AGENDA

DATE:       Monday, April 20, 2015
TIME:       5:30 PM
PLACE:      Public Works Center (Second Floor Conference Room), 15 South Smith Street

WPCA Regular Meeting:

1. Call to Order

2. Executive Session to discuss ongoing litigation with Flowserve about main lift pumps’ failure and CH2M Hill’s Personnel Matters

3. Approve the minutes from WPCA Meeting held on March 16, 2015 (copy included)

4. Authorize the Chairman or Vice Chairman of the Water Pollution Control Authority to execute an amendment to the April 5, 2013 Agreement with Wright-Pierce in the amount of $21,500 to provide additional engineering services, training, and record drawings related to the Sammis Street Pump Station and Ann Street Siphon Chamber in accordance with a letter proposal dated December 16, 2013. (copy included)

Account No. 09114062-5777-C0360

5. Reports:
   a. FY14/15 Revenues/Expenditures MUNIS Reports (copy included)
   b. Discussion on Finance Committee Comments on Rate Structure
   c. Discussion on Shellfish Closures (letter attached)
   d. Discussion on WPCA Projects:
      1) Beacon Street Interceptor Service Area Sewer System Rehabilitation Project
      2) Sammis Street Pump Station and Ann Street Flood Damage Upgrade
   e. Sewer Use Bill Appeals/Adjustments Update
      1) Appeal status
   f. Information Copies:
      1) OMI Monthly Operating Reports – March 2015 (copy included)

6. Adjournment

Next WPCA Meeting:    Monday, May 18, 2015
                      5:30 PM
Second Floor Conference Room, Public Works Center
15 South Smith Street
CITY OF NORWALK
WATER POLLUTION CONTROL AUTHORITY
March 16, 2015

Attendance:  Darren Oustafine, Chairman
             Lewis Clark, Vice Chairman
             Mayor Rilling
             James Clark
             John Flynn
             Jerry Petrini

Staff:      Hal Avord, DPW Director
            Lisa Burns, DPW Operations Director
            Ralph Kolb, DPW Senior Environmental Engineer

Others:     Kevin Dahl, CH2MHill, OMI, Inc.
            John Ahern, CH2MHill, OMI, Inc.
            Paola Molloy, CH2MHill, OMI, Inc.

1. **PUBLIC HEARING ON THE PROPOSED SEWER USE RATES TO BE EFFECTIVE JULY 1, 2015 (NOTICE INCLUDED AND 108 AND 108C PARCELS)**

** MR. OUSTAFINE MOVED TO OPEN THE PUBLIC HEARING
** MOTION PASSED UNANIMOUSLY
The public hearing opened at 5:30PM

** MR. OUSTAFINE MOVED TO CLOSE THE PUBLIC HEARING
** MOTION PASSED UNANIMOUSLY
The public hearing closed at 5:34PM
No one from the public attended

WPCA REGULAR MEETING:

2. **CALL TO ORDER**

Chairman Oustafine called the meeting to order at 5:35PM

3. **EXECUTIVE SESSION TO DISCUSS ONGOING LITIGATION WITH FLOWSERVE ABOUT MAIN LIFT PUMPS' FAILURE**

** MR. JAMES CLARK MOVED TO ENTER INTO EXECUTIVE SESSION
** MOTION PASSED UNANIMOUSLY
Executive session began at 5:35PM
Executive session ended at 6:05PM
No action was taken
Mayor Rilling left at 6:05PM
4. **APPROVE THE MINUTES FROM WPCA MEETING HELD ON FEBRUARY 9, 2015 (COPY INCLUDED)**

**MR. FLYNN MOVED TO APPROVE THE MINUTES**
**MOTION PASSED UNANIMOUSLY**

5. **APPROVE THE SEWER USE RATES TO BE EFFECTIVE JULY 1, 2015**

Ms. Burns discussed the properties of the 108 and 108C that will be affected and said that the key is to have consistency on how the billing groups are charged. Mr. Kolb said that there are a total of 323 properties that are on the list, and said that the recommendation of staff is that the properties that the Tax Assessor has listed as the 108 land use code will be billed by the number of units, and the properties that are listed as the 108C land use code will be billed by consumption for the sewer use billing. After further discussion it was the consensus of the Board that this is a fair and equitable way to proceed. Mr. Petrine said that if any property owner wishes to appeal their land use code that they could do so to the Tax Assessor Board of Assessment and appeals.

**MR. JAMES CLARK MOVED TO APPROVE THE ITEM**
**MOTION PASSED UNANIMOUSLY**

6. **APPROVE THE PROPOSED FY 2015-16 OPERATING BUDGET (COPY ATTACHED)**

Ms. Burns reported and said that the major changes on the revenues is that staff is expecting the septage disposal fees to trend down, and that instead of receiving nitrogen credits Norwalk will be paying $47,000 this year.

7. **APPROVE THE PROPOSED FY 2015-16 CAPITAL BUDGET (COPY ATTACHED AND MEMORANDUM)**

Ms. Burns reported and said that the capital budget request includes five million dollars for the replacement of the main lift pumps and one million dollars for the Ely Avenue and Bouton Street hydraulic repair.

**MR. PETRINI MOVED TO APPROVE THE ITEMS 6 AND 7**
**MOTION PASSED UNANIMOUSLY**

8. **REPORTS**

a. Introduction of Paola Molloy as CH2MHILL's Assistant Project Manager
   Mr. Dahl introduced Paola Molloy as the new Asst. Project Manager and said that she is an environmental engineer by trade.

b. Financial Model Report (copy included)
   Ms. Burns reported and said that this is a very comprehensive financial model and is done by ARCADIS. She said and it projects the sewer use rates out, the draw down on cash.
c. FY13/14 and FY 14/15 Revenues/Expenditures MUNIS Report (copy included)
Mr. Kolb reported on the FY 13/14 report and said that everything is tracking as expected with the exception of the revenues from septic disposal, and they are down more than was anticipated due to Kaiser-Battistone being sold and since then they have been going to Bridgeport. He said that they are one of the biggest septage haulers and it will have a big impact on septage revenues.

d. Discussion or emaciated birds at WWTP (article included)
Mr. Ahern said that last Tuesday the operator at the Wastewater Treatment Plant had noticed an unusual number of dead birds underneath the grading by the chlorine contact tank. He said that staff removed them and notified the Fish and Wildlife at DEEP. He said that that the DEEP had said that there have been numerous issues with dead birds throughout the State, and they did perform an autopsy and it was determined that the birds died from starvation due to the cold winter.

e. Discussion on Treated Solids Loss at WWTP on 3/12/15
Mr. Kolb said that on March 12, 2015, there was a treated solids loss at the Wastewater Treatment Plant due to flows being higher than normal due to the snow melt, and the influent wastewater temperature being colder this time of year. He said that all the proper entities were notified and when OMI, Inc. spoke to Agriculture they had said that Norwalk was the third wastewater facility that day to call in a treated solids loss.

f. Discussion on WPCA Projects:
1) Beacon Street Interceptor Service Area Sewer System Rehabilitation Project
Mr. Kolb said that the project is going well and that the sanitary sewer has been lined on most of the side streets, and that they will now be lining the main interceptor. He said that there will be multiple people on site communicating with the neighbors that will be affected. Mr. Petriuni asked if this will have anything to do with the turf field at Nathan Hale Middle School. Mr. Kolb said "no" and that they will be going around that. Mr. Kolb said that the project is scheduled to start within the next couple of weeks and go to the end of May.

2) Sammis Street Pump Station and Ann Street Flood Damage Upgrade
Mr. Kolb reported and said that the contractor is now working on the punch list for the Sammis Street Pump Station and that they have provided training to OMI Inc. staff on the pumps. He said that the Ann Street flood damage upgrade is now done and is back on line for monitoring.

g. Sewer Use Bill Appeals/Adjustments Update
1) Appeal status
Mr. Kolb said that the adjustments to date are $73,403 and that there was a big adjustment of $51,460 at 10 Norden Place in the favor of the WPCA. Mr. James Clark asked if it would be worth going back farther than one year. Ms. Burns said technically the WPCA can go back for administrative errors and when the WPCA owes the property owner for an adjustment they are adjusted three years back, but said that it would be problematic to adjust a place of business more than one year once their books are closed.
h. Information Copies:
   1. OMI Monthly Operating Reports-January and February 2015 (copy included)
      Mr. Kolb reported and said that AJ Penna had performed a repair on the collection
      system at 47 Wall Street and have tied it into the main line. He said that nitrogen
      performance fell into band “D” for January and February.

   2. Final Nitrogen Credit-2014 (copy included)
      Mr. Kolb said that the WPCA will be paying $47,231 to purchase nitrogen credits.

9. ADJOURNMENT

** MR. FLYNN CLARK MOVED TO ADJOURN
** MOTION PASSED UNANIMOUSLY

The meeting adjourned at 7:10PM

Respectfully Submitted,

Dilene Byrd
April 17, 2015
W-P Project No. 12657A

Mr. Ralph Kolb, PE
Wastewater Systems Manager
City of Norwalk Department of Public Works
15 South Smith Street
Norwalk, CT 06855

Subject: Proposa. for Engineering Services
Sammis Street Pump Station Record Drawings

Dear Ralph:

As discussed, this is our proposal to provide Record Drawings and other additional services related to the construction and start-up phases of the Sammis Street Pump Station Project.

Scope of Services

1. Prepare Record Drawings for Sammis St. Pump Station – Following completion of the project, Wright-Pierce will obtain redlined drawings from the Contractor and will incorporate field changes made during construction as a result of requests for information, change orders and unforeseen conditions into the drawings. In addition, Wright-Pierce staff will conduct a site visit to verify the changes made and to identify additional changes that may have been left off the Contractor’s redline drawings. The project drawings will be updated in AutoCAD to reflect these changes to the extent known. Wright-Pierce will provide three sets of full-size hard copy Record Drawings for the project. Wright-Pierce will also provide an electronic PDF copy of the Record Drawings.

2. Overall Training – Each of the manufacturers is providing training on their specific piece of equipment. There has been some discussion about having Wright-Pierce meet with OMI and City staff to provide a general overall training session on the station to try to tie together the operations training provided by each of the equipment manufacturers. We have included in the budget time for a one-day site visit to meet with OMI and City staff, to walk through the pump station and provide a general overview of the various features incorporated into the project and the overall design intent and to answer any questions that may arise.

3. Additional engineering during construction – During the construction phase of the project, there were several changes to the project that required additional design services from Wright-Pierce that were not anticipated as part of the overall scope of services. These services have included but are not limited to efforts to repave a section of the existing walkway past the project site, design of an elevated platform on the back side of the new generator, raise the junction boxes for each pump up above the level of the new slab, and research into various portable hoist alternatives because the hoists originally to be provided by OMI did not have sufficient capacity to lift the new pumps.
4. **Prepare Record Drawing documentation for the main SCADA panel in lab** – As part of various pump station and other on-going improvements at the WPCF, several modifications have been made to this panel in the lab. Wright-Pierce would work with Aaron Associates to visit the site and develop documentation of the panel. We anticipate a one-day site visit by Aaron and by a Wright-Pierce instrumentation engineer to document field conditions and then an additional day of effort to develop Record Drawing documentation for this panel.

**Compensation**

We propose to provide the services as described above under the terms and conditions of our existing agreement for the Sammis Street Pump Station project. We propose to provide these additional services on a time charge basis with a not-to-exceed fee of $21,500. This would increase our overall not-to-exceed cost to $243,945.

As necessary, we can revise our scope and fee to meet any technical or budgetary constraints. If this proposed scope and fee are acceptable, we are prepared to begin the Record Drawings and overall training as an Additional Service under the terms of our original Agreement.

We look forward to the opportunity to continue working with you and the City of Norwalk. Feel free to contact me with any questions or comments at (860) 852-1950.

Very truly yours

WRIGHT-PIERCE

Christopher N. Pierce, P.E.
Senior Project Manager
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### 22 WATER POLLUTION CONTROL

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**TOTAL PUBLIC WORKS**
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**TOTAL WATER POLLUTION CONTROL**
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**GRAND TOTAL**
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**END OF REPORT - Generated by Dilene Byrd**
Shellfish Closure Summary 04/10/15

The extreme fluctuations in weather conditions over the past few weeks, including heavy rain events, rapid snow melt, and subsequent freezing have resulted in a number of municipalities reporting sewage bypasses, WPCF malfunctions, and exceedances, which prompted a series of shellfish closures across the western end of Long Island Sound early in March.

Following these shellfish area closures, the DA/BA has collected shellfish and water samples for analysis of levels of indicator organisms used to assess impacts from these events. In some cases, favorable results have allowed us to reopen shellfish growing areas. In other cases, elevated results have required that areas remain closed until follow-up testing can be performed and levels have dropped below the reopening limits.

Satisfactory shellfish tissue sample results are required for re-opening growing areas prior to 21 days following a raw sewage discharge to a shellfish growing area:

National Shellfish Sanitation Program Model Ordinance, Section II, Ch. IV Shellstock Growing Areas, @.03 A (5) (d) (ii): For emergency closures (not applicable for conditional closures) of harvest areas caused by the occurrence of raw untreated sewage discharged from a large community sewage collection system or wastewater treatment plant, the analytical sample results shall not exceed background levels or a level of fifty (50) male-specific coliphage (MSC) per 100 grams* from shellfish samples collected no sooner than seven (7) days after contamination has ceased and from representative locations in each growing area potentially impacted

*Results are reported in plaque forming units (PFU)/100 g of tissue or 100 mL of water

Following is a summary of recent events, the schedule of testing performed, the associated sample results, and the actions the DA/BA has taken or will take, based on these results.

1. Greater New Haven WPCA: 03/05/15 a fecal coliform exceedance reported from the Greater New Haven WPCF resulted in closure of West Haven/New Haven/ East Haven 1.5" Conditionally Approved area on 03/06/15. Water and shellfish samples were collected in growing area and from the WPCF on 03/19/15.

3/19/15 Results:
   New Haven shellfish MSC: 181 PFU/100g

3/23/15 Results:
   New Haven shellfish MSC: 1091 PFU/100g

3/31/15 Results:

P.O. Box 97, 190 Rogers Avenue, Milford, CT 06460
Phone: 203-874-0696  Fax: 203-783-9976
An Affirmative Action/Equal Opportunity Employer
New Haven shellfish MSC: <11 PFU/100g
West Haven shellfish MSC: <10 PFU/100g

4/2/15: Based on these results, the West Haven/New Haven/East Haven Conditionally Approved Area was reopened.

Greenwich WPCF: 3/12/15 a solids loss and elevated fecal coliform results triggered a closure of a portion of Approved waters and all Conditionally Approved waters in Greenwich. Water sample results indicated fecal coliform levels in growing area were satisfactory. Tissue samples collected from the closest bed to the WPCF showed levels of viral indicator Male specific coliphage (MSC) and fecal coliform levels within the limits allowed for reopening. MSC and fecal results collected at WPCF were also satisfactory.

3/21/15: Approved and Conditionally Approved beds in Greenwich were reopened.

2. Darien: 03/18/15 Stony Brook Pump Station failure caused by an electrical equipment failure triggered the closure of portion of Stamford Approved, Darien Long Neck Point Conditionally Approved area, the Darien portion of Conditionally Approved area #1, and all Approved waters in Darien. Water and shellfish samples were scheduled for collection for MSC and fecal coliform testing on Monday 03/23/15, however a tissue sample from this area could not be obtained. MSC and fecal coliform water sample results were collected, however a satisfactory tissue sample result is required for re-opening.

3/31/15 Sample Results:
Darien L512: MSC Sample Results 97 PFU/100g
Stamford L1303E: MSC Sample Results 12,149 PFU/100g

4/7/15 Sample Results:
Darien L-1264 South of Goodwives in Approved: 668 PFU/100g
Stamford L-654 Approved: 55 PFU/100 g

4/10/15: DA/BA contacted the Stamford Collection System Supervisor Steve Pietryzk to see if anything unusual was happening in the collection system. DA/BA also contacted Marie Sabo at the Stamford WPCF who reported all systems at the WPCF within normal limits. No exceedances or bypasses to report from either the collection system or WPCF in Stamford.

3. Norwalk: From 3/12/15 to 3/17/15 multiple raw sewage bypasses in Norwalk and a solids loss at the WPCF triggered the closure of Conditionally Approved Area #1 in Norwalk on 3/17/15. Water and shellfish samples were collected for MSC and fecal coliform testing on Monday 3/23/15 from two locations in the growing area. Both sets of samples returned low fecal coliform results, however the MSC results were elevated above reopening criteria of 50 PFU/100g.
3/23/15 Sample Results:
- Norwalk L200 Tavern Island: shellfish 102 PFU/100g
- Norwalk L10C/101 White Rock: shellfish 205 PFU/100g

3/31/15 Sample Results:
- Norwalk L10C/L101 White Rock: MSC shellfish sample 24,097 PFU/100g
- Norwalk L20C Tavern Island: MSC shellfish sample 13,905 PFU/100g

4/8/15 Sample Results:
- Norwalk L10C/L101 White Rock: MSC shellfish sample 18,428 PFU/100g

4/6/15: Kristin DeRosia-Banick spoke with Ralph Kolb, Wastewater Systems Manager with the the Norwalk Public Works Department. Ralph provided Kristin with the following summary of the sewer line situation on Pine Rock Ave.

The Norwalk WPCA’s contract operator, CH2M, identified and is currently replacing approximately 700 ft of sanitary sewer main on Pine Point Road between Roton Avenue and Nearwater Road. The anticipated completion date of this work is around April 22, 2015. CH2M also inspected via CCTV the surrounding sanitary sewer system in this vicinity and did not identify any other repairs needed.

4/10/25: Kristin DeRosia-Banick spoke with Jim Rogers, Superintendent of the Town of New Canaan WPCF. Jim reported that WPCF was operating well with recent fecal coliform results <10 CFU/100 mL. The New Canaan WPCF discharges in the Five Mile River which discharges into Long Island Sound at the Darien/Norwalk line. They are on UV disinfection and disinfect year-round. No collection system issues have been identified.

4. **Westport:** 3/19/15 a sewer line break resulted in an estimated 25,000 gallon raw sewage discharge with an unknown quantity of sewage entering a storm water system discharging into the Saugatuck River. This event triggered the closure of Conditionally Approved Area #1 in Westport on 3/20/15. Water and shellfish samples were collected for MSC and fecal coliform testing on Monday 3/23/15 from a Conditionally Approved lot at the mouth of the Saugatuck River. Fecal coliform results from shellfish and seawater samples had favorable results, however the MSC results were elevated above reopening levels.

3/23/15 Sample Results:
- Westport L-115 Saugatuck: MSC shellfish sample 700 PFU/100g.

3/31/15 Sample Results:
- Westport L-115 Saugatuck: MSC shellfish sample 425 PFU/100g

4/3/15: The Town of Westport reported a force main break occurring at 274 Compo Road South which resulted in an estimated 5,000 to 10,000 gallons of raw sewage being discharged into receiving waters of the Saugatuck River and subsequently Long Island Sound. As a result of this event, DA/BA closed all Approved waters in Westport on 4/3/15 at approximately 5 pm, effective 4/4/15.
In order to evaluate the extent of the impact of this bypass event, DA/BA collected shellfish samples from offshore Westport Approved waters for MSC.

4/8/15 Sample Results:
Westport L-1003 Offshore Approved: MSC shellfish sample 16,100 PFU/100g
Westport L-599 Cockenoe Reef: MSC sample results 1374 PFU/100g

4/10/15 Summary of Action:
The DA/BA continues to be in contact with each municipality on the shoreline from Stamford to Westport in an attempt to identify any potential sources of sewage contamination that could be impacting the shellfish growing waters in these areas.

The DA/BA has been using MSC as an indicator organism for evaluating impacts to growing areas following sewage bypasses since 2011. Prior to these events, the highest MSC results ever obtained from a shellfish sample was a 2450 PFU/100 g collected directly at the outfall of a WPCF. We have never observed MSC levels as elevated as we have observed over these past few weeks of sampling.

Based on the widespread and extreme elevation in the MSC shellfish sample results in shellfish growing areas from Darien to Norwalk, additional MSC and fecal coliform testing will be performed on Monday April 13th. The DA/BA will be running replicate MSC samples with the assistance of Tom Howell of Spinney Creek, Maine. Shellfish from 3 sites in the impacted area will be sampled for both MSC and fecal coliform (Norwalk L-100, Norwalk L-201, and Westport L-115) and one site in the Housatonic will be tested for MSC and fecal coliform and used as a control, as we have a robust data set of MSC results from the river to compare next week’s results to. All routine water quality monitoring stations in the Darien, Norwalk and Westport growing area will be sampled for fecal coliform as well.

Based on the results of this additional testing, and in consultation with FDA, DA/BA will determine the need for additional testing for viruses such as Norovirus, which would be performed at the FDA Center for Food Safety and Applied Nutrition Gulf Coast Seafood Laboratory.

If you have additiona questions or concerns, please contact Kristin DeRosa-Banick at Kristin.DeRosa-Banick@ct.gov.
1 Plant Activities

A Maintenance

MRR Repairs/Upgrades
- Replaced Glycol in building heating systems
- Replaced Macerator #2. Replaced shaft on Primary Pump #5
- Replaced Output Boards in Secondary Bldg. SCADA

Work orders |MC
# of WOs completed
This Month | Last Month
355 | 639
538 | 121

Ending WO backlog

B Violations

Permit Monthly
- 3-12 Treated Solids Loss FT's #2, #3, #4 Due to mechanical failure of Polymer Pump. Repaired Pump.
- 3-14 Treated Solids Loss FT's Heavy Rain High Flows
- 3-17 Daily TSS 48mg/l, Permit limit 40mg/l. Cold weather snow
- 3-17 Daily BOD 45mg/l, Permit limit 40mg/l. Cold weather snow

Performance Guarantee

- Excursion - Reason
- 3-12 Treated Solids Loss FT's #2, #3, #4 Due to mechanical failure of Polymer Pump. Repaired Pump.
- 3-14 Treated Solids Loss FT's Heavy Rain High Flows
- 3-17 Daily TSS 48mg/l, Permit limit 40mg/l. Cold weather snow
- 3-17 Daily BOD 45mg/l, Permit limit 40mg/l. Cold weather snow

C Training

Safety
- Mike Coon CH Safety Rep on site conducting Safety Training
- All Personnel completed Enterprise and OM Services Training

Other
- Flight Pump Training at Sammis St. PS
- CARE Training
- Grinder Training at Sammis St. PS

2 Collection Systems

A Pump Stations

MRR Repairs/Upgrades
- Contractor continued work on Sammis St. PS

B Collection System

Spill / Overflow Reports
- 3-15 Grease Blockage 51 East Ave. 400 gal Sewage Spill
- 3-17 Grease Blockage 261 Ely Ave. 1500 gal. Sewage Spill
- 3-27 collapsed pipe 32 Pine Pt. Rd. 500 gal. spill. Repaired pipe
- 3-29 SYNAGRO spilt 96 gal of sewage in containment area.

- 3-29 collapsed pipe 32 Pine Point Rd. 500 Gal. spill repaired pipe and clamed spill.
3 Personnel

A Number of Associates / Wastewater Operator Certifications

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B Changes

Assistant Project Manager Paola Molloy first day 3-9-15
Operator Tim Slauson reinstated on 3-9-15

4 Safety

OSHA Recordable Incidents
Lost Time Incidents

None
None

5 Total Nitrogen Performance

| Avg. Influent Wastewater Temp. (°C) | 11 |
| Avg. BOD Loading (lbs./day)         | 15,003 |
| Actual TN Performance (lbs./day)   | 775 |
| Lookup Value (lbs./day)            | 1,625 |
| Actual minus Lookup (lbs./day)     | -850 |
| TN Performance Band                | D |
| Uncontrollable Circumstances       | None |

Operational Review Findings
SOP Status

Summary of Findings
Inventory at targets.

Description of Ranges/Bands

Expected Operating Range

Band A
Band B
Band C
Band D

Actual TN (atTN), Lookup Value (LV)
atTN between 1 to 175 lbs./day less than LV
atTN between LV and up to 117 lbs./day in excess of LV
atTN between 118 and 234 lbs./day in excess of LV
atTN greater than 234 lbs./day in excess of LV
atTN 1/6 lbs./day less than LV

6 Miscellaneous

Regulatory Inspections
Storm Flow Events
1. Plant Operations
   A. Major Parameters

   - Monthly average BOD (mg/l)
   - Monthly average TSS (mg/l)
   - Monthly average Fecal (#/100 ml)
   - Monthly average TN (lbs/day)
   - 12-month Rolling average TN (lbs/day)
   - Monthly average Flow MGD
1) Collection System Data Management and Inspection

(a) Cityworks cata entry for March 2015 are reflected in attached tables
   (i) Minimal CCTV was performed during the month of March 2015, due to the unusually cold weather, and CCTV computer upgrades. Monthly TV numbers are lower than KPI in O&M manual due to cold weather and downtime during technology updates to the CCTV truck. Next month's TV inspection efforts continue to focus on documenting known critical areas.
      1. Monthly rolling averages
         a. TV – 0.80 miles a month
         b. Cleaning – 5.59 miles a month
   (ii) Focused CCTV and Cleaning being performed on clay pipes in the system. The city is divided into 4 quadrants and current CCTV and cleaning effort focused on the Northwest quadrant. The crews perform the work in a sequence from upstream to downstream, with a priority on inspecting pipes that have not been CCTVed in the last three years. The SW quadrant will be the next focus, since the system is older and likely in more need of repair.
      1. Older clay pipes that haven't been TV'd in over 3 years (NW Quadrant)
      2. Sewer problem areas

(b) Hot spot list
   (i) Final review of list has been completed and this layer is in GIS.
   (ii) Monthly work on hot spots are tracked/documented separately for clarity.
   (iii) Friday the 14th of Nov, crews started with week 1 of hotspot list. They completed all 6 weeks (6x 10 weeks to perform the hotspots area – holidays, vacations, cold weather).
   (iv) 2nd round of Hotspots inspection started in March.

(c) Deformed pipe list
   (i) 61 out of 61 deformed pipe segments have been inspected and these pipes have been reviewed and rated based on LOF, COF and total risk.

(d) Pipe condition downstream of PS forcemains
   (i) TV work completed for 18 PS and these pipes have been reviewed and rated based on LOF.
   (ii) Bouton Street PS done. 2 PS remaining – Fort Point and Perry Ave PS. CCTV to be performed when flows are low and will need police traffic protection.

(e) Protruding laterals
   (i) Cutter has been used to remove protruding laterals as they are found
   (ii) A list will be generated for any outstanding laterals if required. Some have been removed and there are no outstanding protruding laterals remaining.

(f) Manhole raising
   (i) No manholes were identified to be raised.

2) Major Repair & Replacement Projects:

(a) Betts Place & Harvey St – CCTV work is needed, update GIS information, cut pipe
   (i) Betts to Seaview Ave CCTV completed.
   (ii) CCTV of upstream line from Betts to Harvey was performed in March. The work is completed. Could not TV all the way, since the 6 inch changes to a 4 inch and is at a sharp bend and there is no way to access the line. TVed the 6 inch about 40 feet and stopped.

(b) New Manholes - Bouton Street,
   (i) Bouton Street: We re-submitted DPW permit application week of January 12th. A few modifications proposed to the manhole location by the City. Penna waiting for DPW permits.

(c) Pine Point Road
   (i) 700 linear foot repair required.
   (ii) Penna going to replace the sewer lines. Line to be relocated due to water main. Work started on the March 16th and continue into April 14th. The temporary paving of the roadway being performed April 14th.

(d) Connecticut Avenue
WPCA for the City of Norwalk and OMI, Inc.  
Collection System Progress Meeting  
April 20, 2015

(i) Previous point repair fix required. The 8 inch repair coupling deformed due to concrete vault on top. The concrete vault contains utilities for Frontier communications, & CL&P.
(ii) Fenna has the required State permits to do the repair.
(iii) Decision made to tunnel underneath the Frontier Communication Utility concrete vault. Frontier needs to be there during the repair. Penna to schedule the work this month. Fenna working with CL&P to resolve any conflicts.

2) WPCA Capital Improvement Projects (CIPs):

(a) Beacon St Project
   (i) Heitkamp - cleaning and CCTV
   (ii) Point repairs - AJ Penna

(b) Bouton St and Ely Ave
   (i) This area will continue to be monitored for a potential new pump station
   (ii) OMI will continue to monitor on a monthly basis for any changes

(c) Sammis Pump Station
   (i) Punch list being prepared

(d) Ann Street
   (i) Consider tying and alarm and elevation trend to SCADA through Aron Associates

3) Current Evaluations:

(a) Saddle Road
   (i) Smoke test results show minor indirect connections
   (ii) Still no verification of SSO. Seems like stormwater flooding.
   (iii) Manhole surcharge meters (Digisensors) installed on two manholes to monitor have been removed.

(b) Potential Future Projects
   (i) Newtown Avenue – State project continue to monitor schedule

(c) East Avenue (West Port Ave to Merrill) – Wet weather issues – OMI CCTV data Merrill @ East Ave – state drainage tied to sanitary?
   (i) Maps prepared for the area. Specific manholes are being monitored for surcharge and flooding issues.
   (ii) Focused CCTV/manhole inspection along state road.

(d) Day and Raymond Street
   (i) CCTV tapes for this area has been reviewed. Pipe in Raymond Street is in good shape. Recommend lining pipes in Day street pipes due to minor cracks and holes. 620 feet of 10 inch pipe. While lining is recommended, this is a low priority area and lining can be performed after the street is raised.

(e) Locate all Pump Station Force mains. CH2M HILL to contact contractors.

(f) Goodrow Street CCTV inspection to verify conductivity and potential concerns with lateral complete Point repair done.

(g) 261 Ely Ave - CCTV and identify why we had multiple spills from this location. The City’s line goes through an easement that includes a construction company that has a mound of soil on top of our MH. Alan requested the material be moved to gain access – contractor said about 1-2 weeks (April 17th).

(h) 24 Isaac St. - Bypass reported on April 13th. CCTV performed. Cracks in the line and bad repair from previous fixes. CCTV tape being reviewed by CH2M HILL and will recommend path forward.

(i) 2015 Street Paving list - Mapped the streets being paved (attached). The paving streets intersects with 2 problem area sewer lines – Tod road and Cedar Crest. CH2M HILL to review CCTV and provide recommendation.

(j) Marvin Beach force main repair - Performed a hydraulic analysis of the 8 inch. Tying the FM into the 8-inch is not a viable solution. Recommend complete replacement of the FM. Trenchless technology through the waterway and open cut along the street. Order of magnitude cost $350K.
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GRAND TOTAL: 14
OMI NORWALK
SANITARY SEWER CCTV AND CLEANING SUMMARY
3/1/2015 - 3/31/2015

**CCTV (FEET)**

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**CLEANING (FFFT)**

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