



PORT ELGIN WATER POLLUTION CONTROL PLANT

PERFORMANCE REPORT

**For the period of
JANUARY 1, 2021 to DECEMBER 31, 2021**

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**Ontario Clean Water Agency
Agence Ontarienne Des Eaux**

1. Process Performance & Regulatory Compliance

1.1 Summary of Non-Compliances/ Exceedances

December 2021:

- Number of Regulatory Limit Exceedances = **0**
- Number of Regulatory Objective Exceedances = **0**
- Number of Non-Compliances = **0**

The Port Elgin WPCP is regulatory under:

- Environmental Compliance Approval (ECA) 0557-AKQN3Q (Issued May 30, 2017) and;
- The Wastewater Systems Effluent Regulation (WSER)

2021	Regulatory Limit Exceedances	Regulatory Objective Exceedances	Non-Compliances
January	0	0	0
February	0	0	0
March	0	0	0
April	0	0	0
May	0	0	0
June	0	0	0
July	0	0	0
August	0	0	0
September	0	0	0
October	0	0	0
November	0	0	0
December	0	0	0

Description of Non-Compliances

The following is a summary of the requirements of the wastewater systems effluent regulation, the environmental compliance approvals, and any orders applicable to the system that were not met at any time during the time period covered by this report; as well as the duration of the failure and the measures that were taken to correct the failure:

Non-Compliance(s)	Duration	Required Actions & Corrective Actions
n/a	n/a	n/a

1.1.1 Flow

Influent Flow

The Port Elgin WPCP rated capacity is based on the annual average daily influent flow of the system. The Annual Average Daily Influent Flow and whether the facility was within the limits of the rated capacity will be determined at the end of the calendar year.

2021	Average Daily Influent Flow (m ³ /d)	% of Approved Rated Capacity*	Maximum Daily Influent Flow (m ³ /d)	% of Approved Rated Capacity*	Annual Average Daily Influent Flow (m ³ /d)	Within Objective of Rated Capacity* (6,455 m ³ /d)
January	2,531	39.2%	2,669	41.3%	2,640	Yes
February	2,352	36.4%	2,630	40.7%		
March	2,615	40.5%	3,481	53.9%		
April	2,677	41.5%	3,000	46.5%		
May	2,509	38.9%	2,752	42.6%		
June	2,457	38.1%	3,646	56.5%		
July	2,797	43.3%	3,510	54.4%		
August	2,644	41.0%	2,923	45.3%		
September	2,706	41.9%	3,355	52.0%		
October	2,705	41.9%	2,994	46.4%		
November	2,789	43.2%	3,121	48.4%		
December	2,901	44.9%	3,349	51.9%		

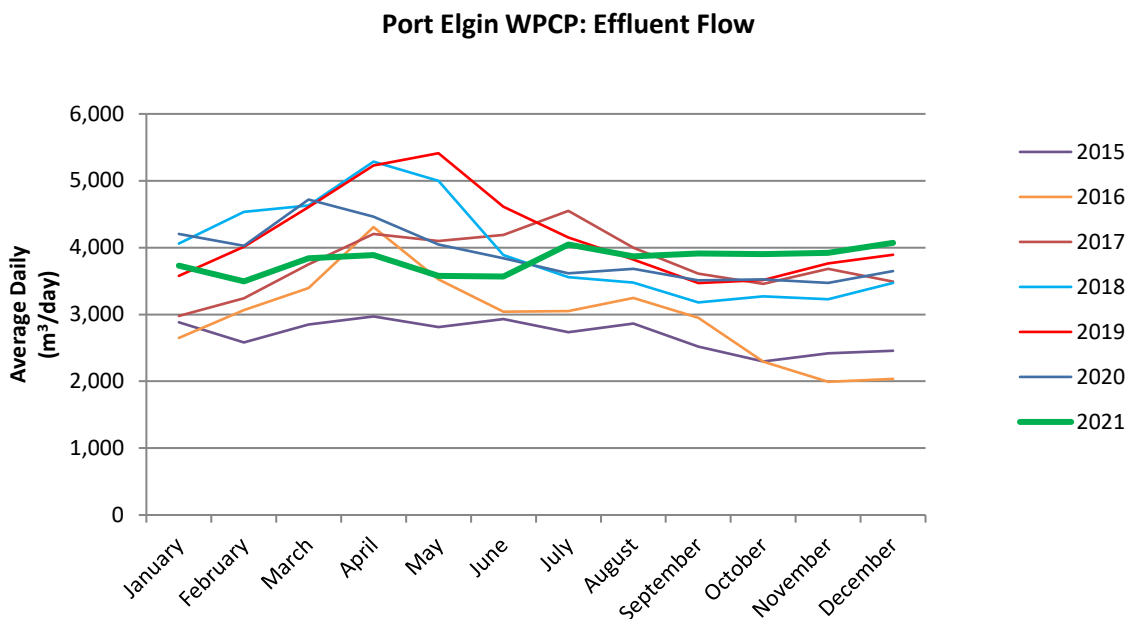
*As per the ECA, Rated Capacity refers to an annual average daily influent flow.

Note: Effluent flowmeter transducer head is to be moved and a third party will be brought in to re-commission after the relocation.

Effluent Flow

2021	Average Daily Effluent Flow (m ³ /d)	Maximum Daily Effluent Flow (m ³ /d)	Annual Average Daily Effluent Flow (m ³ /d)
January	3,729	3,927	3,821
February	3,495	3,921	
March	3,841	4,806	
April	3,887	4,296	
May	3,579	5,364	
June	3,566	4,974	
July	4,045	5,078	
August	3,870	4,199	
September	3,913	4,827	
October	3,905	5,006	
November	3,924	4,392	
December	4,071	4,583	

Comparison of Effluent Flow to Previous Year



The average flows for the first Quarter of 2021 are similar to those of 2016 and 2017. The average flows for the second Quarter of 2020 are lower to those of 2018 and 2019. The average flows for the third Quarter of 2020 are higher than 2018 flows and similar to 2019 flows. The average flows for the fourth Quarter of 2020 are similar to those of 2018 and 2019.

Weather Conditions*

- January 2021 had 42.8 mm of precipitation (compared to 123.1 mm in January 2020), and an average temperature of -3.8°C (compared to -2.7°C in January 2020). January 2021 had much less precipitation and a similar temperature compared to the previous year.
- February 2021 had 79.8 mm of precipitation (compared to 75.3 mm in February 2020), and an average temperature of -7.2°C (compared to -4.6°C in February 2020). February 2021 had a similar amount of precipitation and was warmer to the previous year.
- March 2021 had 52.0 mm of precipitation (compared to 67.2 mm in March 2020), and an average temperature of 2.1°C (compared to 0.7°C in March 2020). March 2021 had less precipitation and was warmer compared to the previous year.
- April 2021 had 53.6 mm of precipitation (compared to 56.2 mm in April 2020), and an average temperature of 6.3°C (compared to 3.5°C in April 2020). April 2021 had the same amount of precipitation and was warmer compared to the previous year.
- May 2021 had 35.8 mm of precipitation (compared to 51.2 mm in May 2020), and an average temperature of 10.8°C (compared to 10.0°C in May 2020). May 2021 had less precipitation and the same average temperature compared to the previous year.
- June 2021 had 51.4 mm of precipitation (compared to 91.4 mm in June 2020) and an average temperature of 18.3°C (compared to 16.6°C in June 2020). June 2021 had less precipitation and was warmer compared to the previous year.

- July 2021 had 157.6 mm of precipitation (compared to 61.4 mm in July 2020) and an average temperature of 18.0°C (compared to 20.6°C in July 2020). July 2021 had a lot more precipitation and was slightly cooler compared to the previous year.
- August 2021 had 52.4 mm of precipitation (compared to 236.4 mm in August 2020) and an average temperature of 20.4°C (compared to 18.6°C in August 2020). August 2021 had a lot less precipitation and was slightly warmer compared to the previous year.
- September 2021 had 125.2 mm of precipitation (compared to 108.0 mm in September 2020) and an average temperature of 14.8°C (compared to 13.6°C in September 2020). September 2021 had slightly more precipitation and had a similar average temperature to the previous year.
- October 2021 had 107.0 mm of precipitation (compared to 107.5 mm in October 2020) and an average temperature of 12.2°C (compared to 7.7°C in October 2020). October 2021 had the same amount of precipitation and was warmer than the previous year.
- November 2021 had 160.4 mm of precipitation (compared to 85.9 mm in November 2020) and an average temperature of 2.7°C (compared to 6.2°C in November 2020). November 2021 had significantly more rain and was cooler than the previous year.
- December 2021 had 88.8 mm of precipitation (compared to 142.6 mm in December 2020) and an average temperature of -0.1°C (compared to -1.2°C in December 2020). December 2021 had a lot less precipitation and was slightly warmer than the previous year.

*Data from Environment Canada Wiarton Weather Station

1.1.2 Effluent Quality

Effluent Objectives- ECA

During the reporting period, the Port Elgin WPCP **operated within the effluent objectives** set in the ECA.

2021	CBOD ₅		Total Suspended Solids		Total Phosphorous		E. Coli	
	Monthly Average (mg/L)	Within Objectives (15 mg/L)	Monthly Average (mg/L)	Within Objectives (15 mg/L)	Monthly Average (mg/L)	Within Objectives (0.8 mg/L)	Mean Geometric Density (cfu/100 mL)	Within Objectives (100 cfu/100 mL)
January	2.75	Yes	3.75	Yes	0.08	Yes	3.25	Yes
February	3.75	Yes	6.75	Yes	0.16	Yes	13.67	Yes
March	2.40	Yes	4.00	Yes	0.10	Yes	4.01	Yes
April	4.00	Yes	4.75	Yes	0.13	Yes	2.00	Yes
May	2.25	Yes	6.25	Yes	0.13	Yes	7.82	Yes
June	3.20	Yes	4.80	Yes	0.16	Yes	13.89	Yes
July	2.50	Yes	3.25	Yes	0.12	Yes	48.44	Yes
August	<2.00	Yes	7.20	Yes	0.18	Yes	6.71	Yes
September	2.20	Yes	7.00	Yes	0.24	Yes	28.23	Yes
October	2.00	Yes	8.25	Yes	0.24	Yes	<2.00	Yes
November	2.80	Yes	8.00	Yes	0.19	Yes	9.31	Yes
December	2.25	Yes	6.50	Yes	0.14	Yes	2.38	Yes

Effluent Limits- ECA

During the reporting period, the Port Elgin WPCP operated within the effluent limits set in the ECA.

2021	CBOD ₅		Total Suspended Solids		Total Phosphorous		E. Coli	
	Monthly Average (mg/L)	Within Limits (25 mg/L)	Monthly Average (mg/L)	Within Limits (25 mg/L)	Monthly Average (mg/L)	Within Limits (1 mg/L)	Mean Geometric Density (cfu/100 mL)	Within Limits (200 cfu/100 mL)
January	2.75	Yes	3.75	Yes	0.08	Yes	3.25	Yes
February	3.75	Yes	6.75	Yes	0.16	Yes	13.67	Yes
March	2.40	Yes	4.00	Yes	0.10	Yes	4.01	Yes
April	4.00	Yes	4.75	Yes	0.13	Yes	2.00	Yes
May	2.25	Yes	6.25	Yes	0.13	Yes	7.82	Yes
June	3.20	Yes	4.80	Yes	0.16	Yes	13.89	Yes
July	2.50	Yes	3.25	Yes	0.12	Yes	48.44	Yes
August	<2.00	Yes	7.20	Yes	0.18	Yes	6.71	Yes
September	2.20	Yes	7.00	Yes	0.24	Yes	28.23	Yes
October	2.00	Yes	8.25	Yes	0.24	Yes	<2.00	Yes
November	2.80	Yes	8.00	Yes	0.19	Yes	9.31	Yes
December	2.25	Yes	6.50	Yes	0.14	Yes	2.38	Yes

Effluent Limits - WSER

During the period of time covered by this report, the Port Elgin WPCP operated within the effluent limits set in the Wastewater Systems Effluent Regulations (listed below).

- the average carbonaceous biochemical oxygen demand due to the quantity of CBOD matter in the effluent did not exceed 25 mg/L;
- the average concentration of suspended solids in the effluent did not exceed 25 mg/L;
- the average concentration of total residual chlorine in the effluent did not exceed 0.02 mg/L, if chlorine, or one of its compounds, was used in the treatment of wastewater; and (*only relevant in systems that use chlorine as a disinfectant – Port Elgin WPCP uses UV treatment*)
- the maximum concentration of un-ionized ammonia in the effluent was less than 1.25 mg/L, expressed as nitrogen (N), at 15°C ± 1°C. (**only required if the period ends on or before June 30, 2014*).

2021	CBOD ₅		TSS		Unionized Ammonia	
	Monthly Average (mg/L)	Within Limits (<25 mg/L)	Monthly Average (mg/L)	Within Limits (<25 mg/L)	Monthly Average (mg/L)	Within Limits* (<1.25 mg/L)
January	2.75	Yes	3.75	Yes	0.001	Yes
February	3.75	Yes	6.75	Yes	<0.001	Yes
March	2.40	Yes	4.00	Yes	0.002	Yes
April	4.00	Yes	4.75	Yes	<0.001	Yes
May	2.25	Yes	6.25	Yes	0.008	Yes
June	3.20	Yes	4.80	Yes	0.002	Yes
July	2.50	Yes	3.25	Yes	<0.001	Yes
August	<2.00	Yes	7.20	Yes	0.001	Yes
September	2.20	Yes	7.00	Yes	0.001	Yes
October	2.00	Yes	8.25	Yes	0.001	Yes
November	2.80	Yes	8.00	Yes	0.001	Yes
December	2.25	Yes	6.50	Yes	0.002	Yes

Acute Lethality/Toxicity Testing – WSER

Currently the Port Elgin WPCP is eligible for reduced sampling (annual sampling). Acute Lethality samples were taken on August 25, 2021 and sent to Aquatox to analyze. The results showed that the Port Elgin WPCP **effluent was not acutely lethal** with a mortality rate of 0%. The next samples are scheduled for **August 2022**.

The test method used is the Reference Method for Determining Acute Lethality of Liquid Effluents to Rainbow Trout, Environment Canada, EPS 1/RM/13.

The test conditions for Acute Lethality testing are as follows:

- 1 vessel of 100% effluent with 10 fish in the vessel
- 1 vessel of Control Solution with 10 fish in the vessel
- Over 96 hours (or 4 days) – only aeration of vessels with no feeding of the fish 16 hours prior to the test or during the test
- Observation of the fish every 24 hours with the removal of any deceased fish from the vessels

The analysis method used is:

- Endpoint of test is the percentage of mortality at 96 hours
- Mortality of 50% of fish is commonly used
- The effluent fails the test if the effluent at 100% concentration kills more than 50% of the fish
- If >10% of the trout do not survive in the control solution, than the test is not valid.

1.2 Biosolids Haulage

Land application of biosolids from the Port Elgin WPCP is contracted to Bartel’s Environmental and typically occurs twice a year, once in the spring and once in the fall. Haulage occurred in May 2021. There is no more expected haulage scheduled until the fall of 2021.

As required by the Nutrient Management Act, chemical analyses of the digester contents will be completed and the results will be sent to the contractor prior to haulage and spreading. Samples will be taken during biosolids haulage and sent for chemical analyses.

Agriculture, Food and Rural Affairs (OMAFRA) approved Non-Agricultural Source Material Plans (NASM Plans) and C of As based on Ontario Regulation 338/09 made under the Nutrient Management Act, 2002. NASM Plans under the Nutrient Management Act are issued to the owner (farmer) who is responsible for managing the plan with assistance from the NASM Plan Developer.

Volume of Biosolids

Site	Volume of Biosolids (m ³)	Hauler	Haulage Dates
23232	440	Bartel’s Environmental	May 13, 2021
24198	2,904	Bartel’s Environmental	May 13, 14, 17, 18 & 19, 2021
23260	2,860	Bartel’s Environmental	November 12, 13, 15, 16, 17 & 19, 2021

1.3 Reportable Events

2021	Date (yyyy/mm/dd)	Event	Details
January	n/a	n/a	n/a
February	2021/02/21	Spill	Pumps at Harbour St pump station became airlocked and sewage became backed up and came through two manhole covers in sand parking lot. Pumps were stopped and primed and put back into service and pumped the backed up sewage to the treatment plant. On February 22, 2021 relays were put on high level alarm floats to connect directly to alarm relay. Town of Saugeen Shores on site on February 23, 2021 cleaning up affected area of accumulated snow and ice and bringing it to landfill.
March	n/a	n/a	n/a
April	n/a	n/a	n/a
May	n/a	n/a	n/a
June	2021/06/16	Spill	The band clamp that attached the drain valve to the forcemain broke inside of the Air Relief Chamber which allowed the sewage to surface through the manhole at the top of the chamber. Vac trucks were called in to ensure that the incoming sewage did not fill up the wetwell so that the pumps could be shut off and the forcemain could be drained back into the wetwell. Once the forcemain was no longer under pressure another vac truck was used to empty the chamber to allow operator access inside to replace the broken clamp. The spill site was excavated and the affected soil was disposed of offsite.
July	n/a	n/a	n/a
August	n/a	n/a	n/a
September	2021/09/07	Bypass	A massive storm caused power surges which caused problems with the backup generator not being able to power the UV system.
October	n/a	n/a	n/a
November	n/a	n/a	n/a
December	n/a	n/a	n/a

1.4 Report Submissions

A summary of the reports submitted by OCWA on behalf of the Town are summarized in the table below:

Report	Submission Frequency	Submit To	Submission Date	Next Report Due
Annual Performance Report	Annually on March 31 st	MECP – Water Supervisor	March 31, 2021 (2020 Report)	March 31, 2022 (2021 Report)
Discharge Data Reports	45 days after the Quarter	MECP	February 15, 2021 (2020 Q4) May 15, 2021 (2021 Q1) August 15, 2021 (2021 Q2) November 15, 2021 (2021 Q3)	February 15, 2022 (2021 Q4)
Monitoring Reports – Wastewater Systems Effluent Regulation (WSER)	45 days after the Quarter	Environment Canada – Effluent Regulatory Reporting Information System (ERRIS)	February 11, 2021 (2020 Q4) May 12, 2021 (2021 Q1) August 12, 2021 (2021 Q2) November 5, 2021 (2021 Q3)	February 15, 2022 (2021 Q4)
Bypass/Overflow Summary Report	45 days after the Quarter	MECP – Water Supervisor	February 12, 2021 (2020 Q4) May 12, 2020 (2020 Q1) August 12, 2021 (2021 Q2) November 5, 2021 (2021 Q3)	February 15, 2022 (2021 Q4)

1.4.1 Annual Performance Report

An Annual Performance Report is submitted as required by the Environmental Compliance Approval for the Port Elgin WPCP (by March 31st) following the end of the period being reported upon. The most recent Annual Performance Report was submitted as per ECA 3159-8N7SJN and ECA 0556-AKQN2Q. The 2019 Annual Performance Report included the requirements from ECA 0556-AKQN2Q.

Under ECA 0556-AKQN2Q (issued May 30, 2017), the annual performance report must include the following items:

- a) a summary and interpretation of all Influent and Imported Sewage monitoring data, including sewage characteristics, flow rates and a comparison to the values used in the design of the Works;
- b) a summary and interpretation of all Final Effluent monitoring data and a comparison to the compliance limits condition, including an overview of the success and adequacy of the Works;
- c) a description of any operating problems encountered and corrective actions taken;
- d) a summary of all maintenance carried out on any major structure, equipment, apparatus or mechanism forming part of the Works;
- e) a summary of any effluent quality assurance or control measures undertaken in the reporting period;
- f) a summary of the calibration and maintenance carried out on all Influent, Imported Sewage and Final Effluent monitoring equipment;
- g) a description of efforts made and results achieved in meeting the design objectives condition;
- h) a tabulation of the volume of sludge generated in the reporting period, an outline of anticipated volumes to be generated in the next reporting period and a summary of the locations to where the sludge was disposed;
- i) a summary of any complaints received during the reporting period and any steps taken to address the complaints;
- j) a summary of all Bypasses, Overflows, reportable spills or abnormal discharge events;
- k) a copy of all Notice of Modifications submitted to the Water Supervisor as a result of Schedule B, Section 1, with a status report on the implementation of each modification;
- l) a report summarizing all modifications completed as a result of Schedule B, Section 3.

1.4.2 Discharge Data Report (MECP)

The Ontario Clean Water Agency (OCWA) has an agreement with the MECP to submit quarterly discharge data for all OCWA operated municipal sewage treatment facilities 45 days at the end of each quarter. Monitoring data is submitted via the Ministry of Environment Wastewater System (MEWS). The MECP stores these reports in a shared location where MECP Inspectors can obtain and review them. There are no limits/objectives for the quarterly Discharge Data Report.

1.4.3 Monitoring Report (WSER)

A monitoring report required under the Wastewater Systems Effluent Regulation (WSER) is submitted on a quarterly basis to the Government of Canada via the Effluent Regulatory Reporting Information System (ERRIS).

The quarterly monitoring report requires that the following information be reported for the Port Elgin WPCP:

- Number of days effluent was deposited
- Total volume of effluent deposited
- Average CBOD (limit of 25 mg/L)
- Average concentration of suspended solids (limit of 25 mg/L)
- Results of Acute Lethality (when tested)

During the reporting period, **the Port Elgin WPCP operated within the limits** required for WSER.

1.4.4 Bypass/Overflow Quarterly Report

Under ECA 0556-AKQN2Q (issued May 30, 2017), a quarterly summary report must be submitted to the MECP water supervisor covering all Bypass and Overflow events during the quarter. The summary report shall be in an electronic format, which shall contain at a minimum the following information for each bypass/overflow event:

- Date, time and duration of the event
- Measured or estimated volume
- Location of the event, the receiver, and impact on the receiver
- Reason for the event
- Level of treatment that was received and disinfection status of the same
- Samples grabbed and results.

Bypass/Overflow Events:

Date	Time	Duration	Volume (m ³)	Treatment Process Bypassed	Reason for Event
2021/09/07	16:45	3 hrs 10 mins	603	UV System	A massive storm caused power surges which caused problems with the backup generator not being able to power the UV system. Reported to SAC, MECP, and MOH. EI #1-18GCY3.

1.5 Third Party Inspections & Results

MECP Inspection was performed on **September 15, 2017**. The Final inspection report was received on April 3, 2018. There were **no non-compliances** and **no recommendations** or best practice issues identified.

2. Operations & Maintenance

2.1 Major & Unscheduled Maintenance Summary

2021	Maintenance Summary
January	Clean UV channel and wash down lights and channel Worked on travelling screen start up Modify side plastic plates to allow screen to travel through without being obstructed Switch over alum pump duty and calibrate alum flow Work on cleaning diffusers for digester/holding tanks Set up diesel heat at UV building to dry out building during construction Technician from Cummins on site to check over diesel generators. Network issue was corrected which restored communication. Clean the grit channels at 10 th concession station and Harbour St station with Nickason vac truck. Lift out screens at 10 th con and push grit through inlet channel to clean out Work in South holding tank and install diffusers on headers
February	Replace 1 ½" fitting on the water booster pump discharge in the headworks building Cleaned U.V. light rack ends thoroughly Worked on #1 pump at Harbor St station Cleaned clarifier weir and trough and scraper arm Removed Harbour St station pump #1 drive shaft to be balanced Installed new drive shaft for pump #1 at Harbour St station Spill incident at Harbour street station. The pumps air locked and the flow backed up in the sanitary sewer causing a spill which was reported. Work with Town to check high level floats at Harbour St station. Floats tested ok and alarmed out. Cleaned up in the wet well, hosing down the rating and removing loose debris. Switched alum pump duty. Calibrated flow on pumps. RAS pump also cleaned out and switched over to RAS pump #2.
March	Cleaned up Harbour St station wet well. Washed down floor grating and channel grinder. Inspected channel grinder at Harbour St. station. Cleaned out drain near grit auger in Headworks building and flushed out blockage. Cleaned U.V. channel and removed debris from rack ends. Worked on installing new starter for generator unit at Tomlinson Dr. Cleaned clarifier with pressure washer and cleaned weir, arm and trough. Worked with town electrician to install new final effluent flow meter transmitter head in new UV building. Replaced belts on Odour Control unit. Worked on UV rack repairs and cord replacement.
April	Cleaned out Tomlinson station wet well and replaced a float for the back-up system Removed pumps at septage receiving station, cleaned it out and cleaned pump #1 Cleaned #1 clarifier with pressure washer MSA tech on site to work on gas monitoring equipment Made up new 2" PVC vertical pipe for clarifier wash system and connected to pump for wash system start up Checked Westlinks station and found a leak on the east check valve Experiencing VFD faults on #1 pump and left pump off for the time being Worked on wash system start up and checked submersible pump Lifted out rags basket at septage receiving station and cleaned out heavy rags and grit Cleaned out Mill Creek wet well of solids, rags and grease Cleaned out septage receiving wet well of rags and grit at the STP Worked with Caldecott crew on removing flywheel for #1 pump at Harbour St. station Hach tech on site for annual instrument verification at plant and stations
May	Cleaned clarifier with pressure washer Meeting on site with Syntec rep for quotes Mounted new Davis weather station on top of building Worked on operating stem replacement for gate valve Bartel's on site for spring sludge hauling LO/TO on sludge transfer pump Drained down West aeration tank to inspect air diffusers Mixed up the odour x barrel by the digesters and checked fogger operation. Had SPD tech on site to replace boards and sensors at Harbour St. station and 10 th Con. Station Cleaned and flushed pick up tubes in empty clarifier #2. Helped Caldecott crew at Harbour St with unload/install of flywheel for #1 pump and removal and loading of flywheel for 3# pump Switched over to clarifier #2 Transported drive shaft for #3 pump at Harbour St station with Harmon's

<p>June</p>	<p>Cleaned UV channel Installed 1 new rack of lights in A bank for UV system Worked in #2 digester tank Loaded up Harbour St. pump composite drive shaft to be sent to Harman's for U-joint replacement Indus Controls on site for flow meter calibrations for plant and stations Wessuc crew on site at sewage plant for #1 digester, South holding tank, and RAS pit clean out Pump #2 at 10th Concession Station repaired and tested Cleaned LIT transducer at 10th concession station and tested alarms Worked in #1 digester tank Force main leak at 3rd air line chamber. The MECPP was notified and samples were taken Cleaned UV channel with 2" hose and submersible pump Cleaned clarifier</p>
<p>July</p>	<p>Checked alum pumps and calibrated flow Cleaned clarifier Cleaned out RAS pump Reset soft start controllers and pumped water out of valve chamber pit at Westlinks Worked in North holding tank Flushed and cleaned out floor drain near grit auger in headworks building Brushed UV rack ends and removed debris and algae Worked on assembling new UV racks Worked on replacing lights and quartz sleeves for UV racks that will be placed in C bank</p>
<p>August</p>	<p>Installed flywheel, upper drive shaft and lower composite drive shaft with new U-joints at Harbour St Station Disconnected the top driveshaft and checked motor at Harbour St Station Worked in North holding tank, cleaning diffusers and flushing the air headers New pressure transducer installed at Mill Creek pump station Installed new LIT sonar transducers Flushed drain line at grit auger in headworks building test Removed #3 pump Harbour St. flywheel Harbour St. pump #1 work and flywheel Cleaned UV channel Worked on #1 digester supernatant valve replacement Replaced brushes on odour fogger by digesters</p>
<p>September</p>	<p>Worked on installation of new plug valve for digester #1 supernatant line Cleaned clarifier with pressure washer a Worked in digester #1 flushing headers and cleaning diffusers Had a motor fault alarm at Harbour St station for pump #2 High winds and storm event caused issues with a control board in the diesel generator RAS pump #1 variable frequency drive was replaced with the spare unit after the storm Tomlinson station generator did not start properly and the station needed to be pumped out Had Total Power on site at sewage plant to replace circuit board in generator Filled fuel tanks for generators at stations. Cleaned A,B and C UV banks. Fuses replaced for supernatant pump #2 Checked Netsch WAS pumps Had alarms at Harbour St for pump #2 fault. Pumped well down with pump #1. Cleaned up in wet well at Harbour St station Had fault on pump #2 at Harbour St station Westario was on site to replace line insulators and fuses on pole outside of the station Tech from Fordwich was on site to check the pump motors operation Cleaned out drain near grit auger located in headworks building Made up pallet and placed motor #2 from Harbour St on it for shipment to Fordwich Had alarm at plant due to high winds causing power bumps Replaced, cleaned filters for turbo blowers Pumped out alum pit outside and alum room Had alarm at Harbour St. station for pump #2 motor overload Cleaned up used oil around plant and cleaned up in alum room, removing piping from walls Replaced sample hose for auto sampler and tested out for samples</p>
<p>October</p>	<p>Changed battery at Tomlinson station for back-up generator. Changed oil in clarifier #1 gear drives Replaced network internet equipment for PE sewage plant. Cleaned LIT and ultrasonic heads at Harbour St. station. Replaced Pump #3 motor at Harbour St station.</p>

	<p>Had problems with #2 clarifier drive over torque. Pumped down RAS pit and flushed and hosed off walls. Removed #3 pump flywheel stand at Harbour St station to take to Caldecott for work. Replaced roll pin for 10" RAS valve for pump #1. New panel installed in electrical room at sewage plant for data collection. Replaced ¾" valves for clarifier wash system. Cleaned UV channel. Worked on disassembly of sludge transfer pump. Annual Health and safety check.</p>
<p>November</p>	<p>Installed 2 repaired UV racks in B bank Replaced roll pin in 10" RAS pump valve (#2 pump) Drained RAS pit and RAS pump #2 piping. Used pressure washer to clean clarifier weir and trough. Cleaned grit channels at Harbour St and 10th Concession Work with A. Bellamy at Harbour St. station on installing new LIT system. Odour complaints investigated Cut down and trimmed trees and brush around sewage plant buildings. Cleared blockage in drain near grit auger in Headworks building. Bartel's on site to start sludge hauling. Worked with Caldecott on installation of new volute and front head for pump #3 at Harbour St. station. Worked in #2 digester to remove rags from diffusers and clean off and check air pattern. Drained supernatant pump #2 and removed piece of heavy plastic that was lodged in the lobes. Shut down clarifier to wash system for the season.</p>
<p>December</p>	<p>Installed new level indicating equipment at Harbour St. Set up new floating tank heater for empty clarifier sump Reset supply fan 2 at 10th Concession station Tradesafe on site for yearly lifting equipment checks SPD on site for gas monitor checks Caldecott millwrights on site to install the balanced flywheel at Harbour St for pump #3 Cleaned drain near grit separator auger at sewage plant ToSS electrician wired up supernatant pump #1 in digester building Removed railing at digesters to bring in new rotary sludge pumps Cleaned clarifier weir and trough Put 150 HP motor in place on stand for pump #3 at Harbour St station Used portable pump to pump water out of valve chamber at Westlinks station Lowered new rotary lobe sludge pumps in place at digester building and removed old pumps Unloaded UV equipment shipment Installed new O2 sensor for Harbour St station wet well side Cleaned online DO sensors by aeration tanks Replaced 3 belts on supernatant pump #1</p>

Refer to Appendix A and Section 2.2 for details regarding the major and unscheduled maintenance performed during the reporting period.

2.2 Call-Ins

Number of call-ins:

2021	# of Call-Ins	Due to
January	0	n/a
February	2	Field Power Alarm, Spill
March	2	Dialer Failure, Soft Start Pump Fault
April	4	Pump #1 Fault
May	0	n/a
June	2	Power Bump, Discharge High Flow Alarm
July	1	High Level Alarm
August	1	RAS Low Flow Alarm
September	6	After hours septage drop off, Power outage, High wet well alarm, Harbour St Station motor overload fault, Power Bumps, Harbour St Station soft start fault
October	4	Harbour St Station pump failure (2), clarifier #2 failure alarm, power outage
November	1	Harbour St Station power failure
December	2	Power Outage, Power Bump

Refer to Appendix B for a detailed list of call-ins.

2.3 Community Complaints

January

No community complaints were received by OCWA staff.

February

No community complaints were received by OCWA staff.

March

No community complaints were received by OCWA staff.

April

No community complaints were received by OCWA staff.

May

No community complaints were received by OCWA staff.

June

No community complaints were received by OCWA staff.

July

No community complaints were received by OCWA staff.

August

No community complaints were received by OCWA staff.

September

No community complaints were received by OCWA staff.

October

No community complaints were received by OCWA staff.

November

10 Odour complaint called into police. Investigated by OCWA, not coming from the WPCP.

December

No community complaints were received by OCWA staff.

3. Health & Safety

3.1 Incidents

- Number of Health & Safety Incidents Reported = 0

2021	Health & Safety Incidents	
	# Reported	Details
January	0	n/a
February	0	n/a
March	0	n/a
April	0	n/a
May	0	n/a
June	0	n/a
July	0	n/a
August	0	n/a
September	0	n/a
October	0	n/a
November	0	n/a
December	0	n/a

3.2 Training

The following safety topics/trainings were discussed with staff:

2021	Topics
January	Winter Driving
February	COVID Reminders
March	Mental Wellness Reminders
April	Distracted Driving
May	Occupational Health Testing
June	Mental Wellness Reminder
July	OCWA OHSS Resource Portal
August	Back to School Reminders
September	Don't Walk By & Near Miss Programs
October	COVID Reminders
November	Housekeeping
December	Slips and Trips

Appendix A: Major & Unscheduled Maintenance Details

January

- 4** Clean UV channel with 2 inch submersible pump and hose. Washed down lights and channel.
- 4, 11, 14, 25, 27** Work on travelling screen start up. Put gear drive and motor back in place. Jog belt to check tension and plates. Check roller guards
Modify side plastic plates to allow screen to travel through without being obstructed. Continue to adjust tension for drive
- 6** Switch over alum pump duty. Calibrate alum flow.
- 11, 13** Work on cleaning diffusers for digester/holding tanks
- 12** Set up diesel heat at UV building to dry out building during construction and wall insulation
- 14** Technician from Cummins on site to check over diesel generators.
There was an issue with Outpost communications. Reset equipment at pit. It was contacted and a network issue was corrected which restored communication.
- 19** Clean the grit channels at 10th con station and Harbour st station with Nickason vac truck. Lift out screens at 10th con and push grit through inlet channel to clean out.
- 21** Work in South holding tank and install diffusers on headers.
- 29** Ran both P.D. blowers to test run and check operation. Adjust valves in blower room and check gauges and oil levels. Belt tension was ok. Switch back to Turbo blowers at the end of the day.

February

- 5** Replace 1 ½" fitting on the water booster pump discharge in the headworks building.
- 9** Use scrub brush to clean U.V. light rack ends thoroughly.
- 10** Work on #1 pump at Harbor St station. Check drive shaft U-joints, check flywheel hanger bolts and connections, drain pump and check impeller, grease all pump fittings.
- 10** Use scrub brush to clean clarifier weir and trough and scraper arm.
- 11** Remove Harbour St station pump #1 drive shaft to be balanced.
- 19** Install new drive shaft for pump #1 at Harbour St station. Grease fittings.
- 21** Spill incident at Harbour St station. A jam occurred in the channel grinder causing flow to back up and spill over in overflow channel. The pumps air locked and the flow backed up in the sanitary sewer causing a spill. The air was bled out of the pumps and removed the channel grinder. A large, hard piece of plastic was found jammed in the grinder, which was removed. We also found that the stop switch was now damaged after being submerged. New parts have been ordered for the stop switch and the electrician will replace it. The incident was reported and samples were taken.
- 22, 23** Worked with the Town to check high level floats at Harbour St station. Floats tested ok and alarmed out. The problem seemed to be with a timer tied into the float alarms. The timer delay was set to the minimum settings so that the float should only need to be engaged for 10 to 15 seconds until it calls out. Also cleaned up in the wet well, hosing down the rating and removing loose debris.
- 26** Switched alum pump duty. Calibrate flow on pumps. Running at 180ml/min. RAS pump also cleaned out and switched over to RAS pump #2.

March

- 3** Cleaned up Harbour St station wet well. Wash down floor grating and channel grinder.
- 4** Inspected channel grinder at Harbour St. station. Lockout/Tagout and remove rags from grinder teeth. Found a large piece of hard plastic that had jammed the unit causing the flow back up. Remove plastic. Stop button on wall had filled with water and will also need to be replaced.
- 15** Cleaned out drain near grit auger in Headworks building. Flushed out blockage.
Cleaned U.V. channel with effluent water from submersible pump and 2" hose. Removed debris from rack ends.
- 18, 19** Worked on installing new starter for generator unit at Tomlinson Dr. Found the new starter had a faulty plunger, which would not activate consistently to start the generator. Ordered a new one,

- changed out the battery cables with new ones and replaced a fuel system solenoid. Cleaned up the old starter, lubricated it and put it back on.
- 22** Cleaned clarifier with pressure washer and cleaned weir, arm and trough.
- 23** Worked with town electrician to install new final effluent flow meter transmitter head in new UV building.
- 25** Replaced belts on Odour Control unit. Checked tension and adjusted accordingly. Put back on line.
- 30** Worked on UV rack repairs and cord replacement.

April

- 1** Cleaned out Tomlinson station wet well of solids, rags and grease with Nickason Vac truck and also replaced a float for the back-up system
- 8, 9** Removed pumps at septage receiving station and cleaned out rags, then cleaned shims for pump #1 wear plate and re-installed, hosed off pumps and put back in wet well and tested operation
- 12** Cleaned #1 clarifier with pressure washer. Cleaned off arm, weir, and trough.
- 14** MSA tech on site to work on gas monitoring equipment at headworks building
- 15** Made up new 2" PVC vertical pipe for clarifier wash system and connected to pump for wash system start up
- 19** Checked Westlinks station and found a leak on the east check valve
Experiencing VFD faults on #1 pump and left pump off for the time being.
- 19, 20** Worked on wash system start up and checked submersible pump and installed in effluent pit, hooked up lines and tested system and is now on-line.
- 22, 23** Lifted out rags basket at septage receiving station, cleaned out heavy rags and grit and washed out basket and put back in place
- 27** Cleaned out Mill Creek wet well of solids, rags and grease with Nickason Vac truck, checked pumps, cleared air and tested
- 27** Cleaned out septage receiving wet well of rags and grit at the STP, scraped walls and washed down
- 29** Worked with Caldecott crew on removing flywheel for #1 pump at Harbour St. station, taken to Caldecott shop for bearing replacement, checked drive shafts, greased pump assembly and checked pump
- 30** Hach tech on site for annual instrument verification at plant and stations

May

- 3** Cleaned clarifier with pressure washer. Cleaned weir, arm, and trough and checked centre sludge tubes.
- 5** Had meeting on site with Syntec rep for quotes on new sludge transfer pumps and replacement air valves for holding tanks.
Mounted new Davis weather station on top of building and checked display.
- 6, 10** Worked on operating stem replacement for gate valve in headworks building. Modified collar and installed new stem and tested operation.
- 13** Bartel's on site for spring sludge hauling.
LO/TO on sludge transfer pump while Bartel's were loading trucks temporarily. There was a problem with the shaft seal leak around the sludge pump. The pump was drained down, cleaned and inspected and was able to put the pump back in service and continue using to load sludge.
- 14** Drained down West aeration tank to inspect air diffusers. Refilled tank after checking them.
Mixed up the odour x barrel by the digesters and checked fogger operation.
- 18** Had SPD tech on site to replace boards and sensors at Harbour St. station and replace sensors at 10th Con. Station. Tech also brought with him a new portable unit for Port Elgin and Southampton and mixed gas bottles for calibration. Also checked Mill Creek station to get an idea for LIT replacement equipment for Mill Creek, Tomlinson, Harbour St, and Shipley Ave. Quotes are to follow from SPD.

- 20, 21** Cleaned and flushed pick up tubes in empty clarifier #2. Drained oil for drives and replaced. Checked drive and ran clarifier empty to test operation. Checked runner boards.
- 25** Helped out Caldecott crew at Harbour St with unload/install of flywheel with new bearings for #1 pump and removal and loading of flywheel for 3# pump. Bearings to be replaced for #3 flywheel.
- 26** Switched over to clarifier #2. Switched over valves in splitter box and put extension piece in place. Checked wash system piping for #2 clarifier and started up system on that side. Used RAS and WAS pumps to pump down clarifier #1 and send back through to the front of the plant. Checked over torque alarm and continued monitoring and finished putting Clarifier #2 on-line.
- 27** Transported drive shaft for #3 pump at Harbour St station with Harmon's. The shaft is out to be balanced and have the U joints replaced. The composite shaft was also bought up and crated for future transport.

June

- 1** Cleaned UV channel using 2" hose and submersible pump. Cleaned off racks and removed algae and debris.
- 2** Installed 1 new rack of lights in A bank for UV system.
- 3, 7, 10, 11** Worked in #2 digester tank. Shoveled access sludge to sump for transfer and work on removing diffusers for cleaning.
- 4** Loaded up Harbour St. pump composite drive shaft to be sent to Harman's for U-joint replacement.
- 7** Indus Controls on site for flow meter calibrations for plant and stations.
- 8, 9** Wessuc crew on site at sewage plant for #1 digester, South holding tank, and RAS pit clean out.
- 8** A problem was found at the 10th Concession Station involving flow for pump #2. The LIT transducers were cleaned and air bled from the pumps. Selectra and S.West on site the next day and found the problem was with a speed reference input leading to the VFD. After this was repaired and the pump tested it was put back in auto setting.
- 9** Cleaned LIT transducer at 10th concession station. Removed bar screens at station for thorough cleaning and replaced. Selectra checked alarms and PLC settings and tested alarms
- 15** Worked in #1 digester tank. Removed diffusers and cleaned. Cleaned air headers with hose and water and checked air flow.
- 16** A problem was found at 10th concession station. Alarm called out. Found force main leak at 3rd air release chamber. The MECP was notified and samples were taken. We isolated the station and diverted as much flow as possible to Harbour St. station. Vac trucks were on site to pump out the chambers and the wet well. The problem was a stainless 20" clamp with flanged tee had failed on the weld by the bolts. After draining the main, we replaced the clamp with a solid 20" repair clamp and slowly refilled the main and put the station back on line. We had to open the force main valves as well as the inlet valve leading to the station and had to clean the LIT transducer heads and tubes again and also check the station trending and well levels for proper pump operation.
- 29** Cleaned UV channel with 2" hose and submersible pump. Cleaned off lights and remove any debris.
- 30** Cleaned clarifier with pressure washer and used long extension to wash down weir, scraper arm and trough.

July

- 12** Checked alum pumps and switched over to #1 alum pump and calibrated flow.
- 13, 14** Cleaned clarifier with pressure washer. Washed arm, weir and trough and grating at splitter box.
- 14, 30** Cleaned out RAS pump. Washed down floor and bag up rags.
- 15** Reset soft start controllers and pumped water out of valve chamber pit at Westlinks.
- 19, 21, 22, 28, 29** Worked in North holding tank. Spin off and removed diffusers for cleaning. Worked on washing out diffusers and removing rags so they may be reinstalled. Flushed out air headers with hose and water to clean out sludge and separated at flanges to flush with water and air.

- 19** Flushed out floor drain near grit auger in headworks building and cleaned out grit from drain tray.
- 21, 26, 27** Brushed UV rack ends and removed debris and algae. Worked on assembling new UV racks with new lights and tubes and put 1 new rack in A bank.
- 22** Worked on replacing lights and quartz sleeves for UV racks that will be placed in C bank.

August

- 5** Worked with Caldecott at Harbour St Station to install flywheel, upper drive shaft and lower composite drive shaft with new U-joints. The flywheel for this pump had been taken out and sent down to the Caldecott shop to replace the bearings.
- 6, 9** Disconnected the top driveshaft and checked motor with ToSS electrician due to motor/MCC issue at start up.
- 9, 11** Worked in North holding tank, cleaning diffusers and flushing the air headers.
- 11** A new pressure transducer was installed at Mill Creek pump station.
Worked with ToSS electrician and Selectra at 10th Concession Station. Installed new LIT sonar transducers. Checked programming and trending. Monitor both, running ok.
Flushed drain line at grit auger in headworks building test – running ok
- 12** Worked with Caldecott millwrights to remove #3 pump Harbour St. flywheel. Check #3 pump impeller clearance.
- 18** Worked with Caldecott millwrights at Harbour St. pump #1 work and flywheel.
- 24** Cleaned UV channel. Used 2” pump and hose, clean off lights and wash down channel
- 25, 26, 27, 31** Worked on #1 digester supernatant valve replacement. Disconnected Victaulic couplings and removed old valve. Lowered new valve and connected it to supernatant tube with couplings. Attached new clevis for supernatant cable and removed rags. Re-attached valve stem and tested operation of valve.
- 26** Replaced brushes on odour fogger by digesters.

September

- 1** Worked on installation of new plug valve for digester #1 supernatant line. Painted valve and fit valve stem to nut and actuator.
Cleaned clarifier with pressure washer and sprayed weir and trough.
- 3** Worked in digester #1. Flushed headers and spin on cleaned diffusers. Painted piping and removed old valve from tank.
- 6** Had a motor fault alarm at Harbour St station for pump #2. The pump was reset and lead duty switched to #1 pump. The motor seemed to be ok but this same fault happened again. The motor was checked with the town electrician and the voltage and amps appeared to be normal.
- 7** High winds and a storm event caused Power outages all over town. There were issues with a control board in the sewage plant diesel generator causing it to run under voltage. The portable unit was brought up from the town to use to run the plant instead. Samples were taken from the effluent and the generator was running by 20:00. RAS pump #1 variable frequency drive was also affected by the power outage and it was replaced the next week with the spare unit that was on site. Tomlinson station generator also did not start properly and the station needed to be pumped out before it was boosted and started again.
- 8** Had Total Power on site at sewage plant to replace circuit board in generator. Tested generator under load after and disconnected town unit.
- 9** Filled fuel tanks for generators at stations.
- 13** Cleaned A,B and C UV banks.
- 14** Fuses replaced with electrician for supernatant pump #2. Tested pump operation after.
Checked Netsch WAS pumps and checked lobes, belts and casing liner. Hosed out and took pictures for supplier and spare parts.
Had alarms at Harbour St for pump #2 fault. Pumped well down with pump #1.
- 15** Cleaned up in wet well at Harbour St station. Unpacked new channel grinder and placed on cart.

- 16 Had fault on pump #2 at Harbour St station. Motor overload issue. Later that morning Westario was on site to replace line insulators and fuses on pole outside of the station. A tech from Fordwich was on site to check the pump motors operation and determined that motor for #2 needed to be serviced. #2 motor was removed and Motor #3 was placed on #2 pump to operate this pump. There was Benschaw tech on site to check the soft start drives and make adjustments for motor #3.
- 17, 28 Cleaned out drain near grit auger located in headworks building.
- 17 Made up pallet and placed motor #2 from Harbour St on it for shipment to Fordwich
- 22 Had alarm at plant due to high winds causing power bumps. Reset equipment at sewage plant and checks.
- 24 Replaced, cleaned filters for turbo blowers. Pumped out alum pit outside and alum room.
- 26 Had alarm at Harbour St. station for pump #2 motor overload. This was now the second motor that had faulted on pump #2.
- 27 Cleaned up used oil around plant and cleaned up in alum room, removing piping from walls.
- 29 Replaced sample hose for auto sampler and tested out for samples.

October

- 4 Changed battery at Tomlinson station for back-up generator.
- 5 Changed oil in clarifier #1 gear drives. Drained old oil, flushed out and refilled. Greased all points.
- 6 Replaced network internet equipment for PE sewage plant.
Cleaned LIT and ultrasonic heads at Harbour St. station and checked readings.
- 7 Replaced Pump #3 motor at Harbour St station.
- 11 Had problems with #2 clarifier drive over torque. Switched over service to #1 clarifier while drained #2 clarifier.
- 12 Pumped down RAS pit and flushed and hosed off walls.
- 19 Removed #3 pump flywheel stand at Harbour St station to take to Caldecott for work.
- 20 Replaced roll pin for 10" RAS valve for pump #1. Operated and tested valve.
- 21 New panel installed in electrical room at sewage plant for data collection.
Replaced ¾" valves for clarifier wash system.
- 26 Cleaned UV channel. Washed down lights and channel walls. Checked for faulty racks to remove for UV light and sleeve replacement.
- 27 Worked on disassembly of sludge transfer pump. Will be replaced with 2 new Netsch rotary lobe style pumps.
- 29 Annual Health and safety check list completed for PE sewage.

November

- 1 Installed 2 repaired UV racks in B bank
Replaced roll pin in 10" RAS pump valve (#2 pump)
- 2 Drained RAS pit and RAS pump #2 piping. Flushed water against valve and seat to clear. Operated valve back and forth and it will no longer seat completely so a new one has been ordered for replacement.
- 5 Used pressure washer to clean clarifier weir and trough. Washed down clarifier arm.
- 8 Cleaned grit channels at Harbour St and 10th Concession with Nickason vac truck. Pushed all grit from inlet channels into main grit channels for removal. Lifted out bar screen and clean thoroughly.
- 9, 10, 17, 29, 30 Work with A. Bellamy at Harbour St. station on installing new LIT system. Ran new wires and conduit and installed new ultrasonic transducer, control box and bracket. A.B. working on wiring and programming in controller.
- 10 Odour complaints investigated by J. Marx. Spoke with D. MacLeod regarding complaints.
Cut down and trimmed trees and brush around sewage plant buildings.
- 15 Cleared blockage in drain near grit auger in Headworks building.
- 16 Bartel's on site to start sludge hauling.

- 18** Worked with Caldecott millwright on installation of new volute and front head for pump #3 at Harbour St. station.
- 19, 22** Worked in #2 digester to remove rags from diffusers and clean off and check air pattern.
- 23** Drained supernatant pump #2 and removed piece of heavy plastic that was lodged in the lobes. Replaced belts and level motor. Put back on line and tested.
- 25, 26** Shut down clarifier to wash system for the season. Pulled out submersible pump and drained water lines and disconnected pump.

December

- 2, 7** Installed new level indicating equipment at Harbour St. Verified level readings with old system and tested new system. Run new conduit and wire in wet well for ultrasonic head which will be installed on North side. Removed old wiring in wetwell.
- 3** Set up new floating tank heater for empty clarifier sump.
- 7** Reset supply fan 2 at 10th Concession station and checked contactor in panel.
- 7, 8, 9** Tradesafe on site for yearly lifting equipment checks.
- 8, 9** SPD on site for gas monitor checks. Checked portable units.
- 8** Had Caldecott millwrights on site to install the balanced flywheel with new bearings at Harbour St for pump #3. Also worked in digester building to replace supernatant pump #1 with #2 pump.
- 9** Cleaned drain near grit separator auger at sewage plant.
- 14** ToSS electrician wired up supernatant pump #1 in digester building. Tested out pump afterwards.
- 14, 17** Removed railing at digesters to bring in new rotary sludge pumps. Reinstalled after pumps were in place.
- 14** Cleaned clarifier weir and trough.
- 15** Put 150 HP motor in place on stand for pump #3 at Harbour St station.
- 16** Used portable pump to pump water out of valve chamber at Westlinks station.
- 16** Assisted Caldecott Milwright and lowered new rotary lobe sludge pumps in place at digester building and removed old pumps. Made up new wooden cover for skylight at digester building.
- 20** Unloaded UV equipment shipment.
- 21** Installed new O2 sensor for Harbour St station wet well side.
- 29** Cleaned online DO sensors by aeration tanks.
- 30** Replaced 3 belts on supernatant pump #1. Removed rags from pump and clear out. Tested pump.

Appendix B: Detailed List of Call-Ins

January

No call-ins to report for this period.

February

- 13 Field power alarm. Upon arrival the station was operating normally.
- 21 Spill caused from a jam in the channel grinder causing a backup into the sanitary sewer

March

- 12 Alarm call from Westlinks dialer failure
- 26 Soft Start Pump Fault at Westlinks

April

- 1 Pump #1 Fault
- 8 Westlinks Pump #1 Fault
- 16 Westlinks Pump #1 Fault
- 18 Westlinks Pump #1 Fault

May

No call-ins to report for this period.

June

- 16 Discharge High Flow Alarm
- 18 Power Bump

July

- 24 High Level Alarm at Westlinks due to power bumps

August

- 31 RAS low flow alarm

September

- 2 After hours septage drop off
- 7 Power outage
- 14 High wet well alarm
- 16 Harbour St Station motor overload fault
- 20 Power Bumps
- 26 Harbour St Station soft start fault

October

- 3 Harbour St Station pump #2 failure
- 10 Harbour St Station pump failure
- 11 Clarifier #2 failure alarm
- 17 Harbour St Station power outage

November

- 22 Harbour St Station power failure

December

- 6 Power bump
- 11 Power outage