure | PSI | | | | | | |
| Mixing Pump 004A: Phosphate Output Pressure | PSI | | | | | | |
| Mixing Pump 004B: Phosphate Output Pressure | PSI | | | | | | |
| Mixing Pump 004A: Strain/Speed | Units | | | | | | |
| Mixing Pump 004B: Strain/Speed | Units | | | | | | |
| Mixing Pump 004A: Strain/Speed | Units | | | | | | |
| Mixing Pump 004B: Strain/Speed | Units | | | | | | |
| Generator Operating Hours | Hours | o/c | o/c | o/c | o/c | o/c | o/c |
| Main Facility Electric Meter Reading | | | | | | | |
| Comments (additional tasks performed, maintenance needed, concentrations on site, etc.) | | | | changed char's PH / Flow CL Delu. | Contractor on site (El. &) | | CL Delu. Phos. Delu. |

Daily Readings
Granular Activated Carbon Treatment System

| Description | Date | 6-25-2023 | 6-29-2023 | 6-30-2023 | | | |
|--|-----------|------------|------------|------------|--|--|--|
| System Flow Rate | GPM | 1850 | 3350 | 3400 | | | |
| Total System Flow | Gallons | 8741784 | 8749304 | 8752110 | | | |
| Well 3 Status | ON OR OFF | OFF | ON | ON | | | |
| Well 4 Status | ON OR OFF | ON | ON | ON | | | |
| Tank 100 Flow Rate | GPM | 250 | 450 | 550 | | | |
| Tank 200 Flow Rate | GPM | 250 | 450 | 500 | | | |
| Tank 300 Flow Rate | GPM | 250 | 550 | 600 | | | |
| Tank 400 Flow Rate | GPM | 250 | 500 | 550 | | | |
| Tank 500 Flow Rate | GPM | 300 | 550 | 600 | | | |
| Tank 600 Flow Rate | GPM | 250 | 350 | 450 | | | |
| Tank 100 Total Flow | Gallons | 93,411,000 | 93,711,000 | 94,112,000 | | | |
| Tank 200 Total Flow | Gallons | 47,381,000 | 47,728,000 | 48,080,000 | | | |
| Tank 300 Total Flow | Gallons | 49,007,000 | 49,537,000 | 50,019,000 | | | |
| Tank 400 Total Flow | Gallons | 45,987,000 | 46,418,000 | 46,947,000 | | | |
| Tank 500 Total Flow | Gallons | 78,442,000 | 78,863,000 | 79,355,000 | | | |
| Tank 600 Total Flow | Gallons | 08,893,000 | 07,411,000 | 08,753,000 | | | |
| System Influent Pressure | PSI | 79 | 80 | 78 | | | |
| System Effluent Pressure | PSI | 76 | 71 | 68 | | | |
| System Differential Pressure | PSI | 3.3 | 9.9 | 100 | | | |
| Chlorine Analyzer: Free Chlorine Residual - Inline | PPM | 1.68 | 1.71 | 1.74 | | | |
| Effluent Water pH - Inline | Units | 6.59 | 6.88 | 7.31 | | | |
| Manual Chlorine Reading (see Hook ID) | PPM | 1.71 | 1.70 | 1.72 | | | |
| Manual pH check (see Hook ID) | Units | | | | | | |

**Daily Readings
Granular Activated Carbon Treatment System**

| Description | Date | 6-28-2023 | 6-29-2023 | 6-30-2023 | | | |
|--|---------|-----------|-----------|-----------|--|--|--|
| Tank 001A Homachite Level | Gallons | 84 | 154 | 121 | | | |
| Tank 001B Homachite Level | Gallons | 145 | 155 | 141 | | | |
| Tank 002C Homachite Level | Gallons | 154 | 154 | 154 | | | |
| Tank 002A Polysulfide Level | Gallons | 143 | 120 | 105 | | | |
| Tank 002B Polysulfide Level | Gallons | 161 | 161 | 161 | | | |
| Motoring Pump 001A: Homachite Control Pressure | PSI | | | | | | |
| Motoring Pump 002C: Homachite Control Pressure | PSI | | | | | | |
| Motoring Pump 002A: Polysulfide Control Pressure | PSI | | | | | | |
| Motoring Pump 002B: Polysulfide Control Pressure | PSI | | | | | | |
| Motoring Pump 001A: Strain/Speed | Units | | | | | | |
| Motoring Pump 002C: Strain/Speed | Units | | | | | | |
| Motoring Pump 002A: Strain/Speed | Units | | | | | | |
| Motoring Pump 002B: Strain/Speed | Units | | | | | | |
| Generator Operating Hours | Hours | 0/L | 0/L | 0/L | | | |
| Main Facility Electric Meter Reading | | | | | | | |
| Comments (additional tests performed, maintenance needed, corrections on site, etc.) | | | | | | | |