



PUBLIC WORKS DEPARTMENT

CITY OF PORTSMOUTH
680 Peverly Hill Road
Portsmouth N.H. 03801
(603) 427-1530 FAX (603) 427-1539

VIA EMAIL

November 30, 2023

Benjamin Bahk, Director
Water Enforcement Division
Office of Enforcement and Compliance Assurance
U.S. EPA (2243A)
1200 Pennsylvania Ave, NW
Washington, D.C. 20460

Re: Consent Decree 09-cv-283-PB
Monthly Report on Compliance for October 2023
City of Portsmouth, New Hampshire

Dear Mr. Bahk,

In accordance with Consent Decree 09-cv-283-PB, Section V, item paragraph 20, dated August 12, 2009 and as amended by Consent Decree Modification filed July 2, 2012 and approved by the Court on February 15, 2013 and as amended by Consent Decree Second Modification, Section III, item paragraph 6, filed on April 1, 2016 and approved by the Court on September 28, 2016 the City of Portsmouth is submitting this monthly report on compliance.

The City has completed all Consent Decree construction milestones relative to the upgrade of the Peirce Island Wastewater Treatment Facility ("PI WWTF"). A summary of those milestones and completion dates are set forth in the *Summary of Completed Work* section. Remaining commitments relative to the PI WWTF are the ongoing obligation to meet the existing NPDES permit and the nitrogen removal obligations set forth Section IV, Paragraph 8 of the Consent Decree. That reporting is set forth in the *Nitrogen Removal Reporting Summary* attached.

The one remaining mitigation project described under the Consent Decree Second Modification, Section IV, is summarized under the *Mitigation Project Ongoing* section. Completed mitigation projects are shown on the *Summary of Completed Work* previously referenced.

The status of ongoing sewer separation projects that are part of the City's Supplemental Compliance Plan are summarized under the *Sewer Separation Projects Ongoing* section.

As required by the Consent Decree:

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision in accordance with a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations. Please contact me if you have any questions or require additional information.

Sincerely,



Peter Rice
Director of Public Works
(603) 766-1420

ec: Solanch S. Pastrana-Del Valle, U.S. EPA New England – Region 1
Tracy L. Wood, NHDES Wastewater Engineering Bureau Administrator
Allen Brooks, Esq., Department of Justice, Environmental Protection Bureau Chief
Tonia Bandrowicz, Senior Enforcement Counsel, U.S. EPA New England – Region 1
David Gordon, Esq., U.S. Department of Justice
Tom Irwin, Esq., Conservation Law Foundation
Karen Conard, City Manager, City of Portsmouth
Suzanne Woodland, Deputy City Manager and Deputy City Attorney
Brian Goetz, Deputy Director of Public Works
Erich Fiedler, City Engineer

SUMMARY OF COMPLETED WORK

09-cv-283-PB SECTION	PI WWTF CONSTRUCTION MILESTONE	DATE COMPLETED
III.5.a.	Execute Contract to Construct Upgrades	August 25, 2016
III.5.b.	Submit Two Additional Milestones for EPA Review and Approval	November 29, 2016
III.5.b.	Additional Milestone 1: Transfer of the existing SCADA system to the new Headworks Building	October 18, 2017
III.5.b.	Additional Milestone 2: Startup and testing of the Secondary Influent Pump Station in the new Solids Building	May 7, 2019
III.5.c.	BAF Substantial Completion	December 31, 2019
III.5.d.	Achieve Compliance with NPDES Permit Limits	April 1, 2020

09-cv-283-PB SECTION	COMPLETED MITIGATION & SEWER SEPARATION PROJECTS	DATE COMPLETED
IV.8.a. Mitigation	Interim Enhanced Primary Treatment	January 9, 2018
IV.8.c. Mitigation	Stormwater Project	November 9, 2020
IV.8.e. Mitigation	Water Quality and Ecosystem Health Projects	April 2021
III.6.a. Sewer Separation Projects	Pleasant Street at the intersection with Court Street	November 2018
	McDonough Phase 3B: McDonough Street from Cornwall Street to Brewster Street and Langdon Street	June 2019
	Maplewood Avenue at Fairview Drive	May 2019
	Islington Street Phase 1: Columbia Street to Route 1 Bypass Overpass	October 2021
	Sagamore Ave Extension Project	August 2023

NOTE:

Detailed information on completed milestones, mitigation projects and commitments can be found in previous reports.

Reports are published on the City's website: www.cityofportsmouth.com/publicworks/wastewater/resources

Section Title - CONSENT DECREE REPORTS TO EPA

NITROGEN REMOVAL REPORTING SUMMARY

For a five-year period, commencing June 1, 2020, achieve a seasonal average total nitrogen (TN) effluent concentration from May 1st through October 31st of no greater than 8 mg/L and a monthly average total nitrogen effluent concentration no greater than 8 mg/L from June 1st through October 31st for the Peirce Island Wastewater Treatment Facility with the upgrade.

The average concentration of effluent total nitrogen in the month of October 2023 was 4.6 mg/L TN. The report submitted with the City's Discharge Monitoring Report (DMR) for NPDES Permit NH0100234 is attached.

	<i>Average TN Concentration (mg/L)</i>	<i>Seasonal Average TN Concentration (mg/L) May – October*</i>
May 2020	9.5	5.4
June 2020	6.6	
July 2020	4.9	
August 2020	6.1	
September 2020	4.0	
October 2020	3.2	
November 2020	2.6	
December 2020	3.0	
January 2021	3.0	
February 2021	4.2	
March 2021	4.0	
April 2021	3.0	
May 2021	5.2	4.0
June 2021	3.8	
July 2021	3.4	
August 2021	3.7	
September 2021	3.3	
October 2021	5.1	
November 2021	3.8	4.9
December 2021	4.6	
January 2022	6.5	
February 2022	5.6	
March 2022	4.0	
April 2022	5.2	
May 2022	5.0	4.6
June 2022	4.6	
July 2022	5.7	
August 2022	4.7	
September 2022	4.3	
October 2022	4.4	
November 2022	3.3	3.9
December 2022	3.4	
January 2023	3.8	
February 2023	4.3	
March 2023	4.6	
April 2023	3.7	
May 2023	3.8	3.9
June 2023	3.6	
July 2023	3.9	
August 2023	3.7	
September 2023	3.8	
October 2023	4.6	

**Seasonal average concentration was calculated using the individual TN data points for the time period of the season.*

SEWER SEPARATION PROJECTS ONGOING

This document identifies the sewer separation projects and infiltration and inflow project (Contract #1) approved by the EPA in a letter to the City dated January 24, 2018. EPA, with NHDES concurrence, approved the updated CSO Supplemental Compliance Plan and implementation schedule as contained in the plan. The City shall: complete the six sewer separation projects and the Contract No. 1 wastewater collection system rehabilitation project by no later than October 2023; complete the LTCP update by no later than October 2025; and provide project status on all seven projects as part of the monthly reports on compliance it will be submitting pursuant to Paragraph 6.a. of the Consent Decree Second Modification.

FLEET STREET:

COURT ST TO HANOVER ST & PORTIONS OF ADJACENT STREETS

Current Status (phase of work)	Anticipated Construction Completion Date:
PRELIMINARY DESIGN AND RIGHT -OF- WAY ACQUISITION	TBD
<i>Comments:</i>	
Design and permitting are in progress. The City continues to attempt to negotiate easements and access with adjacent property owners. In October, the City and Underwood Engineers met to discuss marsh restoration options and designs regarding the proposed new stormwater outfall. The City has submitted a time extension request to the EPA to complete its supplement compliance plan projects.	

UNION STREET:

MIDDLE ST TO STATE ST & SECTIONS OF COFFINS COURT & AUSTIN ST

Current Status (phase of work)	Anticipated Construction Completion Date:
Separation Completed. Other work and extended scope ongoing.	October 30, 2023, required separation work completed. 2024 – (Change order work was signed to add additional work next year)
<i>Comments:</i>	
This project was advertised for bidding in January 2023. Construction began in May of 2023. On October 30, 2023, all sanitary sewer and storm sewer systems were separated. Other portions of the work unrelated to the separation are ongoing and a change order was executed to add additional scope.	

SEWER REHABILITATION PROJECT: CONTRACT NO. 1

Current Status (phase of work)	Anticipated Construction Completion Date:
FINAL DESIGN	Winter 2024
<i>Comments:</i>	
Environmental permitting has been underway since March 2023. In October, the City and its consultant Woodard & Curran began compiling bid documents in preparation for advertising the project.	

**Peirce Island Effluent Nitrogen
October 2023**

Date	Effluent Flow MGD	Effluent Ammonia as N mg/l	Effluent Nitrite/Nitrate-N mg/l	Effluent TKN mg/l	Total Nitrogen mg/l
10/1/2023	3.65				
10/2/2023	3.55				
10/3/2023	3.30	0.10	1.40	2.00	3.40
10/4/2023	3.26				
10/5/2023	3.07	0.16	1.70	2.10	3.80
10/6/2023	3.05				
10/7/2023	3.14				
10/8/2023	2.94				
10/9/2023	2.94				
10/10/2023	3.20	1.36	7.96	4.95	12.91
10/11/2023	3.02				
10/12/2023	2.94				
10/13/2023	2.90	0.13	1.70	1.90	3.60
10/14/2023	2.88	0.07	1.40	2.30	3.70
10/15/2023	2.79				
10/16/2023	3.45				
10/17/2023	2.69	0.07	0.75	3.40	4.15
10/18/2023	2.98				
10/19/2023	2.82	0.08	0.76	2.50	3.26
10/20/2023	2.82				
10/21/2023	5.49				
10/22/2023	4.16				
10/23/2023	3.46				
10/24/2023	3.45	0.00	1.10	2.40	3.50
10/25/2023	3.29				
10/26/2023	3.30	1.06	0.85	2.40	3.25
10/27/2023	3.27				
10/28/2023	3.11				
10/29/2023	3.16				
10/30/2023	4.63				
10/31/2023	3.85	0.18	1.15	2.60	3.75
Minimum	2.69	0.0	0.8	1.9	3.3
Maximum	5.49	1.4	8.0	5.0	12.9
Average	3.29	0.3	2.0	2.7	4.6