

**DELAVAN LAKE SANITARY DISTRICT
ADMINISTRATOR'S REPORT
MARCH ACTIVITY 2018**

ADMINISTRATION

New Conveyor and Harvester are now ready for paint.

Official Ice off date is March 24th, 2018

Wet well in lift station #2 is epoxy coated. New Pumps are set and ready for electrical installation.

DLSD commission approved assisting the Town with a pellet program study.

Barge hydraulic propeller gear box is badly worn internally and being replaced with a new unit.

Leaking hydraulic pumps and rams are being rebuilt or replaced on existing harvesters.

SEWER SYSTEM OPERATIONS

Building Sewer Connections

New Connections for the Month - 0

Reconnections for the Month - 0

Disconnections for the Month - 0

Total Number of Structures Connected to Date - 3,095

Total ERU Count for the Month - 4,007

Operation and Maintenance

Average March Daily Wastewater Flow to WalCoMet - 450,065 gallons

Peak March Flow - 504,168 gallons

Diggers Requests Marked for the Month - 63

Emergency Call Outs - 1

The following charts are attached: *Wastewater Flow comparison with Precipitation for March, 2018*
Average Daily Wastewater Flow comparison with Peak Flow
Precipitation comparison with "normal"
Wastewater Flow comparison with "normal"
Environmental Data Summary
Daily Lake Elevation for March, 2018
Lake Elevation comparison with "normal"

Lake Monitoring/Lake Level

Precipitation Total for the Month – .76 inches

Below Normal – 1.91 inches

Ice On Date – December 26, 2017

Ice Off Date – March 24, 2018

Secchi Disc Reading Main Lake – 7' 5" feet on 11/16/17

See attached Lake Elevation Graph and Chart.

Lake Information

DNR Lake Level Goal – 927.86 feet

Average Lake Elevation – 927.54 feet

Number of Dam Inspections – 31

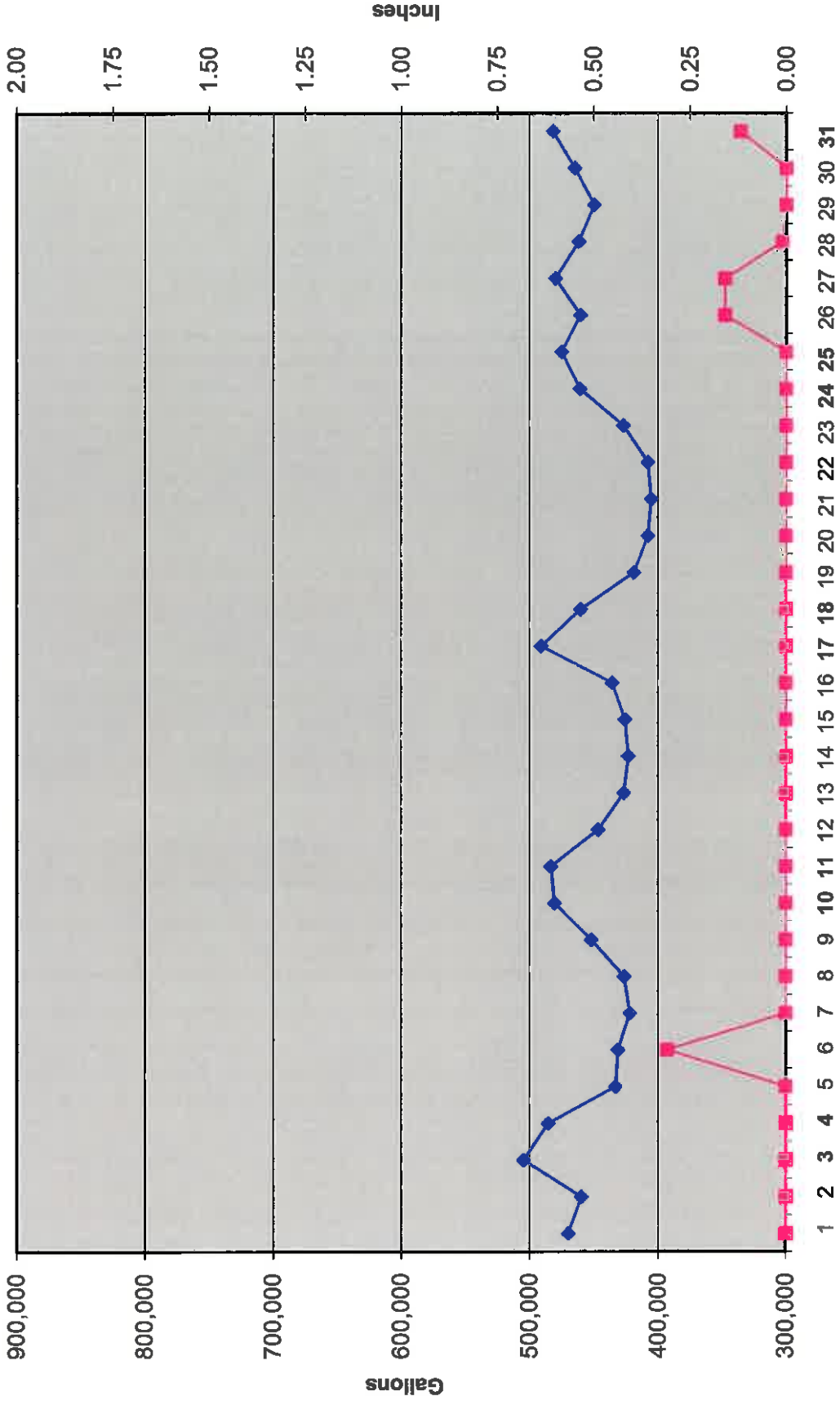
See attached Gate Setting Chart.

Lake Committee

The next meeting of the Lake Committee is scheduled for 7:00 P.M. on Wednesday, May 2nd, 2018 at the Town Hall.

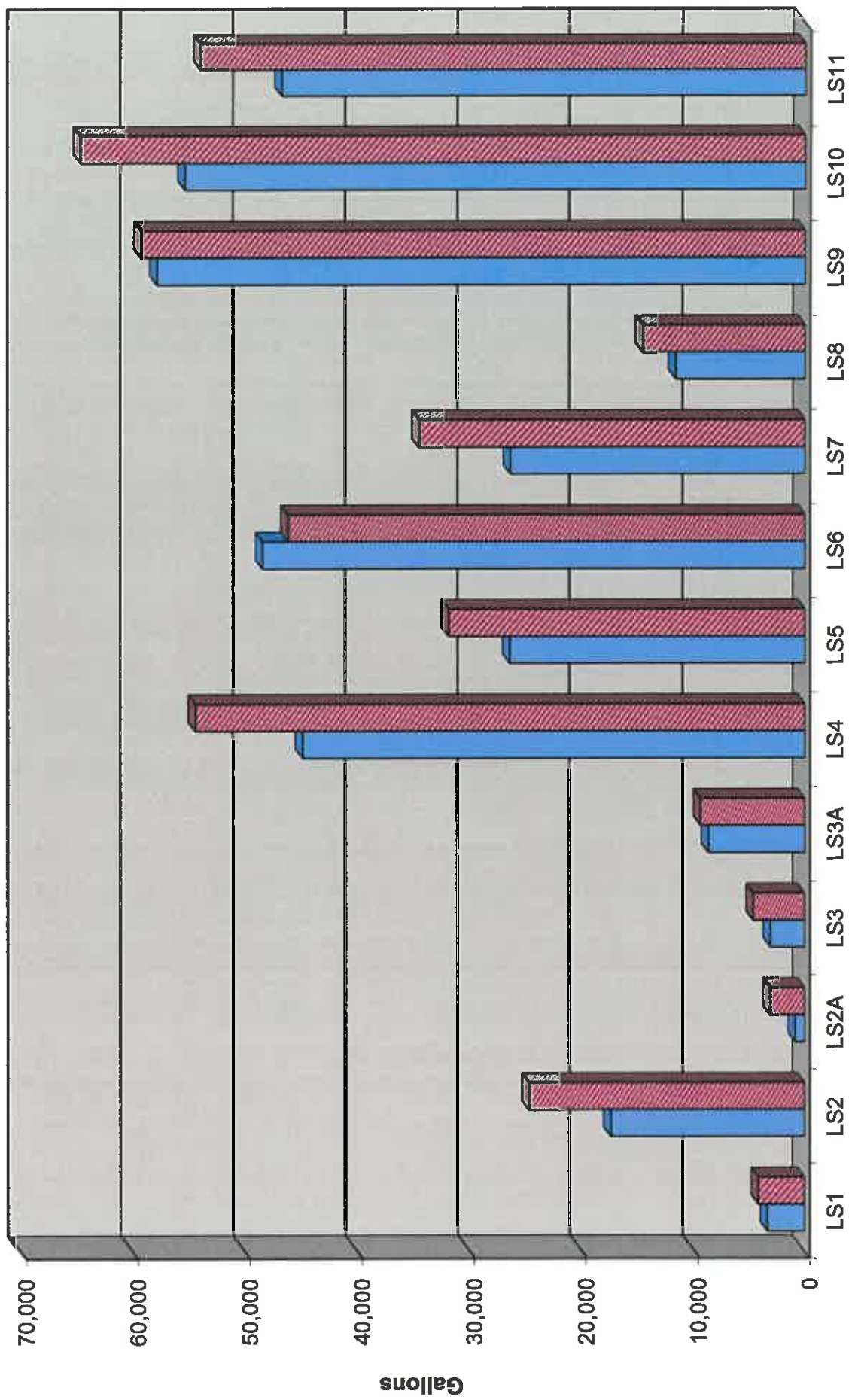
Attachments

Wastewater Flow/Precipitation - March, 2018

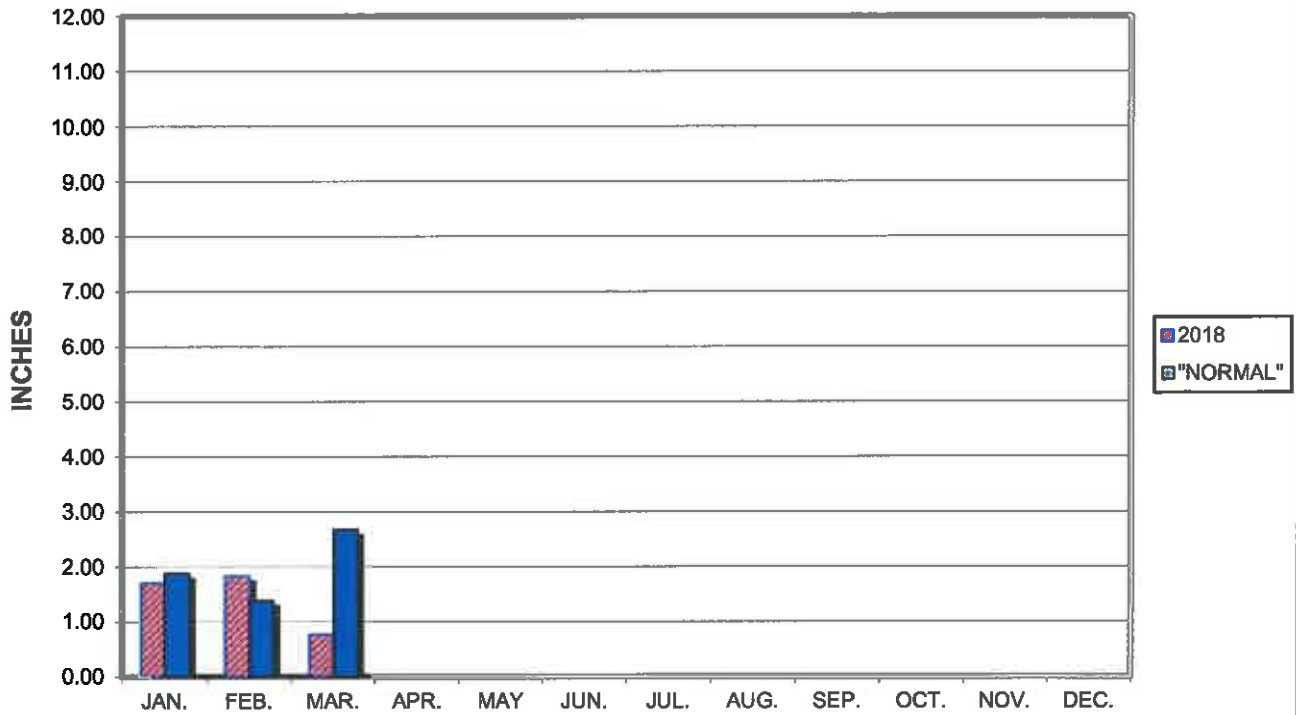


Average Daily Flow/Peak Flow by Area-March, 2018

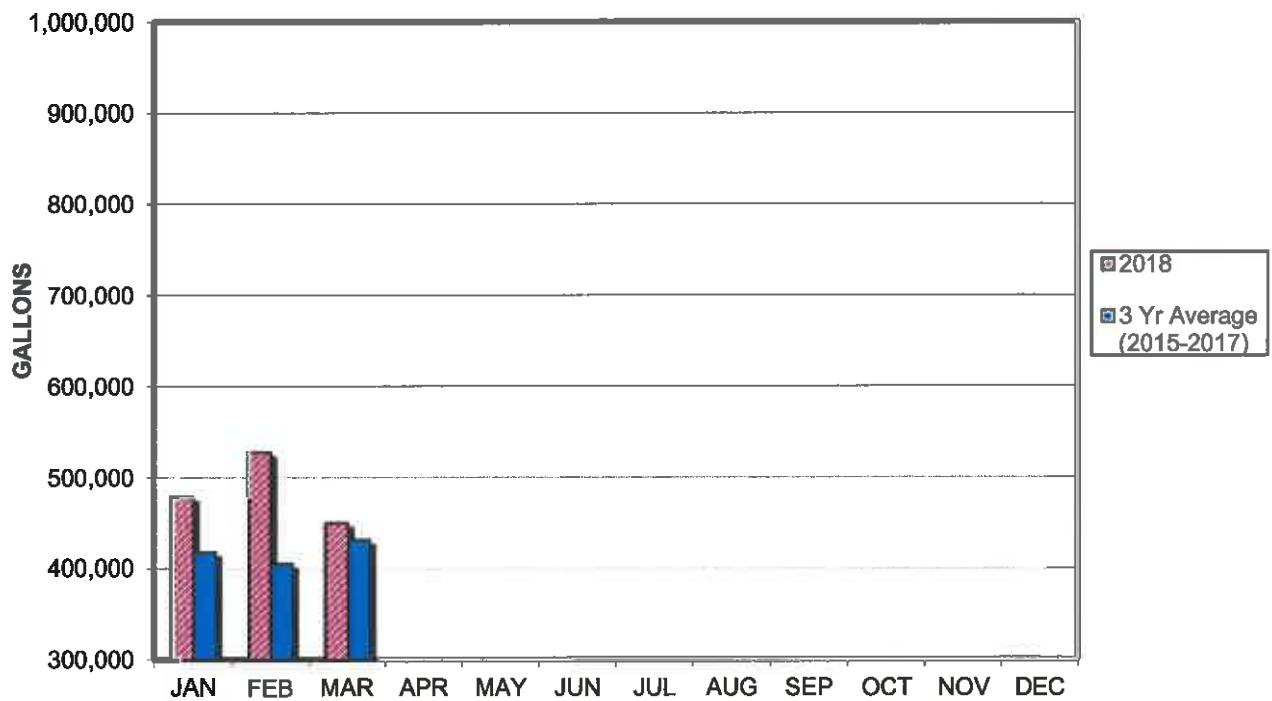
Average Peak



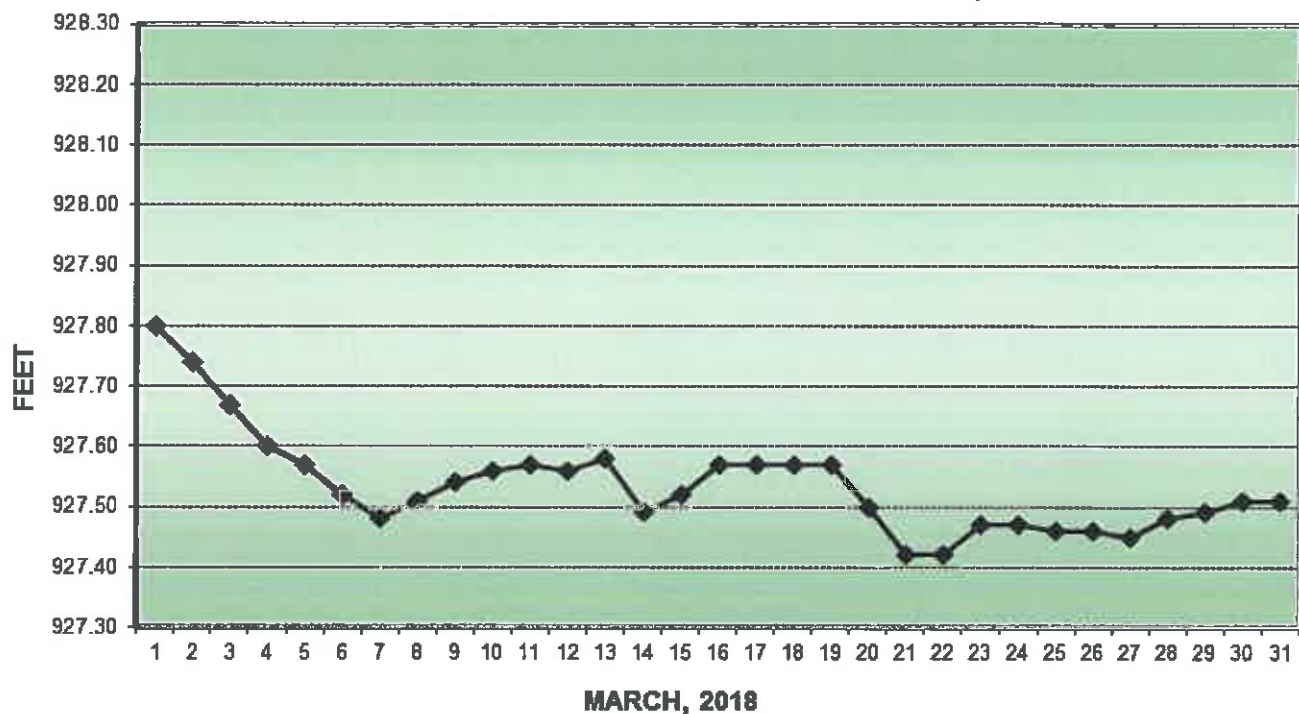
PRECIPITATION - DELAVAN LAKE, WI



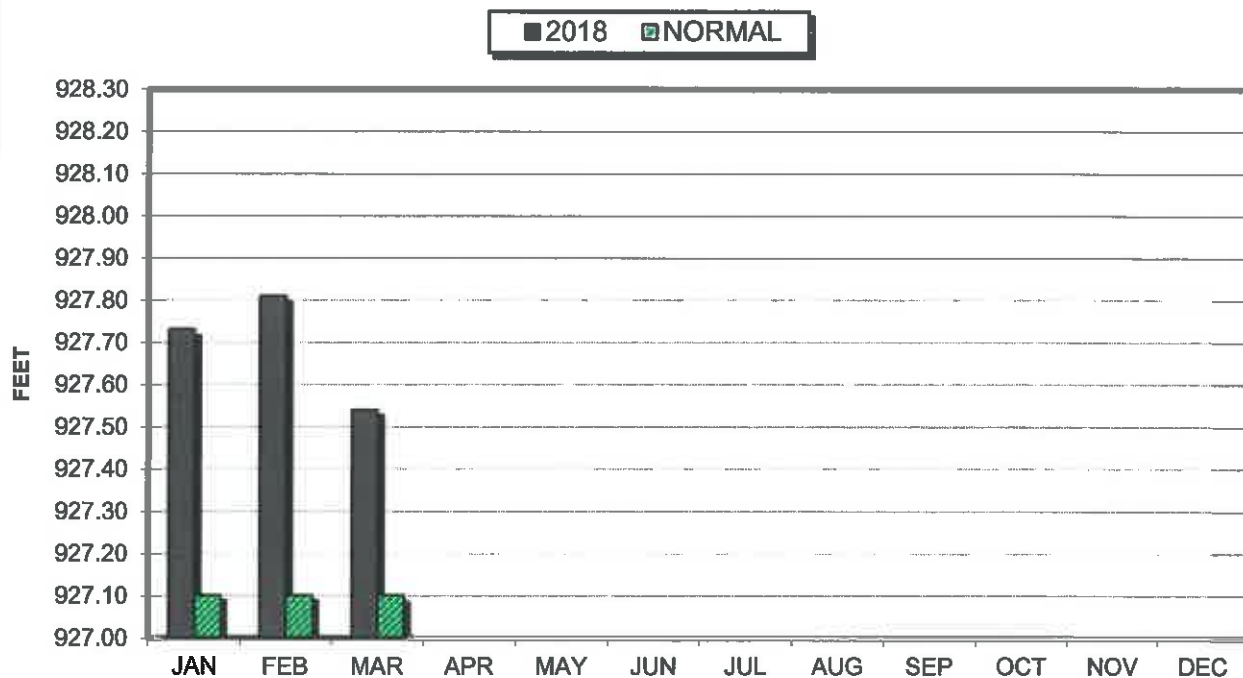
AVERAGE WASTEWATER FLOWS



LAKE ELEVATION - DELAVAN LAKE, WI

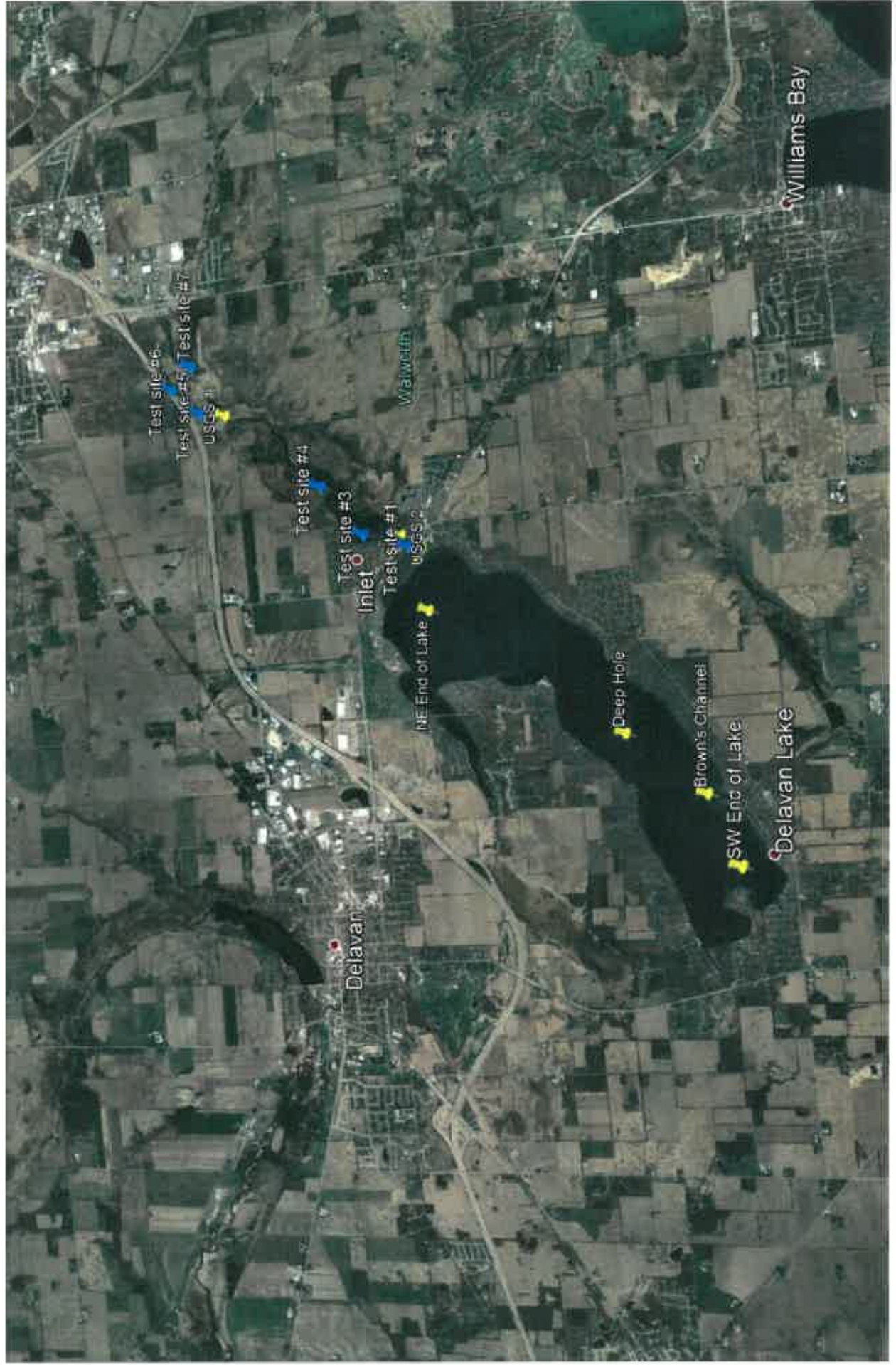


AVERAGE LAKE ELEVATION - DELAVAN LAKE, WI



Delavan Lake Monitoring & Test Sites

3/20/2018



Delavan Lake Monitoring & Test Sites



Test Site 1 – Sediment Cores will be taken April 2018, Oct 2018, April 2019 to test the hypothesis that Sediment Reduction Pellets reduce sediment without release of phosphorous

Test Site 2 – Sediment Cores will be taken April 2018, Oct 2018, April 2019 to test the hypothesis that Sediment Reduction Pellets reduce sediment without release of phosphorous

Test Site 3 – Sediment Cores will be taken April 2018, Oct 2018, April 2019 to test the hypothesis that Sediment Reduction Pellets reduce sediment without release of phosphorous

Test Site 4 – Sediment Cores will be taken April 2018, Oct 2018, April 2019 to test the hypothesis that Sediment Reduction Pellets reduce sediment without release of phosphorous

Test Site 5 – Sediment Cores will be taken April 2018, Oct 2018, April 2019 to test the hypothesis that Sediment Reduction Pellets reduce sediment without release of phosphorous

Test Site 6 – Sediment Cores will be taken April 2018, Oct 2018, April 2019 to test the hypothesis that Sediment Reduction Pellets reduce sediment without release of phosphorous

Test Site 7 – Sediment Cores will be taken April 2018, Oct 2018, April 2019 to test the hypothesis that Sediment Reduction Pellets reduce sediment without release of phosphorous



USGS 1 – USGS Monitoring – Activates when rain event reaches $\frac{3}{4}$ " to monitor Phosphorous load to lake. Updates February 2018

USGS 2 – This monitoring station is deactivated – DLSD staff do take water samples every 2 week during open water season. Samples are tested for Phosphorous

NE End of Lake – Water Quality Monitoring – USGS – Nitrogen, Phosphorous, Chlorophyll A – August, Sept, November; DLSD Secchi & Temp every 2 weeks during open water season

Deep Hole – Water Quality Monitoring– USGS – Nitrogen, Phosphorous, Chlorophyll A – August, Sept, November; DLSD Secchi & Temp every 2 weeks during open water season

Brown's Channel- Water Quality Monitoring - DLSD Secchi & Temp every 2 weeks during open water season

SW End of Lake- Water Quality Monitoring – USGS – Nitrogen, Phosphorous, Chlorophyll A – August, Sept, November; DLSD Secchi & Temp every 2 weeks during open water season