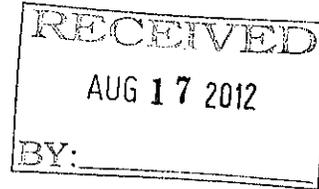


Water Pollution Control Plant Monthly Report



JULY 2012

OVERVIEW AND HIGHLIGHTS

During the month of July we focused on the renewal of the plants NPDES permit. We worked with CT Consultants on submitting new revised local limits for our industrial users. The new limits meet OEPA standards and reflect a set of metal limits that ensure the safety of meeting effluent standards for discharge. The deadline for this renewal application was July 31, 2012 and we will expect a draft proposal from OEPA within the next 6-12 months. Radio communications with the sewage pump stations is being upgraded due to repeated failures of existing equipment. We worked with Lake County Utilities in preparing preliminary boundaries for the 208 plan that is being revised by NOACA. The new plan will have specific boundaries that detail areas for future development of sewerage systems. Maintenance staff focused efforts on repairing and re-sitting the No. 2 anaerobic digester mixer, fabricating new stainless steel elbows for the grit cyclone and cutting up and removing No. 1 and No. 2 intermediate secondary clarifier equipment.

WPCP MONTHLY STAFF MEETING AND DISCUSSION

July 31, 2012 @ 2 PM

Presentation: Jeremy Iosue, Human Resources Consultant, on Family Medical Leave Act.

1. Operations
 - No. 4 Aeration Tank – Inspection of air piping before return to service
 - Intermediate Tanks – Removal of tank equipment
 - Plant Roofs – Capital Budget for next 5 years
 - 2013 Budget
 - New Transportation Cart – Safety
 - New Industrial Pretreatment Truck
2. Safety – One accident this past month. Review
3. City Business
 - Review minutes of department head meetings for the month of July, 2012.

JULY EVENTS AND MEETINGS

1. Rita McMahon, City Manager and Randy Bruback met with Al Saari, Lake County Engineer to discuss the proposed revision to the City's 208 Plan on July 9, 2012 at City Hall.
2. Jeff Tressel and Randy Bruback met with CT Consultants on July 11, 2012 to finalize the new proposed local limits for industrial users. The new limits are being proposed in conjuncture with the renewal of the City's NPDES permit.
3. Randy Bruback attended the City Council meeting on July 16, 2012. Questions concerning the proposed digester heater replacement capital project were answered by him.
4. A presentation by a Vitality Wellness program consultant was given to WPCP staff on July 17, 2012.
5. On July 18, 2012 Joe Elliott, Jeff Tressel, Joe Jackson and Randy Bruback attended a training session at Morse Avenue. The session was presented by Jeremy Iosue, Human Resources Consultant and covered the Family Medical Leave Act and Union Issues.
6. Kurt Timmons, Technique Roofing met with Randy Bruback to discuss roof replacement plans for the WPCP on July 26, 2012.
7. Randy Bruback met with Mary Ann Driscoll, on July 27, 2012 to discuss WPCP Capital Projects in 2013.

GOALS AND ACCOMPLISHMENTS

1. Randy Bruback met with door and window contractors during the month of July to review and receive estimates for replacement equipment.
2. Roofing contractors met with Randy Bruback during the month to gather information to provide estimates on roof replacement projects for the WPCP.

SAFETY MEETING MINUTES

WPCP Safety Committee Notes July 26, 2012

Attendees: Randy Bruback, Leslie Balata, Jeff Tressel, Tim Leonard, Ed Prib, Kevin Aiken

1. Kevin went over notes from the city safety meeting he attended on July 9th.
2. The committee discussed possible ways to mount the new throw bags that were purchased for the life rings by the aeration basins.
3. Kevin discussed a safety concern mentioned to him about the steps near the contact chamber. Randy agreed there is a problem with all the concrete in that area and is looking into a solution.
4. With the removal of the catwalks on the intermediate tanks there is an opening in the railings. A temporary solution is to install safety chains but Randy said he would like to see something more permanent like solid rail.
5. Kevin mentioned that fire extinguisher training is required annually and he had asked to borrow the training video from another department. Randy said to let him know when we get the video so we can schedule the training.

Old Business

1. Kevin is checking on having all of the fall restraint equipment inspected and recertified.
2. Welding of safety bar and electrical issues on truck # 75
3. Ranger wipers, flashers, and steering
4. Cover over drain in admin building basement

Mission Statement

The mission of the Water Pollution Control Plant is to provide the most effective customer oriented wastewater collection and treatment to the citizens of Painesville.



**Grand River
Painesville, OH**

Results

	<u>This Month</u>	<u>Last Month</u>
Avg. Daily Flow	2.12 MGD	2.02 MGD
Flow Treated	65.79 Mill. Gal.	60.47 Mill. Gal.
Raw PO	4.34 Mg/L	3.90 Mg/L
Final PO	0.71 Mg/L	0.92 Mg/L
% Removed	83.6 %	76.4 %
PO to River	0.195 Tons	0.232 Tons
Raw C-BOD	153 Mg/L	161 Mg/L
Final C-BOD	1 Mg/L	1 Mg/L
% Removed	99.3 %	99.4 %
C-BOD to River	0.27 Tons	0.25 Tons
Raw Suspended Solids	241 Mg/L	207 Mg/L
Final Suspended Solids	2 Mg/L	1 Mg/L
% Removed	99.2 %	99.5 %
Suspended Solids to River	0.55 Tons	0.25 Tons

Meters

The Total Plant Flow meter was calibrated weekly, and found to be correct. The Lubrizol meter is checked weekly. The Total Plant Flow meter recorded 65.79 million gallons flow. The Lubrizol meter recorded 6,001,010 gallons flow.

Detritors

4.51 tons of grit was removed during the month.

Comminutors

1.65 tons of screenings was removed during the month.

Chemical Treatment

24800 pounds of alum was required at a cost of \$3,720.00 for the removal of 1991.7 pounds of phosphorus. Cost of phosphorus removal for the month was \$1.87/pound.

Primary Clarifiers

The primary clarifiers operated satisfactorily during the month, removing 450,086 gallons of raw sludge containing 4.1% solids.

Anaerobic Digesters

The primary digesters operated satisfactorily during the month, transferring 451,693 gallons of raw sludge for pressing containing 3.3% solids.

Secondary Treatment

The secondary clarifiers operated satisfactorily during the month.

Tertiary Treatment

The tertiary filters operated satisfactorily during the month.

Hypo-chlorination

1861 pounds of salt was used in the production of 627 pounds of available CL₂ to meet the chlorine demand in disinfecting the final effluent. The average residual was 0.02 mg/l CL₂. The maximum effluent residual was 1.44 mg/l CL₂ and the minimum effluent residual was 1.2 mg/l CL₂. Cost of chlorination for the month was \$255.81 or \$0.408 per pound of available CL₂.

Dechlorination

600 pounds of sodium bisulfite was used to maintain a maximum residual chlorine of 0.030 mg/l as per our N.P.D.E.S. Permit. Cost of dechlorination for the month was \$99.00.

Liquid Sludge

The filter press processed 478,218 gallons of liquid sludge producing 258.38 tons of wet cake including 26,525 gallons of water plant sludge containing 24.2% solids or 64.48 tons of dry solids. 1092 pounds of polymer were used at a cost of \$1,266.72. Cost of disposal at the Lake County Landfill was \$7,936.20.

Digester and Greenhouse Heating

The anaerobic digesters consumed 0 cubic ft. of generated methane and 6410 cubic ft. of purchased gas. The greenhouse used 0 cubic ft. of purchased gas.

Pump Stations

Erie Street pumps recorded 54.60 hours and pumped 327,600 gallons of wastewater.

Fern Drive pumps recorded 33.60 hours and pumped 443,520 gallons of wastewater.

Poplar Lane pump recorded 93.60 hours and pumped 3,088,800 gallons of wastewater.

Jackson Street pump recorded 28.90 hours and pumped 528,870 gallons of wastewater.

Recreation Park pump recorded 17.50 hours and pumped 315,000 gallons of wastewater.

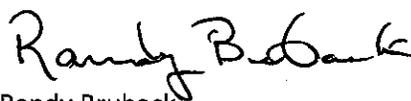
Sanford Street pump recorded 53.50 hours and pumped 802,500 gallons of wastewater.

Valley View pumps recorded 14.21 hours and pumped 153,468 gallons of wastewater.

Brookstone flow meter recorded 1,532,700 gallons of sewer flow.

The Seven (7) pump stations pumped 5,659,758 gallons of wastewater and 36 man-hours were required in maintenance.

Respectfully Submitted,



Randy Bruback
Superintendent
Water Pollution Control Plant