AGENDA

DATE: Monday, December 15, 2014
TIME: 5:30 PM
PLACE: Public Works Center (Second Floor Conference Room), 15 South Smith Street

1. Call to Order

2. Executive Session to discuss ongoing litigation with Flowserv about main lift pumps' failure

3. Approve the minutes from WPCA Meeting held on November 17, 2014 (copy included)

4. Authorize transfer from Replacement Reserve Account (224062-5789) to Contract Operations Account (224062-5258) in the amount of $200,000 to reimburse OMI and their Wastewater and Collection System Major Repair and Replacement Fund (MRR)

5. Reports:
   a. FY14/15 Revenues/Expenditures MUNIS Reports (copy included)
   b. Draft FY 2015-16 Capital Budget (copy attached)
   c. Discussion on the Sammis Street Pump Station (report included)
   d. Sewer Use Bill Appeals/Adjustments Update
      1) Appeal status
   e. Information Copies:
      1) OMI Monthly Operating Report – November 2014 (copy included)
      2) WPCA Contact List Update (copy included)
      3) Harbor Watch Mission (letter from Earth Place included)
      4) CH2MHILL Donation to Rowayton PTA Environmental Committee (letter included)

6. Adjournment

Next WPCA Meeting: Monday, December 15, 2014
5:30 PM
Second Floor Conference Room, Public Works Center
15 South Smith Street
CITY OF NORWALK
WATER POLLUTION CONTROL AUTHORITY
November 17, 2014

Attendance: Darren Oustafine, Chairman
Lewis Clark, Vice Chairman
Mayor Rilling
James Clark
John Flynn
Galen Wells
Dave McCarthy
Frederika Bikakis-Hajian

Staff: Hal Alvord, DPW Director
Lisa Burns, DPW Operations Director
Ralph Koib, DPW Senior Environmental Engineer
Tom Hamilton, Finance Director

Others: Kevin Dahl, CH2MHiil, OMI, INC
John Ahern, CH2MHiil, OMI, INC.
Tim Dupuis, CDM Smith
William Lengyel, CDM Smith

1. CALL TO ORDER

Chairman Oustafine called the meeting to order at 5:30PM

2. EXECUTIVE SESSION TO DISCUSS ONGOING LITIGATION WITH FLOWSERVE ABOUT MAIN LIFT PUMPS’ FAILURE

** MR. MCCARTHY MOVED TO ENTER INTO EXECUTIVE SESSION
** MOTION PASSED UNANIMOUSLY
Executive session began at 5:32PM
Executive session ended at 6:34PM
No action taken

3. APPROVE THE MINUTES FROM WPCA MEETING HELD ON SEPTEMBER 15, 2014 AND OCTOBER 20, 2014 (COPY INCLUDED)

Mr. Flynn said in the September minutes on Page 2, Item 4b, Line 8, to change “nine of the ten IMLR pumps operating” to “nine of the ten IMLR pumps were not operating”

Mr. Flynn said in the October minutes on Page 2, Item 5, Line 8, to change “everything is being done to delay future repairs” to “everything is being done not to delay future repairs”

** MR. FLYNN MOVED TO TABLE THE MINUTES AS AMENDED
** MOTION PASSED UNANIMOUSLY

1
4. APPROVE SEWER USE FEE ADJUSTMENT FOR 25 LEONARD STREET (LETTER INCLUDED)

Mr. Kolb said that is a parcel that falls under land use code 108C in the Vision database. Mr. McCarthy asked if this is the same as the other adjustments that were a result of a modification to the system. Mr. Kolb said “yes” and it is similar to the adjustment that was approved last month.

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

5. REPORTS

a. 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 anticipated.

b. Discussion on WWTP Electric Rate with Third Taxing District  
Mr. Kolb said that staff had met with representatives from the Third Taxing District to discuss the electric rate for the Wastewater Treatment Plant. Ms. Burns said that they have completed a cost of service study and have acknowledged that they have been billing the Wastewater Treatment Plant more than they should have and they have agreed to make an adjustment of 5% this year, and ultimately reach a 10% correction but that it will be phased over a few years.

c. Discussion on the following Capital Improvement Projects:
   1) Sammis Street Pump Station (report included)  
      Mr. Kolb said that the project is moving along. Mr. Flynn said that he had visited the site and that it is coming along fine, but said that he is concerned about the ventilation. Mr. Kolb said that there will be a fan that meets OSHA requirements on site for ventilation but that it has not yet been installed. He said that the contractor anticipates most of the work will be completed in December with a startup date in January 2015.

   2) Beacon Street Project  
      Mr. Kolb reported and said that this a $2 million dollar lining project and the contractor is almost done cleaning and televising approximately seven miles of sanitary sewer pipe in the project area. He said that they have identified three to five point repairs and they will be hiring a subcontractor to perform the repairs.

   3) SCADA PS Project  
      Mr. Kolb reported and said that some additional work has been added and finalized since the last meeting. He said that the only outstanding item is to do one days worth of training with OMI and then the system will be up and running.

d. Sewer Use Bill Appeals/Adjustments Update  
   1) Appeal Status  
      Mr. Kolb said that the adjustments to date are $94,610
2) Discussion on billing of apartment complexes-LUC 108C (copy included)
Ms. Burns said staff had met with Tax Assessor and the Finance Department and it was decided that any appeals that come in this year will go before the WPCA Board for their approval. Mr. Lewis Clark asked where staff obtains the water consumption data. Ms. Burns said from the water departments. Ms. Burns said that for next year a consistent approach will need to be established.

e. Information Copies:
   1. OMI Monthly Report- October 2014 (copy included)
      Mr. Kolb reported on the collections system progress meeting. Ms. Burns said that OMI, Inc. is getting a lot done in the collection system and that it has been a big area of focus. Mr. Kolb said that nitrogen fell into band “D”.

   2. E-mail from DEEP re: May 1, 2014 Police Investigation (copy included)
      Ms. Burns said she has received an e-mail from Craig Motasky of the DEEP and it stated that they have not found any criminal wrong doing related to the bypass events on May 1, 2014, and that he will be sending a letter to the Mayor to that effect.

   3. 2015 WPCA Meeting Schedule (copy included)
      No discussion.

      ** MR. FLYNN MOVED TO DISCUSS NEW BUSINESS
      ** MOTION PASSED UNANIMOUSLY

      ** MR. MCCARTHY MOVED TO APPROVE THE MEETING SCHEDULE
      ** MOTION PASSED UNANIMOUSLY

4. Robert Sardaro proclamation (copy included)
Ms. Burns said that Robert Sardaro has retired after 39 years service.

      ** MR. FLYNN MOVED TO DISCUSS NEW BUSINESS
      ** MOTION PASSED UNANIMOUSLY

      ** MR. MCCARTHY MOVED TO APPROVE THE PROCLAMATION FOR ROBERT SARDARO
      ** MOTION PASSED UNANIMOUSLY

6. ADJOURNMENT

      ** MR. MCCARTHY MOVED TO ADJOURN
      ** MOTION PASSED UNANIMOUSLY

The meeting adjourned at 7:05PM

Respectfully Submitted,

Dilene Byrd
<table>
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<tr>
<th>22 WATER POLLUTION CONTROL</th>
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<td>040 PUBLIC WORKS</td>
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** TOTAL WATER POLLUTION CONTROL ** 15,066,192 0 15,066,192 -14,367,352.26 .00 -698,839.74 95.4% 
** TOTAL PUBLIC WORKS ** 15,066,192 0 15,066,192 -14,367,352.26 .00 -698,839.74 95.4% 
** TOTAL WATER POLLUTION CONTROL ** 15,066,192 0 15,066,192 -14,367,352.26 .00 -698,839.74 95.4% 
** TOTAL REVENUES ** 15,066,192 0 15,066,192 -14,367,352.26 .00 -698,839.74 95.4% 
** GRAND TOTAL ** 15,066,192 0 15,066,192 -14,367,352.26 .00 -698,839.74 95.4% 

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$1,950,000 $4,000,000 $7,000,000 $3,000,000 $3,000,000 $1,000,000
Norwalk WPCA
Sammis Street Pump Station
Ann Street Siphon Controls
Flood Damage Upgrade
Project WPCA 2013-1

EXECUTIVE SUMMARY
December 2014

PREPARED BY:
Nicholas E Berkin
Junior Engineer

Distribution:
Lisa Burns, PE
Ralph Kolb, PE
WPCA File
Flood Damage Upgrade Project WPCA 2013-1

EXECUTIVE SUMMARY
December 15, 2014

Construction Progress

- Ann Street Siphon
  - RTU and control panel installation - in progress
    - Control panel to be mounted at elevation of existing railing on deck (14.46’ NAVD88)
  - Estimated 1 week for completion after steel mounting posts RTU and Control panel delivered onsite

- Sammis Street Pump Station
  - Site maintenance
    - Cleaning of project area and removal of un-used materials
  - Construction progress
    - Yard Hydrant
    - Telephone poles replaced by Frontier
    - Water meter tap and domestic water pressurized
    - Primary power transformer installed by CL&P
  - Upcoming work
    - Bypass
    - New water meter
    - Ann Street control supports, siphon controls and SCADA

Project Administration

- Sammis Street Pump Station
  - Submittals and RFI - more notable changes to the original scope of work include:
    - Generator to be mounted to the top of the pump station slab with additional equipment pad as specified in original project documents - no change in original plan
    - Colors selected
    - Fence style selected

  - Potential Change Orders
    - Clean wet well
    - Spray on epoxy liner to rehabilitate corroded concrete
    - Pave walking path
    - Water seal contact between top slab (floor) and foot wall foundation for new building

- Ann Street Siphon
  - Contractor has all materials and is ready to begin installation of RTU and new controls
  - We will re-use existing sensors and flow meter if they are functional and not in need of replacement
  - Proposed credit for labor to install new sensors and flow meter
  - WPCA will keep new sensors and meter for future use
1 Plant Activities

A Maintenance

MRR Repairs/Upgrades
Programed new gas detection system in the Head works bldg.
FST #2 & #3 repaired scum troughs and performed PM
Repaired blend tank #1, Installed new booster pump motor
transformer oil samples taken and results recorded
WAS flow meter replaced, RAS pump #3 flow meter replaced
Cleaned plant water strainers.
RAS pump #4 pulled and replaced
RAS pump #6 replaced acentric reducer

Work orders | MC
# of WOs completed
This Month 489
Last Month 503
Ending WO backlog 266
416

B Violations

Permit Monthly
Excursion - Reason
none

Performance Guarantee
none

C Training

Safety
AHA Training, Blend tank monthly PM, AHA development
Lessons Learned Trip results in crushed finger,
Wellness Newsletter Diabetes Awareness Month
Tape Measure falls, 56 Stories review

Other
Vehicle Safety for the Holidays
Personal Wellness exercise handout
Safety Zone review, Cold Weather Preparedness
Proper snow shoveling Techniques. Five Mile PS Pump AHA

2 Collection Systems

A Pump Stations

MRR Repairs/Upgrades
Duct work replaced at Woodward Ave. PS generator
Repaired pump #4 at Five Mile PS

B Collection System

Spill / Overflow Reports
None
3 Personnel

A Number of Associates / Wastewater Operator Certifications

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<th>Total Personnel</th>
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<td>Operations</td>
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B Changes

Assistant Project Manager Robert Sardaro retired after 39 years of service to the city

4 Safety

OSHA Recordable Incidents
None

Lost Time Incidents
None

5 Total Nitrogen Performance

| Avg. Influent Wastewater Temp. (°C) | 19 |
| Avg. BOD Loading (lbs./day)         | 15,200 |
| Actual TN Performance (lbs./day)    | 572 |
| Lookup Value (lbs./day)             | 750 |
| Actual minus Lookup (lbs./day)      | -178 |
| TN Performance Band                 | D  |
| Uncontrollable Circumstances        | None |

Operational Review Findings
None

SOP Status

Summary of Findings
Inventory at targets.

Description of Ranges/Bands

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<tr>
<th>Expected Operating Range</th>
<th>Actual TN (aTN), Lookup Value (LV)</th>
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<tbody>
<tr>
<td>Band A</td>
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<tr>
<td>Band B</td>
<td>aTN between LV and up to 117 lbs./day in excess of LV</td>
</tr>
<tr>
<td>Band C</td>
<td>aTN between 118 and 234 lbs./day in excess of LV</td>
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<tr>
<td>Band D</td>
<td>aTN greater than 234 lbs./day in excess of LV</td>
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<tr>
<td></td>
<td>aTN 176 lbs./day less than LV</td>
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6 Miscellaneous

Regulatory Inspections
None

Storm Flow Events
None
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 data entry for November 2014 are reflected in attached tables
   (i) Monthly TV numbers are lower than KPI in O&M manual due to targeting deformed pipes and critical issues. Next month’s TV inspection efforts continue to focus on documenting known critical areas.
   (ii) Work Order templates can now be generated and will be used in the future to convey WOs from the Collection systems management team.
       1. Older clay pipes and sewer problem areas will be targeted next.
(b) Hot spot list
   (i) Final review of list will be completed and are being put into GIS.
   (ii) Once updated monthly work on hot spots will be tracked/documented separately for clarity.
   (iii) Friday the 14th of Nov, crews started with week 1 of hotspot list. They have now completed through week 3.
(c) Deformed pipe list
   (i) 59 out of 61 deformed pipe segments have been inspected. These pipes have been reviewed and rated based on LOF, COF and total risk.
   (ii) Remaining to be inspected and rated by December. A criticality will be assigned to each to begin discussion about path forward for repairs (Attached).
(d) Pipe condition downstream of PS forcemains
   (i) TV work now complete
   (ii) Review and suggested corrective actions to be developed by January.
(e) Inspection crews now use a locator on the TV camera to help find buried manholes, manholes in easements and to document above ground locations of pipe issues.
(f) 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. Three have been removed and there are no outstanding protruding laterals remaining.
(g) Manhole raising
   (i) Five manholes were identified to be raised. All have been raised.
(h) Action Items
   (i) Identify pipes in easements through a GIS layer.
      1. Sewers in easements have been identified. This will be added to the GIS in the same fashion as the Hotspots list.
   (ii) Update sewer problem areas in Norwalk GIS.
       1. Hotspot list has been verified and will be placed into GIS list by the end of December.

2) Major Repair & Replacement Projects:

(a) 47 Wall Street and Metro North
   (i) Scope of work and fee has been agreed upon
   (ii) Fenna finalizing permits with Metro North
(b) Betts Place & Harvey St – CCTV work is needed, update GIS information, cut pipe
   (i) Eric to develop a plan for inspection
   (ii) Betts to Seaview Ave CCTV completed.
   (iii) CCTV of upstream line from Betts to Harvey to be performed by December.
(c) New Manholes - Bouton Street, Seaview – Add MHs for maintenance
   (i) Fenna waiting for DPW permits.
3) WPCA Capital Improvement Projects (CIPs):
   (a) Beacon St Project
       (i) Heikamp - cleaning and cctv
       (ii) Point repairs - AJ Penna
   (b) Bouton St and Ely Ave
       (i) This area will continue to monitored for a potential new pump station
       (ii) OMI will continue to monitor on a monthly basis for any changes

4) 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 installed on two manholes to monitor.
   (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) Eric Muir to prepare an inspection plan.
   (d) Day and Raymond Street
       (i) Deformed pipe needs to be assessed ahead of street raising/rebuild
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## OMI NORWALK
### MANHOLE INSPECTION REPORT
#### 11/1/2014 - 11/30/2014

**GRAND TOTAL:** 54

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| SEWER-BACKUP |                   |                  |              |                |                   |
| 180103      | 15 Leann Dr       | SANDERS, HAROLD  | 11/18/2014   | 11/20/2014     | NON-BYPASS        |
| 179869      | 18 Barjune Rd     | CARPENTER, ALAN  | 11/10/2014   | 11/13/2014     | NON-BYPASS        |

**GRAND TOTAL:** 11
WATER POLLUTION CONTROL AUTHORITY
a/o November 26, 2015

Members

Darren Oustafine, Chairman
9 Brookhill Lane
Norwalk, CT 06851
(203) 846-6750 (H)
(203) 656-7365 (W)
Dousta@nct.com
Term expires: 4/1/16

Harry Rilling (Mayor)
c/o Norwalk City Hall, 125 East Avenue
Norwalk, CT 06851
(203) 854-7701 (W)
hrilling@norwalkct.org
Term expires: 11/19/15

Lewis W. Clark, Vice Chairman
24 Creeping Hemlock Drive
Norwalk, CT 06851-1015
(203) 846-2762 (H)
Lewiswc2002@yahoo.com
Term expires: 4/1/17

Jerry Petrini (Council President)
9 Romindon Court
Norwalk, CT 06851
(203) 846-2536 (H)
(203) 803-9926 (C)
jerrypetrini@gmail.com
Term expires: 11/26/15

John J. Flynn
9 Ledge Road
Norwalk, CT 06853
(203) 853-1112 (H)
(203) 853-2110 (Fax)
jifce@optonline.net
Term expires: 4/1/17

James C. Clark (BET Chair)
9 Golden Hill Street
Norwalk, CT 06854-2009
(203) 831-8121 (H)
(203) 246-8767 (C)
jimclark1@optonline.net
Term expires: 11/19/15

Frederika Bikakis-Heijian
73 Fort Point Street
Norwalk, CT 06850
(203) 838-0510 (W)
(203) 831-9250 Fax
fhajian@aol.com
Term expires: 4/1/16

Galen Wells (Minority Caucus Alternate)
224 West Norwalk Road
Norwalk, CT 06850
(203) 866-9045 (H)
(203) 515-7410 (C)
gwells@optonline.net
Term expires: 11/19/15

David T. McCarthy (PWC Chair)
38 Nearwater Road
Norwalk, CT 06853
(203) 838-4665 (H)
(203) 807-8818 (C)
dtmccarthy@optonline.net
Term expires: 11/19/15

Ex Officio Members

Tom Hamilton
Finance Director
thamilton@norwalkct.org

Hal Alvord
Public Works Director
halvord@norwalkct.org

Others on email distribution group

Lisa Burns lburns@norwalkct.org
Ralph Kolb rkolb@norwalkct.org
Cathy Mallon cmallcn@pimie.com
John Ahern John_Ahern@ch2m.com
November 14, 2014
Hal Alvord, Director of Public Works
City of Norwalk
City Hall
125 East Avenue
Norwalk, CT 06851

Dear Hal,

Harbor Watch (HW) was awarded an Urban Waters grant by the EPA to study three storm water drainage systems in Norwalk to search for sources of sanitary infiltration, illegal connections and the impact of storm water runoff on the three systems during heavy rainfall. The grant was awarded in part because of support letters from the Departments of Public Health, Public Works, Conservation and WPCA. The Harbor Watch mission was to employ sequential E.coli bacteria tests along these pipelines in an attempt to isolate hot spots. This was done with some success and is highlighted in our annual report. While many HW bacteria tests were required to accomplish this during various weather conditions, the amount of research accomplished in a one year time frame could not have been accomplished by HW without the much appreciated help from the WPCA, particularly Ralph Kolb, Senior Environmental Engineer and Nic Berkun, Junior Engineer, who went out of their way to support our efforts. Without the help of the WPCA and the Cues camera crew, the process of leak detection would have been much longer, or just not possible. We would not have succeeded in several instances if it weren’t for their help.

A case in point concerns our recent discovery of an eight inch sanitary PVC pipe connected to the Washington Street storm drainage. Access to the main storm drain (a 60 inch RCP) is limited to three manholes which made location of the bacteria source extremely problematical. We knew there was a problem here due to high bacteria counts observed in the discharge to Norwalk Harbor and in the main pipeline. Nic Berkun phs WPCA and DPW staff brought equipment including the Cues camera truck to the site on three occasions. The first occasion was on 8/20/2014. Working backwards from the discharge we were able to locate which pipeline was actually part of the Washington Street system. This was difficult due to a maze of pipes and manholes for sanitary, water and various abandoned pipelines near the discharge that needed to be sorted out. On 8/23/2014 Nic Berkun, DPW staff and camera returned to survey the interior of the Washington Street storm drain which resulted in finding three suspicious PVC connections between Water and North Main Streets and a deteriorating water line at Water Street. HW personnel were subsequently able to find the store fronts for the PVC connections by transferring the camera’s pipeline measurements to the sidewalk. Drains from the inside of a total of seven stores and one apartment building were then dye tested by HW and Tom Closter, Director of Environmental Services for Norwalk’s Health Department (NHD). After much effort the dye tests were deemed inconclusive. Results from the Cues camera survey had indicated that the cluster of buildings on the corner, Johnny Utah’s, a tattoo parlor, an apartment building and the corner restaurant were all suspects because the camera showed a heavy black discharge coming from the 8 inch PVC connection to the storm sewer. HW notified Ralph Kolb of the futility of doing more dye testing and asked for suggestions for the next steps. Ralph then visited the basement of the corner restaurant (#2 S. Main) and noticed two suspicious overhead 8” PVC pipes under the tattoo parlor leading off in the direction of the storm sewer and suggested that we dye test them both at the inspection ports.
On 9/18/2014 Nic Berkun inserted the Cues camera back in the 60” RCP and moved it up the line to the suspected connection which happened to be continually discharging at the time. Meanwhile Nic and the HW crew again entered the restaurant basement section which extended under the tattoo parlor and sequentially added dye. We were rewarded when dye appeared in the storm drain after a different PVC pipe (this one was on the right) was dye tested and the discharge was caught on film by the Cues camera system. Since then, the Health Dept. has verified the connection and work is under way to trace the line back through a maze of PVC piping to the source of the problem. Several illegal sinks have already been disconnected.

This is just one of many examples where working together with the WPCA and the Public Works Department has been a big help and results would have been much different for HW and Long Island Sound if the WPCA had not been a major part of the investigation. The net result here will be a cleaner Norwalk Harbor and Long Island Sound. Our many thanks go to the tenacious efforts of Ralph Kolb, Nic Berkun, other WPCA and DPW staff and your support for a very worthwhile project.

Sincerely,

Dick Harris

Richard Harris, Director of Harbor Watch, a Program of Earthplace, the Nature Discovery and Environmental Learning Center
November 18, 2014

Rowayton Elementary School
One Roton Avenue
Norwalk, CT 06853
Attention: Rowayton PTA Environmental Committee
Subject: Donation of CH2M HILL Coloring Books

Dear Principal Reilly:

On behalf of the employees of CH2M HILL, it gives me great pleasure to donate the enclosed supply of educational coloring and activities books. We sincerely hope that the students and teachers of Rowayton Elementary School enjoy their contents and learn the important message about being good stewards of the environment.

CH2M HILL is proud of its environmentalism and community involvement history in New England. With offices and employees living and working throughout the region, we invest in where we live and foster positive relationships with its businesses, governments and people. In certain situations, our involvement runs deeper, as is the case with your community. You may or may not be aware that CH2M HILL operates the sewer and collection system for the Norwalk Water Pollution Control Agency (NWPCA). This is an often overlooked, yet critical, service that we specialize in across the globe.

We would greatly appreciate recognition of your receipt and any memento of the students' enjoyment of the coloring books for our internal communication purposes. Also, I would invite you to consider the possibility of working with me and our staff at the NWPCA to schedule a tour of the facility so that students get to experience how water and wastewater is managed in their communities.

Please feel free to contact me at 617-626-7006 or jeffrey.nield@ch2m.com to further discuss the possibility of a visit sometime in the future.

Sincerely,

CH2M HILL

[Signature]

Jeffrey A. Nield
Business Vice President – Area Manager
New England

/enclosure 286 coloring books

Copy Kevin Dahl/CH2M HILL