



## VILLAGE OF SUTTONS BAY

### Remote Access Attendance

COMMITTEE OF THE WHOLE

420 N Front St.

Suttons Bay, MI 49682

Thursday August 6, 2020, at 8:10 am

#### AGENDA

1. Call to Order
2. Roll Call
3. Additions / Deletions to the Agenda
4. Reports / Communications
5. Committee Member Information / Comments
6. Public Comments (*Please limit remarks to no more than three (3) minutes or less*).
7. Old Business
  - a. None
8. New Business
  - a. Work Plan Discussion/Update
9. Public Comments/Written Communication
10. Committee Member Comments
11. Announcements:
12. Adjourn



Topic: Village of Suttons Bay Committee of the Whole  
Time: Aug 6, 2020 08:10 AM Eastern Time (US and Canada)

Join Zoom Meeting

<https://us02web.zoom.us/j/82432193018?pwd=TlZvb29rVnM5TUxtdWhvdFZlWmVFUT09>

Meeting ID: 824 3219 3018

Passcode: 471985

One tap mobile

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## SUTTONS BAY WWTP MONTHLY OPERATIONS REPORT

July 2020

**TO:** Rob Larrea  
Dave Miller

**FROM:** Mark Huggard, **Jacobs**

**DATE:** July 29, 2020

**COPY:** Kevin Dahl, **Jacobs**  
Elizabeth Hart, **Jacobs**

This report describes our activities during the month of July 2020. If there is additional information you would like included in the report, please let us know.

### **Permit compliance:**

Available lab results for the month of July indicate full permit compliance.

Jacobs completed and submitted June's Discharge Monitoring Report (DMR) to the Michigan Department of Environment, Great Lakes, and Energy (EGLE). The facility was in full compliance.

### **Treatment Plant Aerial View**



## Operations:

### July's Flow Report

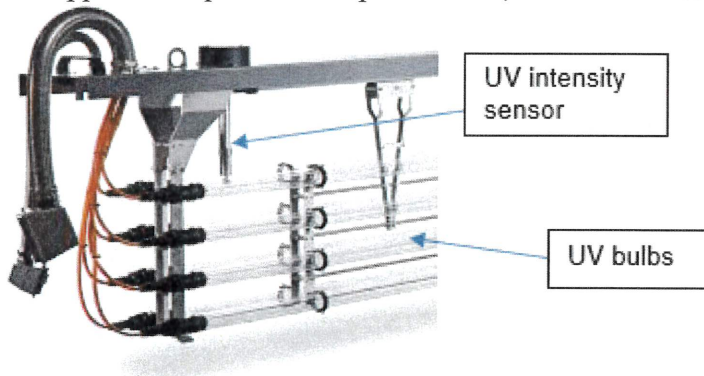
Average Influent Flow 2020*	213,641	Gallons per day
Average Influent Flow 2019	221,804	Gallons per day
Total monthly hauled truck waste 2020*	152,012	Gallons
Total monthly hauled truck waste 2019	260,775	Gallons

\*Data through July 28<sup>th</sup>

Plant operations went well for the month of July.

Aeration blower #2 was installed and returned to rotation.

In response to the intermittent UV bank B low intensity alarms we've experienced, we identified and eliminated all possible causes, unrelated to a failing UV intensity sensor (most expensive solution). Following our determination that the sensor is most likely the cause we requested and obtained approval to purchase a spare sensor, sensor brushes and quartz tube O-rings.



We measured the biosolids depth on the active (south) biosolids basin and recorded an average depth of 4 ft. The north basin is empty and will be utilized once the south basin reaches full capacity, equaling a depth of 9 ft. The facilities total storage capacity is 0.67 million gallons. Prior to reaching this capacity the biosolids are sampled from each basin and analyzed to verify they meet EGLE's requirements for land application. At the current fill rate, the facility will require a biosolids haul within the next 2-3 years.

On Saturday July 19<sup>th</sup>, the plant experienced a short power outage. We reset all affected equipment and monitored the plant until line power was restored.

On Wednesday July 22<sup>nd</sup>, we received a low dissolved oxygen (D.O.) alarm for aeration basin #1. The facility was monitored remotely with dissolved oxygen levels recovering shortly after receiving the alarm. The facility received back to back hauled truck waste loads during peak flows rates resulting in a temporary dip in dissolved oxygen levels. We also noticed the

dissolved oxygen level on basin 1 is trending slightly lower than basin 2. After confirming the dissolved oxygen probes were accurate, we decided to adjust the inlet valves to the basins to ensure influent flow was distributed equally to each basin. We'll continue to monitor this change for its effectiveness.

Classifier gear box oil changes were completed for each clarifier.

Cracks in the ferric chloride feed pump cords near the plugs were identified and the cords were repaired.

We received and have reviewed the draft National Pollution Discharge Elimination System (NPDES) permit from EGLE. The NPDES permit sets forth effluent quality limits, monitoring requirements and other conditions that must be met to ensure compliance. EGLE will place the draft permit on public notice, before the permit is officially issued.

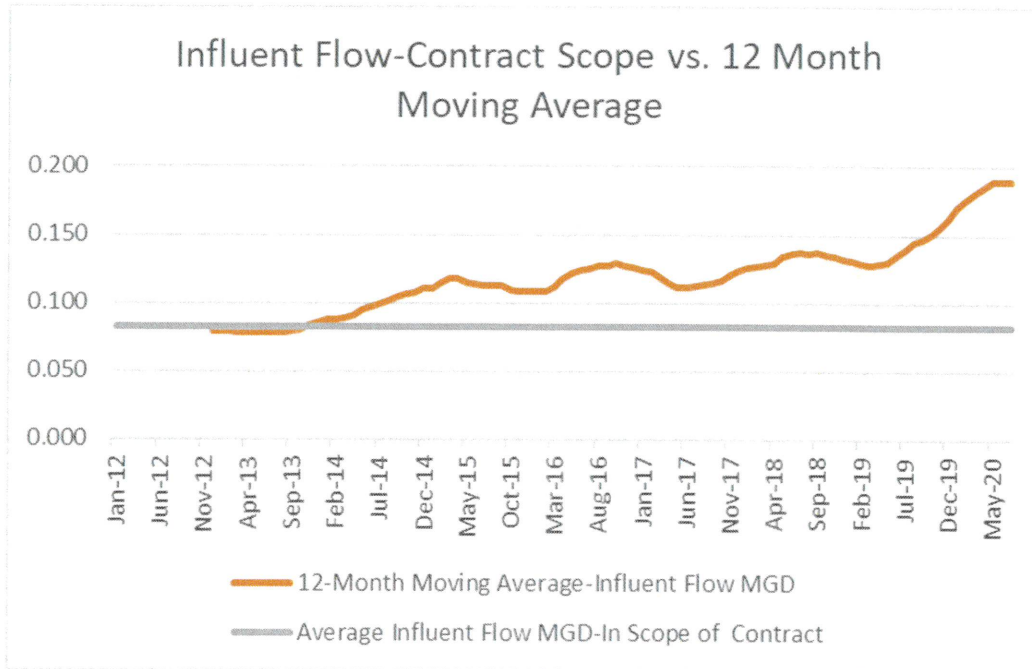
**On the Horizon:**

- Investigate the source of the intermittent power disruptions that result in UV system bank failure alarms. (To date, we had the line power monitored by the power company and they were unable to identify any issues with the source power coming into the facility)
- Installation of the new lower bearing unit for the influent building's fine screen. (2020)
- Ferric Chloride pump programming upgrades. (Windemuller to complete week of January 27th).
- Investigate the SCADA hauled truck waste flow logs. (Windemuller).
- Obtain cost for HTW unloading upgrade.

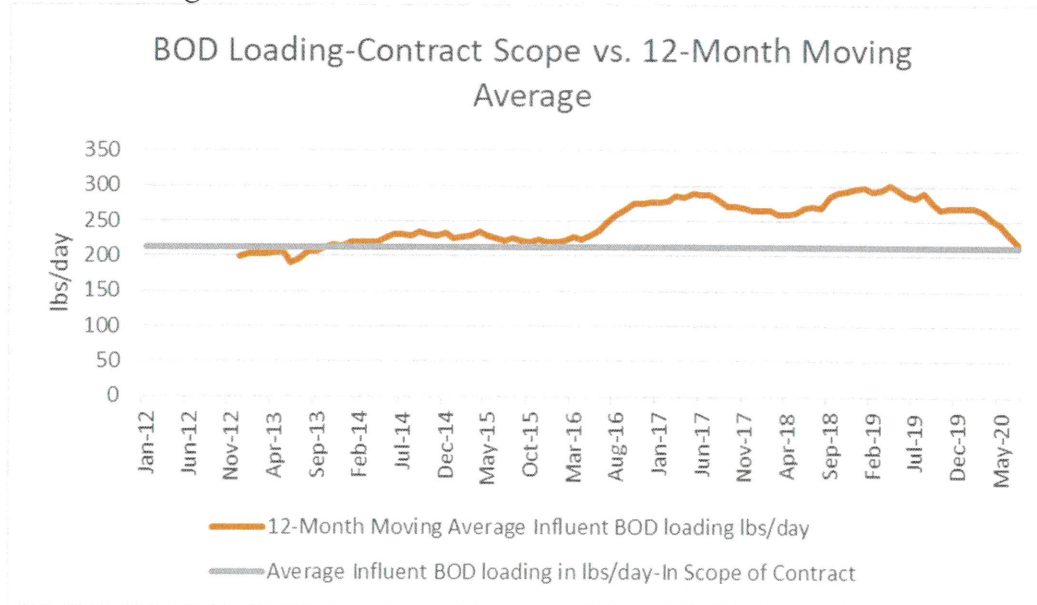
## Plant Influent and Effluent Trends

The following graphs illustrate the facility's influent characteristics encompassed in our scope per Amendment 3 to our 2010 agreement compared to actual influent characteristics. Influent flow characteristics are based on a 12-month moving average.

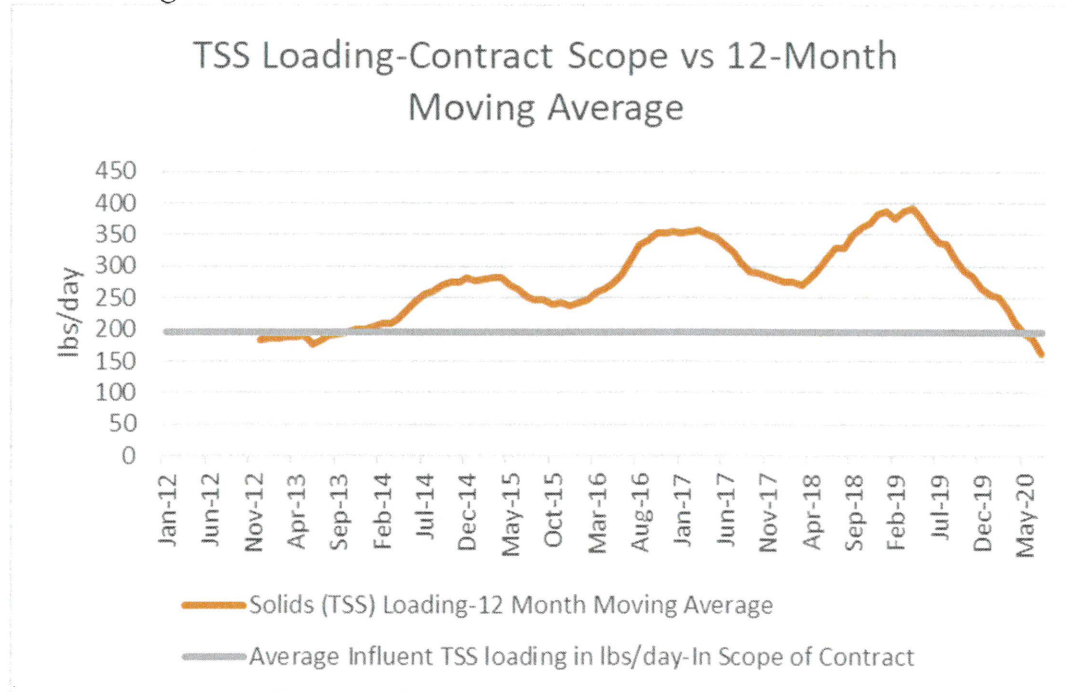
### Influent Flow



### BOD Loading

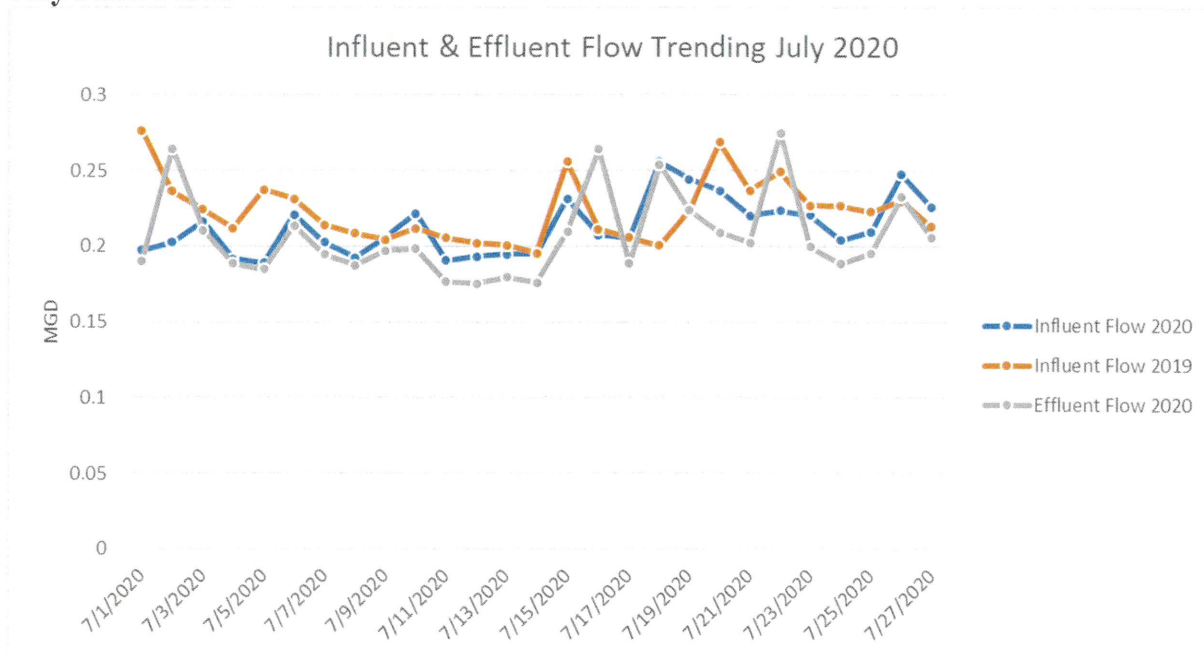


## TSS loading

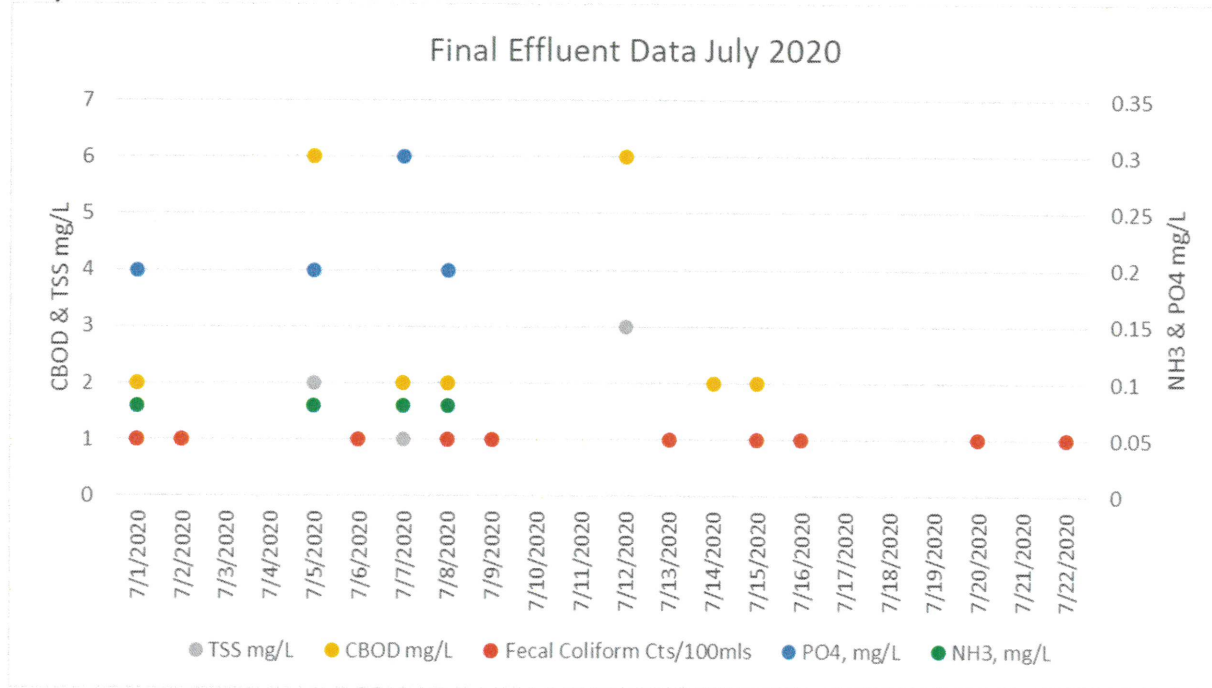


The plant flows graph illustrates the facilities current influent and effluent flow trend for the reporting month and the influent flow for the same month of the previous year. The effluent data graph illustrates the current reporting months effluent permit parameter concentrations, the table below the graph provides the permit limit concentrations for each parameter.

## July Plant Flows



## July Effluent Data



## NPDES permit limits

Parameters	Monthly average	7-day average
Total Suspended Solids	30 mg/L	45 mg/L
Fecal Coliform	200 counts/100 mls	400 counts/100 mls
Carbonaceous Biochemical Oxygen Demand	25 mg/L	40 mg/L
Total Phosphorus, PO4	0.5 mg/L	No Limit
Ammonia, NH3	Report only, no limit	Report only, no limit

## Financial Report

Current Month	Jul-20	Comments
Current Month Repairs	\$ -	
Current Month Repair Labor Hrs	\$ 11.50	Blower replacement
Current Month Chemicals	\$ -	
Current Month Utilities	\$ 2,679.55	
YTD Repairs	\$ 9,563.38	
Repair Budget Remaining (\$6,000 Limit)	\$ (3,563.38)	Non-Labor repairs have exceeded annual maximum
YTD Repair Labor Hrs	\$ -	
Repair Labor Hrs Remaining (Limit 104 hrs)	\$ 104.00	
YTD Chemicals	\$ 4,044.62	
Chemical Budget Remaining (\$4,500 Limit)	\$ 455.38	
YTD Utilities	\$ 16,356.88	
Utility Budget Remaining (\$33,000 Limit)	\$ 16,643.12	



Mark Huggard, Jacobs  
[mark.huggard@jacobs.com](mailto:mark.huggard@jacobs.com)  
231-922-4922

Elizabeth Hart, Jacobs  
[Elizabeth.hart@jacobs.com](mailto:Elizabeth.hart@jacobs.com)  
231-922-4922