

**BERNARDS TOWNSHIP SEWERAGE AUTHORITY
MEETING MINUTES
SEPTEMBER 14, 2021**

1. CALL TO ORDER

The chairperson called the meeting to order at 6:30 PM. Those assembled saluted the flag and the chairperson read the open public meeting statement in accordance with the law.

2. ROLL CALL

Present: Bannan (by phone), Crane, Fields, McNally, Orr

Absent:

Also Present: Director Timko, Attorney Belardo, Superintendent Raymond

3. APPROVAL OF MINUTES

Motion by McNally, second Crane to approve the Regular Meeting Minutes of August 10, 2021.

All in favor; motion carried.

4. CORRESPONDENCE

2nd Quarter Flow Report- Timko gave an outline of some upcoming projects, the Vine restaurant is being rebuilt and may request a waiver for sewer fees, a pizza place is going in on West Henry Street and Fairmount Cemetery is putting on an addition. Flows are low for this quarter.

5. PUBLIC COMMENT

Todd Edelstein 172 Riverside Dr.-requested resolutions be added to the agenda.

Michael Barth 14 Annin Rd.- Comments included the minutes on the website, surcharge of flow on Annin Road during the storm, house connections, storm operations, and requested more information about the I and I project.

6. ACTION/DISCUSSION ITEMS

a. Discussion-Nominate Vice-Chairperson

Motion by Fields, second McNally to elect Bannan as Vice-Chairperson

ROLL CALL

Aye: Bannan, Crane, Fields, McNally, Orr

Nay:

Motion Carried

b. Resolution #2145 2022 Budget Introduction

Motion by Crane, second Bannan to approve Resolution #2145.

ROLL CALL

Aye: Bannan, Crane, Fields, McNally, Orr

Nay:

Motion Carried

**c. Resolution #2146 Award I & I Construction Contract-Insituform Technologies
\$1,097,729.00**

Motion by Fields, second McNally to approve Resolution #2146.

ROLL CALL

Aye: Bannan, Crane, Fields, McNally, Orr

Nay:

Motion Carried

d. Resolution #2147-Stetson Cybergroup CO #1 \$7,200.00

Motion by Crane, second Fields to approve Resolution #2147.

ROLL CALL

Aye: Bannan, Crane, Fields, McNally, Orr

Nay:

Motion Carried

7. CONSULTING ENGINEERS REPORT

Developer Projects:

Bernards Plaza/Dewey Meadow Village Redevelopment

The new forcemain was activated at the Monarch Circle Pump Station which has increased the pumping flow rate at the station. The forcemain ties into the interceptor sewer on Spring Valley Boulevard and the Contractor has to finish modifying the concrete benching inside the discharge manhole to mitigate the turbulence from the discharge. There is still some finishing electrical work and restoration is to be completed at the station as well. Within the new shopping center, there are a couple of remaining punchlist items to be addressed.

LCB Senior Living Mount Airy Road

A Township Engineering preconstruction meeting was held in August at the offices of the Township Engineer. The demolition work for a portion of the onsite sewer was discussed and was underway on September 7-8, 2021. (See attached photos). The developer will look to schedule the cured in place lining of the onsite sewers later in the fall in addition to performing cementious and leak repairs to the manholes. Given the extremely elevated water table at this time, it is noted that the inspector did not observe extensive or obvious leakage onsite but structural repairs and “housekeeping” point repairs may be needed.

Mountainview

A Township Engineering preconstruction meeting was held in August at the offices of the Township Engineer. Sewer construction has not been scheduled yet. Review of shop drawings and cut sheets related to sanitary sewers will be submitted to BTSA for review.

Fenwick Place Subdivision (Liberty Meadow)

Houses are under construction as building permits have been issued. Sewer testing and final video along with submission of as-builts will need to be provided by the developer prior to issuance of certificates of occupancy.

Arbor Terrace Assisted Living/Valley Road

A review letter on the TWA application package is forthcoming and will be issued the week of 9/13.

Authority Projects:

NJPDES Permit Renewal Harrison Brook STP

No Updates.

8. OPERATORS REPORT

Superintendent Raymond gave a brief overview of the September 1st storm (Ida). We received over 8 inches of rain, 6 inches in a 2-hour period. In 45 minutes, the flow went from 3.5 million to 10 million. All 4 pumps at the plant were running at 100% which is 12 mgd and were still not keeping up. All 11 pump stations were running at 100%. There are 2 pumps at each pump station, so 22 pumps running at 100%. The storm completely overwhelmed the system. The operators at

the plant answered and went to every call during the storm. Members thanked Raymond for the efforts during the storm.

August 2021 Report

FLOWS

Total Flow	48,691,000	Gallons
Average Flow	1,571,000	Gallons
Maximum Flow	6,800,000	Gallons
Minimum Flow	524,000	Gallons

OPERATION

<u>Suspended Solids</u>	<u>Dry Weight</u>		<u>NJDEP Limit</u>
Influent	1084	Kg	
Effluent	54	Kg	280 Kg/Day
Net	1030	Kg	87.0 % Removed 85%
Suspended Solids in Effluent	6.0	Mg/l	30 Mg/l.

VG

<u>CBOD</u>	<u>Dry Weight</u>		<u>NJDEP Limit</u>
Influent	524	Kg	
Effluent	16.0	Kg	75.7 Kg/Day
Net	508	Kg	94.0 % Removed 85%
CBOD in Effluent	4.0	Mg/l	8 Mg/l

<u>Phosphorus</u>	<u>Dry Weight</u>		<u>NJDEP Limit</u>
Influent	14	Kg	
Effluent	1.00	Kg	
Phosphorus in Effluent	0.20	Mg/l	0.76 Mg/l

Remarks

Hypochlorite Used: 906 Gals. Sulfur Dioxide Used: 854 Lbs. Alum Used: 5930 Gals.
Caustic Used: 0 Gals. Total Precipitation 8.76 Inches. Effluent reuse 6.948mg

Comments

Routine work and samples completed. Ran gens at pump stations and plant. Checked Pleasant Valley Pump Stations (**requested by DEP enforcement agent**), BRI run, Checked drives, tanks, gens, and vehicles. Checked all syphons, checked Barons, and checked Jamestown Rd., changed carbon E. Oak, Juniper way, Fieldstone and MVR, flushed fieldstone force main, exercised valves at pump stations, exercised sluice gates and valves at plant, cleaned probes at stations, replaced lower belt limit switch on belt press (repair done inhouse by BTSA staff, saving the Authority \$1,465), repaired SO2 scale, plant oil changes, cleaned S. Maple wet well.

TV inspection:

Heather Ln, Clive Ln, Stonehedge Dr, N. Argyle Way, Cameron Ct, Clive Ln, Cedar Creek Dr, Crown Ct, Dewy Meadow, Morrison St,

Jetted:

Victoria Dr, Tuxford Terrace, Oak Ridge Rd, Palmerston Pl, S. Stonehedge, Argyle Way, Cameron Ct, Annin Rd force main,

Manhole inspections:

Customer Service:

Checked manhole at #35 Oak Ridge Rd (all ok flowing normal), #128 Stonehedge ground water in basement mistaken for sewerage,

PROJECTS

Security communication upgrade: Emailed Stonehouse CCTV camera information to Noah from LookFirst. Waiting DVR's due in Sept. Stetson completed plant perimeter inspection.

East Oak St. force main Rehab Phase 2: Punch list created. Lawn damage has been repaired.

O2D High Flow Bypass: Awaiting a meeting with Mike M. to discuss final recommendations.

Smoke Testing/CCTV/Cleaning/I&I Repairs: Bid opening on 8/31/21 resulted in the following: **Contract A-** Insituform Tec., **Contract B-** National Water Main, **Contract C-** Insituform.

Raw Sewerage wet well piping: Improvement scope submitted by MM.

Crown Ct Force Main: Force main is connected. Pumping Services scheduled to hook up flow meter on 8/27/21.

Gas tank removal: Permit received. Waiting for Vinnie to return from vacation to schedule.

Tie Breaker MCC4 – MCC5: Holtaway submitted design eval and estimated construction cost. We will look for additional pricing. NorSal will be out next week.

Gen. #1 Breaker: We should have it back sometime during the week of 8/30/21.

Cell Tower: Verizon's contractor began work on 8/11/21. Still in progress.

Solar Inverter #3 repair: Board replaced 8/24/21. Inverter is back online.

Solar software update: Waiting for an update from Vanguard

August 2021 Monthly Safety Report

Monthly safety inspections were completed.

Conducted weekly and monthly storm drain inspections.

Completed all weekly emergency shower/ eye wash inspections.

Completed all monthly checks on fire extinguishers, lights, emergency lighting, and exit signs.

Started updating task hazard assessments

Continued with scheduled safety trainings

Exercised plant gens, gates, and valves.

Lost time no accidents 42 days (Plus August 31 days).

August 24, 2021

Mr. Doug Speeney,
Northern Bureau of Regional Enforcement
NJDEP
7 Ridgedale Avenue
Cedar Knolls, NJ 07927

CERTIFIED MAIL - RRR

Re: NJDEP Hotline Case No. 21-08-23-0755-22 Operator #60

Dear Mr. Speeney:

On August 22, 2021, hurricane Henri dropped 5 inches of rain in 24 hrs. The Harrison Brook and the Dead River overflowed their banks. The intensity and quantity of rain increased flows at the treatment plant and surrounding pumpstations. The aerators to the oxidation ditches were shut down at 0221 hours August 23, 2021. The oxidation ditches started to overflow at 0700 hours August 23, 2021. The NJDEP Hotline was notified at 0755 hours on August 23, 2021 and was logged in by operator #60 case #21-08-23-0755-22. The overflow ceased at 1500 hours on August 23, 2021. The DEP Hotline was notified at 1630 hours on August 23, 2021, and case # 21-08-23-0755-22 was updated by operator #73.

Due to the rising flow the oxidation ditch aerators turned off. This allowed for fast settling in our clarifiers which eliminates the discharge of activated sludge into the Dead River. With no mixing, the activated sludge quickly settles in the ditches. The overflow was therefore relatively clear, extremely dilute sewage. The amount of the overflow could not be measured.

Operators were kept on duty through the night to monitor plant operations and flow. The level in our oxidation ditches dropped sufficiently that aeration was resumed at 1900 hours on August 23, 2021. Normal plant operations have been completely restored as of that date and time. Residues clean up from the overflow has been completed.

Please advise immediately if you require any additional information regarding this overflow as the Authority wishes to maintain all available defenses with respect to this event.

Sincerely,

Bob Raymond
Plant Superintendent
Cc: Tom Timko, Director
John Belardo, BTSA Attorney
Nancy Wohlleb, MM Consulting Engineer

August 23, 2021

Mr. Douglas Speeney
Northern Bureau of Regional Enforcement
NJDEP
7 Ridgedale Avenue
Cedar Knolls, NJ 07927

CERTIFIED MAIL - RRR

Re: NJDEP Hotline Case No. 21-08-23-1040-13

Dear Mr. Speeney:

On August 22, 2021, hurricane Henri dropped 5 inches of rain in 24 hrs. The Harrison Brook and the Dead River overflowed their banks. The intensity and quantity of rain increased flows at the treatment plant and our surrounding pump stations. At 0700 on 8/23/21 We received a call from Police Dispatch notifying us of a possible manhole surcharge at the corner of Annin Rd and Mine brook Rd. Operators were immediately sent to the location and determined it was one of the manholes feeding our Annin Rd Pump Station. This pump station was experiencing elevated flows due to the rain event. Both pumps were running at 100%. The determination was there was too much flow for the manhole to handle and the excess was surcharging but only through the pick holes in the lid. The overflow was therefore relatively clear, extremely dilute sewage. The amount of the overflow could not be measured.

BTSA personnel were able to stop the surcharge using our Vac Truck to assist the pump station. As the flow subsided the pump discharge slowed allowing for normal operation.

Please advise immediately if you require any additional information regarding this overflow as the Authority wishes to maintain all available defenses with respect to this event.

Sincerely,

Bob Raymond
Plant Superintendent
Cc: Tom Timko, Director
Nancy Wohlleb, PE, CME, MM Consulting Engineer
John Belardo Esq., BTSA attorney

9. RESOLUTION #2148 – Approval of Bill List Dated: September 14, 2021 - \$606,287.25

Motion by Crane, second Fields to approve Resolution #2148 Bill List Dated September 14, 2021 - \$606,287.25.

ROLL CALL

Aye: Bannan, Crane, Fields, McNally, Orr

Nay:

Motion Carried

10. MEMBER/STAFF COMMENTS

Timko stated 41 Harrison Brook Drive's house flooded twice. The first time on 9/1 during Ida. The second time was sewerage backup during the 9/13 storm and is being looked into. There was flooding on Jamestown Road pump station in Spring Ridge and some of the units flooded. They are threatening legal action, but they are not providing details of what happened. Timko advised them to make an insurance claim. Contractor coming to check the equipment to make sure it was functioning properly.

Fields thanked Timko for helping the resident at 41 Harrison Brook Drive.

Timko and Fields will go over the consultant RFQ responses and set up interviews.

Members thanked Raymond again.

Crane had questions about which basins have been investigated already. Timko stated East Oak, Rebel Hill, Crown Court and Stonehouse have but Annin has not. Progress with the I&I program was discussed including miles of sewers checked and contracts let.

11. ADJOURNMENT

Motion by Fields, second Crane, to adjourn at 7:20 pm.

All in flavor; motion carried.

Respectfully submitted,

Susan Long