

**WATER POLLUTION CONTROL AUTHORITY
REGULAR MEETING MINUTES
NOVEMBER 17, 2011**

Chairman Ron Merancy called the regular meeting to order at 6:01 PM with the following in attendance:

MEMBERS:

Ron Merancy, Chairman
Catherine Aresta, Secretary
Pat Mallane

OTHERS:

Jim Stewart, Public Works Director
Debbie Lichwalla, WPCA Secretary
John Batorski, Veolia

ABSENT: Rimas Balsys, Vice Chairman

VISITORS: Paul Bunevich, Land Data Engineers

1. **Ron Merancy opened the meeting with the Pledge of Allegiance.**
2. **A. Acceptance of the Regular Meeting Minutes for October 20, 2011.**

VOTED: Unanimously on a motion by Pat Mallane and seconded by Catherine Aresta to **ACCEPT** the Regular Meeting Minutes for October 20, 2011.

No Discussion.

VOTE: **In Favor: 3** **Opposed: 0** **Abstained: 0**
Motion Carried: 3-0-0
Minutes Approved.

-
- B. Acceptance of the Special Meeting Minutes for November 3, 2011.**

Discussion: To make a noted change for the records under #2 regarding John Batorski's comment. For the record it will read: **John Batorski stated that Veolia would perform all labor to repair the vacuum truck at no cost to the Borough.**

VOTED: Unanimously on a motion by Pat Mallane and seconded by Catherine Aresta to **ACCEPT** the Special Meeting Minutes for November 3, 2011.

VOTE: **In Favor: 3** **Opposed: 0** **Abstained: 0**
Motion Carried: 3-0-0
Minutes Approved with the above noted change.

3. Commission / Discussion Regarding Old Business.

A. Commission Discussion update regarding Old Business on New Haven Road Parcel # 1198, #1202, and 1204 for Joseph DeSomma.

Jim Stewart commented that he is having Engineering work up some plans to show where the sewer is so he can have something to show the current owners of the property and will contact and meet with the owners of the property to ask them for an easement.

B. Commission Discussion update on Hoadley / Aetna Street.

Jim Stewart commented that he met with contractor and had a pre-construction meeting, the project is going forward. John Batorski stated we have received the permit from DEEP.

4. New Business and Correspondence.

A. Commission Discussion regarding a proposed addition to the existing Unimetal Surface Finishing Industrial Building on East Waterbury Road.

Paul Bunevich, P.E. of Land Data Engineers representing Unimetal Surface Finishing is proposing a 107,105 sq. ft. addition to the existing Unimetal Surface Finishing Industrial Building on East Waterbury Road.

Commission is requesting to see a pre-treatment method and permit. What is contained in the water and how much water would be coming out of there and could it be metered.

Paul will have the requested information for the next WPCA meeting.

B. Motion to ADD correspondence from Johnson Control to the agenda.

VOTED: Unanimously on a motion by Pat Mallane and seconded by Catherine Aresta to **ADD** correspondence for Johnson Control to the agenda.

VOTE: **In Favor:** 3 **Opposed:** 0 **Abstained:** 0
 Motion Carried: 3-0-0

A quote was submitted to the commission for the proposed roadway for Chemtura.

Commission is asking what the actual cost to the Borough will be and what does the cost include. Where does the road start and end, what are the actual/exact measurements, cost of material and labor and is the Borough under obligation to have Chemtura put road in and subject to whom ever they choose to use.

Jim Stewart and Ron Merancy commented that the commission needs a better copy of the plan submitted and is asking for an actual quote to be re-submitted.

C. Veolia Water correspondence dated 11/2/2011 regarding Naugatuck Treatment Plant.

No Discussion.

5. Veolia Water - Summary of WWTF Operations – October 2011.

This report summarizes the activities at the Borough POTW for October 2011:

1. Highlights and Significant Issues: Bid specs were prepared by Wright Pierce Engineers for the Hoadley Street sewer project. Bid opening is at 11:30 AM, Nov 3, 2011.

2. Collection System Update:
Please see attached Collections Report.

3. Plant Performance Summary:
Please see the attached reports and graphs for additional performance details.

| Plant Process Data | Limit | Actual |
|-------------------------------|-------|--------|
| Total Suspended Solids (mg/l) | | |
| Influent Avg. | - | 99 |
| Effluent Avg. | 30 | 5 |
| Removal Efficiency | 85% | 95% |

| Plant Process Data* | Limit | Actual |
|---------------------|-------|--------|
| Carbonaceous BOD | | |
| Influent Avg. | - | 51 |
| Effluent Avg. | 30 | 4 |
| Removal Efficiency | 85% | 92% |

| | Naugatuck | Middlebury | Oxford |
|----------------------------------|-----------|------------|---------|
| OTR | | | |
| August Flow Avg. (MGD) | 7.3 | 1.035 | 0.108 |
| Sludge Liquid Total (MGal) | | | |
| 3.57 | | | |
| Sludge Cake Total (Dry Tons) | | | |
| 5.45 | | | |
| Septage Total (MGal) | 53,250 | 35,000 | 151,050 |
| 904,200 | | | |
| September Flow Avg. (MGD) | 8.0 | 0.98* | 0.096* |
| Sludge Liquid Total (MGal) | | | |
| 3.07 | | | |
| Sludge Cake Total (Dry Tons) | | | |
| 5.33 | | | |
| Septage Total (MGal) | 59,500 | 29,250 | 159,500 |
| 827,850 | | | |
| October Flow Avg. (MGD) | 6.4 | 0.84 | 0.102 |
| Sludge Liquid Total (MGal) | | | N/A |
| 2.99 | | | |

Sludge Cake Total (Dry Tons)

5.66

Septage Total (MGal) 68,000 62,000 210,750

786,250

*Corrected

N/A Not available at time of report (power outages)

Discharge Permit Exceedance: None

Safety Incidents and Odor Complaints

| | Month | YTD |
|-----------------------------|-------|-----|
| Recordable Accidents | 0 | 0 |
| Lost Time Accidents | 0 | 0 |
| Odor Complaints | 7 | 28 |
| Unconfirmed Odor Complaints | 0 | 0 |

1. Compliance & Regulatory Issues

- a. The annual stack test and RATA took place Sept 27, 2011. Opacity, COMS, Annual Stack Test results and RATA tests reports were submitted to CTDEEP (copies attached). There were no issues to report.
- b. There were 7 Odor Complaints as of Oct. 28, 2011. There were 127 complaints in 2009, 60 in 2010, and 28 to date for 2011.

2. Health & Safety

- a. There were no recordable safety related incidents in October.
- b. A corporate Veolia safety inspection is scheduled for Nov 1, 2011.
- c. A corporate Veolia insurance inspection is scheduled for Nov 3, 2011.

3. Operational Information

- a. The Oct. 29, 2011 snow event did not cause major problems at the facility. Saturday evening the plant was on emergency power for brief period of time. All of the collection system pump stations were on emergency power as needed during the power outage.
- b. Veolia participated in the Naugatuck High career day (attached) on Wednesday Oct. 19, 2011.
- c. On Tuesday October 11 Kathy Luvisi performed the annual contract inspection.
- d. G&L completed the concrete pad for the spare heat exchanger.
- e. Richard Massicotte gave a written notice of his retirement.
- f. The portable electric power washer should be in by the end of the month

4. Collections

- a. On October 3rd Colt Szczygiel (transfer from Danbury), collections employee started.
- b. Dukes Root Control was during October to perform root control.
- c. Hoadley St. sewer replacement bid opening is for November 3rd.
- d. Repairs are scheduled Tuesday October 25th the Vac truck front end.
- e. On Oct 25 a patch failed on a sewer repair. UGAM was performing point repairs on 23 defects in various locations. G&L performed the repairs while Godwin pumps were called to provide pumps to bypass pump a stream as the sewer was 6 feet below the stream bed.

- f. UGAM installed 23 portable flowmeters in the same locations as a 1991 study by Stearns and Wheler. The meters were installed on Sept 28. Jim Stewart will authorize some of the meters to be kept in service beyond the original 4 week period.
- g. The vacuum pump (blower) for the vac truck is failing. Repairs were quoted at approximately \$13,500. A new blower is \$18,880. Jim Stewart will request the WPCA on Nov 3, 2011 fund the purchase of a new blower. Contractually, Veolia has spent just under \$10,000 thus far for the vac truck. Just under \$8,000 was required for a cyclone separator and about \$2,000 to repair the front end.

5. Maintenance

- a. The #2 raw sewage pump failed and will be repaired.
- b. The Simplex alarm system was repaired on Oct. 28. A circuit board failed and was replaced.
- c. Northeast conveyors was been issued a PO to inspect the conveyors. They are expected to perform the inspection late in November.
- d. The TDU continues to operate well with the revised plow design. The final design of the plows has not yet been fabricated as staff observing the performance with the prototype plows.
- e. The thickener transfer pump Reeves drive/gear box failed. Parts are no longer economically available for Reeves drives thus a new gear box will be purchased.
- f. A circuit board for the WESP failed and replaced with a spare. A fan motor for the WESP also failed and was replaced.
- g. The ash lines are now completely rebuilt.
- h. The staff has installed 6 inch PVC pipe sections of the primary sludge line that has worn out. An abandoned existing industrial sludge line was placed in service as the primary sludge line.
- i. Two fiberglass electrical enclosures were ordered for the primary scrubber. The original enclosures deteriorated over the years from chlorine fumes in that building.
- j. A J Spin is out of service for an annual inspection. .
- k. A new J Spin grinder with a grinder cartridge insurance plan was purchased. The grinder cost \$23,500 with the cartridge exchange program. Parts were ordered for the remaining old style grinder which cost approximately \$8,500. The J Spins basically operate 24/7 and the grinders must operate.

5. Capital Projects

- g. The original #1 thickener walkway was near failure. The walkway repairs were estimated at approximately \$21,000 and a purchase order was issued to Caldon to replace the walkway. As the thickener was in service for over 30 years, the full extent of repairs was not known as the thickener could not be removed from service. The #2 thickener was placed in service as it was rebuilt last year. Once the thickener was drained, the full extent of repairs was determined. Repairs to the center ring are estimated at \$22,500. The influent pipe and influent well were also completely worn. Repairs are estimated at \$15,500. Finally, the thickener rake was also worn beyond repair. Replacement of the arms will cost \$28,000. These costs are slightly less than the repairs to the #2 thickener that was rebuilt last year.
- h. Jenn Muir is evaluating the revised turbo blower requirements for the aeration system. As the aeration system is using less air, the original proposed turbo blowers would not have the turndown to efficiently operate at the reduced demands.
- i. A pump to recycle the tray scrubber water to the venturi and 4th tray (approximately 500 to 600 gpm) has been estimated at approximately \$13,500. The use of the proposed pump will reduce the internal plant flow by the same amount (less pumping by the influent and plant water pumps. This proposed project is under review.

Borough of Naugatuck Collections System Report
Oct-10

Calls for Service:

This Month
3

Contract
Year to Date
9

| | |
|---|---|
| 1 | 10/17/11 32 hoadlay st water in basement |
| 2 | 10/28/11 47 manners ave water in basement |
| 3 | 10/30/11 hillside odor |
| 4 | |
| 5 | |

Calls Caused By Collection System:

Reason

| | | |
|---|--|------|
| 1 | 10/25/11 cherry st vac street | ugam |
| 2 | 10/26/11 repair blockage in long meadow stream | ugam |

Line Flushing (feet)

This Month

10183

Feet

Year to Date
48293 Feet

| | | |
|----|--|-----|
| 1 | 10/3/11 cardinal ln 14-40 to 14-39 | 410 |
| 2 | 10/3/11 cardinal ln 11-141 to 11-150 | 233 |
| 3 | 10/3/11 goldfinch in 11-141 to 11-141a | 310 |
| 4 | 10/3/11 blue bird dr 11-141 to 11-142 | 225 |
| 5 | 10/5/11 porter ave | 185 |
| 6 | 10/5/11 diamond st | 240 |
| 7 | 10/5/11 spring st | 500 |
| 8 | 10/10/11 sunburst rd | 625 |
| 9 | 10/17/11 32 hoadlay st 9-162 to 9-163 | 130 |
| 10 | 10/18/11 melborn st 9-126 to 9-127 | 550 |
| 11 | 10/20/11 charles st | 110 |
| 12 | 10/20/11 charles st | 445 |
| 13 | 10/20/11 george st | 280 |
| 14 | 10/21/11 park ave | 500 |
| 15 | 10/21/11 may ave | 220 |
| 16 | 10/21/11 quinn st | 305 |
| 17 | 10/21/11 lewis st | 185 |
| 18 | 10/21/11 manners ave | 695 |
| 19 | 10/21/11 central ave | 195 |
| 20 | 10/24/11 high st | 275 |
| 21 | 10/24/11 north main st | 550 |
| 22 | 10/24/11 north main st | 725 |
| 23 | 10/25/11 rado dr | 860 |
| 24 | 10/27/11 elm st 9-31a to 9-31c | 500 |
| 25 | 10/28/11 manners ave | 185 |
| 26 | 10/31/11 spencer st | 260 |
| 27 | 10/31/11 lewis st | 250 |
| 28 | 10/31/11 lewis st | 235 |
| 29 | | |
| 30 | | |
| 31 | | |
| 32 | | |
| 33 | | |
| 34 | | |
| 35 | | |
| 36 | | |
| 37 | | |
| 38 | | |
| 39 | | |
| 40 | | |
| 41 | | |
| 42 | | |
| 43 | | |
| 44 | | |
| 45 | | |
| 46 | | |
| 47 | | |
| 48 | | |
| 49 | | |
| 50 | | |
| 51 | | |
| 52 | | |
| 53 | | |
| 54 | | |
| 55 | | |
| 56 | | |
| 57 | | |

| | | This Month | Year to Date | Cost |
|---|--|------------|--------------|------|
| | Line TV (feet) | 870 | 1055 | |
| 1 | (see highlights) | 870 | | |
| | Root Treatment (chemical or simply use of root cutter) | 2702 | 2962 | |
| 1 | 10/6/11 root treatment chemical (see highlights) | 2702 | | |

- Pump Station Inspections/Cleaning:
- 1 10/14/11 vac maple and may 10/15/11 vac inwood
 - 2 10/7,10/14,10/19,10/31 pump station checks all 5
 - 3 10/28/11 vac hop brook and grease tank
 - 4 10/31/11 pump station checks all 5

Vac Truck Information

Days Out in Use

Contract

150

This Month
15

Remaining
102

Fuel Information

Fuel Cost

Fuel Used

Gal

Total Year to Date Gallons

\$92.28

23.1

Gal

413.0

\$220.00

55.0

Gal

Total Year to Fuel Date Cost

\$175.00

43.1

Gal

\$190.00

46.8

Gal

\$51.29

12.6

Gal

\$277.00

68.2

Gal

This Months Total

\$1,005.57

248.9

Gallons

\$3,484.49

vac truck

Mileage

Engine Hours

YTD

Month Start 141365

Month Start 3160.6

Month End 143415

Month End 3252.8

Total 2050

Total 92.2

309.5

Vac Truck Rt

no repairs this month

Utility Truck

Fuel Information

Fuel Cost

Fuel Used

Gal

Total Year to Date

\$104.00

26

Gal

Year Date Gallons

\$113.00

27.83

Gal

180.12

Gal

Year to Date Fuel Cost

This Months Total

\$217.00

53.83

Gallons

\$737.48

Mileage

Highlights

- 10/10/11 vac storage tanks
- 10/11/11 vac storage tanks
- 10/12/11 vac storage tanks
- 10/13/11 grease vac truck,check levels
- 10/17/11 vac rag dumpster and dump into ash pond
- 10/17/11 vac storage dump basin full of grit
- 10/18/11 camera irving st 100ft
- 10/18/11 camera rt 63 130ft
- 10/25/11 camera central ave school found large rock inside pipe.can not remove have to excavate. 130ft
- 10/25/11 camera george st had difficult time jetting line,found belly in line. n line 325ft
- 10/26/11 vac cherry st hold back sewage from stream
- 10/28/11 camera manners ave,call in water in basement,line clear.185ft
- 10/06/11 union city rd 4-83 to 4-84 to 3-119.auburn st 10-163 to 10-164.irving st9-233 to 9-234.north church st 7-24 to 7-24a.southcir. 9-130 to 9-130a. Alma st 7-

Purchase orders

6. Motion to ADD correspondence from Veolia Water for the September 2011 Smoke Testing Report to the agenda.

VOTED: Unanimously on a motion by Pat Mallane and seconded by Catherine Aresta to **ADD** correspondence from Veolia Water for the September 2011 Smoke Testing Report to the agenda.

VOTE: **In Favor: 3** **Opposed: 0** **Abstained: 0**
Motion Carried: 3-0-0

September 2011 Smoke Testing Report

Dear Mr. Batorski,

Veolia Water North America – Asset Management Group is pleased to submit the results of the sanitary sewer smoke and dye testing conducted on September 12, 2011.

Methodology

The sections of sanitary sewer main were selected by the VWNA Naugatuck waste water treatment plant staff for I&I (inflow and infiltration) cross connection analysis, and provided to the VWNA Asset Management Group. Manholes that provided the best straight access upstream and downstream were then selected as smoke launching manholes. On the day of testing these manholes were identified and the smoke machine was placed in each of the manholes and allowed to run for the length of the test. The smoke machine has the capability to push smoke roughly two thousand (2000) feet in both upstream and downstream directions. Upon ignition the field crew would wait until smoke was visibly exiting the roof vents of the houses on the street. Once smoke was visible from the roof vents the inspections would begin. Dye testing was utilized whenever a potential cross connections defect was identified between the storm system and the sanitary sewer system. The direct injection method was used and there was either enough flow in the pipes to carry the dye downstream or the water from a vacor truck was used to push the dye. The VWNA UGAM field crew utilized electronic handheld devices, and thus paperless, field data acquisition software program, which would then be uploaded to the InfoNet asset management database program. Quality control measures were then executed on the collected data to ensure accuracy and the following report was generated directly from InfoNet, which includes defect photos and summaries.

Focus Areas

This study was conducted on the following streets that were identified as sources of I&I. The streets were Hoadley Street, Aetna Street, Homestead Avenue, Galpin Street, and Beebe Street



Observations

In this phase of work, Veolia field crews completed 8689 linear feet of smoke testing on September 12, 2011. The field crew identified the twenty (20) following defects.

| Street | Location/manhole number | Defect Type | Severity |
|------------------|--|----------------|------------|
| Hoadley Street | 6-114 | Vented manhole | HIGH |
| Hoadley Street | 6-112 | Vented manhole | HIGH |
| Hoadley Street | 6-95 | Vented manhole | HIGH |
| Hoadley Street | 6-94 | Vented manhole | HIGH |
| Hoadley Street | 1119 | Vented manhole | HIGH |
| Hoadley Street | 9-162 | Vented manhole | HIGH |
| Aetna Street | 9-161 | Vented manhole | HIGH |
| Aetna Street | 1151 | Vented manhole | HIGH |
| Aetna Street | 9-158 | Vented manhole | HIGH |
| Aetna Street | 9-160 | Vented manhole | HIGH |
| Galpin Street | 2343 | Vented manhole | HIGH |
| Highland Avenue | Corner of Highland Ave. and Galpin St. | Roof Leader | SUSPICIOUS |
| Beebe Street | 1126.1 | Vented manhole | HIGH |
| Highland Avenue | 1126 | Vented manhole | HIGH |
| Highland Avenue | Intersection of Highland Ave. & Beebe Street | Storm Drain | HIGH |
| Highland Avenue | Intersection of Highland Ave. & Beebe Street | Storm Drain | HIGH |
| Hoadley Street | Intersection of Hoadley St. & Highland Ave. | Storm Drain | HIGH |
| Beebe Street | Intersection of Beebe St. & Aetna St. | Storm Drain | HIGH |
| Aetna Street | Intersections of Beebe St. & Aetna St. storm outfall | Outfall | HIGH |
| Homestead Street | 10-34 | Vented manhole | HIGH |

Summary of Defects Found

| Defect | Count | Inflow GPD | Total GPD |
|-----------------------|-------|---------------|---------------|
| Vented Manhole Covers | 14 | 20,173 | 20,173 |
| Storm Drains | 4 | 17,280 | 17,280 |
| Outfalls | 1 | | |
| Roof Leaders | 1 | 2,160 | 2,160 |
| Totals | | 39,613 | 39,613 |

*Inflow estimates for Vented covers is based on "Neenah Foundry Company's "A Report on Inflow from Surface Water through manhole Covers".

7. Adjournment

VOTED: Unanimously on a motion by Pat Mallane and seconded by Catherine Aresta to **ADJOURN** the meeting at 7:11 P.M.

Attest: Catherine Aresta, Secretary/dl