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Overview

The following report was prepared by Ontario Clean Water Agency (OCWA) on behalf of The Corporation of the Township of Lucan Biddulph in accordance with:

- Condition 11(4) (a) through (l) cited in Environmental Compliance Approval #2212-AJSKEV issued March 30, 2017 to The Corporation of the Township of Lucan Biddulph.
- Schedule E (4) cited in Consolidated Linear Infrastructure Environmental Compliance Approval (CLI-ECA) #050-W601 issued December 7, 2022, to The Corporation of the Township of Lucan Biddulph.

System Process Description

The Granton WWTP is located at 34195 Middlesex County Road 59, Ontario. The facility has a rated capacity of 270 m³/d and is comprised of the following components:

- Wastewater collection (WWC) system and pumping station
- Rotating Biological Contractor (RBC) equipped with sedimentation and supplementary treatment system
- Tertiary Filtration
- Disinfection system

Raw Wastewater Collection

The Granton WWC System is operated under CLI-ECA #050-W601. Gravity sewers within Granton are operated by the Township of Lucan Biddulph. For information on this part of the WWC system, refer to Appendix A.

There is one pumping station within the Granton WWC system, operated by OCWA. The Granton Pumping Station has two pumps (1 duty/1 standby) that pumps wastewater through a 150 mm forcemain that leads to the Granton WWTP. A transducer in the Granton Pumping Station wet well monitors the wet well level which controls the pumps as well as high-level alarms. There is also a backup float alarm.

Primary Sedimentation and Rotating Biological Contractor

Raw influent passes through a meter chamber and then into a primary settlement chamber that holds the RBC. The RBC consists of large rotating discs, arranged in four stages to maximize treatment. Influent passes through the RBC assembly and its biological support media. During rotation, approximately 40% of the media surface area is in the wastewater. The rotation and subsequent exposure to oxygen allows organisms to multiply and form a thin layer of biomass. These organisms biologically degrade the organic pollutants.

Excess biomass shears off at a steady rate and is carried through a discharge pipe to the secondary settlement chamber. There, four sludge pumps pump sludge back to the primary settlement chamber for additional processing. Liquid sludge in the chamber flows over a weir and into the clarifier effluent channel for further settling. Effluent then flows into four parallel chambers of the filtration system.

The RBC system is also equipped with chemical storage and day tanks and employs chemical metering pumps and injection into the various stages of the RBC process.

Filtration

Effluent filtration consists of buoyant granular media in four parallel chambers. Solids separate and settle to the bottom of the tank where they are pumped back to the primary settlement chamber for further processing. Filtered effluent passes through an effluent discharge pipe into the Ultraviolet (UV) channel.

Final Effluent Disinfection

UV light inactivates pathogens remaining in the effluent prior to the final effluent being discharged to Cook Drain.

System Facts:

Environmental Compliance Approval
CLI Environmental Compliance Approval
Rated Capacity
Receiving Water

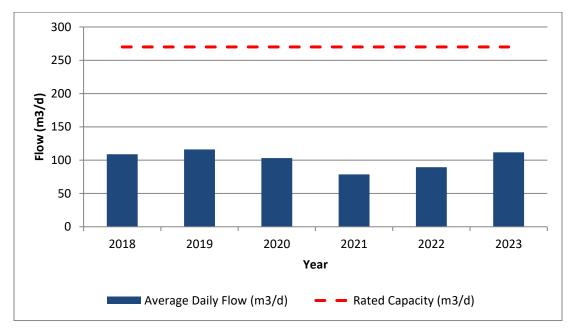
#2212-AJDKEV (issued March 30, 2017) #050-W601 (issued December 7, 2022) 270 m³/d Cook Drain

In 2023, the Granton WWTP was operated in accordance with the provincial regulations as required in ECA #2212-AJDKEV.

Influent Flow Monitoring

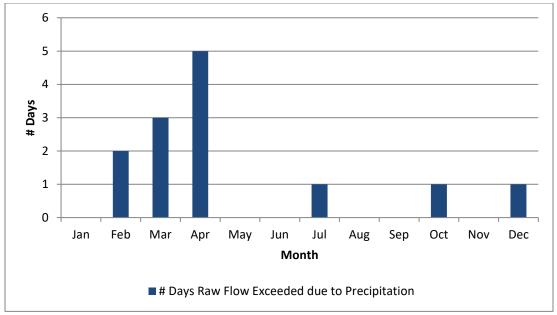
The Granton WWTP is rated to treat an average daily flow of 270 m^3 . Refer to Figure 1 for a comparison of the average daily flow for the last six years against the rated capacity of the plant. The WWTP is at 41% of the rated capacity of 270 m^3 /d.





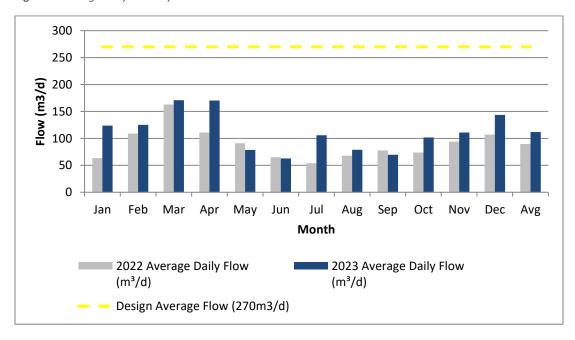
In 2023, there were a total of 13 days where raw flow exceeded the rated capacity of 270 m³/d. This was due to heavy precipitation. Refer to Figure 2 below for the total number of daily exceedances by month.

Figure 2: Number of Days Exceeding Rated Capacity



The raw sewage average daily flow in 2023 was 112 m³/d versus 90 m³/d in 2022. This 25% increase was due to wet weather throughout the year. Refer to Figure 3 for 2023 average daily flows by month and the corresponding annual average.

Figure 3: Average Daily Flows by Month



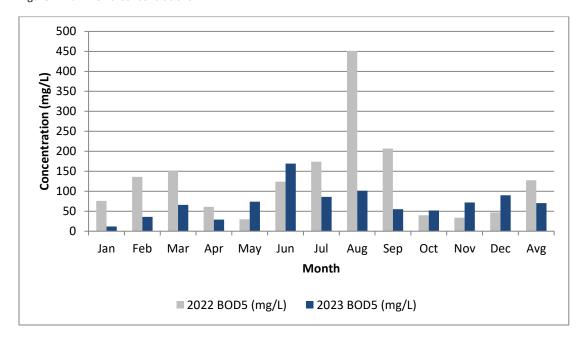
Influent Data

Influent is monitored monthly for Biological Oxygen Demand (BOD₅), Total Suspended Solids (TSS), Total Phosphorous (TP) and Total Kjeldahl Nitrogen (TKN) through a composite sample. In 2023, all

parameters were lower than their 2022 averages. This is likely due to increased precipitation as seen in the increased average daily flow for 2023.

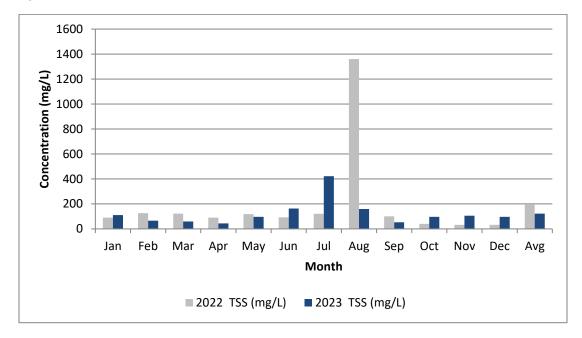
In 2023, the average raw BOD_5 concentration was 70 mg/L, a 45% decrease from 2022. Refer to Figure 4 for a comparison of 2023 monthly raw BOD_5 concentrations to 2022 concentrations.

Figure 4: Raw BOD5 Concentrations



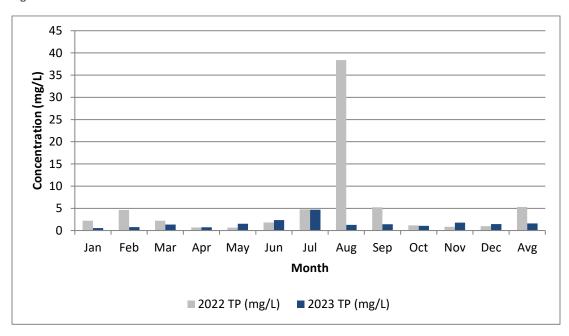
In 2023, the average raw TSS concentration was 123 mg/L, a 37% decrease from 2022. Refer to Figure 5 for a comparison of 2023 monthly raw TSS concentrations to 2022 concentrations.

Figure 5: Raw TSS Concentrations



In 2023, the average raw TP concentration was 1.6 mg/L, a 70% decrease from 2022. Refer to Figure 6 for a comparison of 2023 monthly raw TP concentrations to 2022 concentrations.

Figure 6: Raw TP Concentrations



In 2023, the average raw TKN concentration was 15 mg/L, a 50% decrease from 2022. Refer to Figure 7 for a comparison of 2023 monthly raw TKN concentrations to 2022 concentrations.

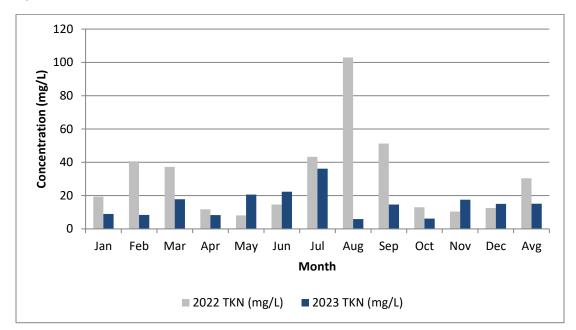


Figure 7: Raw TKN Concentrations

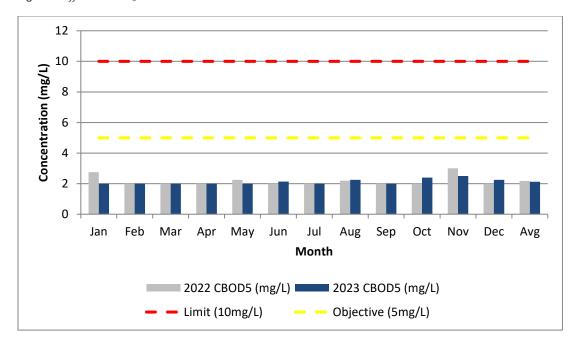
Comparison to Compliance Limits and Objectives

Effluent from the Granton WWTP is sampled weekly by composite sample and analyzed for Carbonaceous Biological Oxygen Demand (CBOD₅), Total Suspended Solids, Total Phosphorous, Total Ammonia Nitrogen (TAN), and Unionized Ammonia. Grab samples are collected weekly and tested for E. coli, pH, Dissolved Oxygen (DO) and Temperature.

Monthly average loading limits met the ECA Limits, refer to Appendix B for the data. For details on objective and limit exceedances, refer to 'Summary of Efforts Made to Achieve Design Objectives'.

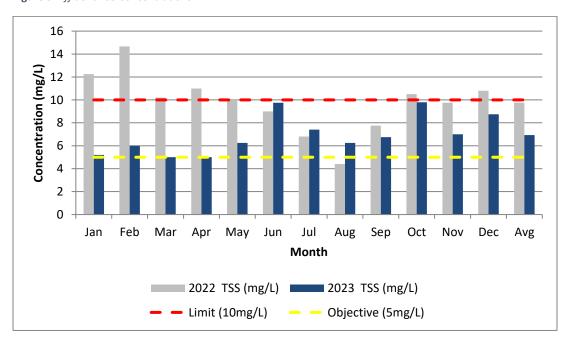
The average monthly effluent $CBOD_5$ concentration in 2023 was 2.1 mg/L, a 2% decrease from 2022. All objectives and limits were met. Refer to Figure 8 for a comparison of 2023 monthly effluent $CBOD_5$ concentrations to 2022 concentrations.

Figure 8: Effluent CBOD₅ Concentrations



The average monthly effluent TSS concentration in 2023 was 6.9 mg/L, a 29% decrease from 2022. In 2023, there were objective exceedances in every month except January, March, and April. Note that January's result is not over the objective, as the significant digits in the monthly average do not exceed the objective. There were no limit exceedances in 2023. Refer to Figure 9 for a comparison of 2023 monthly effluent TSS concentrations to 2022 concentrations.

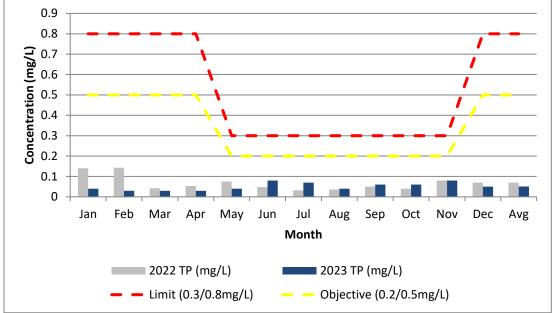
Figure 9: Effluent TSS Concentrations



The average monthly effluent TP concentration in 2023 was 0.1 mg/L, a 27% decrease from 2022. All objectives and limits were met. Refer to Figure 10 for a comparison of 2023 monthly effluent TP concentrations to 2022 concentrations.

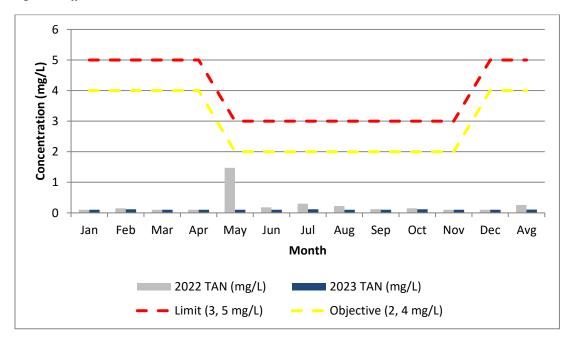


Figure 10: Effluent TP Concentrations



The average monthly effluent TAN concentration in 2023 was 0.1 mg/L, a 60% decrease from 2022. All objectives and limits were met. Refer to Figure 11 for a comparison of 2023 monthly effluent TAN concentrations to 2022 concentrations.

Figure 11: Effluent TAN Concentrations



The average monthly effluent Unionized Ammonia concentration in 2023 was 0.001 mg/L, essentially equal to the annual average in 2022 of 0.003 mg/L. There are no objectives or limits for Unionized Ammonia. Refer to Figure 12 for a comparison of 2023 monthly effluent Unionized Ammonia concentrations to 2022 concentrations.

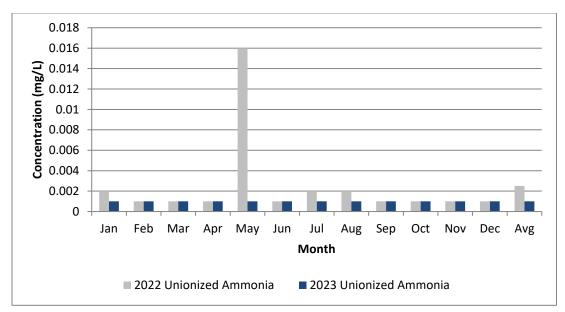


Figure 12: Effluent Unionized Ammonia Concentrations

The monthly geometric mean effluent E. coli concentration in 2023 was 15 cfu/100mL, a 22% increase from 2022. All objectives and limits were met. Refer to Figure 13 for a comparison of 2023 monthly effluent E. coli concentrations to 2022 concentrations.

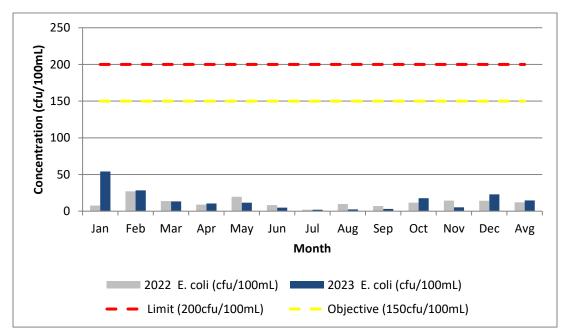
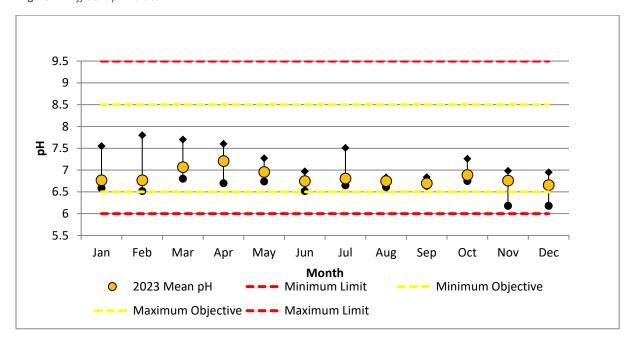


Figure 13: Effluent E. coli Concentrations

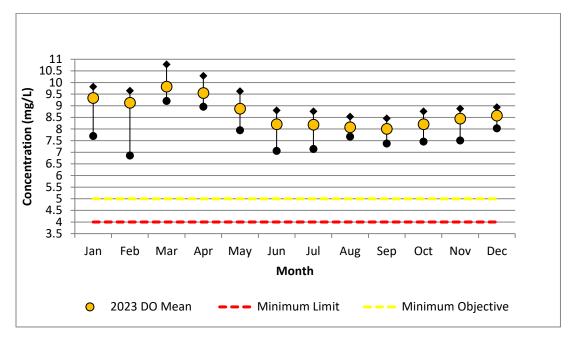
In 2023, effluent pH ranged from 6.18 to 7.8. The minimum pH objective was not met in November and December. However, all limits were met in 2023. Refer to Figure 14 for a comparison of 2023 monthly effluent pH values to the objectives and limits.

Figure 14: Effluent pH Values



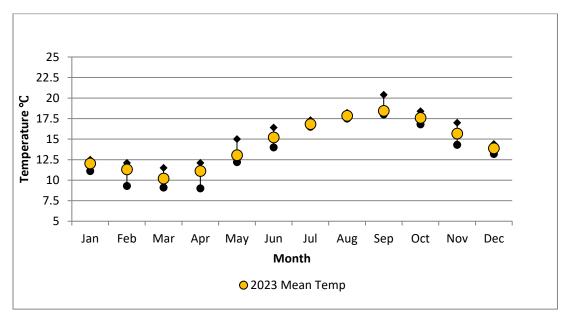
In 2023, DO ranged from 6.86 to 10.78. All objectives and limits were met. Refer to Figure 15 for a comparison of 2023 monthly effluent DO values to the objective and limit.

Figure 15: Effluent DO Concentrations



In 2023, effluent Temperature ranged from 9.0 °C to 20.4 °C. There are no objectives or limits for Temperature. Refer to Figure 16 for monthly effluent Temperature values in 2023.

Figure 16: *Effluent Temperatures*



Operating Problems and Corrective Actions

The largest challenge to the Granton WWTP is its ability to meet the ECA objective for Total Suspended Solids. See 'Summary of Efforts Made to Achieve Design Objectives' for details. In addition, aging infrastructure presents an ongoing operational challenge.

Capital and major maintenance recommendations have been submitted by OCWA to the Township of Lucan Biddulph to address aging infrastructure and ongoing maintenance requirements. Items included on the list for 2024 are:

- RBC Shaft Replacement
- Wet Well Clean Out
- Collection System Infiltration/Inflow Assessment
- Chemical Pump Replacement

Maintenance Activities

Preventative and corrective maintenance is assigned and monitored within the Workplace Management System (WMS) program. Refer to Appendix C for the 2023 maintenance summary. Refer to Table 1 below for a list of repairs and replacements that occurred in 2023.

Table 1: Major Maintenance in 2023

Major Maintenance Wastewater									
Clarifier pump replaced									
RBC motor linkage replaced									
Timer on SAX chemical feed installed									
Gas monitoring unit replaced									
Generator oil line replaced									
Wet well pumps 1 and 2 replaced, new guide rails installed									

Effluent Quality Assurance

Effluent quality assurance is evaluated by monitoring parameters and changes throughout the facility's processes. Operational staff monitor plant performance by performing weekly in-house laboratory analysis on raw sewage and final effluent. Tests include: pH, Temperature, Dissolved Oxygen, Phosphorus, Ammonia, and Total Suspended Solids. Chemical dosages are also monitored and recorded. Data collected from these tests provides valuable information to the operators to make the appropriate adjustments in the treatment process and take corrective actions before the plant reaches its effluent limits.

Calibration Records

Pierce Services & Solutions Inc. calibrated the Granton WWTP influent flow meter on April 4, 2023. The flow meter met the accuracy tolerance of within 15% of the actual flow rate. Operational staff complete routine pH meter calibrations and verifications. Refer to Appendix D for 2023 calibration records.

Summary of Efforts Made to Achieve Design Objectives

In 2023, there were challenges in meeting the Total Suspended Solids objective. This is attributed to variations in contaminate concentrations within the raw water and a lack of flow-paced chemical addition. However, the Granton WWTP saw a 29% decrease from 2022 in the average monthly Total Suspended Solids. There were no limit exceedances in 2023; in comparison, there were six limit exceedances for TSS in 2022. Enhanced sludge hauling and optimization of coagulant dosing is believed to have improved performance in this regard.

In November and December, 2023, there were also challenges meeting the pH objective of 6.5. This was due to optimizing the coagulant dosage which lowered the pH. No limits were exceeded.

Table 2: Summary of Objective Exceedances

Month	Parameter	Concentration (mg/L)	Objective (mg/L)	Issue
February	TSS	6	5	Variations in raw water, lack of flow- paced chemical addition
May	TSS	6.3	5	Variations in raw water, lack of flow- paced chemical addition
June	TSS	9.8	5	Variations in raw water, lack of flow- paced chemical addition
July	TSS	7.4	5	Variations in raw water, lack of flow- paced chemical addition
August	TSS	6.3	5	Variations in raw water, lack of flow- paced chemical addition
September	TSS	6.8	5	Variations in raw water, lack of flow- paced chemical addition
October	TSS	9.8	5	Variations in raw water, lack of flow- paced chemical addition
November	TSS	7.0	5	Variations in raw water, lack of flow- paced chemical addition
December	TSS	8.8	5	Variations in raw water, lack of flow- paced chemical addition
November	pН	6.18	6.5	Optimizing coagulant dosage
December	рН	6.18	6.5	Optimizing coagulant dosage

Sludge Generation

In 2023, the Granton WWTP generated 880.7 m³ of sludge. This sludge was hauled to the Lucan Water Pollution Control Plant (WPCP) digesters. This is a 36% increase in sludge generation compared to the 2022 value of 674 m³. It is estimated that approximately 1000 m³ of sludge will be generated in 2024.

Table 3: Sludge Hauling 2023

Date Hauled	Volume Hauled (m³)	Location Deposited
January 17, 2023	60	Lucan WPCP Digester
January 23, 2023	12.1	Lucan WPCP Digester
January 25, 2023	36.3	Lucan WPCP Digester
February 16, 2023	60.5	Lucan WPCP Digester
March 16, 2023	72.6	Lucan WPCP Digester
April 18, 2023	72.6	Lucan WPCP Digester
May 16, 2023	60.5	Lucan WPCP Digester
June 13, 2023	84.7	Lucan WPCP Digester
July 25, 2023	72.77	Lucan WPCP Digester
August 15, 2023	60	Lucan WPCP Digester
September 13, 2023	72	Lucan WPCP Digester
October 11, 2023	72	Lucan WPCP Digester
November 14, 2023	72	Lucan WPCP Digester
December 12, 2023	72.6	Lucan WPCP Digester

Complaints

There were no complaints received for the Granton WWTP in 2023.

Bypass, Overflows, Spills & Abnormal Discharge Events

The ECA requires additional daily sampling when a bypass or overflow event occurs. There are no designed overflows in the Granton WWTP or WWC system.

On March 25, 2023, there was a bypass event at the Granton WWTP. A windstorm created a power failure and the back-up generator failed. This resulted in a bypass of the UV disinfection system of less than 1 m³ of effluent for 45 minutes. Due to Operator error, neither the Spills Action Centre nor the Medical Officer of Health were notified at the time of the event, nor were samples taken. Consequently, on March 27, 2023, appropriate notifications were made as well as a report of non-compliance to the MECP.

There were no spills or abnormal discharge events in 2023.

Table 4: Bypass Event Summary

Type of Event	Date of Event	Volume Bypassed	Reason for Event
Bypass	March 25, 2023	< 1 m ³	Back-Up Generator Failure

Notice of Modification to the Works

There were no 'Notice of Modification to Sewage Works' forms submitted in 2023.

Summary of Efforts made to achieve conformance with F-5-1

The Township of Lucan Biddulph is a separated collection system, therefore a Pollution Prevention Control Program is not required to be established or maintained. As well, there are no designed overflows in the Granton WWTP or WWC system. A collection system inflow/infiltration assessment has been recommended to be performed in 2024.

There was one bypass at the Granton WWTP that occurred due to a back-up generator failure. Generator maintenance occurs on a bi-annual basis to prevent such incidents.

Appendix A

CLI-ECA Annual Report

Linear Infrastructure Annual Performance Report

Granton Collection System

Prepared by: the Township of Lucan Biddulph

Section 1: Operating Problems and Corrective Actions

Requirement for this section: CLI-ECA Schedule E Condition 4.6.4

No operational problem or corrective Actions

Section 2: Calibration, Maintenance and Repairs

Requirement for this section: CLI-ECA Schedule E Condition 4.6.5

The pumps at the Granton pumping station were replaced. The pumps needed a rebuild, replacement was the better option.

Section 3: Alterations to the System

Requirement for this section: CLI-ECA Schedule E Condition 4.6.7

No alterations.

Section 4: Community Complaints and Concerns

Requirement for this section: CLI-ECA Schedule E Condition 4.6.6

No complaints or concerns

Section 5: Spills of Sewage

Requirement for this section: CLI-ECA Schedule E Condition 4.6.3, 4.6.8, 4.6.9

No spills. No efforts conducted to collection system overflows.

Appendix B

Monitoring Data



Performance Assessment Report

From 1/1/2023 to 12/31/2023 11:59:59 PM

	1 / 2023	2/ 2023	3/ 2023	4/ 2023	5/ 2023	6/ 2023	7/ 2023	8/ 2023	9/ 2023	10/ 2023	11/ 2023	12/ 2023	<total></total>	<avg></avg>	<max></max>	<-Criteria->
Flows						-							111	1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		
Raw Flow: Total - Raw Sewage m³/d	3,835.10	3,504.97	5,299.01	5,110.00	2,431.00	1,880.96	3,282.07	2,440.02	2,086.04	3,153.99	3,327.05	4,446.94	40,797.15			0.00
Raw Flow: Avg - Raw Sewage m³/d	123.71	125.18	170.94	170.33	78.42	62.70	105.87	78.71	69.53	101.74	110.90	143.45		0.00		270.00
Raw Flow: Max - Raw Sewage m³/d	265.08	392.99	463.00	497.00	121.95	97.96	333.98	149.05	109.91	340.99	266.98	300.01			497.00	0.00
Eff. Flow: Total - Final Effluent m³/d	3,835.10	3,504.97	5,299.01	5,110.00	2,431.00	1,880.96	3,282.07	2,440.02	2,086.04	3,153.99	3,327.05	4,446.94	40,797.15			0.00
Eff. Flow: Avg - Final Effluent m³/d	123.71	125.18	170.94	170.33	78.42	62.70	105.87	78.71	69.53	101.74	110.90	143.45		111.77		270.00
Eff. Flow: Max - Final Effluent m³/d	247.95	392.99	463.00	497.00	121.95	97.96	333.98	149.05	109.91	340.99	266.98	300.01			497.00	0.00
Eff Flow: Count - Final Effluent m³/d	31.00	28.00	31.00	30.00	31.00	30.00	31.00	31.00	30.00	31.00	30.00	31.00	365.00			0.00
Carbonaceous Biochemical Oxygen Demand: CBOD									-							
Eff: Avg cBOD5 - Final Effluent mg/L	2.00 <	2.00 <	2.00 <	2.00 <	2.00 <	2.13 <	2.00 <	2.25 <	2.00 <	2.40 <	2.50 <	2.25		2.13	< 2.50	10.00
Eff: # of samples of cBOD5 - Final Effluent	4.00	5.00	4.00	4.00	4.00	8.00	5.00	4.00	4.00	5.00	4.00	4.00	55.00			0.00
Loading: cBOD5 - Final Effluent kg/d	0.247 <	0.250 <	0.342 <	0.341 <	0.157 <	0.133 <	0.212 <	0.177 <	0.139 <	0.244 <	0.277 <	0.323		0.24	< 0.34	2.700
الت Biochemical Oxygen Demand: BOD5	JL	JLILJI		L						JLJU	I	ILIL				
Raw: Avg BOD5 - Raw Sewage mg/L	12.00	36.00	66.00	29.00	74.00	169.00	86.00	101.00	55.00	52.00	72.00	90.00		70.17	169.00	0.00
Raw: # of samples of BOD5 - Raw Sewage	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			0.00
Total Suspended Solids: TSS																
Raw: Avg TSS - Raw Sewage mg/L	111.00	66.00	59.00	44.00	97.00	163.00	422.00	160.00	53.00	96.00	106.00	97.00		122.83	422.00	0.00
Raw: # of samples of TSS - Raw Sewage	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			0.00
Eff: Avg TSS - Final Effluent mg/L	5.20	6.00	5.00	5.00	6.25	9.75	7.40	6.25	6.75	9.80	7.00	8.75		7.14	9.80	10.00
Eff: # of samples of TSS - Final Effluent	5.00	5.00	4.00	4.00	4.00	8.00	5.00	4.00	4.00	5.00	4.00	4.00	56.00			0.00
Loading: TSS - Final Effluent kg/d	0.643	0.751	0.855	0.852	0.490	0.611	0.783	0.492	0.469	0.997	0.776	1.255		0.80	1.26	2.700
Percent Removal: TSS - Raw Sewage %	95.32	90.91	91.53	88.64	93.56	94.02	98.25	96.09	87.26	89.79	93.40	90.98		92.48	98.25	0.00
Total Phosphorus: TP																
Raw: Avg TP - Raw Sewage mg/L	0.56	0.75	1.36	0.73	1.54	2.36	4.70	1.29	1.42	1.07	1.77	1.47		1.59	4.70	0.00
Raw: # of samples of TP - Raw Sewage	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			0.00
Eff: Avg TP - Final Effluent mg/L	0.04 <	0.03 <	0.03 <	0.03 <	0.04 <	0.08	0.07 <	0.04	0.06	0.06	0.08	0.05		0.05	< 0.08	0.80
Eff: # of samples of TP - Final Effluent	4.00	5.00	4.00	4.00	4.00	8.00	5.00	4.00	4.00	5.00	4.00	4.00	55.00	1		0.00
Loading: TP - Final Effluent kg/d	0.004 <	0.004 <	0.006 <	0.005 <	0.003 <	0.005	0.008 <	0.003	0.004	0.006	0.009	0.006		0.01	< 0.01	0.081
Percent Removal: TP - Raw Sewage %	93.75	95.73	97.61	95.89	97.73	96.56	98.47	97.09	95.77	94.58	95.48	96.94		96.30	98.47	0.00
Nitrogen Series																



Performance Assessment Report

03/18/2024

From 1/1/2023 to 12/31/2023 11:59:59 PM

Page 2 of 2

Raw: # of samples of TKN - Raw Sewage
Eff: Avg TAN - Final Effluent mg/L

Eff: # of samples of TAN - Final Effluent Loading: TAN - Final Effluent kg/d

Disinfection

Eff: GMD E. Coli - Final Effluent cfu/100mL Eff: # of samples of E. Coli - Final Effluent

	1.00		.00	1.00	1.	00	1.00	\coprod	1.00	1.00		1.00	1.00	Ш	1.00	1.00		1.00	12.00				0.00
<	0.10	<).12	0.10	< 0	10 <	0.10	<	0.10 <	0.12	<	0.10	0.10	<	0.12	0.10	<	0.10		<	0.11		5.00
	4.00		5.00	4.00	4	00	4.00		8.00	5.00		4.00	4.00		5.00	4.00		4.00	55.00				0.00
<	0.012	< 0	015 <	0.017	< 0.0	17 <	0.008	<	0.006 <	0.013	<	0.008	0.007	<	0.012 <	0.011	<	0.014		<	0.01	0.02	0.810

54.21	28.48	13.26	10.46	11.63	4.89	2.00	2.38	2.99	17.62	5.37	22.89			200.00
4.00	5.00	4.00	4.00	4.00	5.00	5.00	4.00	4.00	4.00	5.00	4.00	52.00		0.00

Appendix C

Maintenance Summary

Workorder Summary Report

					Work	korder Details	
WO#	Asset ID	Asset Description	Location Description	Class	Work Order Description	Schedule	Actual
						Start	Finsh
3156576	0000277925	GEAR DRIVE REDUCTION	1261, Granton Wastewater System, Process, Headworks	Refurbish/Replace/Repair	Gear Drive Reduction Insp/Service (1y) 1261	1/1/23 12:00 AM	10/16/23 12:48 PM
3156579	0000277924	MOTOR ROTATING DRUM RBC	1261, Granton Wastewater System, Process, Headworks	Refurbish/Replace/Repair	Motor Rotating Drum Rbc Insp/Service (1y) 1261	1/1/23 12:00 AM	10/16/23 01:36 PM
3156582			1261, Granton Wastewater System	·	Pump Cent Clarifier Insp/Service (1y) 1261	1/1/23 12:00 AM	4/25/23 12:40 PM
<u>3156585</u>			1261, Granton Wastewater System	Refurbish/Replace/Repair	Pump Subm Bugs Filter Insp/Service (1y) 1261	1/1/23 12:00 AM	5/3/23 11:27 AM
3156594	0000278251	PUMP SUBMERSIBLE 01	1261, Granton Wastewater System, Process, Headworks	Refurbish/Replace/Repair	Pump Subm 01 Sewage Insp/Service (1y) 1261	1/1/23 12:00 AM	6/8/23 09:10 AM
3156603	0000278252	PUMP SUBMERSIBLE 02	1261, Granton Wastewater System, Process, Headworks	·	Pump Subm 02 Sewage Insp/Service (1y) 1261	1/1/23 12:00 AM	6/8/23 09:14 AM
3156612	0000277913	SAMPLER 01 AUTO	1261, Granton Wastewater System, Process, Process Control & Monitoring	Refurbish/Replace/Repair	Sampler 01 Insp/Service (1y) 1261	1/1/23 12:00 AM	5/3/23 11:26 AM
3156865			1261, Granton Wastewater System	Inspection	Critical Alarm Testing (1m) 1261	1/1/23 12:00 AM	1/19/23 12:59 PM
3156870			1261, Granton Wastewater System	Inspection	Daily O&M Activities Granton Wastewater System (1y) 1261	1/1/23 12:00 AM	1/3/24 11:17 AM
3156875			1261, Granton Wastewater System	Inspection	TPM Insp/Maint Granton Wastewater System (1y) 1261	1/1/23 12:00 AM	1/3/24 01:53 PM
3157035	0000277912	ENGINE DIESEL GENERATOR	1261, Granton Wastewater System, Facility, Power Generation	Inspection	Engine Diesel Granton WW Insp/Test (1m) 1261	1/1/23 12:00 AM	1/22/23 05:44 PM
3157528			1261, Granton Wastewater System	Health and Safety	WHMIS/MSDS/NSF Review	1/1/23 12:00 AM	3/17/23 02:23 PM
3157911			1261, Granton Wastewater System	Compliance	Sampling and Testing (1y) 1261	1/1/23 12:00 AM	1/3/24 01:53 PM
3157972			1261, Granton Wastewater System	Inspection	PH Probe Insp/Calib (1m) 1261	1/1/23 12:00 AM	1/8/23 11:27 AM
3167186	0000310822	PORTABLE EYE WASH - GRANTON	1261, Granton Wastewater System, Facility	Health and Safety	Safety Eye Wash/Shower (3m) Inspection 1261	1/1/23 12:00 AM	1/5/23 01:30 PM
3177919			1261, Granton Wastewater System	Refurbish/Replace/Repair	Fan Route Insp/Service (1y) 1261	1/1/23 12:00 AM	2/24/23 10:41 AM
3177926			1261, Granton Wastewater System	Refurbish/Replace/Repair	Panel Control Insp/Service (1y) 1261	1/1/23 12:00 AM	10/16/23 01:30 PM
3180441	0000310822	PORTABLE EYE WASH - GRANTON	1261, Granton Wastewater System, Facility	Health and Safety	Fire Protection Insp/Service (1m) - 1261	1/1/23 12:00 AM	1/5/23 01:29 PM

3180447		PORTABLE EYE WASH - GRANTON RBC	1261, Granton Wastewater System, Facility	Inspection	Greasing Equipment (1m) 1261	1/1/23 12:00 AM	1/11/23 09:38 AM
3202257			1261, Granton Wastewater System	Compliance	WISKI Data Review (1m)	1/7/23 12:00 AM	1/11/23 12:49 PM
3202334		PORTABLE EYE WASH - GRANTON RBC	1261, Granton Wastewater System, Facility	Compliance	RP03 Annual Report ECA (1y) 1261	1/7/23 12:00 AM	3/17/23 02:16 PM
3203359	0000310822	PORTABLE EYE	1261, Granton Wastewater	Compliance	WSER Quarterly Reporting	1/12/23 12:00 AM	1/16/23 01:02 PM
3204093			Granton Wastewater System	Refurbish/Replace/Repair	Granton SPS pump #2 fault/fail/clog 2023		2/5/24 01:01 PM
3205061			1261, Granton Wastewater System	Compliance	WISKI Data Entry (1m) 1261	1/20/23 12:00 AM	2/27/23 01:42 PM
3205675			Granton Wastewater System	Refurbish/Replace/Repair	loss January 2023		2/2/23 08:03 PM
		GEAR DRIVE REDUCTION	1261, Granton Wastewater System, Process, Headworks		point 1261		1/25/23 03:29 PM
3211650			1261, Granton Wastewater System	Refurbish/Replace/Repair	Spill Kit Insp (6m) 1261	2/1/23 12:00 AM	2/17/23 01:31 PM
3211652			1261, Granton Wastewater System	Inspection	Critical Alarm Testing (1m) 1261	2/1/23 12:00 AM	2/24/23 10:38 AM
<u>3211657</u>			1261, Granton Wastewater System	Health and Safety	MSDS Review - (6m) 1261	2/1/23 12:00 AM	3/9/23 11:25 AM
3211779		ENGINE DIESEL GENERATOR	1261, Granton Wastewater System, Facility, Power Generation	Inspection	Engine Diesel Granton WW Insp/Test (1m) 1261	2/1/23 12:00 AM	2/24/23 10:37 AM
3212517			1261, Granton Wastewater System	Inspection	PH Probe Insp/Calib (1m) 1261	2/1/23 12:00 AM	2/4/23 01:20 PM
3228166		PORTABLE EYE WASH - GRANTON	1261, Granton Wastewater System, Facility	Health and Safety	Fire Protection Insp/Service (1m) - 1261	2/1/23 12:00 AM	2/7/23 02:47 PM
3228172		PORTABLE EYE WASH - GRANTON	1261, Granton Wastewater System, Facility	Inspection	Greasing Equipment (1m) 1261	2/1/23 12:00 AM	2/7/23 02:48 PM
3243957			Granton Wastewater System	Refurbish/Replace/Repair	1261 Granton SPS clogged		1/3/24 01:53 PM
3244612			1261, Granton Wastewater System	Compliance	WISKI Data Review (1m)	2/7/23 12:00 AM	2/23/23 10:41 AM
3245777			Granton Wastewater System	Refurbish/Replace/Repair	Granton RBC Pax chemical delivery		2/14/23 03:23 PM
3246019	0000278252	PUMP SUBMERSIBLE 02 SEWAGE	1261, Granton Wastewater System, Process, Headworks	Refurbish/Replace/Repair	Replaced pump#2 with a new one, send old one away for possible rebuild. 1261		2/16/23 08:02 AM
3246507			1261, Granton Wastewater System	Compliance	WISKI Data Entry (1m) 1261	2/20/23 12:00 AM	2/27/23 01:42 PM
3253113			1261, Granton Wastewater System	Calibration	Flow Meters/Miltronics Insp (1y) 1261	3/1/23 12:00 AM	4/6/23 12:06 PM
3253118			1261, Granton Wastewater System	Inspection	Critical Alarm Testing (1m) 1261	3/1/23 12:00 AM	3/31/23 01:14 PM
3253218		ENGINE DIESEL GENERATOR	1261, Granton Wastewater System, Facility, Power Generation	Inspection	Engine Diesel Granton WW Insp/Test (1m) 1261	3/1/23 12:00 AM	3/30/23 12:30 PM

3253683			1261, Granton Wastewater System	Health and Safety	OG15 Facility OHSA Inspection (1y) 1261	3/1/23 12:00 AM	3/3/23 02:03 PM
<u>3254014</u>			1261, Granton Wastewater System	Inspection	PH Probe Insp/Calib (1m) 1261	3/1/23 12:00 AM	4/19/23 03:53 PM
3271153		PORTABLE EYE WASH - GRANTON	1261, Granton Wastewater System, Facility	Health and Safety	Fire Protection Insp/Service (1m) - 1261	3/1/23 12:00 AM	3/3/23 02:02 PM
3271159		PORTABLE EYE WASH - GRANTON RBC	1261, Granton Wastewater System, Facility	Inspection	Greasing Equipment (1m) 1261	3/1/23 12:00 AM	3/8/23 03:34 PM
3288321			1261, Granton Wastewater System	Compliance	WISKI Data Review (1m)	3/7/23 12:00 AM	3/23/23 11:47 AM
3290026			Granton Wastewater System	Refurbish/Replace/Repair	Pulled Granton Clarifier pump #1		5/25/23 01:51 PM
3290132			1261, Granton Wastewater System	Compliance	WISKI Data Entry (1m) 1261	3/20/23 12:00 AM	3/24/23 10:38 AM
3290793			1261, Granton Wastewater System, Process, Secondary Treatment	Refurbish/Replace/Repair	1261 Granton replaced clarifier pumps 1 and 2 for new and installed		3/23/23 08:39 PM
3297948			1261, Granton Wastewater System	Refurbish/Replace/Repair	Generator Insp (6m) 1261	4/1/23 12:00 AM	4/4/23 10:58 AM
3297950			1261, Granton Wastewater System	Inspection	Critical Alarm Testing (1m) 1261	4/1/23 12:00 AM	4/21/23 03:44 PM
3298085	0000277912	ENGINE DIESEL GENERATOR	1261, Granton Wastewater System, Facility, Power Generation	Inspection	Engine Diesel Granton WW Insp/Test (1m) 1261	4/1/23 12:00 AM	4/14/23 11:09 AM
3298919			1261, Granton Wastewater System	Inspection	PH Probe Insp/Calib (1m) 1261	4/1/23 12:00 AM	4/20/23 12:50 PM
3306430	0000310822	PORTABLE EYE WASH - GRANTON RBC	1261, Granton Wastewater System, Facility	Health and Safety	Safety Eye Wash/Shower (3m) Inspection 1261	4/1/23 12:00 AM	4/4/23 10:52 AM
3317921	0000310822	PORTABLE EYE WASH - GRANTON RBC	1261, Granton Wastewater System, Facility	Health and Safety	Fire Protection Insp/Service (1m) - 1261	4/1/23 12:00 AM	4/4/23 10:53 AM
3317927		PORTABLE EYE WASH - GRANTON	1261, Granton Wastewater System, Facility	Inspection	Greasing Equipment (1m) 1261	4/1/23 12:00 AM	4/4/23 10:54 AM
3338750			1261, Granton Wastewater System	Compliance	WISKI Data Review (1m)	4/7/23 12:00 AM	4/24/23 03:04 PM
	0000310822	PORTABLE EYE	1261, Granton Wastewater	Compliance	WSER Quarterly Reporting	4/12/23 12:00 AM	4/24/23 03:23 PM
3339820			Granton Wastewater System	Refurbish/Replace/Repair	1261 Granton RBC communication loss within 2023		1/3/24 01:54 PM
3340723			1261, Granton Wastewater System	Compliance	WISKI Data Entry (1m) 1261	4/20/23 12:00 AM	4/20/23 12:51 PM
3347104			1261, Granton Wastewater System	Refurbish/Replace/Repair	Wet Well Insp (6m) 1261	5/1/23 12:00 AM	5/3/23 11:24 AM
3347106			1261, Granton Wastewater System	Inspection	Critical Alarm Testing (1m) 1261	5/1/23 12:00 AM	5/19/23 03:19 PM
3347224	0000277912	ENGINE DIESEL GENERATOR	1261, Granton Wastewater System, Facility, Power Generation	Inspection	Engine Diesel Granton WW Insp/Test (1m) 1261	5/1/23 12:00 AM	5/26/23 03:48 PM
3347702			1261, Granton Wastewater System	Compliance	OG35 FEP Review (1y) 1261	5/1/23 12:00 AM	9/11/23 02:28 PM

3365525	0000310822	PORTABLE EYE WASH - GRANTON	1261, Granton Wastewater System, Facility	Health and Safety	Fire Protection Insp/Service (1m) - 1261	5/1/23 12:00 AM	5/3/23 11:19 AM
		PORTABLE EYE WASH - GRANTON	1261, Granton Wastewater System, Facility	Inspection	Greasing Equipment (1m) 1261	5/1/23 12:00 AM	5/17/23 03:47 PM
3384002			1261, Granton Wastewater System	Compliance	WISKI Data Review (1m)	5/7/23 12:00 AM	5/24/23 10:32 AM
3386121			1261, Granton Wastewater System	Compliance	WISKI Data Entry (1m) 1261	5/20/23 12:00 AM	5/26/23 08:28 AM
3387642			Granton Wastewater System	·	2023 deep cleans of clarifier/channels Granton RBC 1261		1/3/24 01:54 PM
3393094			1261, Granton Wastewater System	Refurbish/Replace/Repair	Gas Analyzers Insp (1y) 1261	6/1/23 12:00 AM	7/7/23 10:24 AM
3393098			1261, Granton Wastewater System	Inspection	Critical Alarm Testing (1m) 1261	6/1/23 12:00 AM	6/27/23 03:53 PM
3393215	0000277912	ENGINE DIESEL GENERATOR	1261, Granton Wastewater System, Facility, Power Generation	Inspection	Engine Diesel Granton WW Insp/Test (1m) 1261	6/1/23 12:00 AM	6/27/23 03:49 PM
3410889	0000248901	ANALYZER GAS DETECTION	1261, Granton Wastewater System	Calibration	Analyzer Gas Granton Rbc Analyzer Gas Calib (6m)	6/1/23 12:00 AM	7/7/23 10:50 AM
		PORTABLE EYE WASH - GRANTON	1261, Granton Wastewater System, Facility	Health and Safety	Fire Protection Insp/Service (1m) - 1261	6/1/23 12:00 AM	6/7/23 10:30 AM
3412872	0000310822	PORTABLE EYE WASH - GRANTON	1261, Granton Wastewater System, Facility	Inspection	Greasing Equipment (1m) 1261	6/1/23 12:00 AM	6/19/23 06:35 AM
3431557			1261, Granton Wastewater System	Compliance	WISKI Data Review (1m)	6/7/23 12:00 AM	6/15/23 11:02 AM
3434513			1261, Granton Wastewater System	Compliance	WISKI Data Entry (1m) 1261	6/20/23 12:00 AM	6/28/23 02:23 PM
3441904			1261, Granton Wastewater System	Inspection	Critical Alarm Testing (1m) 1261	7/1/23 12:00 AM	7/19/23 08:06 AM
3442006	0000277912	ENGINE DIESEL GENERATOR	1261, Granton Wastewater System, Facility, Power Generation	Inspection	Engine Diesel Granton WW Insp/Test (1m) 1261	7/1/23 12:00 AM	7/19/23 08:05 AM
3449563	0000310822	PORTABLE EYE WASH - GRANTON	1261, Granton Wastewater System, Facility	Health and Safety	Safety Eye Wash/Shower (3m) Inspection 1261	7/1/23 12:00 AM	8/25/23 10:28 AM
3460275	0000310822	PORTABLE EYE	1261, Granton Wastewater	Health and Safety	Fire Protection Insp/Service	7/1/23 12:00 AM	7/19/23 02:43 PM
3460281	0000310822	PORTABLE EYE WASH - GRANTON	1261, Granton Wastewater System, Facility	Inspection	Greasing Equipment (1m) 1261	7/1/23 12:00 AM	7/12/23 02:35 PM
3480032			1261, Granton Wastewater System	Compliance	WISKI Data Review (1m)	7/7/23 12:00 AM	7/25/23 02:28 PM
		PORTABLE EYE	1261, Granton Wastewater	Compliance	WSER Quarterly Reporting	7/12/23 12:00 AM	7/25/23 01:09 PM
<u>3481877</u>	0000278251	PUMP SUBMERSIBLE 01 SEWAGE	1261, Granton Wastewater System, Process, Headworks	Refurbish/Replace/Repair	Pulled both pumps and removed debris from impellors 1261		7/14/23 08:54 AM
3482581			1261, Granton Wastewater System	Compliance	WISKI Data Entry (1m) 1261	7/20/23 12:00 AM	7/21/23 02:03 PM
3489211			1261, Granton Wastewater System	Refurbish/Replace/Repair	Spill Kit Insp (6m) 1261	8/1/23 12:00 AM	8/25/23 10:27 AM
3489213			1261, Granton Wastewater System	Inspection	Critical Alarm Testing (1m) 1261	8/1/23 12:00 AM	8/15/23 06:27 PM
3489218			1261, Granton Wastewater System	Health and Safety	MSDS Review - (6m) 1261	8/1/23 12:00 AM	9/8/23 03:20 PM

3489377	0000277912	ENGINE DIESEL GENERATOR	1261, Granton Wastewater System, Facility, Power Generation	Inspection	Engine Diesel Granton WW Insp/Test (1m) 1261	8/1/23 12:00 AM	8/16/23 03:22 PM
		PORTABLE EYE WASH - GRANTON	1261, Granton Wastewater System, Facility	Health and Safety	Fire Protection Insp/Service (1m) - 1261	8/1/23 12:00 AM	8/10/23 02:31 PM
3506002	0000310822	PORTABLE EYE WASH - GRANTON	1261, Granton Wastewater System, Facility	Inspection	Greasing Equipment (1m) 1261	8/1/23 12:00 AM	8/10/23 02:30 PM
3523382			1261, Granton Wastewater System	Compliance	WISKI Data Review (1m) 1261	8/7/23 12:00 AM	8/14/23 01:54 PM
<u>3525846</u>			1261, Granton Wastewater System	Compliance	WISKI Data Entry (1m) 1261	8/20/23 12:00 AM	9/5/23 02:45 PM
3533232			1261, Granton Wastewater System	Inspection	Critical Alarm Testing (1m) 1261	9/1/23 12:00 AM	10/6/23 02:15 PM
		ENGINE DIESEL GENERATOR	1261, Granton Wastewater System, Facility, Power Generation	Inspection	Engine Diesel Granton WW Insp/Test (1m) 1261	9/1/23 12:00 AM	9/19/23 10:07 AM
<u>3551756</u>	0000310822	PORTABLE EYE WASH - GRANTON	1261, Granton Wastewater System, Facility	Health and Safety	Fire Protection Insp/Service (1m) - 1261	9/1/23 12:00 AM	9/6/23 02:44 PM
3551762	0000310822	PORTABLE EYE WASH - GRANTON	1261, Granton Wastewater System, Facility	Inspection	Greasing Equipment (1m) 1261	9/1/23 12:00 AM	9/6/23 02:43 PM
<u>3571458</u>			1261, Granton Wastewater System	Compliance	WISKI Data Review (1m) 1261	9/7/23 12:00 AM	9/18/23 11:52 AM
3574147			1261, Granton Wastewater System	Compliance	WISKI Data Entry (1m) 1261	9/20/23 12:00 AM	10/11/23 07:30 AM
3575064			Granton Wastewater System	Refurbish/Replace/Repair	1261 Chemical receiving Granton RBC		1/3/24 01:54 PM
3582048			1261, Granton Wastewater System	Refurbish/Replace/Repair	Generator Insp (6m) 1261	10/1/23 12:00 AM	10/12/23 12:08 PM
3582050			1261, Granton Wastewater System	Inspection	Critical Alarm Testing (1m) 1261	10/1/23 12:00 AM	10/6/23 02:14 PM
<u>3582185</u>	0000277912	ENGINE DIESEL GENERATOR	1261, Granton Wastewater System, Facility, Power Generation	Inspection	Engine Diesel Granton WW Insp/Test (1m) 1261	10/1/23 12:00 AM	10/12/23 12:05 PM
3589256	0000310822	PORTABLE EYE WASH - GRANTON	1261, Granton Wastewater System, Facility	Health and Safety	Safety Eye Wash/Shower (3m) Inspection 1261	10/1/23 12:00 AM	10/4/23 09:44 AM
3600742	0000310822	PORTABLE EYE WASH - GRANTON	1261, Granton Wastewater System, Facility	Health and Safety	Fire Protection Insp/Service (1m) - 1261	10/1/23 12:00 AM	10/4/23 09:45 AM
3600748	0000310822	PORTABLE EYE WASH - GRANTON RBC	1261, Granton Wastewater System, Facility	Inspection	Greasing Equipment (1m) 1261	10/1/23 12:00 AM	10/17/23 01:48 PM
3621198			Granton Wastewater System	Refurbish/Replace/Repair	1261 Deep flush Granton - channels/UV		10/12/23 12:09 PM
3621275			Granton Wastewater System	Refurbish/Replace/Repair	1261 Granton partial power outage/generator fail Oct 05, 2023		10/6/23 09:00 AM
3621334			1261, Granton Wastewater System	Compliance	WISKI Data Review (1m) 1261	10/7/23 12:00 AM	10/20/23 01:48 PM
3622695	0000310822	PORTABLE EYE	1261, Granton Wastewater	Compliance	WSER Quarterly Reporting	10/12/23 12:00 AM	10/20/23 05:10 PM

		WASH - GRANTON	System, Facility		(3m) 1261	l	1
3623421			Granton Wastewater System	Refurbish/Replace/Repair	1261 granton RBC -RBC under current alarm October 2023		10/30/23 02:56 PM
3623776			1261, Granton Wastewater System	Compliance	WISKI Data Entry (1m) 1261	10/20/23 12:00 AM	11/7/23 01:36 PM
<u>3630183</u>			1261, Granton Wastewater System	Refurbish/Replace/Repair	Wet Well Insp (6m) 1261	11/1/23 12:00 AM	2/7/24 09:59 AM
<u>3630185</u>			1261, Granton Wastewater System	Inspection	Critical Alarm Testing (1m) 1261	11/1/23 12:00 AM	11/21/23 02:01 PM
3630297	0000277912	ENGINE DIESEL GENERATOR	1261, Granton Wastewater System, Facility, Power Generation	Inspection	Engine Diesel Granton WW Insp/Test (1m) 1261	11/1/23 12:00 AM	11/22/23 02:38 PM
3646063		PORTABLE EYE WASH - GRANTON	1261, Granton Wastewater System, Facility	Health and Safety	Fire Protection Insp/Service (1m) - 1261	11/1/23 12:00 AM	11/5/23 07:58 PM
3646069		PORTABLE EYE WASH - GRANTON RBC	1261, Granton Wastewater System, Facility	Inspection	Greasing Equipment (1m) 1261	11/1/23 12:00 AM	11/7/23 01:34 PM
3662710			1261, Granton Wastewater System	Compliance	WISKI Data Review (1m) 1261	11/7/23 12:00 AM	11/24/23 02:33 PM
<u>3665176</u>			1261, Granton Wastewater System	Compliance	WISKI Data Entry (1m) 1261	11/20/23 12:00 AM	12/7/23 02:26 PM
3671344			1261, Granton Wastewater System	Inspection	Critical Alarm Testing (1m) 1261	12/1/23 12:00 AM	1/3/24 01:55 PM
3671472	0000277912	ENGINE DIESEL GENERATOR	1261, Granton Wastewater System, Facility, Power Generation	Inspection	Engine Diesel Granton WW Insp/Test (1m) 1261	12/1/23 12:00 AM	1/3/24 01:55 PM
3672069			1261, Granton Wastewater System	Compliance	Operation SOP Manual Review and Update (2y) 1261	12/1/23 12:00 AM	2/1/24 12:38 PM
3687560		PORTABLE EYE WASH - GRANTON	1261, Granton Wastewater System, Facility	Health and Safety	Fire Protection Insp/Service (1m) - 1261	12/1/23 12:00 AM	12/8/23 02:07 PM
3687566	0000310822	PORTABLE EYE WASH - GRANTON	1261, Granton Wastewater System, Facility	Inspection	Greasing Equipment (1m) 1261	12/1/23 12:00 AM	12/8/23 02:08 PM
3703919			1261, Granton Wastewater System	Compliance	WISKI Data Review (1m) 1261	12/7/23 12:00 AM	12/22/23 11:47 AM
3706287			1261, Granton Wastewater System	Compliance	WISKI Data Entry (1m) 1261	12/20/23 12:00 AM	12/21/23 10:35 AM

Appendix D 2023 Calibration Report



Instrument Verification Sheet

519.820.4853 Fax 519.824.9402

Client Name: Ontario Clean Water Agency Date: April 4, 2023

Equipment Description: Flow Transmitter Assigned Number: Influent FIT 1003

Area Located: Granton WPCP AMMS Number: N/A

Instrument Data

Manufacturer: ABB Model Number: Magmaster

Type:Magmeter Size: 100 mm Serial Number: 3K22-54399

Range: 0-50 l/s Accuracy: +/- 5%

Method Of Calibration: Standard Verification Application: Waste Water

Calibration Data

Input	Theoretical	Acctual	Pass/Fail
4.0 mA	0.00 l/s	0.00 l/s	
8.0 mA	12.50 l/s	12.55 l/s	Pass
12.0 mA	25.00 l/s	25.21 l/s	Pass
16.0 mA	37.50 l/s	37.55 l/s	Pass
20.0 mA	50.00 l/s	50.00 l/s	Pass
8.03 mA	12.6 l/s	12.6 l/s	Pass
	4.0 mA 8.0 mA 12.0 mA 16.0 mA 20.0 mA	4.0 mA 0.00 l/s 8.0 mA 12.50 l/s 12.0 mA 25.00 l/s 16.0 mA 37.50 l/s 20.0 mA 50.00 l/s	4.0 mA 0.00 l/s 0.00 l/s 8.0 mA 12.50 l/s 12.55 l/s 12.0 mA 25.00 l/s 25.21 l/s 16.0 mA 37.50 l/s 37.55 l/s 20.0 mA 50.00 l/s 50.00 l/s

Confirmed Run Mode: ✓

Placed back in service: ✓

Comments:

Verification of original calibration only.

Checked By: Greg Pierce CCST

Electronics are beginning to fail. Will monitor

Signature: