August 30, 2018

Mark Pollins  
Director of Water Enforcement  
USEPA  
OECA  
1200 Pennsylvania Ave NW  
MAIL CODE 2246A  
Washington, DC 20460

Re: Consent Decree 09-cv-283-PB  
Monthly Report on Compliance for July 2018  
City of Portsmouth, New Hampshire

Dear Mr. Pollins:

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 Consent Decree Second Modification requires the filing of monthly reports as follows: Within 30 days after the end of each month, the City shall submit a written report to EPA, the State, and CLF for the preceding month that shall include a description or reporting of the following: i) status of required construction, including major work items completed in the preceding month; ii) projected work items to be undertaken in the next month; iii) project percent complete based on payments to Contractor for work completed; iv) project percent complete based on time elapsed; v) status of all required permit applications; vi) status of Consent Decree milestones including identifying any problems encountered or anticipated, together with the proposed or implemented solutions; and vii) the monthly average discharge concentrations of total nitrogen for the preceding month, as required in Paragraph 8.b.ii of the Second Modification.

The Consent Decree, First Modification and Second Modification along with such Monthly Reports on Compliance shall be posted on the City's internet site, and maintained accessible to the public online until termination of the Consent Decree. In addition to the submission of Reports on Compliance, the Parties will participate in quarterly meetings or conference calls, if scheduled by EPA, to review the City's compliance with the terms of the Consent Decree.
i. **Status of required construction including major work items completed in the preceding month**

Work completed by the Contractor in the month of July 2018 is as follows:

- Complete demolition and replacement of the outlet piping for the Sodium Hypochlorite bulk storage tanks in the Chemical Storage Building
- Complete installation of the new temporary pumping system from Gravity Thickener No. 2 to Primary Clarifier No. 1 including heat tracing and insulation of exposed piping
- Complete removal of temporary influent force main bypass piping

ii. **Projected work items to be undertaken in the next month**

Ongoing work by the Contractor through the month of August 2018 includes the following:

- Continue electrical, HVAC, and plumbing punch list work at the Headworks Building
- Continue selective demolition and modifications (structural, mechanical process, HVAC, plumbing, roofing, and electrical) in the Grit Building
- Continue installation of grit chamber blowers and pumps in the Grit Building
- Continue installation and wiring of the Motor Control Center (MCC) in the Grit Building
- Continue installation of process equipment in Aerated Grit Chamber No.1
- Continue placing formwork, reinforcing steel, and concrete for the BAF Building elevated slabs, walls, and columns
- Continue installation of process piping in the Stage 1 BAF cells in the BAF Building
- Continue installation of process piping in the BAF Building Gallery
- Continue backfilling around the BAF Building
- Continue masonry work on the BAF Building
- Begin roofing installation on BAF Electrical Room and Stair No. 1
- Continue to export excavated materials and demolition materials off site
- Continue installation of underground electrical and communications ductbanks
- Continue formwork, reinforcing steel and concrete for the Solids Building base slab, columns, walls, and elevated slabs
- Continue process piping installation in Solids Building lower level
- Continue excavation and installation of underground utilities between the Grit Building, and Solids Handling Building, and BAF Building

Projected work to be completed by the Contractor in the month of August 2018 includes the following:

- Complete masonry walls at stairs in Grit Building Lower Level
- Complete installation of slide gates at Secondary Influent Pump Station Wet Wells
- Complete installation of precast planks on roof of BAF Stair No. 1 and Electrical Room
- Complete installation of grit screw in Aerated Grit Chamber No. 1
iii. **Project percent complete based on payments to Contractor for work completed**

The following table provides a summary of the Contractor’s requests for payment, and the resulting percent complete:

<table>
<thead>
<tr>
<th>Original Contract Value</th>
<th>$72,785,545.00</th>
</tr>
</thead>
<tbody>
<tr>
<td>Change Order 1 – January 2017</td>
<td>$367,290.42</td>
</tr>
<tr>
<td>Change Order 2 – May 2017</td>
<td>$546,722.46</td>
</tr>
<tr>
<td>Change Order 3 – August 2017</td>
<td>$93,838.31</td>
</tr>
<tr>
<td>Change Order 4 – December 2017</td>
<td>$162,869.20</td>
</tr>
<tr>
<td>Change Order 5 – May 2018</td>
<td>$249,828.16</td>
</tr>
<tr>
<td><strong>Contract Value Total</strong></td>
<td><strong>$74,206,093.55</strong></td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Payment Application No.</th>
<th>Work Conducted Through</th>
<th>Amount</th>
<th>Cumulative Amount</th>
<th>Percent Complete Based on Contract Value Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>1</td>
<td>09/30/2016</td>
<td>$1,393,500.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>2</td>
<td>10/31/2016</td>
<td>$2,855,100.00</td>
<td></td>
<td></td>
</tr>
<tr>
<td>3</td>
<td>11/30/2016</td>
<td>$1,717,330.09</td>
<td></td>
<td></td>
</tr>
<tr>
<td>4</td>
<td>12/31/2016</td>
<td>$1,374,011.19</td>
<td></td>
<td></td>
</tr>
<tr>
<td>5</td>
<td>01/31/2017</td>
<td>$1,524,496.35</td>
<td></td>
<td></td>
</tr>
<tr>
<td>6</td>
<td>02/28/2017</td>
<td>$1,327,078.04</td>
<td></td>
<td></td>
</tr>
<tr>
<td>7</td>
<td>03/31/2017</td>
<td>$2,767,152.62</td>
<td></td>
<td></td>
</tr>
<tr>
<td>8</td>
<td>04/30/2017</td>
<td>$2,449,209.70</td>
<td></td>
<td></td>
</tr>
<tr>
<td>9</td>
<td>05/31/2017</td>
<td>$1,876,920.03</td>
<td></td>
<td></td>
</tr>
<tr>
<td>10</td>
<td>06/30/2017</td>
<td>$2,345,659.10</td>
<td></td>
<td></td>
</tr>
<tr>
<td>11</td>
<td>07/31/2017</td>
<td>$2,242,655.50</td>
<td></td>
<td></td>
</tr>
<tr>
<td>12</td>
<td>08/31/2017</td>
<td>$4,028,468.63</td>
<td></td>
<td></td>
</tr>
<tr>
<td>13</td>
<td>09/30/2017</td>
<td>$2,757,371.30</td>
<td></td>
<td></td>
</tr>
<tr>
<td>14</td>
<td>10/31/2017</td>
<td>$2,306,338.15</td>
<td></td>
<td></td>
</tr>
<tr>
<td>15</td>
<td>11/30/2017</td>
<td>$1,884,478.12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>16</td>
<td>12/31/2017</td>
<td>$2,151,295.60</td>
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<td></td>
</tr>
<tr>
<td>17</td>
<td>01/31/2018</td>
<td>$1,621,113.58</td>
<td></td>
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</tr>
<tr>
<td>18</td>
<td>02/28/2018</td>
<td>$1,218,795.24</td>
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<td></td>
</tr>
<tr>
<td>19</td>
<td>03/31/2018</td>
<td>$1,737,412.52</td>
<td></td>
<td></td>
</tr>
<tr>
<td>20</td>
<td>04/30/2018</td>
<td>$1,546,079.40</td>
<td></td>
<td></td>
</tr>
<tr>
<td>21</td>
<td>05/30/2018</td>
<td>$1,428,583.12</td>
<td></td>
<td></td>
</tr>
<tr>
<td>22</td>
<td>06/30/2018</td>
<td>$2,638,097.36</td>
<td></td>
<td></td>
</tr>
<tr>
<td>23</td>
<td>07/31/2018</td>
<td>$1,250,957.12</td>
<td>$46,442,102.76</td>
<td>62.59%</td>
</tr>
</tbody>
</table>
Project percent complete based on time elapsed

The contract time to the EPA required milestone for the BAF treatment system completion is 1186 calendar days. The total value of the contract (item iii) is based on the City’s contractual milestone for project substantial completion is 1368 calendar days.

The project is 58.9% complete based on the BAF treatment system completion as of July 31, 2018 and 51.1% complete based on project substantial completion.

iv. Status of all required permit applications

There are no pending permit applications.

v. Status of Consent Decree milestones including identifying any problems encountered or anticipated, together with the proposed or implemented solutions

The construction contract with Methuen Construction Company, Inc. was executed on August 25, 2016. A summary of all milestones required by the Consent Decree Second Modification is provided below.

<table>
<thead>
<tr>
<th>Milestone</th>
<th>Date</th>
<th>Status</th>
</tr>
</thead>
<tbody>
<tr>
<td>Execute Contract to Construct Upgrades</td>
<td>July 1, 2016</td>
<td>August 25, 2016</td>
</tr>
<tr>
<td></td>
<td>September 1, 2016*</td>
<td></td>
</tr>
<tr>
<td>Submit Two Additional Milestones for EPA Review and Approval</td>
<td>December 1, 2016</td>
<td>November 29, 2016</td>
</tr>
<tr>
<td>Additional Milestone 1: Transfer of the existing SCADA system to the new Headworks Building</td>
<td>November 21, 2017</td>
<td>October 18, 2017</td>
</tr>
<tr>
<td>Additional Milestone 2: Startup and testing of the Secondary Influent Pump Station in the new Solids Building</td>
<td>May 9, 2019</td>
<td>On Schedule</td>
</tr>
<tr>
<td>BAF Substantial Completion</td>
<td>December 1, 2019</td>
<td>On Schedule</td>
</tr>
<tr>
<td>Achieve Compliance with NPDES Permit Limits</td>
<td>April 1, 2020</td>
<td>On Schedule</td>
</tr>
</tbody>
</table>

*At the request of the City of Portsmouth, all parties agreed that the Contract Execution Date could be revised to September 1, 2016 to allow more time for bidding and to accommodate the Portsmouth City Council’s review of barging alternatives prior to contract execution. The Contractor’s schedule for completion was reduced to accommodate the modified contract execution delay.

vi. The monthly average discharge concentrations of total nitrogen for the preceding month, as required in Paragraph 8.b.ii of the Second Modification.

The average concentration of effluent total nitrogen in the month of July 2018 was 31.0 mg/L TN. See attached report on page 11, which was submitted with the City’s July 2018 Discharge Monitoring Report (DMR) for NPDES Permit NH0100234.
As requested by the EPA, Consent Decree Mitigations, as required in Section IV, Paragraph 8, of the Consent Decree Second Modification, will be outlined in this monthly report.

**ATTACHMENT A:** A summary of the City’s mitigation initiatives is provided detailing the status of each initiative.

**ATTACHMENT A1:** A summary of the City’s commitments to date as required in Paragraph 8.e., Water Quality and Ecosystem Health Project, of the Consent Decree Second Modification.

**ATTACHMENT A2:** Supplemental Compliance Plan Sewer Separation Projects per Consent Decree, Section IV, Paragraph 12.c. On January 24, 2018, EPA, with NHDES concurrence, approved the updated CSO Supplemental Compliance Plan and implementation schedule as contained in the plan.

These monthly construction reports are posted on the City’s wastewater website at [https://www.cityofportsmouth.com/publicworks/wastewater/resources](https://www.cityofportsmouth.com/publicworks/wastewater/resources).

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 at (603) 766-1416 if you have any questions or require additional information.

Sincerely,

Peter H. Rice, P.E.
Director of Public Works

Enclosures

ec: Joy Hilton, USEPA 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, USEPA Region 1
    David Gordon, Esq., U.S. Department of Justice
    Tom Irwin, Esq., Conservation Law Foundation
    John P. Bohenko, City Manager, City of Portsmouth
    Suzanne Woodland, Deputy City Attorney
    Nancy Colbert Puff, Deputy City Manager
    Brian Goetz, Deputy Director of Public Works
    Terry Desmarais, City Engineer
ATTACHMENT A: MITIGATION

This document summarizes the City’s mitigation initiatives as required in Section IV, Paragraph 8, of the Consent Decree Second Modification.

a) Interim Enhanced Primary Treatment: Perform full scale piloting of alternative coagulant chemicals to see if settling performance can be improved.

<table>
<thead>
<tr>
<th>Current Status:</th>
<th>Completion Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>COMPLETE</td>
<td>JANUARY 9, 2018</td>
</tr>
</tbody>
</table>

Comments:
EPA issued letter of approval to the City on January 9, 2018. Documents are available on the City’s Wastewater and Sewer webpage: https://www.cityofportsmouth.com/publicworks/wastewater/resources

b) Nitrogen Removal: For a five year period, commencing June 1, 2020, achieve specific seasonal average total nitrogen effluent concentrations and monthly average total nitrogen effluent concentrations for the Peirce Island WWTF with the upgrade.

<table>
<thead>
<tr>
<th>Current Status:</th>
<th>Anticipated Completion Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>TREATMENT FACILITY UNDER CONSTRUCTION</td>
<td>NOTED ABOVE</td>
</tr>
</tbody>
</table>

Comments:
A summary for this item is not necessary until the new Biological Aerated Filter (BAF) system construction is completed and fully operational. This is not required until April 1, 2020.

c) Stormwater Project: The City will implement a green infrastructure project(s) using innovative low-impact development approaches to significantly reduce stormwater pollution from one or more existing sites. Cost of project will be $500,000.

<table>
<thead>
<tr>
<th>Current Status:</th>
<th>Anticipated Completion Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ONGOING</td>
<td>TBD</td>
</tr>
</tbody>
</table>

Comments:
The City is proposing improvements at the recently purchased property behind the Department of Public Works (DPW). The specific improvements are still in development and will be detailed in later reports. The City has contracted with an engineering firm to develop the conceptual plans and a kickoff meeting is scheduled in August 2018.

The conceptual design will be developed and used to determine an implementation schedule. Work in this area will help to improve runoff water quality, which travels to Sagamore Creek.
d) Sagamore Avenue Sewer Extension Project: Implement a sewer extension project to provide public sewer service to approximately 83 existing parcels adjacent to or near Sagamore Avenue.

<table>
<thead>
<tr>
<th>Current Status:</th>
<th>Anticipated Completion Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ENGINEERING PRELIMINARY DESIGN PHASE 1</td>
<td>SUBSTANTIAL COMPLETION BY JUNE 30, 2022</td>
</tr>
</tbody>
</table>

**Comments:**
The engineering consultant is analyzing the capacity of the existing sewer lines downstream of the proposed sewer extensions. The consultant is preparing a draft evaluation report for submittal to the City.

e) Water Quality and Ecosystem Health Project:

<table>
<thead>
<tr>
<th>Current Status:</th>
<th>Anticipated Completion Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ONGOING</td>
<td>N/A</td>
</tr>
</tbody>
</table>

**Comments:**
The City of Portsmouth met with members of Great Bay 2020 and CLF on March 15th and April 12th to discuss additional funding commitments. The parties have discussed multiyear planning for these expenditures and the current list of commitments is provided on Attachment A1.

**ATTACHMENT A1** details financial commitments.
ATTACHMENT A1: WATER QUALITY AND ECOSYSTEM HEALTH PROJECTS

This document summarizes payments made for the City's obligations under the Consent Decree Second Modified (No. 09-cv-283-PB), Paragraph 8.e. This item requires a contribution of $500,000 over a period of five years to support water quality and ecosystem health efforts related to the Great Bay Estuary.

<table>
<thead>
<tr>
<th>Projects</th>
<th>Vendor/Agent</th>
<th>Status</th>
<th>Payment Date</th>
<th>Payment Total</th>
</tr>
</thead>
<tbody>
<tr>
<td>Great Bay Monitoring Collaborative</td>
<td>UNH</td>
<td>Paid</td>
<td>08/17/2016</td>
<td>5,000.00</td>
</tr>
<tr>
<td>Sagamore Creek Water quality monitoring project</td>
<td>FB Environmental Assoc.</td>
<td>Executed 08/21/2017</td>
<td>Monthly Invoicing</td>
<td>47,798.00</td>
</tr>
<tr>
<td>Sagamore Creek VRAP Water quality samples</td>
<td>CLF / VRAP / Eastern Analytical Laboratory</td>
<td>Ongoing: invoices paid by City</td>
<td>Intermittent Invoicing</td>
<td>261.00</td>
</tr>
<tr>
<td>Teachers on the Estuary</td>
<td>Great Bay Stewards</td>
<td>Paid 09/15/2017</td>
<td>7,000.00</td>
<td></td>
</tr>
<tr>
<td>Public outreach/education work</td>
<td>The Nature Conservancy</td>
<td>Paid 09/15/2017</td>
<td>14,000.00</td>
<td></td>
</tr>
<tr>
<td>Oyster Shell Recycling</td>
<td>CCA NH</td>
<td>Paid 10/20/2017</td>
<td>4,000.00</td>
<td></td>
</tr>
<tr>
<td>Great Bay Estuary Monitoring Support</td>
<td>UNH Sponsored Programs Administration</td>
<td>Paid 09/15/2017</td>
<td>6,000.00</td>
<td></td>
</tr>
<tr>
<td>Oyster Larval Study: larval supply natural spat recruitment</td>
<td>CLF / UNH</td>
<td>Paid 05/24/2018</td>
<td>8,000.00</td>
<td></td>
</tr>
<tr>
<td>Sagamore Creek 2018 water quality monitoring sampling</td>
<td>FB Environmental Assoc. &amp; Laboratories</td>
<td>Executed 06/19/2018</td>
<td>Intermittent Invoicing</td>
<td>64,713.00</td>
</tr>
<tr>
<td>Data Sonde Purchase for Piscataqua Region Monitoring Collaborative</td>
<td>UNH</td>
<td>Paid 06/27/2018</td>
<td>20,000.00</td>
<td></td>
</tr>
<tr>
<td>Teachers on the Estuary</td>
<td>Great Bay Stewards</td>
<td>Paid 07/26/2018</td>
<td>7,500.00</td>
<td></td>
</tr>
<tr>
<td>Connect The Coast</td>
<td>The Nature Conservancy</td>
<td>Paid 08/23/2018</td>
<td>11,000.00</td>
<td></td>
</tr>
<tr>
<td>Great Bay Estuary clean-up events facilitated by Waterkeeper</td>
<td>Great Bay Stewards</td>
<td>Pending</td>
<td>Pending 4,500.00</td>
<td></td>
</tr>
<tr>
<td>Soak Up the Rain initiative (DES, Waterkeeper, Great Bay Stewards)</td>
<td>Great Bay Stewards</td>
<td>Pending</td>
<td>Pending 6,000.00</td>
<td></td>
</tr>
</tbody>
</table>

**TOTAL** $205,772.00
ATTACHMENT A2: SEWER SEPARATION PROJECTS

This document identifies and summaries six sewer separation projects and one infiltration and inflow project (Contract #1) approved by the EPA in a letter to the City dated January 24, 2018. The 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 #1 wastewater collection system rehabilitation projects 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.

1. FLEET STREET: COURT ST TO HANOVER ST & PORTIONS OF ADJACENT STREETS

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Current Status: (phase of work)</th>
<th>Anticipated Construction Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>FLEET ST</td>
<td>ENGINEERING RFP IN DRAFT</td>
<td>TBD</td>
</tr>
</tbody>
</table>

Comments:

2. PLEASANT STREET: AT THE INTERSECTION WITH COURT ST

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Current Status: (phase of work)</th>
<th>Anticipated Construction Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>PLEASANT ST</td>
<td>CONSTRUCTION</td>
<td>2019</td>
</tr>
</tbody>
</table>

Comments:

Contractor completed installation of 12” water main on Pleasant Street and has switched 50% of properties from the temporary main onto the new permanent main. Installation of sewer and drain mains for sewer separation will be completed in September/October 2018.

3. MCDONOUGH PHASE 3B: MCDONOUGH STREET FROM CORNWALL ST TO BREWSTER ST & LANGDON ST

<table>
<thead>
<tr>
<th>Project Name</th>
<th>Current Status: (phase of work)</th>
<th>Anticipated Construction Completion Date</th>
</tr>
</thead>
<tbody>
<tr>
<td>MCDONOUGH PH 3B</td>
<td>CONSTRUCTION</td>
<td>SEPTEMBER 15, 2018</td>
</tr>
</tbody>
</table>

Comments:

Drainage and sewer construction is complete along the following streets: McDonough St west from Cornwall St to Langdon St, McDonough St east from Langdon St to Brewster St, Brewster St, and Langdon St.

Certificate of Substantial Completion issued on December 8, 2017.
Final Completion of the project, punch list and warranty items are on-going.
Anticipated project Final Completion is September 2018.
4. ISLINGTON STREET PHASE 1: COLUMBIA ST TO ROUTE 1 BYPASS OVERPASS

<table>
<thead>
<tr>
<th>Project Name:</th>
<th>Current Status: (phase of work)</th>
<th>Anticipated Construction Completion Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>ISLINGTON ST PH 1</td>
<td>FINAL DESIGN</td>
<td>2020</td>
</tr>
</tbody>
</table>

**Comments:**

Project final design is 100% complete. Anticipate advertising for bids in the fall of 2018.

5. MAPLEWOOD AVENUE: AT FAIRVIEW DR

<table>
<thead>
<tr>
<th>Project Name:</th>
<th>Current Status: (phase of work)</th>
<th>Anticipated Construction Completion Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>MAPLEWOOD AVE</td>
<td>CONSTRUCTION</td>
<td>2019</td>
</tr>
</tbody>
</table>

**Comments:**

Construction began the week of July 9, 2018. Construction activity included: installation and connections to the temporary water distribution system, installation of drainage pipe and structures, and installation of water main piping. Work on/at Fairview Drive is anticipated in late summer/fall 2018.

6. UNION STREET: MIDDLE ST TO STATE ST & SECTIONS OF COFFINS CT & AUSTIN ST

<table>
<thead>
<tr>
<th>Project Name:</th>
<th>Current Status: (phase of work)</th>
<th>Anticipated Construction Completion Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>UNION ST</td>
<td>ENGINEERING RFP IN DRAFT</td>
<td>TBD</td>
</tr>
</tbody>
</table>

**Comments:**

7. SEWER REHABILITATION PROJECT

<table>
<thead>
<tr>
<th>Project Name:</th>
<th>Current Status: (phase of work)</th>
<th>Anticipated Construction Completion Date:</th>
</tr>
</thead>
<tbody>
<tr>
<td>CONTRACT 1</td>
<td>PROGRAM IN DEVELOPMENT</td>
<td>TBD</td>
</tr>
</tbody>
</table>

**Comments:**

The City’s goal is to increase capacity in the sewer collection system by reducing infiltration and inflow. A Sewer System Evaluation Survey (SSES) Infiltration Study was completed in December 2017. The study identified the highest priority areas of the wastewater collection system. They include: Gosling Road Basin: GR1 and the Lafayette Road Basins: LR3, LR4 & LR6, and are proposed for rehabilitation as Contract No. 1 of the Study. An RFP for engineering design services will be developed. In addition, the City is moving forward with smoke testing in order to identify inflow sources. The results will be incorporated into any rehabilitation work.

Smoke testing will begin the week of September 4, 2018.

A web page has been created for public outreach and notification:

https://www.cityofportsmouth.com/publicworks/wastewater/sewer-smoke-testing

The Study and Appendices are posted on the City’s Wastewater and Sewer webpage:

https://www.cityofportsmouth.com/publicworks/wastewater/resources
## Peirce Island Effluent Nitrogen
### July 2018

<table>
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<tr>
<th>Date</th>
<th>Inf Flow MGD</th>
<th>99959 Effluent Ammonia as N mg/l</th>
<th>99960 Effluent Nitrite/Nitrate-N mg/l</th>
<th>99961 Effluent TKN mg/l</th>
<th>99962 Total Nitrogen mg/l</th>
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