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October 18, 2011

Township Supervisor
12050 Old Belding Road
Belding, MI 48809-9318

Grattan Township and Grattan/Vergennes Sewer Systems
September 2011 Monthly Operations Report

Dear Frank,

The month of September was unusually warm and dry, which provided optimal irrigation conditions for both facilities. The new center pivot irrigation system at the Grattan/Vergennes WWTF is being operated manually, as the radio frequency for remote operation is still pending.

The installation of the control panels continued to progress through the month of September. It is anticipated that the new panels will be operational by the end of October 2011.

As always I would be happy to elaborate on any of the submitted information or provide any additional information that would assist the township board. Please do not hesitate in contacting me.

Sincerely,



John Rydbeck
(616) 890-5768
Infrastructure Alternatives - Grattan Township Sewer System Operations Manger

Attachments:

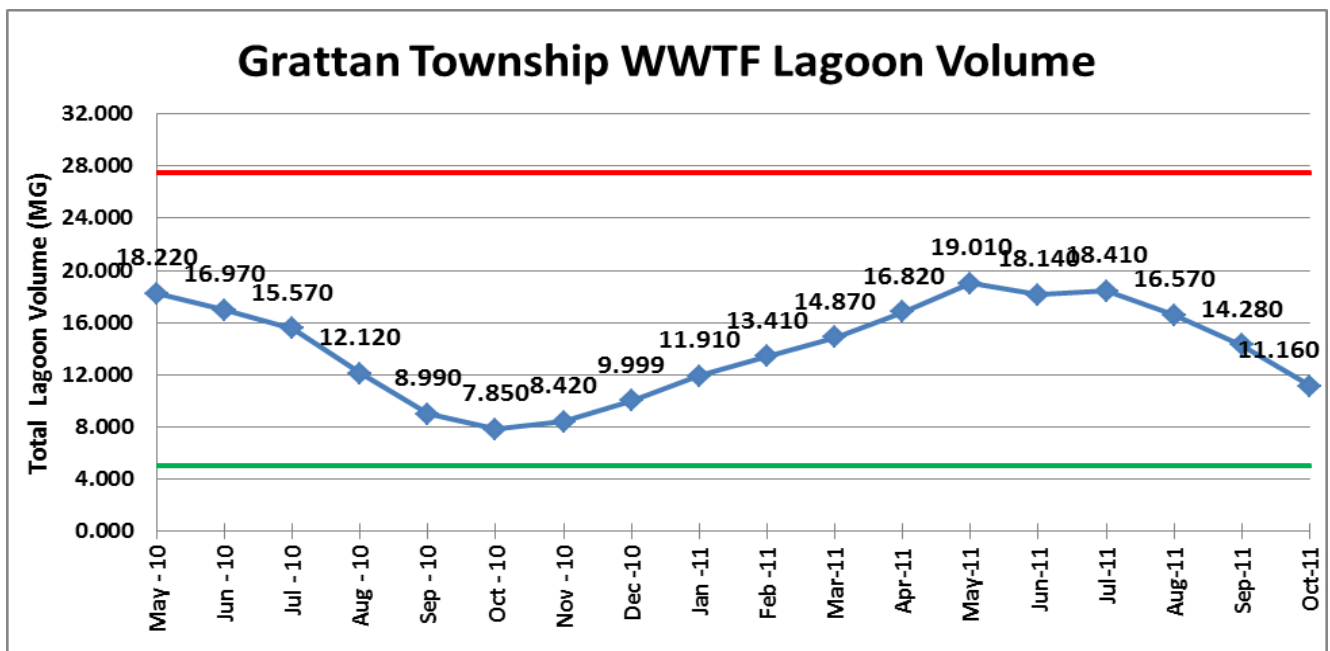
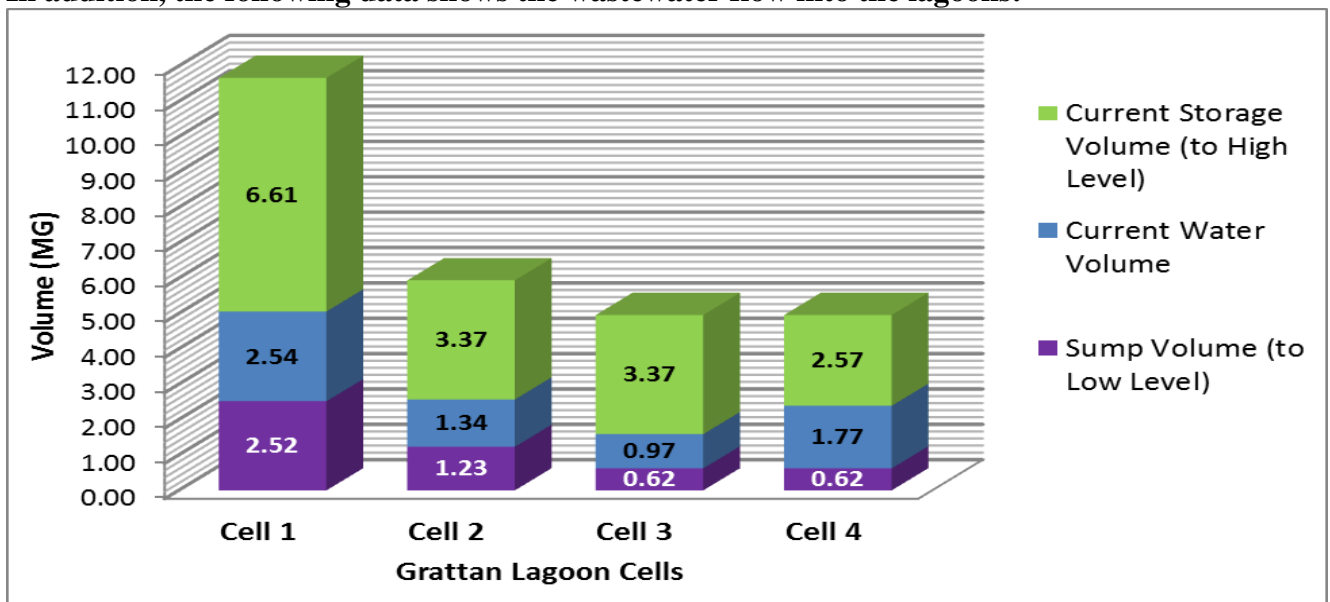
Grattan Township Wastewater System

Executive Summary:

The monthly CMR for September 2011 is currently being prepared for submission to the DNRE. There was 3.212 MG discharged throughout the month of September. The wastewater influent flow for the month of September was 0.966 MG (as totalized daily by the PS #1 force-main magnetic flow meter). Rainfall for the month of September at the Grattan Township WWTF totaled 1.75 inches (data obtained from the rainfall tipping bucket and Mission telemetry system). The following shows the relationship of these variables:

$$-3.120 \text{ MG (Tot. Lag. Decrease)} = 0.966 \text{ MG (Inf.)} - 3.212 \text{ MG (Irr.)} - 0.874 \text{ MG (Net Precip./Evap)}$$

In addition, the following data shows the wastewater flow into the lagoons:



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Emergency Call-Outs:

- There were no Emergency call-outs for the month of September.

Preventative Maintenance:

- The preventative maintenance tasks have been completed for September 2011 and available for review upon request.

Corrective Action / Significant Tasks Completed:

- On Thursday September 1, 2011 Grand Tech installed Mission Pulse Board at Grattan-PS #1 to report flow readings to the Mission website
- On Monday September 19, 2011 IAI operator Chris Chambers check irrigation guns to find Gun #6 to not open. Cleaned discharge orifice and solved issue.

Pending Projects:

- The replacement of control panels according to the prioritized list obtained from the Assessment of Facilities report.
- Old Orchard site cleared of trees and stumps and ready for irrigation in spring of 2012.

Grattan/Vergennes Township Wastewater System

- **Executive Summary:** There was 1.090 MG discharged during the month of September through the new center pivot irrigation system. The wastewater influent flow for the month of September was 1.892MG (as totalized daily by the PS #1 force-main magnetic flow-meter). The CMR for September 2011 is being prepared for electronic submission.

Emergency Call-Outs:

- Sunday September 4, 2011 1:30 p.m-4:00 p.m. G/V-PS#8, 8A, #9 POWER OUTAGE: IAI on-call operator, Chris Chambers, received call from the Sensaphone Dialers. Chris arrived on-site and provided generator power to all the stations until power was restored. No sewer overflow occurred from this event.
- Thursday September 8, 2011 4:30 p.m.-6:00 p.m. G/V-GPS#2 HIGH LEVEL ALARM : IAI operator Chris Chambers, received a call from the Cummingham Communications (Grattan Call Center) about the light being on . Chris arrived on-site to find the pump station was at normal level. Chris manually operated the pump on and off floats and found them to be faulty. The pump on and off were changed out. No sanitary sewer overflow occurred from this event.
- Wednesday September 21, 2011 7:00 p.m.-9:00 p.m. G/V-PS #4 ANALOG 1 LOW FAULT: IAI operator Chris Chambers received the call from the station's Mission dialer. Chris arrived on-site to find the pump station was at normal level. JC from Grand Tech Inc was informed of the call out and made changes to the Mission Pulse Board. No sanitary sewer overflow occurred from this event.
- Sunday September 25, 2011 4:30 a.m.-9:00 a.m. G/V-PS#9 LAG LEVEL ALARM: IAI operator, Chris Chambers received the call from the station's Sensaphone dialer. Chris arrived on-site finding pumps #1 and #2 tripped out. Reset pump and did amp draw finding amps to be high. A few minutes later they tripped back out. Chris Chambers and Cody Chambers pulled both pumps #1 and #2 finding gauzes in both pumps. Pumps were place back in and amp draw read normal. No sanitary sewer overflow occurred from this event.
- Thursday September 29, 2011 9:00 p.m.-10:00 p.m. G/V-PS #4 ANALOG 1 LOW FAULT: IAI operator Bob Stephens received the call from the station's Mission dialer. Bob arrived on-site to find the pump station was at normal level. JC from Grand Tech Inc was informed again of the issue and will be out the first of October to trouble shoot. No sanitary sewer overflow occurred from this event.
- Friday September 30, 2011 1:50 a.m.-3:50a.m. G/V-PS#14 POWER OUTAGE: IAI operator, Bob Stephens received the call from the station's Mission dialer. Bob arrived on-site and provided generator power to the station until power was restored. No sanitary sewer overflow occurred from this event.

General Operation Information / Housekeeping:

- On Thursday September 13, 2011 Farm Services and IAI operator Chris Chambers began start up for new Center Pivots.
- On Friday September 14, 2011 IAI operator ,Chris Chambers began irrigating out of new Center Pivots.
- On Tuesday September 20, 2011 CL Trucking placed felt and stone around under drain outlets, also cleaned and hauled away all plastic on North and South Irrigation Zones.

Preventative Maintenance:

- The preventative maintenance tasks have been completed for September 2011 and available for review upon request.

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Corrective Action / Significant Tasks Completed:

- All Grinder Stations were checked and a Float Replacement Count was done as well.

Pending Projects:

- Grattan/Vergennes WWTF irrigation telemetry (radio signal) to the treatment building, stump removal, and modifications of the under-drain outlets [headers].
- The replacement of control panels according to the prioritized project list from the Assessment of Facilities Report.