Burrillville Sewer Commission

Regular Meeting of October 11, 2022

Board Room of the BWWTF

Members Present: William Andrews – Chairman

Richard Nolan – Vice Chairman

Gary Rouleau – Commission Member

Members Absent: Russell Fontaine – Secretary

Daniel Joubert – Commission Member

Also Present: Timothy Kane – Attorney for the Commission

James Dyment – Consulting Engineer

Michael Emond – Superintendent

Stacey Richard – Office Manager

Sevag Khatchadourian – Oak Square Partners

John Typadis – Oak Square Partners

Mr. Andrews opened the Meeting at 6:35 PM.

**Agenda Item –** The question of accepting the Minutes of the Regular Meeting of August 9, 2022, and the question of dispensing with the reading of said Minutes.

**Voted –** Mr. Nolan made a motion to accept the Minutes of the Regular Meeting of August 9, 2022 and to dispense with the reading of said Minutes. The motion was seconded by Mr. Rouleau. All in favor, so voted.

**Public Comment –** None

**Correspondence –** None

**New Business –** None

**Old Business:** Discuss and take possible action on proposed (revised) Energy Services Agreement with Oak Square Partners for a battery energy storage facility.

Mr. Emond stated that he reviewed the revised agreement and that it seems all of the issues discussed have been addressed. Mr. Kane stated that the insurance should be increased. Mr. Kane also mentioned some minor changes in the verbiage of the agreement. There was some discussion on this matter. Mr. Khatchadourian and Mr. Typadis stated that they will make changes to the agreement as discussed.

**Voted –** Mr. Nolan made a motion to take the Agreement under advisement at this time. The motion was seconded by Mr. Rouleau. All in favor, so voted.

**Invoices –** None

**Engineer’s Report:** RIIB (Account CW #7 – BURR-CW-FY22)

RI Infrastructure Bank – Pay Request #7 in the amount of $8,997.50

Exhibit A – Project Payment Requisition Form

Exhibit F – Wage Rate Requirement Certification Form

Exhibit G – Certification Regarding Debarment, Suspension and Other Responsibility Matters

Exhibit H – American Iron and Steel Certification

**Voted –** Mr. Nolan made a motion to authorize the Chairman to sign Pay Request #7 in the amount of $8,997.50, including Exhibits A, F, G & H. The motion was seconded by Mr. Rouleau. All in favor, so voted.

RIIB (Account CW #8 – BURR-CW-FY22)

RI Infrastructure Bank – Pay Request #8 in the amount of $26,100.00

Exhibit A – Project Payment Requisition Form

Exhibit F – Wage Rate Requirement Certification Form

Exhibit G – Certification Regarding Debarment, Suspension and Other Responsibility Matters

Exhibit H – American Iron and Steel Certification

**Voted –** Mr. Nolan made a motion to authorize the Chairman to sign Pay Request #8 in the amount of $26,100.00, including Exhibits A, F, G & H. The motion was seconded by Mr. Rouleau. All in favor, so voted.

Wetwell Cleaning Update

Mr. Dyment stated that Mr. Podgursky spent two weeks and one day cleaning out the wetwell. Mr. Dyment and Mr. Emond decided that the bypass will still need to be done.

WER Update

Mr. Dyment stated that he is waiting for further comments from RIDEM in order to continue testing.

Chapel Street Sewers Grant (from DPW) Discussion

Mr. Dyment stated that Mr. Emond was contacted by Jeff McCormick of DPW regarding extending sewers on Chapel Street to cross the river. Mr. Dyment is currently working on a plan.

**Voted –** Mr. Nolan made a motion to approve the Engineer’s Report. The motion was seconded by Mr. Rouleau. All in favor, so voted.

**Attorney’s Report:**

Mr. Kane stated that there is nothing new to report this month.

**Superintendent’s Report:**

Report for the month of August, 2022

Report for the month of September, 2022

Month of August 2022

**1. WWTF OPERATIONS**

1. Influent to Treatment Facility – MGD

Average Daily Flow = 0.900.

Maximum Daily Flow = 1.3980 on 29-Aug

Minimum Daily Flow = 0.6100 on 08-Aug

Percent Average

Removal Concentration

1. Biochemical Oxygen Demand

EPA / DEM Permit Requirement = 85.0% min 10.0 mg/L

August achieved = 99.6% 1.0 mg/L

1. Total Suspended Solids

EPA / DEM Permit Requirement = 85.0% 15.0 mg/L

August achieved = 99.4% 2.4 mg/L

1. Total Phosphorus

EPA / DEM Permit Requirement = N/A 0.1 mg/L

August achieved = 99.3% 0.039 mg/L

1. Total Ammonia

EPA / DEM Permit Requirement = N/A 5.1 mg/L

August achieved = 98.8% 0.35 mg/L

1. Total Copper

EPA / DEM Permit Requirement = N/A 8.0 ug/L

August achieved = 98.9% 3.4 ug/L

1. Disposed Sludge

Dry Tons Disposed of = 31.48

Number of Loads Removed = 33

Average Dry Tons / Load = 0.95

Permit Excursions

On August 25, 2022, the laboratory measured the pH of the morning final effluent grab sample at 5.56 S.U. Any pH measured below 6.0 S.U. constitutes a permit excursion. The permit excursion was reported verbally to Matt Puglia of RIDEM the same morning. To compensate for the low pH, the potassium hydroxide dosage flow pace ratio was increased. By afternoon, the final effluent grab sample measured a pH of 6.27 S.U. and the measurement reported by email to Matt Puglia and Jack Segal of RIDEM.

Prior to the 8/25/22 morning grab final effluent pH excursion, the most recent permit excursion occurred on 6/30/22 for a daily maximum copper which; the contract lab reported the final effluent copper concentration as 23.2 ug/L. The permit daily maximum limit is 10.6 ug/L.

Callout Alarms

There were seven (7) after hour alarms for the wastewater treatment plant in August 2022.

High Blended Sludge Tank alarms occurred on 8/1/22, 8/2/22 and 8/17/22. Air lines to bubbler level system were purged and level corrected.

8/20/22 – Initial Chlorine Residual Low – Alarm condition self-corrected before crew arrived. Crew checked and flushed initial chlorine analyzer with deionized water.

8/23/22 – Plant Power Failure – Plant on generator power for 7.5 hours as commercial power was unavailable due to a fire at the electrical sub-station located on Douglas Pike.

8/27/22 – Initial Chlorine Residual Low – Initial analyzer had high amount of Ferric in sample cell, probe and in lines. Analyzer components cleaned to remove all Ferric. Sump pump checked and both Hypo pumps purged to remove any accumulated gases.

8/30/22 – Initial Chlorine Residual Low – Hypo pump #2 not pumping due to gas build up in hypochlorite feed line. Pump #2 purged to remove gases. Condition returned to normal.

**2. COLLECTION SYSTEM OPERATIONS**

There were six (6) after hour collection systems call-in responses for the month of August 2022. Find the call-in table below:

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Location | Nature of Call / Alarm Condition | Issue Found |
| 8/13/22 | Beach Road Ejector Station | High Wet Well | Debris stuck in clapper valve. Back-flushed debris and pump down well. |
| 8/20/22 | School Street Pump Station | High Wet Well – Critical | Float fell off hook. Reattached float and set at proper height. |
| 8/23/22 | All Pump and Ejector Stations | Power Loss | Power loss in area for approximately 8 hours. All stations were checked as power was restored. |
| 8/24/22 | Spring Lake Pump Station | Generator Alarm Suspended | Electrical work in area by RI Energy causing glitches affecting pump station. Generator did run, but was off when crew arrived. |
| 8/25/22 | Spring Lake Pump Station | Generator Alarm Suspended | Electrical work in area by RI Energy causing glitches affecting pump station. Generator did run, but was off when crew arrived. |
| 8/26/22 | Spring Lake Pump Station | Generator Running | Electrical work in area by RI Energy. Generator running when crew arrived. Waited for power to restore and generator to cool down. Alarm cleared. |

**3. OTHER ACTIVITIES & CURRENT ISSUES**

8/10/22 – Met with Tom and Nuno of Podgurski Corp., James and Alan of BETA to discuss cleaning of headworks wet wells while live. Tentatively scheduled to start 8/22/22 if all lines up.

8/17/22 – Received letter from Cameron Murray of RIDEM regarding the WER study. Needs responses to his comments on the WER plan submitted earlier. Responses provided by Steve Richtarik of BETA.

8/18/22 – Opened up Oakland PS for Alan Gunnison and Chris Marshall of BETA so they could take some elevation shots. Later went to headworks at plant so they could look at the electric chainfall and take elevations.

8/30/22 – Senior operator Don Shurtleff reported that he thought there was an issue with flow meter because it is reading much higher than the flow seems over the weirs. Operator Dan Coffey and superintendent went to flush the flow meter. No change. Dan instructed to disconnect the tubing on each side of the flow meter and flushed the lines. No restriction found. Then we flushed meter again. Seemed to have gotten worse (higher). Called Bob Briscoe of RE Erickson and asked advice how to check differential pressure gauge to flow meter with water column. Then Dan and I went to try. When we started to fill the column, we noticed the pressure gauge lowered to an expected normal flow. It seems an air or water pressure buildup on the opposite side of the pressure gauge skewed the reading. Meter is back to normal.

Month of September 2022

**1. WWTF OPERATIONS**

1. Influent to Treatment Facility – MGD

Average Daily Flow = 0.9403

Maximum Daily Flow = 1.2380 on 06-Sep

Minimum Daily Flow = 0.6260 on 04-Sep

Percent Average

Removal Concentration

1. Biochemical Oxygen Demand

EPA / DEM Permit Requirement = 85.0% min 10.0 mg/L

September achieved = 99.4% 1.3 mg/L

1. Total Suspended Solids

EPA / DEM Permit Requirements = 85.0% 15.0 mg/L

September achieved = 99.2% 2.0 mg/L

1. Total Phosphorus

EPA / DEM Permit Requirement = N/A 0.1 mg/L

September achieved = 99.0% 0.048 mg/L

1. Total Ammonia

EPA / DEM Permit Requirement = N/A 5.1 mg/L

September achieved = 98.0% 0.38 mg/L

1. Total Copper

EPA / DEM Permit Requirement = N/A 8.0 ug/L

September achieved = 98.1% \*4.8 ug/L

1. Disposed Sludge

Dry Tons Disposed of = 35.57

Number of Loads Removed = 34

Average Dry Tons / Load = 1.05

\*The copper result for the last week of September has not been reported at the time this report was submitted.

Permit Excursions

There are no permit excursions to report for the month of September 2022.

The most recent permit excursion occurred on 8/25/22 for a daily minimum pH on a morning grab sample which the BSC lab measured a pH of 5.56 S.U. The minimum allowable pH is 6.0 S.U. By the time of the afternoon pH sample was taken the matter had been corrected and the afternoon pH measured 6.27 S.U.

Callout Alarms

9/24/22 – Reject Pump Station – Pump #1 failure and High wet well. Reset pump and used both pumps to pump down wet well. Pump #1 faults at low speeds. Changed rotation so Pump #2 is Lead and Pump #1 is lag pump.

**2. COLLECTION SYSTEM OPERATIONS**

There were six (6) after hour collection systems call-in responses for the month of September 2022. Find the call-in table below:

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Location | Nature of Call / Alarm Condition | Issue Found |
| 9/2/22 | Beach Road Ejector Station | High Wet Well | Discharge clapper not seating. Back-flushed pots. Discharge clapper working properly. Pumped down wet well. |
| 9/2/22 | Eagle Peak Pump Station | High Wet Well, Pumps #1 & #2 Failed | Both pumps failed due to OCF (over current fault). Cleared fault for Pump #2. Pumped down wet well. Pump #1 would not clear. Checked incoming voltage to both pumps. Voltage measured ~500V. Pump #1 offline. |
| 9/3/22 | Eagle Peak Pump Station | High Wet Well, Pump #2 Failed | Pump #2 failed due to over current. Cleared fault and pumped down wet well. |
| 9/5/22 | Eagle Peak Pump Station | High Wet Well, Pump #2 Failed | Pump #2 failed due to over current. Cleared fault and pumped down wet well. |
| 9/9/22 | Eagle Peak Pump Station | High Wet Well, Pump #2 Failed | Reset pump. Measured amps while running. OK |
| 9/26/22 | Eagle Peak Pump Station | High Wet Well, Pump #2 Failed | Pump #2 soft-start alarm. New Pump #1 offline due to blown control fuse. Reset Pump #2 and cleared soft-start fail. Checked amps. OK. Pumped down to clear high wet well. |

**3. OTHER ACTIVITIES & CURRENT ISSUES**

9/7/22 – Apple Valley Alarm electrician troubleshooting Eagle Peak pump station Pump #1. Motor no good. Crew pulled pump out and brought to shop. Prepping to install new pump currently in storage.

9/8/22-Apple Valley Alarm installed new pump at Eagle Peak pump station.

9/12/22 – Podgursky on site first thing along with James and Alan of BETA to start headworks wet well cleaning; Day 1. Two RICON containers delivered as well.

9/13/22-9/16/22 – Podgursky on site to clean headworks wet wells; Days 2-5.

9/19/22-9/23/22 – Podgursky on site to clean headworks wet wells; Days 6-10.

9/21/22 – Raw Influent Pump #3 got clogged during wet well cleaning. Could not back flush.

9/26/22 – Podgursky on site to complete wet well cleaning and help to unclogged Raw Influent Pump #3. After cleaning pump #3 two times and back flushing each time, and also removing a huge mop of rags out of the pump intake bell, the pump was unclogged. Podgursky finished the day by vacuuming the grit chamber discharge channel of accumulated rags.

9/29/22 – Veolia vacuumed Maplehill Park and Glendale pump station wet wells. Then went to plant to vacuum primary scum well of rags and also offline Primary #1.

Mr. Emond gave a brief summary of the Superintendent’s Report.

**Voted –** Mr. Nolan made a motion to approve the Superintendent’s Report. The motion was seconded by Mr. Rouleau. All in favor, so voted.

**Sewer Use/Sewer Assessment Write-Offs –** None

**Adjournment –** Mr. Nolan made a motion to adjourn the Meeting. The motion was seconded by Mr. Rouleau. All in favor, so voted.

Respectfully Submitted,

Jacqueline Batalon

Financial Aide

I have read the Minutes of the previous pages and hereby ratify the same.

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William Andrews Richard Nolan Russell Fontaine

Chairman Vice Chairman Secretary

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Gary Rouleau Daniel Joubert

Commission Member Commission Member