



UTILITY/MARINA COMMITTEE  
420 N Front St.  
Suttons Bay, MI 49682  
Monday June 6, 2022 8:10 am


There will also be a Zoom link (which can be found on our website at [www.suttonsbayvillage.org](http://www.suttonsbayvillage.org)) for those members of the public wishing to participate via remote attendance.

### AGENDA

#### Call to Order

1. Reports (staff)
  - a. DPW Director Report
  - b. Marina Report
  - c. WWTP Report
2. Public Comments

Please limit remarks to no more than three (3) minutes or less.
3. Committee Business
  - a. Consumers Street Light-Discussion
4. Status Update – Other Committees
  - a. VSB Report 2022-31 F/V Contract-3 Way Stop Sign
  - b. VSB Report 2022-33 Mowing Contract
  - c. VSB Report 2022-34 Waterwheel Park
  - d. VSB Report 2022-27 Blight Ordinance
  - e. VSB Report 2022-32 Short Term Rental Capping
5. Public Comments/Written Communication
6. Committee Member Comments
7. Announcements
8. Adjournment

		<b>DEPARTMENT OF PUBLIC WORKS</b> <b>REPORT DPW -2022- 04</b>	
Prepared:	June 3, 2022	Pages:	1 of 4
Meeting:	General Services - Utility/Marina Committees	Attachments:	<input type="checkbox"/>
Subject:	June 2022 Update; DPW		

**GENERAL SERVICE HIGHLIGHTS**

M22 paving is completed, striping according to MDOT will be finished by June 10<sup>th</sup>. Our staff spent a lot of time working with contractors to make sure manholes and water valves we not paved over.

Alleyways have had its initial dust control application.

Beaches are scheduled to be cleaned and graded on a weekly basis. North Park bathroom doors have been repainted. Sutton Park pavilion is now painted.

Boat launch was damaged by a boat backing into one of the posts breaking a welded bracket.

DPW has transitioned to biobag and brush pickup on Monday's.

Parks amenities have been completed as of this week.

**UTILITY HIGHLIGHTS**

Sewer cleaning, pump station, catch basin and manhole inspections village wide to take place this June. Notices will be issued through robocalls and village website.

The two buried manholes that were discovered under asphalt recently have had adjustment rings installed and brought to grade.

MISSDIG request for utility marking are starting to increase, village utilities are marked and reported in the new online MISSDIG reporting system before excavation work begins.

**REGULATORY HIGHLIGHTS**

PFAS sampling of the collections system has been submitted before the April 30<sup>th</sup> deadline. EGLE will schedule a meeting to discuss our findings after our submitted data is reviewed.

***Update: after the meeting it was decided by EGLE that additional sampling is required to narrow down potential source areas, due by 9/30/22***

Annual sampling of the water system has started this week which also includes PFA's testing as required. The village water system has been tested before and no detection of those contaminated have ever been found concerning PFA's.

***Update: All sample results came back as Non-Detect for the drinking water system.***

## Suttons Bay Marina

May 2022

The month of May was a busy time spent repairing docks from ice damage and getting the grounds and facilities ready for a May 15<sup>th</sup> opening.

The Coal Dock area experienced a significant amount of ice damage this season. A handful of docks had to have the floats or compensators repaired. One section had to be removed by crane and repaired on land by a welder. When doing repairs on the dock out of water, I noticed about 2-3 inches of zebra mussel growth on the underside of the dock. This growth is not good for the dock sections. I have contacted a diver from the East Jordan area to get a quote on cleaning off the bottoms of the docks.

Many sleeves and throughout the marina had to be retrieved and repaired as well. The Coal Dock and Main Marina are fully functional and have been since May 15<sup>th</sup>.

Navigational buoys and harbor lights have been installed for the season. We have the launch ramp spar buoys still to do. This is a bigger project than most seasons as many of the anchor systems have shifted from ice. We are hoping to get to this project by the end of the week.

R.W Mercer was here to do the calibrations for the fuel system. All calibrations were fine the only issue we experienced was the solenoid valve was stuck and had to be disassembled and freed up.

New bathroom doors and jambs have been installed at the bathhouse. Updated bathroom fixtures have been added also.

We have been doing some power washing on the docks but just as needed. Last season we were able to power wash the majority of the main harbor.

Elmer's has gotten in and placed rip rap at the end of the North Pier. Now the entire North Pier is protected by rip rap. Concrete slabs that will house picnic table and benches are being installed this week. Staff and myself have been busy removing all the old sod from the pier and preparing for seeding the native wild flower/ grass mixes.

This season we have hired 4 new staff members. I have been working with them over the last couple weeks on training. I am very excited for them to be part of the team they will be a good fit.

Memorial Day weekend wasn't entirely to busy. We seemed to have fewer gas and transient sales as years past.

Eddie Aylsworth

Suttons Bay Marina, Harbormaster

**To:** Rob Larrea  
Dave Miller

**From:** Mark Huggard, JACOBS

**Date:** June 1, 2022

**Copy:** Kevin Dahl, JACOBS  
Nick Lenzi, JACOBS  
Andrew Waldron, JACOBS  
Justin Straub, JACOBS

This report describes our activities during the month of May 2022. 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 May indicate the facility is in compliance with its National Pollution Discharge Elimination System (NPDES) permit.

Jacobs completed and submitted April'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:**

May Flow Report

Average Influent Flow 2022	0.134	Million Gallons per day
Average Influent Flow 2021	0.121	Million Gallons per day
Total monthly hauled truck waste 2022	181,962	Gallons
Total monthly hauled truck waste 2021	21,974	Gallons

May 5<sup>th</sup> and 16<sup>th</sup>, we responded to an aeration basin low dissolved oxygen (DO) alarm. Upon arrival the alarm had cleared and DO levels had returned to near normal. The low DO level was a result of the facility receiving multiple consecutive loads of hauled holding tank waste. The increased organic loading created a temporary oxygen demand within the aeration basin that exceeded the supply. The biology quickly recovered, and we remained onsite until full DO recovery was observed. We continue to monitor the DO daily and make treatment adjustments as needed.

May 18<sup>th</sup>, we replaced a failed ferric chloride feed pump motor on one of the two feed pumps. Based on the following factors we purchased a spare motor for inventory to reduce equipment down time and compliance risk.

- Low cost of motor <\$200.00
- Current state of equipment supplies availability and lead times
- Age of existing motor on the redundant pump is the same as the failed (approximately 16 yrs. old)
- Low probability, but potential risk of permit noncompliance if both pumps were to be out of service at the same time

May 21<sup>st</sup>, we responded to an abbreviated plant power loss. A full plant walk through was conducted to restart faulted equipment and to ensure all equipment and processes were functioning as normal.

We completed our scheduled annual preventive maintenance work on the Rotomat influent fine screen, plant equipment motors, influent and effluent parshall flume flow meters. Associated tasks included but weren't limited to the following:

- Fine screen gear box oil change and wash water solenoid inspection/cleaning
- Plant equipment ultrasonic motor greasing
- Influent and effluent flow metering accuracy verifications

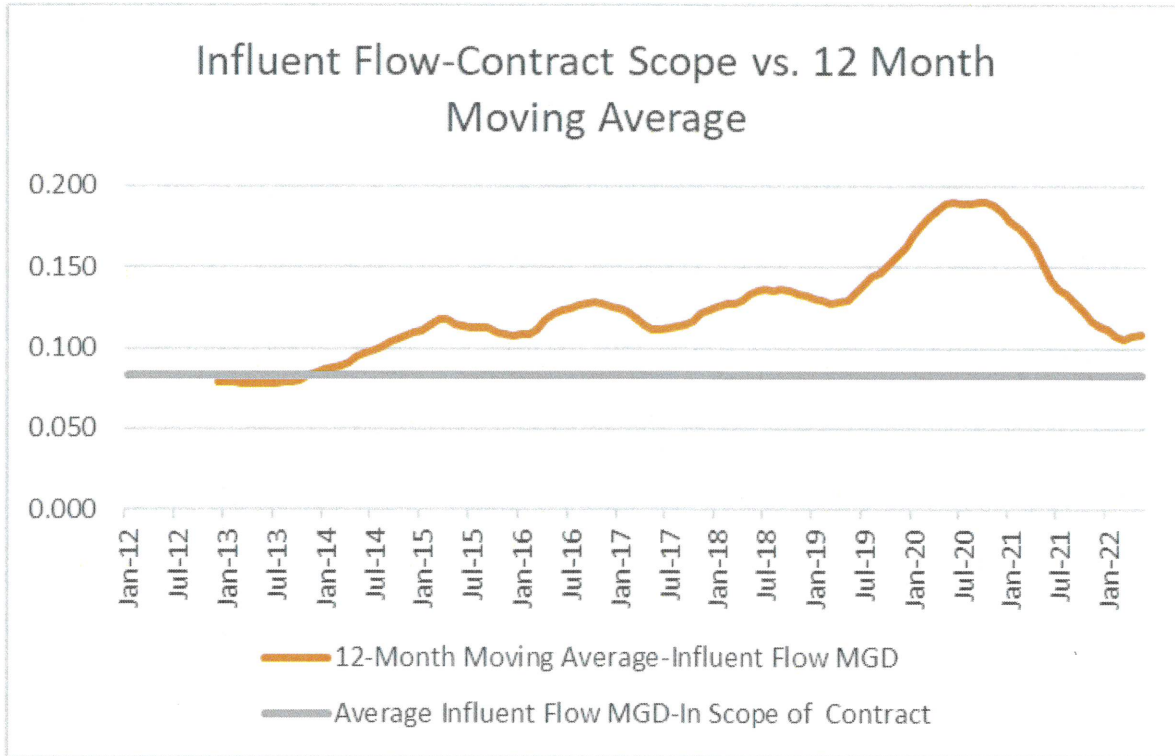
**On the Horizon:**

- Clarifier preventive maintenance inspections (Summer 2022)
- Repair leaking yard valve by clarifiers (2022)
- Repair of UV Bank B wiper system (2022)
- Upgrade of headworks fine screen PLC (2022)
- UV PLC uninterrupted power supply installation (2022)

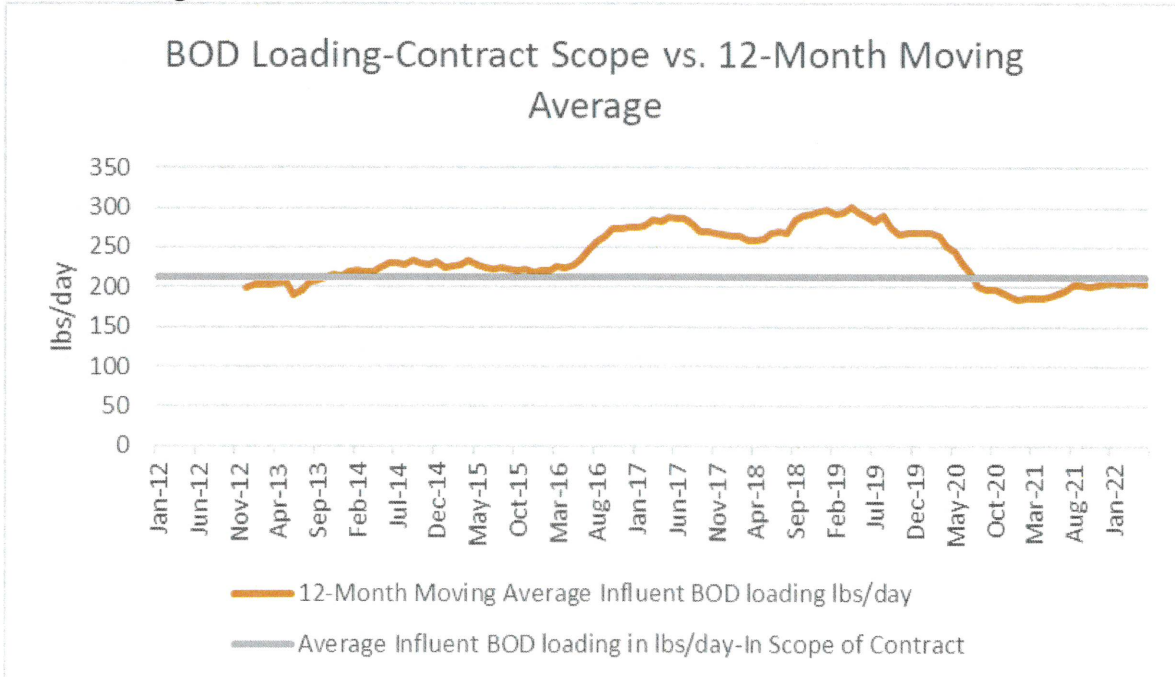
**Plant Influent and Effluent Trends:**

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.

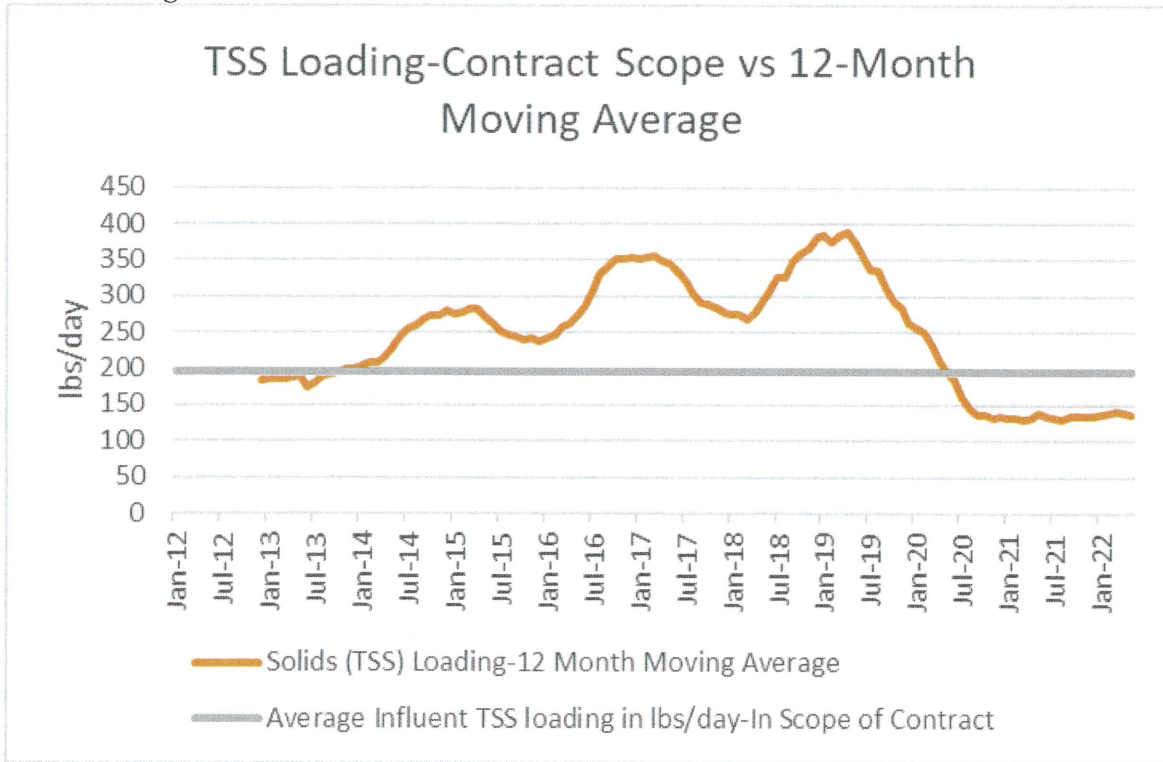
**Influent Flow**



**BOD Loading**

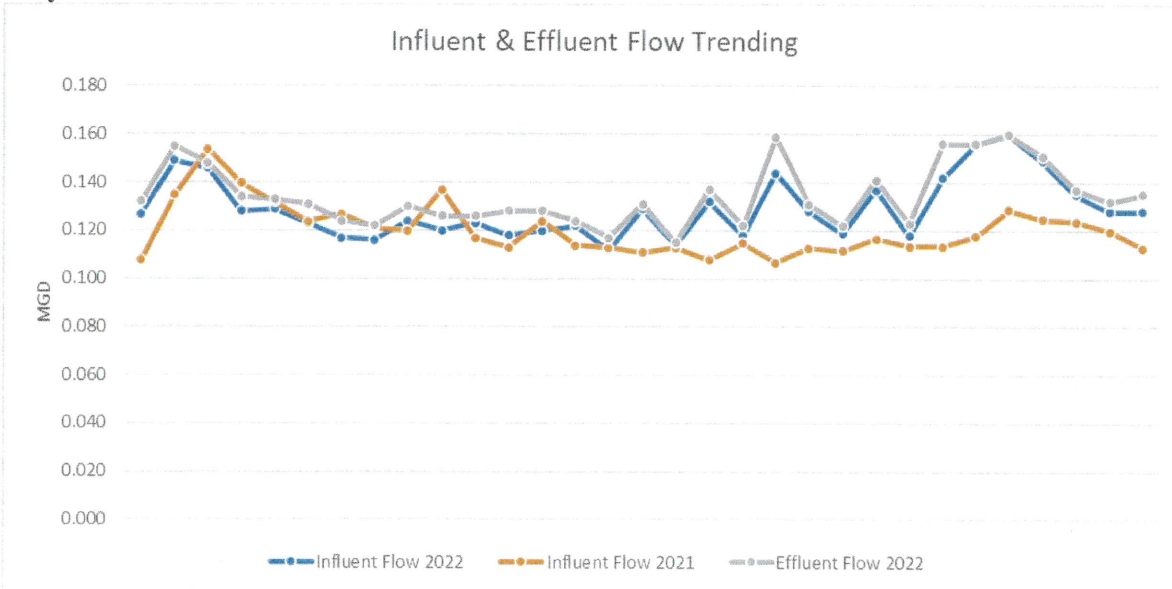


**TSS Loading**



The following plant flow 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 NPDES permit limit table details the monthly average permit limits for each parameter, the graphs below this table illustrate the available parameter concentrations and % removals for the reported month.

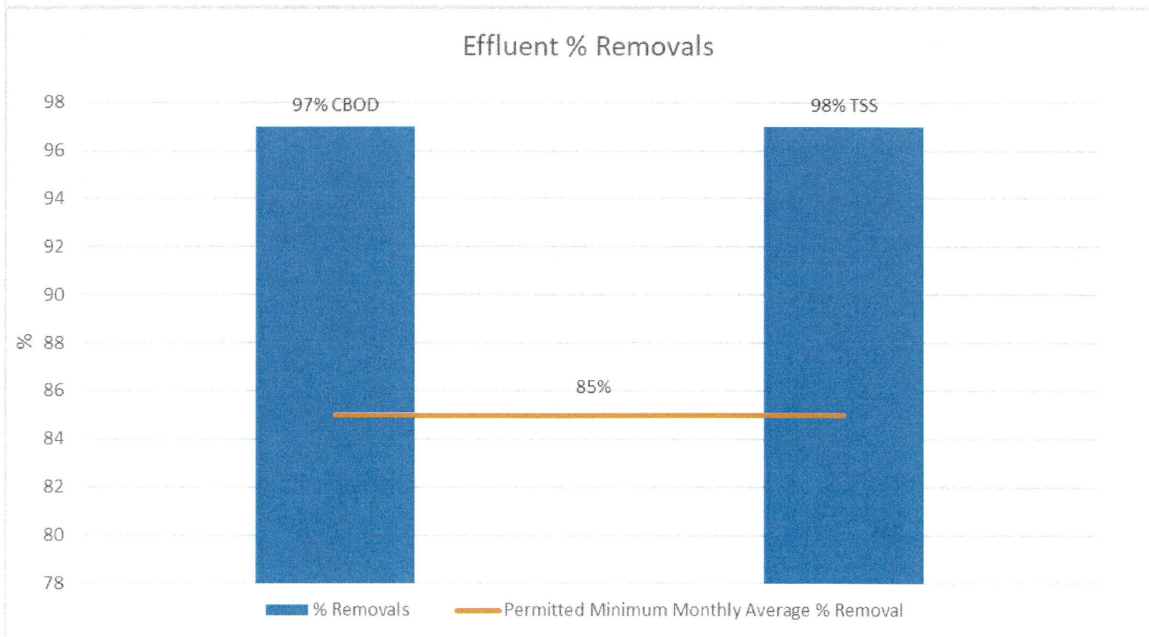
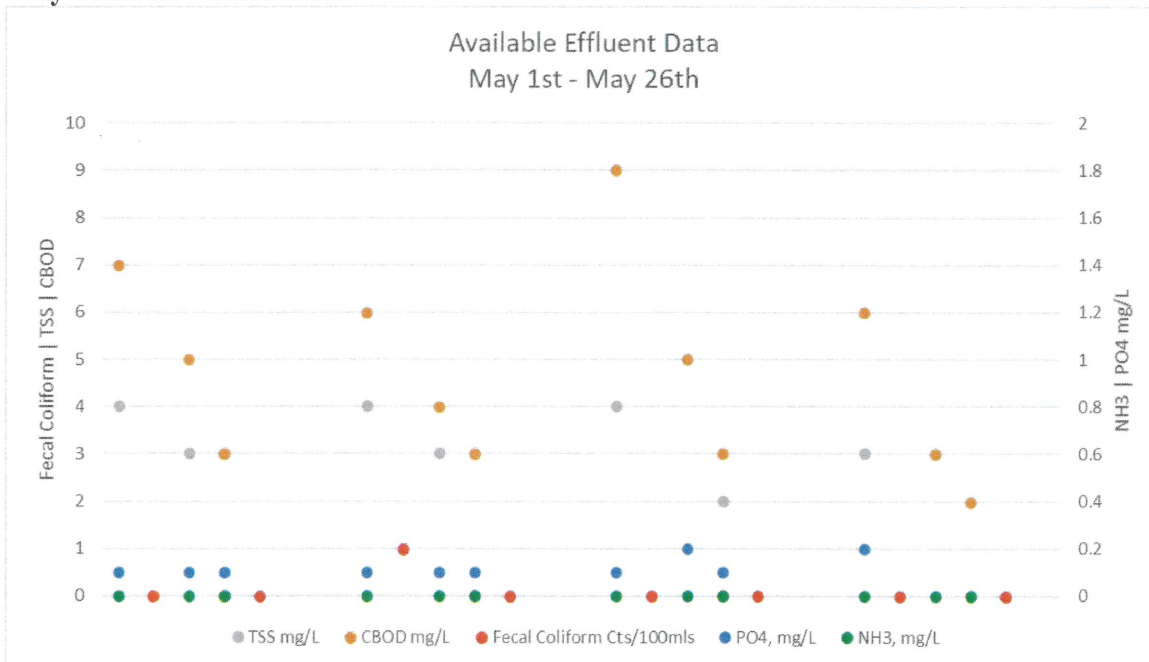
**May Plant Flows**



**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
CBOD % Minimum Removal	85%	NA
TSS % Minimum Removal	85%	NA

**May Effluent Permit Data**





**Financial Report:**

Current Month	May-22	Comments
Current Month Repairs	\$ 270.37	\$75.13 - Ferric dampner valve repair \$195.19 - Ferric Chloride feed pump motor
Current Month Repair Labor Hrs	\$ 1.00	
Current Month Chemicals	\$ -	
Current Month Electricity	\$ 1,750.00	
Current Month Natural Gas	\$ -	
<b>YTD Repairs</b>		
YTD Repairs	\$ 939.99	
Repair Budget Remaining (\$6,000 Limit)	\$ 5,060.01	
<b>YTD Repair Labor Hrs</b>		
YTD Repair Labor Hrs	19.00	
Repair Labor Hrs Remaining (Limit 104 hrs)	\$ 85.00	
<b>YTD Chemicals</b>		
YTD Chemicals	\$ 2,291.67	
Chemical Budget Remaining (\$5,500 Limit)	\$ 3,208.33	
<b>YTD Electricity</b>		
YTD Electricity	\$ 8,750.00	
Utility Budget Remaining (\$21,000 Limit)	\$ 12,250.00	
<b>YTD Natural Gas</b>		
YTD Natural Gas	\$ 5,429.14	
Utility Budget Remaining (\$12,000 Limit)	\$ 6,570.86	

Mark Huggard | Jacobs | Project Manager  
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 606 Hannah Ave. | Traverse City, MI 49686 | United States

To: VILLAGE OF SUTTONS BAY

5-26-22

PLEASE CONSIDER  
REMOVING THE STREET  
LIGHT ADJACENT TO  
212<sup>N</sup> LINCOLN ST.

THERE IS A LIGHT AT  
THE CORNER OF LINCOLN  
: JEFFERSON AND ALSO  
LINCOLN : MADISON.

THANK YOU-

R.D. ZIM : P. [Signature]  
225 N. LINCOLN