

# **CITY OF OGDENSBURG, NEW YORK**

CITY HALL • 330 FORD STREET • OGDENSBURG, NY 13669 • (315) 393-6100



Office of the City Manager

MEMO TO: City Council  
FROM: Sarah Purdy, City Manager *SP*  
DATE: March 21, 2019  
SUBJECT: Update 19/13

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**WATER POLLUTION CONTROL FACILITIES & WATER TREATMENT PLANT MANAGEMENT SERVICES**– Please find attached the February 2019 monthly status report from Bob Henninger, DANC, Water Quality Supervisor. \*Please note that the Annual Mercury Minimization Report referred to in the February Report has not been included due to its length and technical nature but is available for review upon request.



**Water and Wastewater Facilities**

Warneck Pump Station  
23557 NYS Route 37  
Watertown, New York 13601

Telephone (315) 661-3210  
Telefax (315) 661-3211  
Emergency Telephone (315) 786-4000

**Open Access Telecom Network**

Dulles State Office Building  
317 Washington Street, Suite 406  
Watertown, New York 13601

Telephone (315) 661-3200  
Telefax (315) 661-3201  
Emergency Telephone (866) 669-3262

**Solid Waste Management Facility**

23400 NYS Route 177  
Rodman, New York 13682

Telephone (315) 661-3230  
Telefax (315) 661-3231

March 18, 2019

RE: City of Ogdensburg  
Water Pollution Control Facilities & Water Treatment Plant Management Services  
February 2019 Monthly Status Report  
SPDES Permit No. NY-0029831/PWS NY-4404394

Dear Ms. Purdy:

Services performed for the month are detailed below for your review. I hope that you find the information useful and welcome suggestions to make this report more useful for the City going forward.

1) **MANAGEMENT SERVICES:**

a) General

- To date 94 PM plans have been developed for the WPCF. A total of 60 WPCF WO's were completed this period. One new PM was created for the WPCF during this period for annual posting of the NYSDOL 900.1 Summary Log of Work Related Injuries and Illnesses.
- Authority personnel completed and submitted the 2018 NYSDEC Annual Mercury Minimization Report. This report tracks mercury levels throughout the collection system and sets goals to reduce these levels in the plant effluent. This report is included as an attachment to this report.
- The Authority and City personnel have conducted job interviews to fill current WPCF vacancies. New employee James Ralston was offered and has accepted the position of Water/Wastewater Plant Operator Trainee and began work on February 25<sup>th</sup>.
- The Authority assisted in the procurement process for a 3-year service contract to service and maintain the ten standby generators in service throughout the City.
- The Authority requested and received quotes from contractors to conduct annual service/maintenance of the HVAC systems at the Water/Wastewater Plants. A one-year contract was awarded to Hyde Stone for 2019.

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- Evaluated WPCF permit violations and current SPDES permit limits. Worked with EDR to develop recommended increased SPDES permit limits. Recommended that the City request new interim limits be incorporated into the NYSDEC Order of Consent. Attended meeting with NYSDEC to discuss the capital project schedule and pending request for amended Consent Order.
- b) Water Pollution Control Facility (WPCF)
- Continued to work with the City and EDR on the WPCF Capital Improvement Project. Assisted the City this period with finalizing documentation necessary for USDA Rural Development and to assist with the new short term financial closing for the NYS Environmental Facilities 0% loan. The City has expended \$2,247,124.36 in funds to date.
- c) Water Treatment Plant (WTP)
- To date 37 PM plans have been developed for the WTP. A total of 9 WO's were completed this period. One new PM was created for the WTP during this period for Weekly Sump Pump Inspections.

## 2) **WASTEWATER FLOWS / SIU COMPLIANCE:**

During this reporting period, the WPCF had two SPDES permit violations and 10 CSO events. All of the noted violations were due to high influent flows to the WPCF resulting in activation of CSO 001. The capital improvement project will address each this issues by renovating the entire secondary clarifier systems, which will increase the secondary solids settling capacity.

Details of the violations follow:

- On February 5<sup>th</sup> the daily Settable Solids effluent permit limit of 0.3 mg/l was exceeded by 3.2 mg/l.
- The monthly TSS removal of 78% did not meet the required 85%.

There are 16 CSO points in the collection system inspected monthly and 2 CSO's located at the WPCF that are metered and monitored daily. For the month of February 5 CSO's in the collection system and 5 CSO's at the plant exhibited noticeable overflows.

On February 5, 6, 8, 15, 24 and 25 CSO overflow notifications were submitted to the New York Alert (NYALERT) warning system. These alerts are designed to notify and protect users down stream of these partially treated with disinfection releases of municipal wastewater into the St. Lawrence River.

### **Sewer Industrial User (SIU) Compliance**

Permitted SIUs discharging to the Ogdensburg WPCF are:

1. Ansen Corporation, Current Permit Expiration December 31, 2019.
2. St. Lawrence County Solid Waste Department (SLCSWD), Current Permit Expiration December 31, 2019.
  - SLCSWD submitted their semiannual test results with no exceedances noted. However, SLCSWD failed to test for Biochemical Oxygen Demand (BOD), Temperature, Ammonia and Nitrate as required by permit. SLCSWD has been directed to re-sample the landfill's leachate for these required parameters with results expected by April 15, 2019.
  - Four thousand gallons of leachate from SLCSWD was received at the WPCF during the month of February.

### 3) **PERSONNEL**

- Total City WPCF personnel for the month of February included 4 Certified Plant Operators and 1 new trainee. Two plant 1A operators have reapplied to take the 2A exam in April 2019.
- During this reporting period 4 WPCF and 3 WTP employees completed the Personnel Protective Equipment (PPE) and Hazardous Communication (HazCom) safety training held at the DANC Materials Management Facility in Rodman and the Ogdensburg Dobisky Center. These trainings focused on safety for each employee performing operations and equipment maintenance within the work place. This training was conducted at no cost to the City.
- 5 WPCF and 4 WTP personnel are scheduled to complete the NYS mandated annual Sexual Harassment and Work Place Violence training in March provided by the City.
- A total of 43 hours of OT occurred for WPCF staff for the month. These hours include Required and Contractual (RC) overtime.

WPCF overtime details follow:

- Quarterly Whole Effluent Toxicity sampling
- High wastewater levels at South Water Street lift station
- State Hospital lift station failure
- Early morning snow removal at the WPCF
- Quarterly Phenol sampling

### 4) **OPERATIONS**

#### a) **SLUDGE PROCESSING:**

A total of 24.4 wet tons of sludge was hauled to Casella Organics Facility in Chateaugay with an average monthly tested solids concentration of 27%. A total of 1.7 tons of grit and rags were hauled to the DANC Materials Management Facility.

b) **MAINTENANCE:**

Maintenance activities completed this period are presented below. Unless otherwise noted, the maintenance tasks were completed by WPCF staff.

Completed Work Orders:

- Plant personnel made repairs to the south final clarifier flight drive system and placed the unit back in service without interruption to the secondary clarification process.
- Plant and Slack Chemical personnel completed repairs to the sludge press polymer chemical feed system. This combined effort resulted in minimal downtime to the sludge dewatering process.
- Plant operators corrected scum collection and removal issues in the primary settling tanks caused by freezing conditions. Daily thawing of the scum boxes has proven to improve any scum removal problems during extreme winter weather conditions.
- Plant personnel completed repairs to the plant breakroom heating system and have placed the equipment back in service.
- Plant staff have completed the repairs to 3 leaking valves which control the hydraulic functions of the Perrin Sludge Press.
- Material Handling Technologies completed the 2019 annual Crane/Hoist safety inspection with no major equipment discrepancies noted.
- The fourth and final round of the Whole Effluent Toxicity (WET) testing of the WPCF effluent results were well below the DEC established action levels. This testing will not be required to be conducted again until 2023.
- Plant personnel completed repairs to the # 1 primary tank skimmer arm guide rail system. Complete replacement of this equipment is included in the Capital Improvement Upgrade Project.
- Plant effluent sampler equipment has been upgraded to perform required 8 hour specialty sampling to meet NYSDEC Phenols quarterly testing requirements. This

new capability will eliminate the need for plant operators to sample during off hours and save unnecessary overtime.

- Weekly and monthly pump/lift station rounds.
- Monthly CSO inspections.
- Weekly maintenance of WPCF.
- Bi-monthly chlorine contact chamber cleanings.
- Weekly plant eyewash checks.
- Monthly collection system degreaser added to 7 separate areas within the collection system.
- Performed weekly, monthly, and quarterly required sampling in accordance with SPDES permit.
- Monthly lift station high-level alarm testing.
- Monthly fire extinguisher inspections.
- Monthly chlorine gas monitoring system inspection and test.
- Monthly lift station generator exercising.
- Monthly DMR completed.

#### Open Work Orders

- The City has received a new Precision Weather Station to track rainfall totals and determine CSO overflow volumes as required by the Public Notification Plan. Installation is expected to be completed by 3/25.

#### Open Work Orders Awaiting Capital Project

- There have been no new issues identified this period related to the capital project.

#### c) **OPERATIONS:**


During the month of February Authority personnel operated the secondary treatment process in the conventional plug flow or contact stabilization mode depending on

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weather conditions and influent flow levels. Authority and WPCF personnel closely monitor this process to ensure compliance with the City's permit limits.

Should you have any questions regarding this report, please don't hesitate to contact me at (315) 393-2810.

Sincerely,

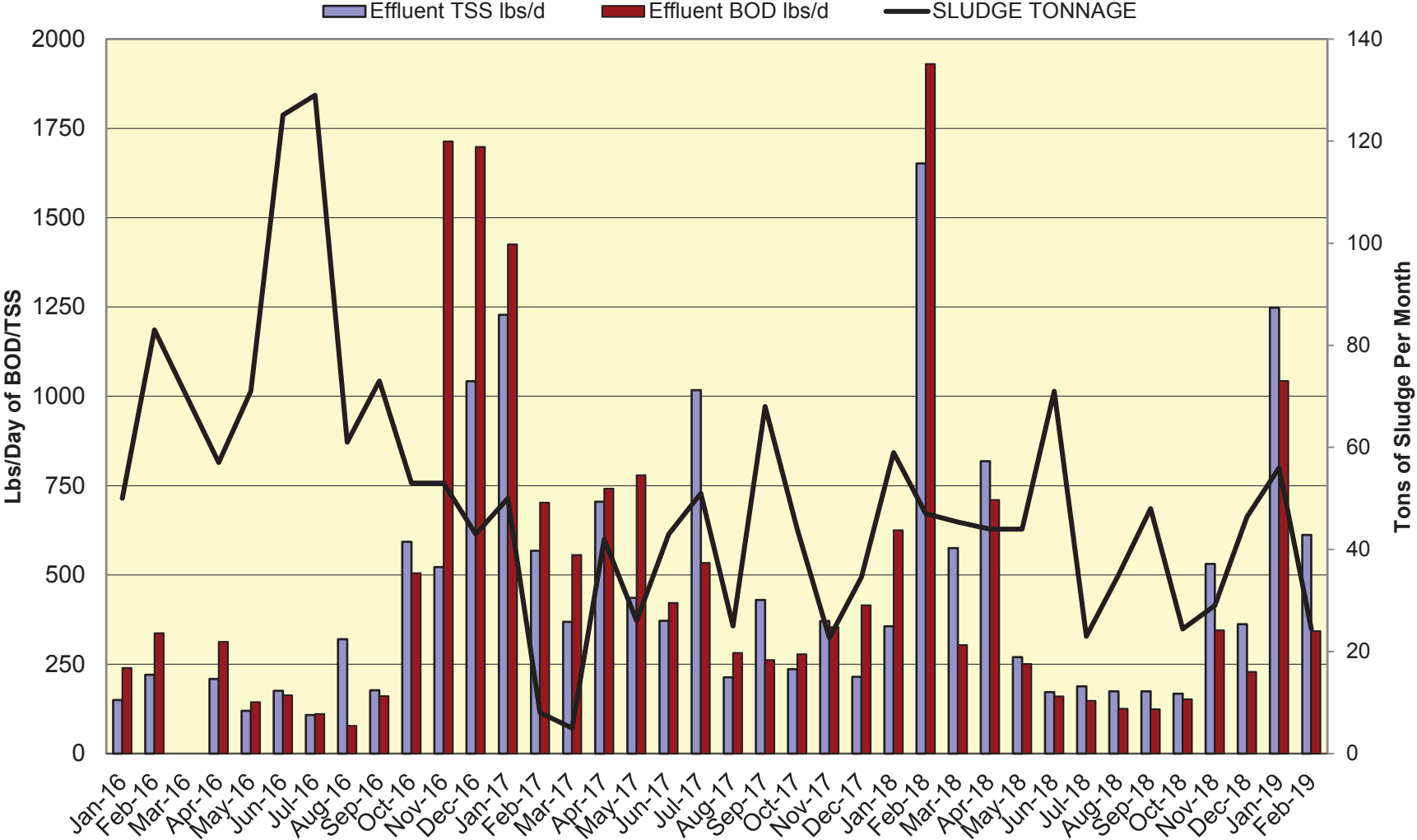
**Robert  
Henninger**  Digitally signed by Robert  
Henninger  
Date: 2019.03.18  
12:13:45 -04'00'

Robert M. Henninger,  
Water Quality Supervisor

Attachment: 2019 Annual Mercury Minimization Report

cc: Jeff Overstrom, EIT, NYSDEC  
Scott Thornhill, Ogdensburg Director of Public Works  
Brian Nutting, DANC WQ Supervisor  
Christian Fout, DANC WQ Supervisor

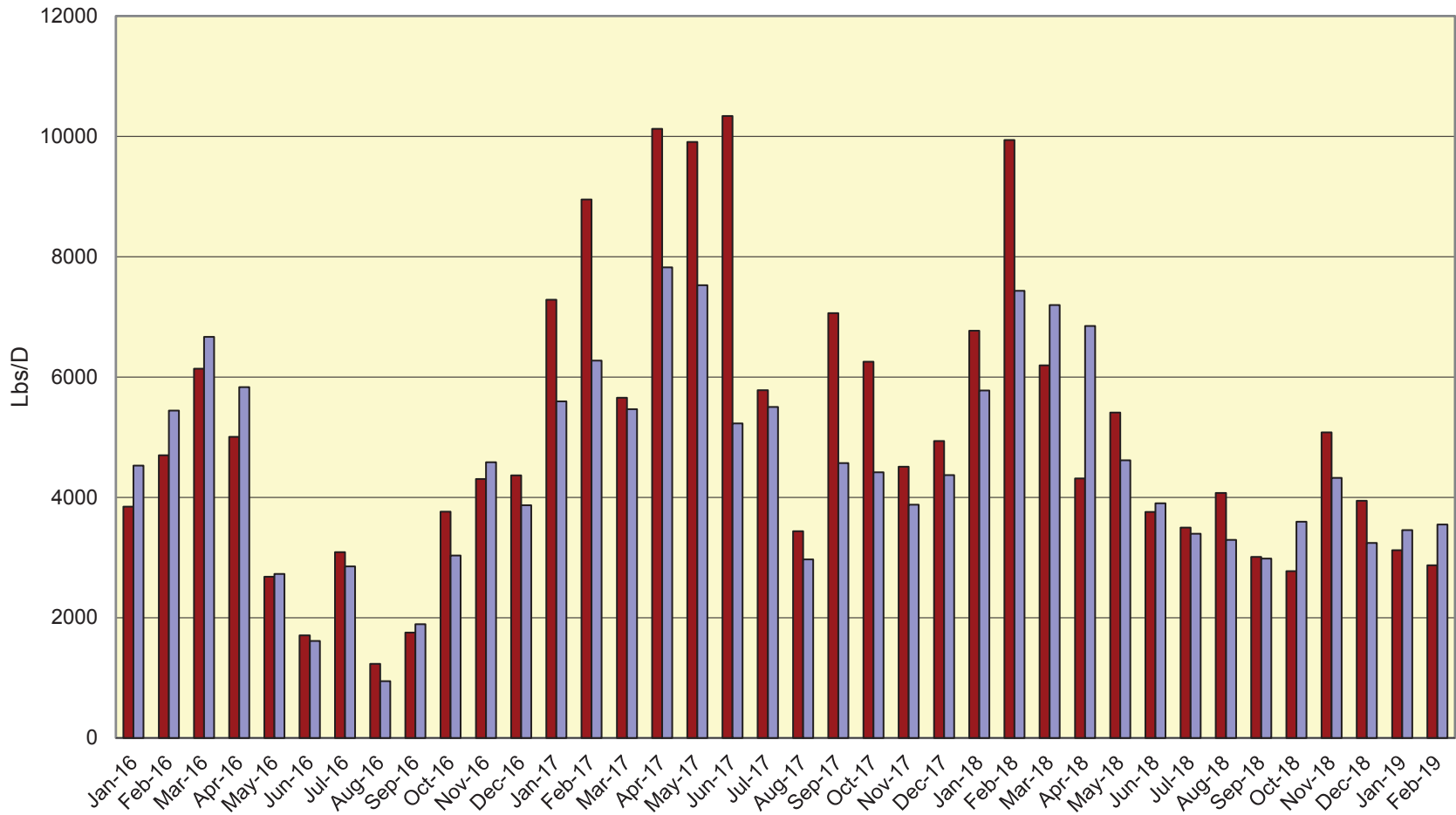
### City of Ogdensburg WPCF Effluent BOD/TSS & Sludge Processed





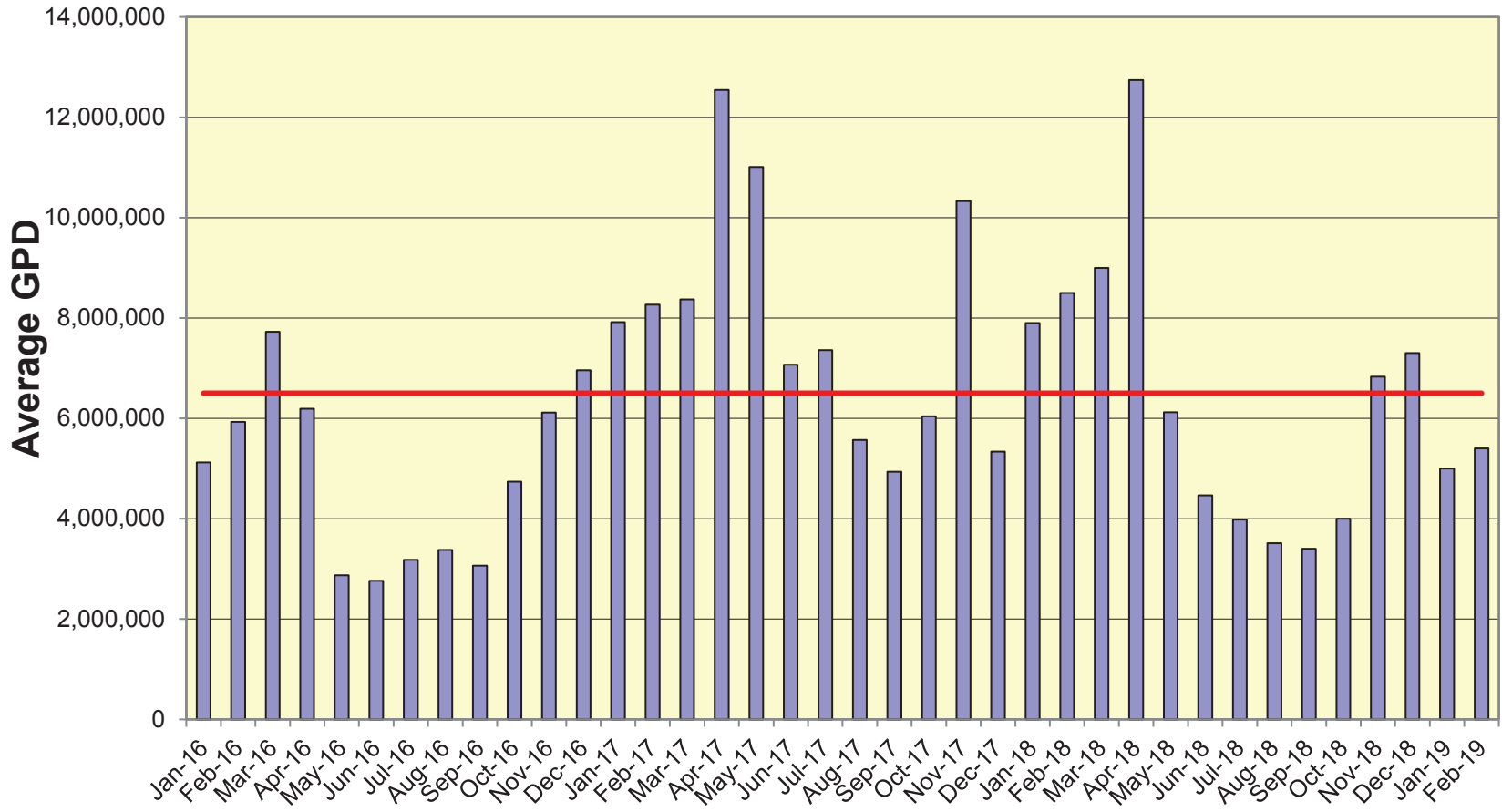
**City of Ogdensburg  
WATER POLLUTION CONTROL FACILITY  
INFLUENT 30-DAY AVERAGE LBS/DAY OF TOTAL SUSPENDED SOLIDS & BOD**

■ Influent TSS Lbs/d    ■ InfluentBOD lbs/d



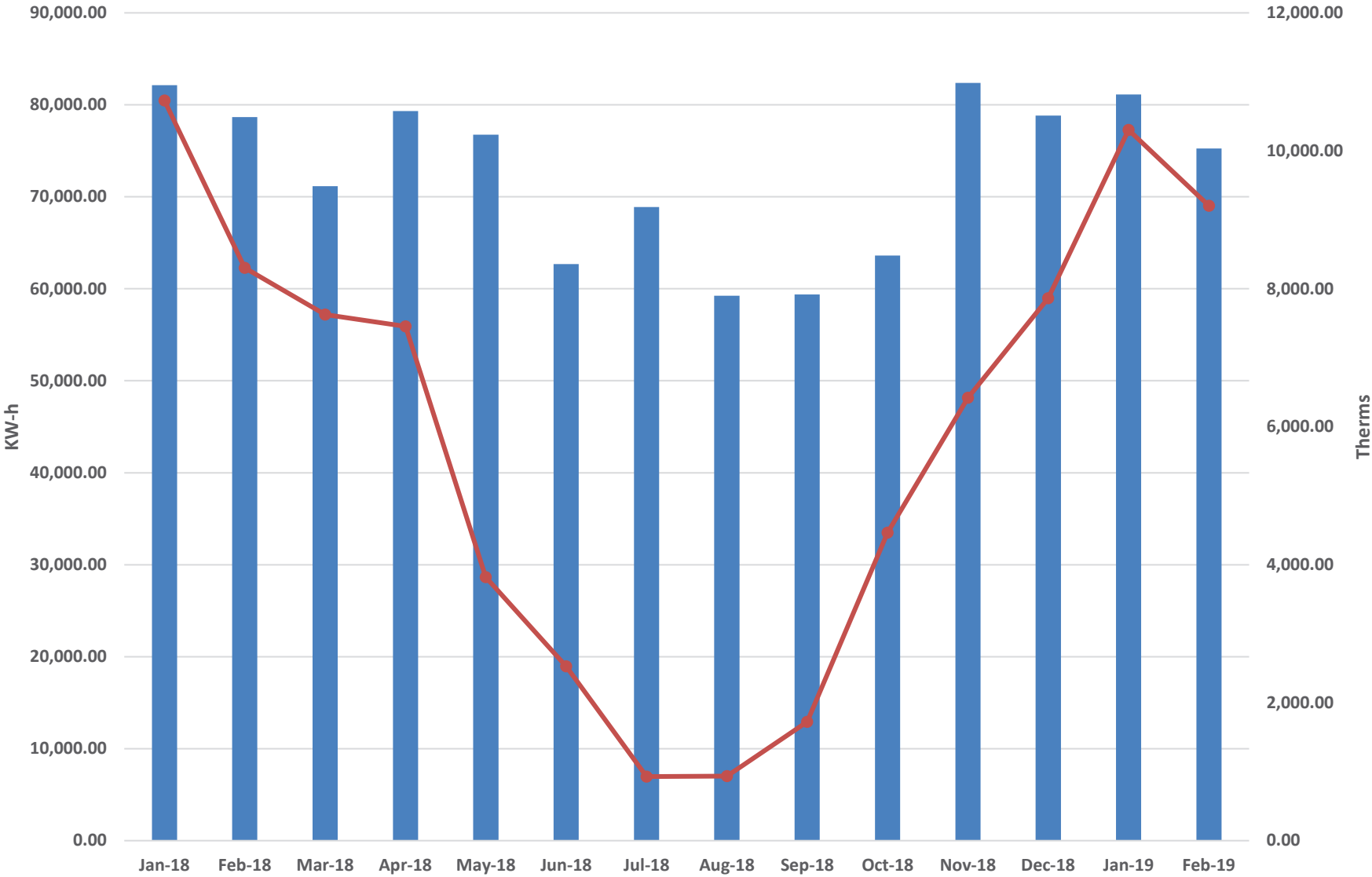
**City of Ogdensburg  
WATER POLLUTION CONTROL FACILITY  
AVERAGE DAILY FLOWS IN GALLONS PER DAY**

EFFLUENT GPD      WPCF Design Flow (6.5 MGD)



# City of Ogdensburg WPCF Utility Usage

Electric (KW-h)    Natural Gas (therms)



# Effluent Chlorine Residual

