Burrillville Sewer Commission

Regular Meeting of August 15, 2023

Board Room of the BWWTF

Members Present: William Andrews – Chairman

Richard Nolan – Vice Chairman

Gary Rouleau – Commission Member

Daniel Joubert – Commission Member

Also Present: Tim Kane – Attorney for the Commission

James Dyment – Consulting Engineer

Dennis Anderson – Town Council Liaison

Michael Emond – Superintendent

Stacey Richard – Office Manager

**Agenda Item –** The question of accepting the Minutes of the Regular Meeting of July 11, 2023 and the question of dispensing with the reading of said Minutes.

**Voted –** Mr. Joubert made a motion to accept the Minutes of the Regular Meeting of July 11, 2023 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 –** None

**Invoices:** Industrial Pump Sales & Serv. Inc. Invoice # 082103-IN in the amount of $18,175.46 for Model 100 Pump – Fund 8300.

**Voted –** Mr. Nolan made a motion to pay Invoice #082103-IN in the amount of $18,175.46 from Fund 8300. The motion was seconded by Mr. Rouleau. All in favor, so voted.

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

RI Infrastructure Bank – Pay Request #18 in the amount of $7,510.00

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 and pay RI Infrastructure Bank Pay Request #18 in the amount of $7,510.00, including Exhibits A, F, G & H. The motion was seconded by Mr. Rouleau. All in favor, so voted.

Headworks and Oakland Pump Station Improvements, Contract 20 Execution

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

**Attorney’s Report:**

Mr. Kane stated that he is working on an easement for the Oakland Pump Station Improvements.

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

**Superintendent’s Report:**

Report for the month of July, 2023

**1. WWTF OPERATIONS**

1. Influent to Treatment Facility – MGD

Average Daily Flow = 0.7616

Maximum Daily Flow = 1.0460 on 17-July

Minimum Daily Flow = 0.5590 on 09-July

Percent Average

Removal Concentration

1. Biochemical Oxygen Demand

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

July achieved = 99.3% 1.3 mg/L

1. Total Suspended Solids

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

July achieved = 98.6% 3.7 mg/L

1. Total Phosphorus

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

July achieved = 100% 0.00 mg/L

1. Total Ammonia

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

July achieved = 98.9% 0.2 mg/L

1. Total Copper

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

July achieved = 99.2% \*3.2 ug/L

1. Disposed Sludge

Dry Tons Disposed of = 27.23

Number of Loads Removed = 40

Average Dry Tons / Load = 0.68

\*The copper results for the third and fourth week of July have not been reported by the contract lab at the time this report was submitted.

Permit Excursions

There were no permit excursions to report for July 2023.

The most recent permit excursions were two permit excursions reported in the month of October 2022, both for daily maximum Copper. The first excursion was on October 6th and the second on October 13th with the results reported as 16.1 ug/L and 11.4 ug/L respectively. The daily maximum Copper limit is 10.6 ug/L.

Callout Alarms

There were six (6) callout alarms at the wastewater treatment facility for July 2023.

7/3/23 – Low Initial Chlorine Residual – Hypochlorite pump #1 not pumping. Purged pumps, cleaned analyzer from Ferric. Hypo pump #1 needs new motor.

7/6/23 – Low Initial Chlorine Residual – Hypochlorite pumps #1 and #2 lost prime and were not pumping. Analyzer full of Ferric residue. Flushed water through both pumps, debris removed on ball checks. Purged lines to remove air. Cleaned initial analyzer, removed Ferric residue, flushed with water.

7/9/23 – Low Initial Chlorine Residual – Hypo pump #1 suction ball stuck, clogged with debris. Hypo pump #2 suction and discharge ball checks clogged with debris. Flushed both pumps with water to clear debris. Cleaned both the initial and final chlorine analyzers to remove Ferric residue. Return to normal.

7/12/23 – Low Initial Chlorine Residual – Both Hypo pumps were air bound and not pumping. Analyzer full of Ferric. Purged Hypo pumps and cleaned analyzer.

7/16/23 – Raw Pump System Alarm – Pumps running at 90%. Cleaned all three (3) raw pumps.

7/19/23 – Low Initial Chlorine Residual – Both Hypo pumps not pumping. Purged pumps. Hypo pump #1 suction ball hung up. Fixed. Hypo pump #2 suction and discharge balls hung up – not seating. Fixed. Returned to normal.

**2. COLLECTION SYSTEM OPERATIONS**

There was one (1) after hour collection systems call-in responses for the month of July 2023. Find the call-in table below:

|  |  |  |  |
| --- | --- | --- | --- |
| Date | Location | Nature of Call / Alarm Condition | Issue Found |
| 7/16/23 | Beach Road ES | High Wet Well | Found discharge clapper stuck and compressor #2 tripped. Back-flushed and pumped down wet well. |

**3. OTHER ACTIVITIES & CURRENT ISSUES**

For the month of July, Synagro hauled 40 loads of sludge from the Burrillville WWTF. This has helped significantly to bring down the sludge blankets depths from a high of 12.5 feet to a more manageable 4-6 feet currently. However, sludge septicity and denitrification of WAS (waste activated sludge) in the primary clarifiers, which disturbs settling and thins the sludge. The average Dry Tons per Load of disposed sludge for July was only 0.68 Dry Tons/Load. Typically, one (1) dry ton per load or slightly under is normal in the nutrient removal season from April to October.

**4. PERMIT LIMIT REPORT**

Refer to following pages imported from plant data management system.

Limit Summary: (\*\*designates values exceeding limit)

\_\_\_\_\_1 value exceeding limit.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Location/Parameter Units Limit\_\_\_\_\_\_\_ Actual\_

INFLUENT – INFLUENT

Flow Mgd – Flow Rate

Average MGD 1.5 0.7616

Minimum, 7/9/2023 MGD 0.5590

\_\_\_\_Maximum, 7/17/2023 MGD 1.0460

FINAL EFFLUENT – FINAL EFFLUENT COMPOSITE

Bod 5 – Bod 5 Day

Average MG/L 10 1.3

Max Weekly Avg (Wed Rule) MG/L 15 1.9

\_\_\_\_Maximum, 7/4/2023 MG/L \_\_17 \_\_\_2.6\_

EFFLUENT BOD – EFFLUENT BOD

Loadings – Loadings in Pounds

Average LB/Day 125.1 7.7

\_\_\_\_Maximum, 7/4/2023 LB/Day \_\_212.7 \_\_\_13.6

RAW INFLUENT – RAW INFLUENT COMPOSITE

Bod 5 – Bod 5 Day

Average MG/L 193

\_\_\_\_\_Maximum, 7/16/2023 MG/L \_\_\_261

INFLUENT BOD – INFLUENT BOD

Loadings – Loadings in Pounds

Average LB/Day 1193.2

\_\_\_\_\_\_Maximum, 7/16/2023 LB/Day 2107.1

EFFLUENT BOD – EFFLUENT BOD

Percent Removal – Percent Removal

\_\_\_\_\_\_Average (Lower Limit) \_\_% \_\_\_\_85.0 \_\_\_99.3

FINAL EFFLUENT – FINAL EFFLUENT COMPOSITE

Solids TSS – Total Suspended Solids

Average MG/L 15 3.7

Avg Weekly Avg (Wed Rule) MG/L 20 3.8

\_\_\_\_\_\_\_Maximum, 7/29/2023 MG/L \_\_\_\_\_25 \_\_\_\_5.6

EFFLUENT TSS – EFFLUENT TSS

Loadings – Loadings in Pounds

Average LB/Day 187.7 23.7

Maximum, 7/29/2023 LB/Day \_\_\_\_\_625.5 \_\_\_38.3

RAW INFLUENT – RAW INFLUENT COMPOSITE

Solids TSS – Total Suspended Solids

Average MG/L 291.4

Maximum, 7/16/2023 MG/L \_580.0

INFLUENT TSS – INFLUENT TSS

Loadings – Loadings in Pounds

Average LB/Day 1852.9

Maximum, 7/16/2023 LB/Day 4682.4

EFFLUENT TSS – EFFLUENT TSS

Percent Removal – Percent Removal

Average (Lower Limit) \_\_\_% \_\_\_\_\_85.0 \_\_\_98.6

EFFLUENT GRAB – FINAL EFFLUENT GRAB

Solids Settlbl – Settleable Solids

Maximum, 7/1/2023 ML/L \_\_\_\_0.0

EFFLUENT GRAB – FINAL EFFLUENT GRAB

Enterococci – Enterococci

Average #/100ML 54 1.4

Maximum, 7/27/2023 #/100ML \_\_\_\_\_175 \_\_\_\_4.2

EFFLUENT GRAB – FINAL EFFLUENT GRAB

TRC – TRC Daily Average

Average UG/L 22 0

Maximum, 7/1/2023 4 UG/L \_\_\_\_\_39 \_\_\_\_\_0

EFFLUENT GRAB – FINAL EFFLUENT GRAB

pH1 – pH1

Effluent Minimum pH S.U. 6.0 6.16

Effluent Maximum pH S.U. \_\_\_\_\_9.0 \_\_\_7.43

FINAL EFFLUENT – FINAL EFFLUENT COMPOSITE

Phosphorus – Phosphorus Total

Average MG/L 0.1 0.00

Maximum, 7/6/2023 MG/L \_\_\_\_ \_\_\_0.00

FINAL EFFLUENT – FINAL EFFLUENT COMPOSITE

Ortho Phosphat – Orthophosphate Total

Average MG/L 0.00

Maximum, 7/6/2023 MG/L \_\_\_0.00

FINAL EFFLUENT – FINAL EFFLUENT COMPOSITE

TKN – Total Kjeldahl Nitrogen

Average MG/L 0.9

Maximum, 7/13/2023 MG/L \_\_\_\_1.0

FINAL EFFLUENT – FINAL EFFLUENT COMPOSITE

Nitrate – Nitrate Nitrogen Total

Average MG/L 7.00

Maximum, 7/13/2023 MG/L \_\_\_7.55

FINAL EFFLUENT – FINAL EFFLUENT COMPOSITE

Nitrite – Nitrite Nitrogen Total

Average MG/L 0.01

Maximum, 7/6/2023 MG/L \_\_\_0.01

FINAL EFFLUENT – FINAL EFFLUENT COMPOSITE

Nitrogen – Nitrogen Total

Average MG/L 3.96

Maximum, 7/13/2023 MG/L \_\_\_8.52

FINAL EFFLUENT – FINAL EFFLUENT COMPOSITE

Ammonia – NAmmonia Total

Average MG/L 5.1 0.2

Maximum, 7/27/2023 MG/L 42.6 \_\_\_\_0.3

FINAL EFFLUENT – FINAL EFFLUENT COMPOSITE

Copper – Copper Total

Average UG/L 8.0 3.2

Maximum, 7/6/2023 UG/L 10.6 \_\_\_\_4.7

FINAL EFFLUENT – FINAL EFFLUENT COMPOSITE

Lead – Lead Total

Average UG/L 1.1 <0.5

Maximum, 7/6/2023 UG/L 27.5 \_\_\_<0.5

FINAL EFFLUENT – FINAL EFFLUENT COMPOSITE

Zinc – Zinc Total

Average UG/L 68.3 11.5

Maximum, 7/13/2023 UG/L 68.3 \_\_\_13.0

FINAL EFFLUENT – FINAL EFFLUENT COMPOSITE

Iron – Iron Total

Maximum UG/L

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

**Voted –** Mr. Nolan made a motion to accept 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. Andrews made a motion to adjourn the Meeting. The motion was seconded by Mr. Joubert. 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 Gary Rouleau

Chairman Vice Chairman Commission Member

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Daniel Joubert

Commission Member