CITY OF ALGOMA

A GREAT LAKES COMMUNITY

8-30-16

Algoma Public Works Committee Meeting : August 30th 2016 @ 5:00 pm
Members present" J.Wiese, K.Koss, H.Nell, D.Meyer, L.Dachelet
Absent: J.Barlow
Other: Mike Decur & Jeff Hoffman.
Approval of Agenda motion by K.Koss 2nd by H.Nell MC
NO Public Comment.
Minutes from July 28th 2016 meeting was approved. Motion by K.Koss 2nd H.Nell MC
Presentation & Approval of the Bills: Motion K.Koss 2nd by D.Meyer MC
SUEZ Report: Jeff Hoffman went over the report all's well and normal repairs a little overcome again with water flow after the August 20th rainfall but discussion on needing the holding tanks to get repaired. They are in process of bids for the repair have 1 quote in and waiting on 2nd. 1st coming in around $40,000.00. See attached report.
Public Works Director Report: Mike Decur reported they are busy doing Summer maintenance. Tree removal, Beach cleaning, sidewalk replacement and equipment repair. This month had several traffic control item with bucks and cones. Aided the Police Dept. in that. Working on the replacement of the new WWTP back up pump. Discussion on the outcome of the NEW dump truck. He expressed that it's been on hold as far as he knows. ??? WHY!! It was put in the Budget. Looking into funding /grants.Task order is out and process is moving for the UV system @ WWTP.
Algoma received there DNR Beach cleaning permit so all's back to normal.
Sewer Credit Policy: Discussion on such and committee had recommendation on changes for the Policy and redraft and preset to the Council approval. Motion by K.Koss 2nd by J.Wiese MC. Discussion on water levels in rainstorm on Perry & 7th St area. Street Dept. will be loaning the Trailer Park Super a set of traffic bucks for them to install to stop traffic going down Perry street to avoid over flooding at that time. Mike will take care of this. Discussion on reports on the Phragmites
trouble on Bay Road & Lakeshore Drive Mike will check this out and report back next meeting. Discussion on getting ready for Budget.

Next meeting September 27th 2016 - Motion to adjourn @ 6:02pm

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City of Algoma WWTP

Monthly Report – July 2016

1. Wastewater Effluent Quality

Effluent quality for July was within the parameters regulated by the WPDES in permit # WI-0020745-08-0. Total wastewater treated in July was 19,434,000 gallons. The following table lists the effluent concentrations based on data available at the time of this report; further analysis may be pending.

Table 1A Nutrients

	Parameter	BOD_5 mg/l	TSS mg/l	Ammonia-N mg/l	Total-P mg/l
Monthly Values	Minimum	<2.0	1.5	<0.045	0.3
	Maximum	4.8	6.0	1.6	0.7
	Average	<2.0	2.9	0.071	0.4
Limits	**Monthly Average**	**10**	**10**	**3.3 June – September**	**1.0**

Table 1B Other Parameters

	Parameter	pH	Fecal coliform	Dissolved Oxygen	Effluent Temp.
Monthly Values	Minimum	7.3	<1	8.3	14.6
	Maximum	7.8	119	9.5	18.2
	Average	7.6	Geo Mean 8.2	9.0	16.4
Limits		**>6 & <9**	**<400#/100 ml**	**>7.0 mg/l**	**>10^{0}C**

2. Chemicals

The following table outlines the chemical use for the month. These amounts are estimates based on daily use and application rate.

Table 2A

Chemical	July 2016
Aluminum Sulfate	1200 gallons
Polymer	16 gallons

3. Operations

a. New control switches for Primary clarifier 1 arrived on July 12. The switches were installed by Suez staff the same day.

b. Heavy rainfall on the morning of Monday July 11 caused plant flows to rise from less than 400gpm at 7:00 AM to over 1,900gpm at 8:30 AM. Many facility adjustments were made to ensure proper treatment was not interrupted. Unfortunately, a physical flaw in the concrete of Primary Clarifier 2 allowed a small volume of primary effluent to seep through a seam to the ground. The Treatment Facility Overflow (TFO) was immediately reported to the WDNR and the proper reports and public notifications have been made.

   We are in the process of obtaining price quotes for the concrete repair work.

c. The rate of Aluminum Sulfate dosing was reduced in the second half of July.

d. Waste Activated Sludge (WAS) pump 1 has been removed from service and brought to Vacuum Pump and Compressor of Green Bay for evaluation. The WAS pump was identified during the facility vibration analysis to have a bearing that was going bad. The evaluation also revealed the need to replace the impeller and rebuild the pump.

e. Pump two at the Steel Street lift station has been found in an alarm state during scheduled rounds, but will operate by hand. Gary King of Bay Electric Systems will be troubleshooting the cause of the failure.

4. Maintenance Activities

f. All of the facilities exhaust fan belts have been inspected and replaced as necessary.

g. An issue with the power switch connecting rod at the Arlington lift station has been corrected.

h. A bulging airline on the Filter Building Air Dryer was identified and repaired.

i. Two new inline filters have been installed on the reuse water lines feeding the Filter Backwash pumps. The new inline filters are larger in capacity than the previous units are and should need less frequent maintenance.

j. Suez staff installed new stainless steel fittings on the trailer mounted pressure washer.

k. Fluorescent lamps throughout the facility have been inspected and replaced as necessary.

l. Insect/spider repellent has been applied around all outside doorways and light fixtures as well as some of the interior workspaces.

m. Lawn and weed killer have been applied alongside some of the building exteriors, sidewalks, and the parking area.

n. Oil changes have been performed on both the air compressor in the Control Building and the air compressor in the Filter Building.

o. The Effluent Composite Sampler was defrosted.

p. The Cub Cadet walk behind mower was repaired. A new lower handle, front left wheel, air cleaner, and blade were installed.

q. Suez staff exercised the emergency generator, each week, for thirty minutes. The generator operated under facility load, for thirty minutes, on July 26.

r. Equipment inspected and greased in accordance with the preventative maintenance program included, but was not limited to: Re-use water booster pump (Thickener), Grit classifier, Thickened sludge pumps 1 and 2, Digested sludge pumps, Piston pumps, Primary clarifiers, Secondary clarifiers, Gravity belt thickener roller bearings, blowers and Re-use water pumps.

s. Safety eyewashes, safety showers and fire extinguishers have been tested and or inspected.

t. There were no after hour's call-outs in the month of July. (Table 4A)

Table 4A

Date	Issue	Action Taken

The following table outlines the expenditures and remaining value of the maintenance cap through the end of the contract year. There are additional budget items for July that were not included at the time this report was prepared and will be included with next month's report.

Table 4B

2016 Maintenance Cap		Monthly contribution	Total contribution	Remaining value	Remaining percent
$27,195.35	January	$1,694.21	$1,694.21	$23,502.35	93.28%
	February	$2,390.54	$4,048.75	$21,111.81	83.79%
	March	$1.595.77	$5,680.52	$19,516.04	77.46%
	April	$542.68	$6,223.20	$18,973.36	75.30%
	May	$1,598.25	$7,821.45	$17,375.11	68.96%
	June	$2,703.27	$10,524.72	$14,671.84	58.23%
	July	$2,579.68	$13,104.40	$12,092.16	47.99%

5. Upcoming activities

a. Concrete repairs and resurfacing of the outfall channel of Primary Clarifier 2.

b. Bay Electric Systems will be on site to evaluate and repair items from a list that includes replacement of the variable frequency drive on Effluent Pump 2, and troubleshooting a reoccurring failure of Pump 2 at the Steel Street Lift Station.

c. Completion of the Arc Flash study and installation of related warning labels.

d. Continued correction of vibration analysis findings.

e. Repair of an 18" valve that requires working at height and use of a fall arrest system.

f. Working with Strand Associates on the UV system upgrades.

6. Training, safety and other

a. Suez staff individually completed various online training topics that are required annually or biannually.

b. The site safety inspection performed this month concentrated on the Service and Filter buildings.

c. Safety tailgate talks are conducted weekly.

7. Odor and Noise

a. There were no odor or noise complaints registered in July.