ANNUAL REPORT

MOUNT FOREST WASTEWATER TREATMENT SYSTEM

FOR THE PERIOD: JANUARY 1, 2020 – DECEMBER 31, 2020

Prepared for the Township of Wellington North by the Ontario Clean Water Agency





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1. System Description

In November 2008, the Mount Forest Water Pollution Control Plant began operation. The plant consists of a raw water pumping station, which used to be the old sewage treatment plant. This flow now enters the new Influent Works building which contains a vertical bar screen, a washer screw compactor, a circular grit chamber complete with grit extraction equipment and blowers, and a grit dewatering screw all sized to accommodate the hydraulic peak flow rate of 15,000 m³/d. This conventional wastewater plant uses diffused air supplied by two (2) duty aeration blowers and one (1) standby blower to supply its two (2) aeration tanks and supplements its phosphorous removal using alum. The plant applies its coagulant aid prior to its two square final clarifiers which are fitted with sludge removal scrapers.

Two final effluent single media filters including traveling backwash mechanism and return of backwash to the head of the aeration tanks follow the final clarifiers. The effluent then flows though the ultraviolet disinfection system which consists of two banks, one duty and one standby, with each bank sized for the Peak Flow Rate. The plant is designed to remove suspended solids, BOD₅, and phosphorus from the wastewater. Chlorination of bypasses which are metered is done though a manual sodium hypochlorite drip into the existing chlorine contact chamber at the Raw Sewage Pumping Station.

The sludge digestion and storage is located at the new site, and receives sludge from the Mount Forest WPCP and from the Arthur WPCP on an as need basis. Sludge treatment system consists of a five (5) tank aerobic sludge digestion system with a total storage volume of 3,951m³, equipped with coarse bubble diffusers, submersible mixers and supernatant decanting.

An overview of Mount Forest Wastewater Treatment Plant can be found in Table 1:

Table 1. Mount Forest Wastewater Treatment Plant Overview

Facility Name Mount Forest Wastewater Treatment Plant				
Facility Type Extended Air STP with Tertiary Treatment				
Plant Classification WWT II				
Works Number	120001381			
Design Capacity	2,818 m ³ /day			
Receiving Water	South Saugeen River			
Certificate of Approval	6134-73FHHU			

2. Monitoring Data and Comparison to Effluent Limits

As per Section 10.(5)(a) of C of A 6134-73FHHU, a summary and interpretation of all monitoring data and a comparison to the effluent limits outlined in Condition 7, including an overview of the success and adequacy of the Works is required.

2.1 Sampling Frequency

Both influent (raw sewage) and effluent are sampled on a regular basis. The sampling types and frequencies are summarized in Table 2 and Table 3. The sampling frequencies meet the requirements set out in Section 9 of C of A 6134-73FFHHU.

Table 2. Influent (Raw Sewage) Monitoring – Sampling Frequencies

Parameter	Sample Type	Frequency
BOD₅*	24-hour Composite	Weekly
Total Suspended Solids*	24-hour Composite	Weekly
Total Phosphorous*	24-hour Composite	Weekly
Total Kjeldahl Nitrogen*	24-hour Composite	Weekly

^{*}Refer to Appendix A for monthly sample results.

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Table 3. Effluent Sampling Monitoring – Sampling Frequencies

Parameters	Sample Type	Frequency
CBOD ₅ *	24-hour Composite	Weekly
Total Suspended Solids*	24-hour Composite	Weekly
Total Phosphorous*	24-hour Composite	Weekly
Total Ammonia Nitrogen*	24-hour Composite	Weekly
Nitrate Nitrogen*	24-hour Composite	Weekly
E. Coli*	Grab	Weekly
рН	Grab (on-site)	Weekly
Temperature	Grab (on-site)	Weekly

^{*}Refer to Appendix A for monthly sample results.

2.2 Effluent Objectives and Effluent Limits

The effluent objectives as per Section 6 of C of A 6134-73FHHU for the Mount Forest Wastewater Treatment Plant are:

Table 4. Effluent Objectives as per Section 6 of C of A 6134-73FHHU

Effluent Parameter	Concentration Objective (mg/L)	Loading Objective (kg/day)
CBOD ₅	6.0	17.0
Total Suspended Solids	10.0	17.0
Total Ammonia Nitrogen		
Dec 01 to Apr 30	4.0	11.3
May 01 to Nov 30	1.5	4.2
Total Phosphorous	0.3	0.85
Free Chlorine Residual	0	-
E.Coli	100 CFU/100mL	-
	(Monthly Geometric Mean Density)	

The effluent limits that are to be met as per Section 7 of C of A 6134-73FHHU for the Mount Forest Wastewater Treatment Plant are found in Table 5. Any exceedance with the limits found in Table 5 constitutes a non-compliance with C of A 6134-73FHHU.

Table 5. Effluent Limits as per Section 7 of C of A 6134-73FHHU

Effluent Parameter	Concentration Limit (mg/L)	Loading Limit (kg/day)					
CBOD ₅	12.5	35					
Total Suspended Solids	12.5	35					
Total Ammonia Nitrogen							
Dec 01 to Apr 30	6.0	17.0					
May 01 to Nov 30	2.5	7.0					
Total Phosphorous	0.37	1.05					
Free Chlorine Residual	0.02	-					
E.Coli	200 CFU/100mL	-					
	(Monthly Geometric Mean Density)						
рН с	pH of the effluent to be maintained between 6.0 to 9.0, inclusive.						

Township of Wellington North: Mount Forest Wastewater Treatment Plant

2.3 Comparison of Data to Effluent Objectives and Effluent Limits

Analytical and monitoring data for the Mount Forest Wastewater Treatment Facility is stored in OCWA's data management system (WISKI). Annual and monthly averages for flows, CBOD₅, BOD₅, Total Suspended Solids, Total Phosphorous, Nitrogen-series and E.coli can be found in Appendix A. A comparison of analytical data from effluent samples to the effluent objectives and effluent limits are shown in the tables below:

Table 6.

				CBOD₅		
	Monthly Average Concentration (mg/L)	Within Objectives (6.00 mg/L)	Within Limits (12.50 mg/L)	Monthly Average Loading (kg/d)	Within Objectives (17.00 kg/d)	Within Limits (35.00 kg/d)
January	2.00	Yes	Yes	4.22	Yes	Yes
February	2.00	Yes	Yes	Yes 2.65		Yes
March	2.50	Yes	Yes	6.98	Yes	Yes
April	2.00	Yes	Yes	3.56	Yes	Yes
May	2.00	Yes	Yes	3.24	Yes	Yes
June	2.00	Yes	Yes	2.65	Yes	Yes
July	2.00	Yes	Yes	3.04	Yes	Yes
August	2.50	Yes	Yes	3.99	Yes	Yes
September	2.40	Yes	Yes	3.07	Yes	Yes
October	2.75	Yes	Yes	3.90	Yes	Yes
November	2.00	Yes	Yes	3.16	Yes	Yes
December	2.00	Yes	Yes	3.45	Yes	Yes

Table 7.

			Total S	uspended Solids		
	Monthly Average Concentration (mg/L)	Within Objectives (10.00 mg/L)	Within Limits (12.50 mg/L)	Monthly Average Loading (kg/d)	Within Objectives (28.20 kg/d)	Within Limits (35.00 kg/d)
January	3.00	Yes	Yes	6.34	Yes	Yes
February	2.75	Yes	Yes	3.64	Yes	Yes
March	4.25	Yes	Yes	11.87	Yes	Yes
April	3.00	Yes	Yes	5.33	Yes	Yes
May	2.75	Yes	Yes	4.45	Yes	Yes
June	3.40	Yes	Yes	4.50	Yes	Yes
July	2.00	Yes	Yes	3.04	Yes	Yes
August	2.75	Yes	Yes	4.39	Yes	Yes
September	2.60	Yes	Yes	3.32	Yes	Yes
October	3.00	Yes	Yes	4.26	Yes	Yes
November	2.00	Yes	Yes	3.16	Yes	Yes
December	2.60	Yes	Yes	4.49	Yes	Yes

Table 8.

	Total Ammonia Nitrogen (Ammonia Nitrogen + Ammonium Nitrogen)									
	Monthly Average Concentration (mg/L)	Within Objectives (Dec 01-Apr 30 4.00 mg/L)	Within Objectives (May 01-Nov 30 1.50 mg/L)	Within Limits (Dec 01-Apr 30 6.00 mg/L)	Within Limits (May 01-Nov 30 2.50 mg/L)	Monthly Average Loading (kg/d)	Within Objectives (Dec 01-Apr 30 11.30 kg/d)	Within Objectives (May 01-Nov 30 4.20 kg/d)	Within Limits (Dec 01-Apr 30 17.00 kg/d)	Within Limits (May 01-Nov 30 7.00 kg/d)
January	0.10	Yes	n/a	Yes	n/a	0.21	Yes	n/a	Yes	n/a
February	0.10	Yes	n/a	Yes	n/a	0.13	Yes	n/a	Yes	n/a
March	0.58	Yes	n/a	Yes	n/a	1.61	Yes	n/a	Yes	n/a
April	0.10	Yes	n/a	Yes	n/a	0.18	Yes	n/a	Yes	n/a
May	0.13	n/a	Yes	n/a	Yes	0.20	n/a	Yes	n/a	Yes
June	0.14	n/a	Yes	n/a	Yes	0.19	n/a	Yes	n/a	Yes
July	0.10	n/a	Yes	n/a	Yes	0.15	n/a	Yes	n/a	Yes
August	0.10	n/a	Yes	n/a	Yes	0.16	n/a	Yes	n/a	Yes
September	0.10	n/a	Yes	n/a	Yes	0.13	n/a	Yes	n/a	Yes
October	0.10	n/a	Yes	n/a	Yes	0.14	n/a	Yes	n/a	Yes
November	0.10	n/a	Yes	n/a	Yes	0.16	n/a	Yes	n/a	Yes
December	0.10	Yes	n/a	Yes	n/a	0.17	Yes	n/a	Yes	n/a

Table 9.

		Total Phosphorus					
	Monthly Average Concentration (mg/L)	Within Objectives (0.300 mg/L)	Within Limits (0.370 mg/L)	Monthly Average Loading (kg/d)	Within Objectives (0.85 kg/d)	Within Limits (1.05 kg/d)	
January	0.055	Yes	Yes	0.116	Yes	Yes	
February	0.083	Yes	Yes	0.109	Yes	Yes	
March	0.130	Yes	Yes	0.363	Yes	Yes	
April	0.068	Yes	Yes	0.121	Yes	Yes	
May	0.090	Yes	Yes	0.146	Yes	Yes	
June	0.112	Yes	Yes	0.148	Yes	Yes	
July	0.103	Yes	Yes	0.156	Yes	Yes	
August	0.125	Yes	Yes	0.199	Yes	Yes	
September	0.290	Yes	Yes	0.371	Yes	Yes	
October	0.070	Yes	Yes	0.099	Yes	Yes	
November	0.068	Yes	Yes	0.107	Yes	Yes	
December	0.066	Yes	Yes	0.114	Yes	Yes	

Table 10.

		E.coli				
	Monthly Geometric Mean Density (CFU/100mL)	Within Objectives (100 CFU/100mL)	Within Limits (200 CFU/100mL)			
January	2.83	Yes	Yes			
February	9.04	Yes	Yes			
March	14.92	Yes	Yes			
April	2.00	Yes	Yes			
May	9.46	Yes	Yes			
June	6.92	Yes	Yes			
July	15.49	Yes	Yes			
August	6.79	Yes	Yes			
September	3.60	Yes	Yes			
October	1.68	Yes	Yes			
November	8.46	Yes	Yes			
December	2.64	Yes	Yes			

Table 11. Annual Effluent Results Summary, 2020

Parameters	Average	Minimum	Maximum	Average Annual Loading
CBOD ₅	2.18	2.00	5.00	3.66
Total Suspended Solids	2.84	2.00	10.00	4.90
Total Phosphorus	0.105	0.03	0.47	0.171
Total Ammonia Nitrogen	0.15	0.10	2.00	0.29
E.Coli	6.99	0	6200	-
рН	7.47	7.28	7.79	-
Temperature	7.54	5.20	17.1	-

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2.4 Additional Monitoring Parameters

The following parameters in Table 12 do not have limits or objectives but are monitored on a regular basis (see Section 2.1 for sampling frequency) as required by C of A 6134-73FHHU. Table 12 summarizes the monitoring data for the reporting period.

Raw Sewage Quality:

Table 12. Raw Sewage Monitoring Parameters as required by C of A 6134-73FHHU for Mount Forest Wastewater Treatment Plant, 2020

Parameter	Average	Minimum	Maximum
BOD ₅ * (mg/L)	79.24	43.00	123.75
Total Suspended Solids* (mg/L)	69.50	27.75	116.00
Total Phosphorous* (mg/L)	2.21	1.07	4.14
Total Kjeldahl Nitrogen* (mg/L)	21.77	11.10	36.20

^{*} Refer to the Appendix A PAR for monthly sample results.

2.5 Overview of Success and Adequacy of the Works

The annual average effluent TSS concentration was 2.84 mg/L with an average removal efficiency of >84.69%. The annual average effluent Total Phosphorus concentration was 0.105 mg/L with an average removal efficiency of >87.72%.

The bacteriological quality of the effluent complied with the certificate of approval requirement of <200 CFU per 100 mL sample. The annual geometric mean density of organisms for 2020 was 6.99 CFU per 100 mL, indicating extremely effective effluent disinfection.

The total raw sewage volume of wastewater treated in 2020 was 710,213.60 m³. The annual average daily flow of raw sewage was 1,936.84 m³/day was 68.73 % of the design flow (2,818 m³/day). The maximum peak flow of 8,704.70 m³/day occurred during March due to higher seasonal temperatures which resulted in rapid snow melt as well as heavy precipitation. This represents a peak flow of 308.90% of the rated capacity. The wastewater treatment plant operated within the rated capacity 91% of the time (332 out of 365 days of the year)

The sewage treatment operations for 2020 provided effluent quality that met all of the effluent requirements of the CofA and demonstrates average percentage of removal efficiency (>86%) for key parameters. The effluent for 2020 was within all effluent limits and all effluent objectives set out in the CofA. Based on this evidence, the current sewage treatment program is deemed adequate. OCWA will continue to stay within effluent limits and will continue to aim to meet effluent objectives during each reporting period.

3. Operating Problems and Corrective Actions

As per Section 10.(5)(b) of C of A 6134-73FHHU, a description of any operating problems encountered and corrective actions taken is required.

There were no operating problems encountered or corrective actions required at the Mount Forest Water Pollution Control Plant during 2020 that affected the quality of the effluent leaving the plant. All repairs/maintenance can be found in Section 4.

4. Major Maintenance Activities

As per 10.(5)(c) of C of A 6134-73FHHU, a summary of all maintenance carried out on any major structure, equipment, apparatus, mechanisms or thing forming part of the works is required.

Plant maintenance, including non-scheduled maintenance is monitored using Maximo Workplace Management System. All routine and preventative maintenance was conducted as scheduled in 2020.

For 2020, major maintenance activities that occurred include:

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Plant:

- Hour meter replacement
- Filter bridge #1 rewiring
- Septage receiving tank cleanout
- Grindex pump repairs
- Influent building septage receiving tank cleanout
- New distribution valves in digester
- New gas detection equipment
- New sump pump installed in scum chamber
- New PLC/SCADA installed
- Influent flow meter repair
- New pump installation at Perth St.
- Flow Meter calibrations
- Gas Meter calibrations
- Scum Pit and Clarifier cleaning
- UV Unit servicing

Cork St. Pumping Station:

- Pump #2 cleaning and repair
- Pump inspection/maintenance
- Generator load test
- Cooling fan installation

Durham St. Pumping Station:

- Pump inspection/maintenance
- Generator load test
- Cooling fan installation

North Water St. Pumping Station:

- Wet Well cleanout
- Generator load test
- Pump #1 repair
- Pump inspection/maintenance

5. Effluent Quality Assurance and Control

As per 10.(5)(d) of C of A 6134-73FHHU, a summary of any effluent quality assurance or control measures undertaken in the reporting period is required:

All laboratory analyzed raw sewage and effluent samples (Section 2.1) are analyzed by SGS Canada Inc., which is an ISO 17025 accredited laboratory. In-house tests are conducted for monitoring purposes by licensed operators using standardized methods. The results from in-house tests are used to determine treatment efficiency and to effectively maintain process control. Calibrations and preventative maintenance are performed on facility equipment and monitoring equipment, see Section 4 for more details. In addition to sample analysis, preventative maintenance is scheduled for equipment at the sewage treatment plant and pumping stations at regular frequency (frequency depends on the equipment and type of maintenance). Maintenance activities are scheduled in the work management system Maximo.

The sewage system is operated and maintained by licensed Operators. The mandatory licensing program for operators of sewage treatment facilities in Ontario is regulated under the Ontario Water Resources Act (OWRA) Ontario Regulation 129/04. A licensed individual meets the education and experience requirements and has successfully passed the licensing examination.

The following are certified operators who operated this facility during 2020 with current certified classification, certificate numbers and certificate expiry dates.

TABLE 13.

Operator	Level	Certificate #	Expiry Date
Dwight Hallahan	WWT 2	15499	Apr 30, 2022
	WWC 1	16002	Oct 31, 2022
Dan Yake	WWT 2	57390	Jul 31, 2022
	WWC 1	69121	Jan 31, 2023
Steve Miller	WWT 4	15422	Jan 31, 2022
	WWC 2	17899	Jan 31, 2022
Jenna Porter	WWT 4	61948	Mar 31, 2023
	WWC 2	108856	Jan 31, 2023

6. Calibration and Maintenance Procedures

As per 10.(5)(e) of C of A 6134-73FHHU, a summary of the calibration and maintenance carried out on all effluent monitoring equipment is required.

All in-house monitoring equipment is calibrated/verified as per manufacturer's recommendations. Monitoring and metering equipment is also calibrated by a third party on an annual basis. Preventative maintenance is scheduled for all equipment at the sewage treatment plant and pumping stations at regular frequency (frequency depends on the equipment and type of maintenance). Maintenance activities are scheduled within the work management system Maximo, upon completion, Operators set the work order to complete. On a monthly basis, preventative work orders are reviewed for completion.

Indus Control was contracted to calibrate flow measuring equipment on August 31, 2020. Copies of these calibration reports can be found in Appendix C of this report.

7. Efforts and Results Achieved in Meeting Effluent Objectives

As per 10.(5)(f) of C of A 6134-FHHU, a description of efforts made and results achieved in meeting the Effluent Objectives of Condition 6 is required.

Condition 6 is imposed "to establish non-enforceable effluent quality objectives which the Owner is obligated to use best efforts to strive towards on an ongoing basis. These objectives are to be used as a mechanism to trigger corrective action proactively and voluntarily before environmental impairment occurs and before the compliances limits of Condition 7 are exceeded."

OCWA as the Operating Authority (on behalf of the Owner) has made best efforts to stay within the Effluent Objectives in the CofA. These efforts are supported through:

- Continuous monitoring equipment
- Regular plant inspections/checks
- In-house sampling and testing
- Laboratory (3rd party) analysis of influent and effluent samples
- Data review
- Process optimization and adjustments (as required)
- Scheduled/preventative maintenance
- Repairs as necessary

A summary of the effluent quality in comparison to the effluent objectives can be found in Tables 6-10 of section 2.3 of this report. These results show that sewage treatment operations for 2020 provided effluent quality that was within all effluent objectives outlined in the CofA and minimized environmental impairment.

8. Sludge Generation

As per 10.(5)(g) of C of A 6134-FHHU, 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 is required.

Digested sludge produced at the Mount Forest Wastewater Treatment Plant is land-applied in accordance with the Nutrient Management Act 2002 and Ontario Regulation 267/03.

Grab samples of digested (aerobic) sludge are collected and tested as per these guidelines. In 2020, sludge sample analyses was carried out by SGS Lakefield Research Limited. A summary of sludge sample results is provided in Appendix B.

A total volume of 816 m³ was hauled from the Arthur WWTP to the Mount Forest Sludge Storage Facility in 2020.

Wessuc Environmental Services Inc. was contracted to haul and spread sludge from the Mount Forest plant in 2020. (Certificate of Approval - Waste Management System #1603-4LGJBN)

Based on the design flow, average wastewater quality, and a linear regression with an R² value of 77.03%, the anticipated volume to be generated in the next reporting period is approximately 4,350 m³.

The following certified sites were utilized in 2020

 Table 14.
 Volume of Sludge Generated from Mount Forest Wastewater Treatment Plant in 2020

Site	Site Location	Volume of Biosolids (m³)	Hauler
NASM Submission ID: 23730	W1007	1021.00	Wessuc
NASM Submission ID: 23002	W1001	606.00	Wessuc
NASM Submission ID: 24433	W1004	2737.50	Wessuc

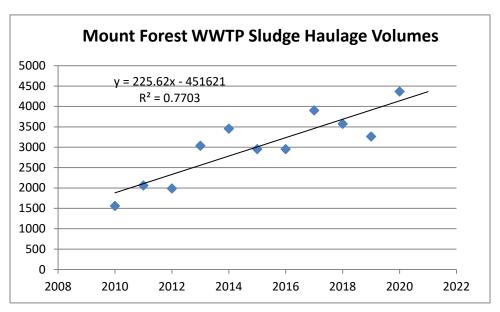


Figure 1. Mount Forest Wastewater Treatment Plant Haulage Volumes (2010 to 2020)

9. Complaints

As per 10.(5)(h) of C of A 6134-73FHHU, a summary of any complaints received during the reporting period and any steps taken to address the complaints is required.

A standard operating procedure (SOP) is in place for addressing complaints received from the community. All complaints are addressed and documented in the facility logbook. Community complaint information is entered in OCWA's WMS database system "Maximo". This system contains all the required information and history of all complaints.

There were no complaints registered during the reporting period.

10. By-pass, Spill or Abnormal Discharge Events

As per 10.(5)(i) of C of A 6134-73FHHU, a summary of all By-pass, spill or abnormal discharge events is required.

There was one bypass event and one overflow event that occurred during the reporting period. Incident reports for these events are recorded in OCWA's database "OPEX" and are provided in Appendix E.

11. Additional Information

As per 10.(5)(j) of C of A 6134-73FHHU, any other information the Direct Manager requires from time to time is required.

There were no requests from the District Manager for any other information during the reporting period.

2020 Annual Performance Report Mount Forest Wastewater Treatment Plant Certificate of Approval No. 6134-73F3FHHU

Appendix A

Performance Assessment Report

Ontario Clean Water Agency Performance Assessment Report Wastewater/Lagoon

Report extracted 02/12/2021 13:36 From: 01/01/2020 to 31/12/2020

Facility: [5541] MOUNT FOREST WASTEWATER TREATMENT FACILITY

Works: [120001381]

	01/2020	02/2020	03/2020	04/2020	05/2020	06/2020	07/2020	08/2020	09/2020	10/2020	11/2020	12/2020	<total></total>	<avg></avg>	<max></max>	<criteria></criteria>
Flows:	01/2020	02/2020	03/2020	04/2020	03/2020	00/2020	0172020	00/2020	03/2020	10/2020	11/2020	12/2020	4-10tal->	Avg>	WidA>	4Ontona>
Raw Flow: Total - Raw Sewage (m²)	77179.50	49656.50	101508.30	65652.80	60053.00	45586.80	48224.40	51629.20	38293.20	50892.60	56436.70	65100.60	710213.60			
Raw Flow: Avg - Raw Sewage (m³/d)	2489.66	1712.29	3274.46	2188.43	1937.19	1519.56	1555.63	1665.46	1276.44	1641.70	1881.22	2100.02	7 102 10:00	1936.84		2818.000000000005
Raw Flow: Max - Raw Sewage (m³/d)	7351.40	2084.60	8704.70	3267.40	2951.90	1970.30	2965.50	3193.30	1785.30	2473.20	2260.40	3501.30		1000.04	8704.70	10.000000000000000000000000000000000000
Eff. Flow: Total - Final Effluent (m²)	65471.10	38354.80	86544.10	53339.40	50182.70	39711.80	47154.10	49430.50	38354.20	43986.50	47461.60	53495.60	613486.40		0104.10	
Eff. Flow: Avg - Final Effluent (m²/d)	2111.97	1322.58	2791.75	1777.98	1618.80	1323.73	1521.10	1594.53	1278.47	1418.92	1582.05	1725.66	010400.40	1672.30		
Eff. Flow: Max - Final Effluent (m²/d)	7002.00	1695.80	7994.60	2742.70	2499.80	1821.50	2805.90	2941.70	1793.80	2208.00	1927.60	3067.90			7994.60	
Carbonaceous Biochemical Oxygen Demand: CBOD:																
Eff: Avg cBOD5 - Final Effluent (mg/L)	2.000	< 2.000	< 2.500	< 2.000	< 2.000 <	2.000 <	2.000	< 2.500 <	< 2.400	< 2.750	< 2.000	< 2.000	<	2.179	< 2.750	12.5
Eff: # of samples of cBOD5 - Final Effluent (mg/L)	4	4	4	5	4	5	4	4	5	4	4	5	52			
Loading: cBOD5 - Final Effluent (kg/d) <	4.224	< 2.645	< 6.979	< 3.556	< 3.238 <	2.647 <	3.042	< 3.986 <	< 3.068	< 3.902	< 3.164	< 3.451	<	3.659	< 6.979	
Biochemical Oxygen Demand: BOD5:																
Raw: Avg BOD5 - Raw Sewage (mg/L)	99.000	72.750	43.000	57.800	50.500	61.800	57.500	113.000	105.000	74.000	123.750	92.800		79.242	123.750	
Raw: # of samples of BOD5 - Raw Sewage (mg/L)	4	4	4	5	4	5	4	4	5	4	4	5	52			
Total Suspended Solids: TSS:																
Raw: Avg TSS - Raw Sewage (mg/L)	103.000	52.500	27.750	45.000	48.000	45.600	47.000	107.250	107.000	67.500	116.000	67.400		69.500	116.000	
Raw: # of samples of TSS - Raw Sewage (mg/L)	4	4	4	5	4	5	4	4	5	4	4	5	52			
Eff: Avg TSS - Final Effluent (mg/L)	3.000	2.750	< 4.250	< 3.000	2.750 <	3.400 <	2.000	< 2.750 <	< 2.600	< 3.000	< 2.000	< 2.600	<	2.842	4.250	12.5
Eff: # of samples of TSS - Final Effluent (mg/L)	4	4	4	5	4	5	4	4	5	4	4	5	52			
Loading: TSS - Final Effluent (kg/d)	6.336	3.637	< 11.865	< 5.334	4.452 <	4.501 <	3.042	< 4.385 <	3.324	< 4.257	< 3.164	< 4.487	<	4.899	11.865	
Percent Removal: TSS - Final Effluent (mg/L)	97.087	94.762	84.685	93.333	94.271	92.544	95.745	97.436	97.570	95.556	98.276	96.142			98.276	
Total Phosphorus: TP:																
Raw: Avg TP - Raw Sewage (mg/L)	4.137	2.120	1.073	1.672	1.605	1.838	2.098	2.015	2.362	2.398	2.935	2.250		2.209	4.137	
Raw: # of samples of TP - Raw Sewage (mg/L)	4	4	4	5	4	5	4	4	5	4	4	5	52			
Eff: Avg TP - Final Effluent (mg/L)	0.055	0.083	0.130	0.068	0.090	0.112	0.103	0.125	0.290	0.070	0.068	0.066		0.105	0.290	0.37
Eff: # of samples of TP - Final Effluent (mg/L)	4	4	4	5	4	5	4	4	5	4	4	5	52			
Loading: TP - Final Effluent (kg/d)	0.116	0.109	0.363	0.121	0.146	0.148	0.156	0.199	0.371	0.099	0.107	0.114		0.171	0.371	
Percent Removal: TP - Final Effluent (mg/L)	98.671	96.108	87.879	95.933	94.393	93.906	95.113	93.797	87.722	97.080	97.700	97.067			98.671	
Nitrogen Series:																
Raw: Avg TKN - Raw Sewage (mg/L)	18.175	20.900	11.100	19.020	18.575	20.980	21.375	19.075	26.320	27.250	36.200	22.260		21.769	36.200	
Raw: # of samples of TKN - Raw Sewage (mg/L)	4	4	4	5	4	5	4	4	5	4	4	5	52			
Eff: Avg TAN - Final Effluent (mg/L)	0.100	< 0.100	< 0.575	< 0.100	< 0.125 <	0.140 <	0.100	< 0.100 <	< 0.100	< 0.100	< 0.100	< 0.100	<	0.145	< 0.575	- 2.5 - 2.5 - 2.5 - 2.5 - 2.5 - 2
Eff: # of samples of TAN - Final Effluent (mg/L)	4	4	4	5	4	5	4	4	5	4	4	5	52			
Loading: TAN - Final Effluent (kg/d)	0.211	< 0.132	< 1.605	< 0.178	< 0.202 <	0.185 <	0.152	< 0.159 <	< 0.128	< 0.142	< 0.158	< 0.173	<	0.286	1.605	
Eff: Avg NO3-N - Final Effluent (mg/L)	15.873	22.000	14.453	16.760	19.725	23.480	23.600	22.600	28.060	28.950	22.900	20.040		21.537	28.950	
Eff: # of samples of NO3-N - Final Effluent (mg/L)	4	4	4	5	4	5	4	4	5	4	4	5	52			
Eff: Avg NO2-N - Final Effluent (mg/L)	0.030	< 0.030	< 0.098	< 0.036	< 0.030 <	0.040 <	0.035	< 0.030 <	< 0.030	< 0.030	< 0.030	< 0.030	<	0.037	< 0.098	
Eff: # of samples of NO2-N - Final Effluent (mg/L)	4	4	4	5	4	5	4	4	5	4	4	5	52			
Disinfection:										-						
Eff: GMD E. Coli - Final Effluent (cfu/100mL)	2.828	9.043	14.923	2.000	9.455	6.918	15.492	6.792	3.604	1.682	8.459	2.639		6.986	15.492	200.0
Eff: # of samples of E. Coli - Final Effluent (cfu/100mL)	4	4	4	5	4	5	4	4	5	4	4	5	52			

2020 Annual Performance Report Mount Forest Wastewater Treatment Plant Certificate of Approval No. 6134-73F3FHHU

Appendix B

Sludge Haulage Summary & Sludge Quality
Analysis

Моц	Mount Forest WWTP - Daily Haulage Summary										
Date	Site	NASM #	Sludge Hauled (m³)								
	M	ay									
05/12/20	W1007	23730	1021.00								
05/22/20	W1001	23002	606.00								
	Octo	ober									
10/14/20	W1004	24433	727.00								
10/15/20	W1004	24433	309.00								
10/30/20	W1004	24433	1208.50								
10/31/20	W1004	24433	493.00								
		Total	4364.50								

MOUNT FOREST WASTEWATER TREATMENT PLANT SLUDGE QUALITY DATA

		JAN	FEB	MAR	APR	MAY	JUN	JUL	AUG	SEP	ОСТ	NOV	DEC	AVERAGE
<u>Nutrients</u>														
TS	(mg/L)	15800	16500	20100	14700	21700	23200	11550	13100	16700	14300	18800	21300	17313
Ammonia+Ammonium	(mg/L)	48.8	21.3	26.4	6.5	5.6	60.4	173.2	25.4	1.4	1.0	88.3	23.9	40.2
Nitrate	(mg/L)	0.30	0.30	0.30	0.40	42.00	0.30	0.75	0.30	0.30	86.00	41.00	0.30	14.35
Ammonia + Nitrate	(mg/L)	49.1	21.6	26.7	6.9	47.6	60.7	173.9	25.7	1.7	87.0	129.3	24.2	54.5
TKN	(mg/L)	940	889	1110	876	760	1340	667	560	388	1440	856	1150	915
Phosphorus	(mg/L)	1300	690	940	420	470	790	760	220	780	600	590	450	668
Metal Concentrations														
Arsenic	(mg/L)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Cadmium	(mg/L)	0.005	0.008	0.006	0.005	0.008	0.023	0.005	0.005	0.015	0.009	0.012	0.007	0.01
Cobalt	(mg/L)	0.02	0.02	0.03	0.02	0.030	0.03	0.02	0.02	0.03	0.01	0.04	0.03	0.02
Chromium	(mg/L)	0.20	0.25	0.29	0.20	0.34	0.34	0.16	0.20	0.65	0.35	0.47	0.39	0.32
Copper	(mg/L)	6.10	7.30	8.50	6.20	9.50	8.90	4.55	5.50	11.00	8.50	12.00	7.10	7.93
Mercury	(mg/L)	0.013	0.022	0.020	0.011	0.0250	0.0250	0.021	0.011	0.0050	0.012	0.028	0.018	0.018
Potassium	(mg/L)	53	61.0	66.0	52.0	72.0	72.0	43.5	39.0	60.0	65.0	58.0	63.0	59
Molybdenum	(mg/L)	0.10	0.11	0.13	0.09	0.14	0.16	0.08	0.10	0.17	0.16	0.20	0.10	0.13
Nickel	(mg/L)	0.27	0.32	0.35	0.27	0.41	0.43	0.19	0.19	0.35	0.32	0.47	0.24	0.32
Lead	(mg/L)	0.20	0.20	0.20	0.10	0.30	0.30	0.10	0.10	0.20	0.20	0.30	0.30	0.21
Selenium	(mg/L)	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10	0.10
Zinc	(mg/L)	4.90	6.00	7.00	5.00	9.00	8.00	4.00	5.00	9.00	8.00	11.00	8.00	7.08
		•	•	•	•	·-			•	•	•	•	<u>-</u>	•
<u>Bacti</u>														
E. coli (cfu/1g dried wgt))	392,405	448,485	159,204	40,136	13,825	11,638	16,535	167,939	18,563	26,573	11,702	300,469	133,956
E. coli (cfu/100mL)		620,000	740,000	320,000	59,000	30,000	27,000	220,000	220,000	3,100	38,000	22,000	640,000	244,925
Metal/Solids Concentra	<u>tion</u>													
Arsenic [170]	(mg/kg)	6	6	5	7	5	4	9	8	6	7	5	5	6
Cadmium [34]	(mg/kg)	0	0	0	0	0	1	0	0	1	1	1	0	1
Cobalt [340]	(mg/kg)	1	1	1	1	1	1	1	2	2	1	2	1	1
Chromium [2800]	(mg/kg)	13	15	14	14	16	15	14	15	39	24	25	18	18
Copper [1700]	(mg/kg)	386	442	423	422	438	384	394	420	659	594	638	333	461
Mercury [11]	(mg/kg)	1	1	1	1	1	1	2	1	0	1	1	1	1
Molybdenum [94]	(mg/kg)	6	7	6	6	6	7	7	8	10	11	11	5	8
Nickel [420]	(mg/kg)	17	19	17	18	19	19	16	15	21	22	25	11	18
Lead [1100]	(mg/kg)	13	12	10	7	14	13	9	8	12	14	16	14	12
Selenium [34]	(mg/kg)	6	6	5	7	5	4	9	8	6	7	5	5	6
Zinc [4200]	(mg/kg)	310	364	348	340	415	345	346	382	539	559	585	376	409
										ı	-			

2020 Annual Performance Report Mount Forest Wastewater Treatment Plant Certificate of Approval No. 6134-73F3FHHU

Appendix C

Calibration Reports



151 Superior Blvd, Unit #13 Mississauga, ON, L5T 2L1.

Customer Name:	Georgian Highland	ds Region	- Site/Plant Ad	ldress.	650 cork street,			
Plant Name:	Mount Forest WW	TP	- Onto/1 lant / to	ad 1000.	Mount Forest, ON N	10G2L3		
Devi	ce Information			Servi	ce Information			
Make:	Khrone		Date:		August 31, 2020			
Model:	IFC 010D		Report No:		CO1150-2009-01			
Order Code:	NA		Job No:		CO1150-2009			
	C080284				001130-2009			
Serial No.:			_	-	D ("			
Tag:	FIT101		_	<u>F</u>	ow Details			
Job Location:	RAS Pump 1 Flow	I	Unit:		l/sec			
Asset ID:	205520		Flow Range:		0-50			
			Current Outp	out:	4-20 mA			
<u>Se</u>	nsor Details		4 mA Set Po	oint	0			
Line size:	4"		20 mA Set F	Point	50			
GKL:	5.5354		_					
Mounting:	Remote		Inst. Reading	AS FOUND	AS LEFT			
Mounting.	remote		_	=		2794587		
			TOTALIZER		2794586			
			FLOW (I/sec	:)	4.9	4.5		
			1					
	nance Checklist			Re	marks			
Visual Inspection:	☑ OK	☐ NOT OK						
Electrical Inspection:	☑ OK	☐ NOT OK						
Sensor Installation:	☑ ok	\square NOT OK						
Transmitter Installation:	⊍ ок	\square NOT OK						
		Instrument Test Inf	ormation and Resu	ılts				
			T					
Set-Point as Per Calibration	Calculated Flow	Calculated O/P	UUT Display	UUT	Deviat	ion		
KIT	(I/sec)	(mA)	(l/sec)	Measured	(I/sed			
	,	,	, ,	Output (mA)	,	,		
0	0.00	4.00	0.03	3.99	-0.03	3		
A	3.31	5.06	3.25	5.06	0.06	3		
В	6.63	6.12	6.56	6.07	0.07	7		
C	13.25	8.24	13.56	8.15	-0.3			
D	33.13	14.60	33.08	14.28	0.05			
Ь	33.13	14.00	33.00	14.20	0.00	,		
	Informa	tion of Tools used fo	r Verification of the	Instruments				
Details	Too	ol/Kit 1	Tool/l	Kit 2	Tool/K	it 3		
Device Description:	Calibrator		Electrical Multime	ter	N/A			
Manufacturer:	Khrone		Fluke		N/A			
Model No:	GS8B		179		N/A			
iviodel No.		hunting Tools Coutifie			IN/A			
	Refer Call	bration Tools Certific	ates submittal for n	nore information				
Verification Test Result:	✓ Pa	nssed		Fail	☐ Not Ver	ified		
vermeation restriction.				ı un		illou		
	Measurement Wo	rks within Specification	on.					
Overall Remarks:								
Overali Nemarks.								
						1		
Service Technician :	Sagar Patel		Stamp	/Signature	()/			
					(0)			
Printed Date:	August 24, 2020							
Printed Date:	August 31, 2020				Version: 19			
	End of Report							



151 Superior Blvd, Unit #13 Mississauga, ON, L5T 2L1.

Customer Name:	Georgian Highlan	ds Region	O'1 - /DI 1 A	l de e e e	650 cork street		
Plant Name:	Mount Forest WW	/TP	Site/Plant Ac	aaress:	Mount Forest, ON I	N0G2L3	
Devi	ce Information			Servi	ce Information		
Make:	Khrone		Date:		August 31, 2020		
Model:	IFC 010D		Report No:		CO1150-2009-02		
Order Code:	NA		Job No:		CO1150-2009		
Serial No.:	C080272				001100 2000		
	FIT102		_	-	low Details		
Tag:				_			
Job Location:	RAS Pump 2 Flov	V	Unit:		l/sec		
Asset ID:	205521		Flow Range:		0-50		
	D . "		Current Outp		4-20 mA		
	nsor Details		4 mA Set Po		0		
Line size:	4"		20 mA Set F	Point	50		
GKL:	5.4975		_				
Mounting:	Remote		Inst. Reading	<u>g</u>	AS FOUND	<u>AS LEFT</u>	
			TOTALIZER	(m3)	3315740	3315741	
			FLOW (I/sec	:)	7.13	714	
					-		
Mainte	nance Checklist		Re	emarks			
Visual Inspection:	☑ OK	□ NOT OK					
Electrical Inspection:	☑ OK	\square NOT OK					
Sensor Installation:	⊍ ок	\square NOT OK					
Transmitter Installation:	⊍ ок	\square NOT OK					
			-1				
		Instrument Test Inf	ormation and Resu	ılts			
Set-Point as Per Calibration KIT	Calculated Flow (I/sec)	Calculated O/P (mA)	UUT Display (l/sec)	UUT Measured Output (mA)	11/8861		
0	0.00	4.00	0.02		-0.0	12	
0	0.00	4.00		4.00			
A	3.29	5.05	3.21	5.04	0.0		
В	6.58	6.11	6.58	6.08	0.0		
C	13.16	8.21	13.54	8.16	-0.3		
D	32.90	14.53	32.59	14.89	0.3	1	
	Informa	tion of Tools used fo	r Verification of the	Instruments			
Details	To	ol/Kit 1	Tool/l	Kit 2	Tool/l	Kit 3	
Device Description:	Calibrator		Electrical Multime		N//		
Manufacturer:	Khrone		Fluke		N//		
Model No:	GS8B		179		N//		
Widder No.		ibration Tools Certific		nore Information		٦	
	rtelel Cal	ibration roots certific	ates submittai for in	nore information			
Verification Test Result:	✓ Pa	assed		Fail	☐ Not Ve	rified	
	184 (184	1 141 0 16 6					
Overall Remarks:	Measurement Wo	rks within Specificati	on.				
Service Technician :	Sagar Patel		_ Stamp	/Signature		/	
Printed Date:	August 31, 2020						
		End	of Report		Version: 1	9-12	



151 Superior Blvd, Unit #13
Mississauga, ON, L5T 2L1.
www.Indus-Control.com

Customer Name:	Coorgian Highland	do Dogion				CEO souls atmost		
	Georgian Highland		- Sit	e/Plant Ac	ddress:	650 cork street,		
Plant Name:	Mount Forest WW	/TP	_			Mount Forest, ON N	10G2L3	
	ce Information				<u>Servi</u>	ce Information		
Make:	Khrone		_ Da	ite:		August 31, 2020		
Model:	IFC 010D		Re	port No:		CO1150-2009-03		
Order Code:	NA		Jo	b No:		CO1150-2009		
Serial No.:	C080308							
Tag:	FIT102		_		FI	low Details		
Job Location:	WAS/SCUM Flow		_ Ur	nit:	_	l/sec		
Asset ID:	205522		_	ow Range:		0-30		
locot ib.			_	rrent Outp		4-20 mA		
Se	nsor Details			mA Set Po		0		
	3"			mA Set F		30		
Line size:			_	TIIA SELF	- OII II	30		
GKL:	5.3725			. 5				
Mounting:	Remote		_	st. Reading		AS FOUND	<u>AS LEFT</u>	
				TALIZER		144171	144172	
			FL	.OW (I/sec	:)	0.013	0.016	
Mainte	nance Checklist				Re	marks		
Visual Inspection:	☑ OK	□ NOT OK						
Electrical Inspection:	☑ OK	□ NOT OK						
Sensor Installation:	⊍ ок	\square NOT OK						
Transmitter Installation:	☑ ok	□ NOT OK						
Transmitter motalitation.	_ 0.0	_ 1101 OK						
		Instrument Test Inf	formation	and Resu	ılte			
		motiument restim		and resu				
Set-Point as Per Calibration	Calculated Flow	Calculated O/P	UUT	Display	UUT	Deviat	tion	
KIT	(I/sec)	(mA)		sec)	Measured	(I/se		
	(1111)	()	,	,	Output (mA)	,	,	
0	0.00	4.00	0	.02	3.98	-0.0	2	
A	2.06	5.10	2	01	5.06	0.0	5	
В	4.12	6.19	4	.06	6.14	0.00	ô	
C	8.23	8.39	8	3.16	8.25	0.0		
D	20.58	14.97		0.51	14.91	0.0		
	20.00	14.07		3.01	14.51	0.0		
	Informa	tion of Tools used fo	r Verifica	tion of the	Instruments			
Details	Too	ol/Kit 1		Tool/ł	Kit 2	Tool/k	(it 3	
Device Description:	Calibrator		Electric	al Multime	ter	N/A	١	
Manufacturer:	Khrone		Fluke			N/A	\	
Model No:	GS8B		179			N/A		
viodor 140.		bration Tools Certific		mittal for n	nore Information	14/	•	
	recici oan	bration roots ocraine	ates sub	inittai ioi ii	nore information			
Verification Test Result:	✓ Pa	assed			Fail	☐ Not Vei	rified	
		-						
	Measurement Wo	rks within Specification	on.					
Overall Remarks:								
Sonvice Technician	Sagar Datal			Ct-	/Cianatiii-		/	
Service Technician :	Sagar Patel		_	Stamp	/Signature	(& /		
						9		
Printed Date:	August 31, 2020							
	•	Fnd	of Repor	t		Version: 1	9-12	
		Liiu	J. 1.0p01	•		v GISIOII. I	· ·-	



151 Superior Blvd, Unit #13 Mississauga, ON, L5T 2L1.

Customer Name:	Georgian Highlan	ds Region			650 cork street.		
Plant Name:	Mount Forest WW		Site/Plant Ac	ddress:	Mount Forest, ON N	VING2L3	
	Would Foldst WW	7 11			Modrit i orcot, ort i	100220	
Devi	ce Information			Serv	ice Information		
Make:	Khrone		Date:		August 31, 2020		
Model:	IFC 010D		Report No:		CO1150-2009-04		
Order Code:	NA		Job No:		CO1150-2009		
Serial No.:	C081357				0011002000		
Tag:	NA		_	F	low Details		
Job Location:	Septage receiving	1	Unit:	<u>-</u>	l/sec		
Asset ID:	205514)	Flow Range:		0-40		
Addet ID.	200011		Current Outp		4-20 mA		
Se	nsor Details		4 mA Set Po		0		
Line size:	4"		20 mA Set F	Point	40		
GK:	2.7538		_				
Mounting:	Remote		Inst. Reading	g	AS FOUND	AS LEFT	
			TOTALIZER		51346639	51346640	
			FLOW (I/sec	;)	0.05	0.1	
	nance Checklist			Re	emarks		
Visual Inspection:	☑ OK	□ NOT OK					
Electrical Inspection:	☑ ok	☐ NOT OK					
Sensor Installation:	⊡ ок	\square NOT OK					
Transmitter Installation:	☑ ok	□ NOT OK					
		la atmosa at Taat la	·	.lr -			
		Instrument Lest Inf	ormation and Resu				
Set-Point as Per Calibration KIT	Calculated Flow (I/sec)	Calculated O/P (mA)	UUT Display (l/sec)	UUT Measured Output (mA)	Devia (I/se		
0	0.00	4.00	0.02	3.98	-0.0	02	
А	1.65	4.66	1.59	4.65	0.0)6	
В	3.30	5.32	3.24	5.31	0.0)6	
С	6.59	6.64	6.54	6.56	0.0)5	
D	16.48	10.59	16.51	10.54	-0.0	03	
E	32.96	17.18	32.89	17.11	0.0		
	Informa	tion of Tools used fo	r Varification of the	Instrumente			
 Details		ol/Kit 1	Tool/		Tool/	Kit 2	
	Calibrator	UI/KIL I	Electrical Multime		N/		
Device Description:	Khrone		Fluke	itei	N/		
Manufacturer: Model No:	GS8B		179		N/.		
wiodel No.		ibration Tools Certific		nore Information		^	
	1						
Verification Test Result:	☑ Pa	assed		Fail	☐ Not Ve	erified	
Overall Remarks:	Measurement Wo	rks within Specificati	on.				
Service Technician :	Sagar Patel		_ Stamp.	/Signature			
Printed Date:	August 31, 2020	F	of Done of			10.10	
		End	of Report		Version:	19-12	



151 Superior Blvd, Unit #13 Mississauga, ON, L5T 2L1. www.lndus-Control.com

Customer Name:	Georgian Highlan	ds Region	- Site/Plant Ac	ldress:	650 cork street,			
Plant Name:	Mount Forest WW	/TP	_		Mount Forest, ON	N0G2L3		
Devi	ce Information			<u>Serv</u>	ice Information			
Make:	Khrone		Date:		August 31, 2020			
Model:	IFC 020D		Report No:		CO1150-2009-05			
Order Code:	NA		Job No:		CO1150-2009			
Serial No.:	0429/03							
Tag:	NA			<u> </u>	low Details			
Job Location:	Sludge Receiving	flow	Unit:		l/sec			
Asset ID:	205524		Flow Range:		0-100			
			Current Outp		4-20 mA			
Se	nsor Details		4 mA Set Po		0			
Line size:	6"		20 mA Set F	Point	100			
GK:	3.24		_					
Mounting:	Compact		Inst. Reading	נ	AS FOUND	AS LEFT		
g.	7		TOTALIZER	='	51346639	51346640		
			FLOW (I/sec		0.05	0.1		
			. 2011 (#000	,	0.00			
Mainte	nance Checklist			Re	emarks			
Visual Inspection:	☑ OK	□ NOT OK						
Electrical Inspection:	☑ ok	☐ NOT OK						
Sensor Installation:	⊡ ok	□ NOT OK						
Transmitter Installation:	□ ok	□ NOT OK						
Transmitter installation.	OK	_ 1101 OK						
		Instrument Test Inf	ormation and Resu	lts				
Set-Point as Per Calibration KIT	Calculated Flow (I/sec)	Calculated O/P (mA)	UUT Display (l/sec)	UUT Measured Output (mA)	Deviation (l/sec)			
0	0.00	4.00	0.02	3.99	-0.0	02		
	8.73	5.40	8.75	5.38	-0.0			
В	17.45	6.79	17.38	6.71	0.0			
С			34.56		0.3			
	34.90	9.58	87.21	9.52	0.3			
D	87.26	17.96	87.21	17.91	0.0	15		
	Informa	tion of Tools used fo	r Verification of the	Instruments				
Details		ol/Kit 1	Tool/k		Tool/	Kit 3		
Device Description:	Calibrator	5// Tale 1	Electrical Multime		N/			
Manufacturer:	Khrone		Fluke		N/			
Model No:	GS8B		179		N/			
WIOGET NO.		ibration Tools Certific		nore Information	1	T.		
	recei our	ibration roots ocranic	ates submittal for fi	lore information				
Verification Test Result:	✓ Pa	assed		Fail	☐ Not Ve	erified		
Overall Remarks:	Measurement Wo	rks within Specificati	on.					
Service Technician : Printed Date:	Sagar Patel August 31, 2020		_ Stamp/	/Signature	8	/		
		End	of Papart		Vargion:	10.12		



151 Superior Blvd, Unit #13 Mississauga, ON, L5T 2L1.

Customer Name:	Georgian Highlan	ds Region			650 cork street,		
Plant Name:	Mount Forest WW		Site/Plant A	ddress:	Mount Forest, ON	N0G2L3	
	Modifi i orest ww	/ 11	_				
Devi	ce Information			Serv	ice Information		
Make:	Khrone		Date:	<u>55</u>	August 31, 2020		
Model:	IFC 020D		Report No:		CO1150-2009-06		
Order Code:	NA		Job No:		CO1150-2009		
Serial No.:	42T/03				001100 2000		
Tag:	NA		_	_	low Details		
Job Location:	Sludge Loading fl	01//	_ Unit:	<u>-</u>	/sec		
Asset ID:	NA	OW	Flow Range	. .	0-90		
Asset ID.	INA		Current Out		4-20 mA		
So	nsor Details		4 mA Set F	-	0		
	4"						
Line size:			20 mA Set	Politi	90		
GK:	2.587			_	AO FOLIND	AOLEET	
Mounting:	Compact		Inst. Readin		AS FOUND	AS LEFT	
			TOTALIZER	` '	278228	278228	
			FLOW (I/se	C)	0.05	0.1	
Mainte	nance Checklist			R	emarks		
Visual Inspection:	☑ OK	□ NOT OK			omano		
Electrical Inspection:	☑ ok	☐ NOT OK					
Sensor Installation:	☑ ok ☑ ok	☐ NOT OK					
Transmitter Installation:	□ ok □ ok	□ NOT OK					
Transmitter installation.	_ OK	NOT OR	1				
		Instrument Test Inf	ormation and Res	ults			
Set-Point as Per Calibration KIT	Calculated Flow (I/sec)	Calculated O/P (mA)	UUT Display (l/sec)	UUT Measured Output (mA)	Devia (I/se		
0	0.00	4.00	0.01	4.01	-0.0	01	
A	3.10	4.55	3.02	4.53	0.0		
В	6.19	5.10	6.12	5.03	0.0		
C	12.39	6.20	12.36	6.18	0.0		
	30.97	9.50	30.92	9.14	0.0		
	61.93	15.01	61.89	15.06	0.0		
<u> </u>	61.93	15.01	01.09	15.06	0.0)4	
	Informa	tion of Tools used for	r Verification of the	e Instruments			
Details	To	ol/Kit 1	Tool	/Kit 2	Tool/	Kit 3	
Device Description:	Calibrator		Electrical Multime	eter	N/	A	
Manufacturer:	Khrone		Fluke		N/	A	
Model No:	GS8B		179		N/	A	
	* Refer Cal	ibration Tools Certific	ates submittal for	more Information	1		
Verification Test Result:	✓ Pá	assed		Fail	☐ Not Ve	erified	
	Measurement Wo	orks within Specification	on				
Overall Remarks:	Wedstrement We	nks within opcomodus	O11.				
Service Technician :	Sagar Patel		Stamp	o/Signature		/	
District Det	A				0		
Printed Date:	August 31, 2020	F. J	of Report			40.40	
		⊢nd	OFKEDOLL		Version:	19-17	



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VERIFICATION REPORT- MULTIRANGER 200 OPEN CHANNEL FLOW MEASUREMENT

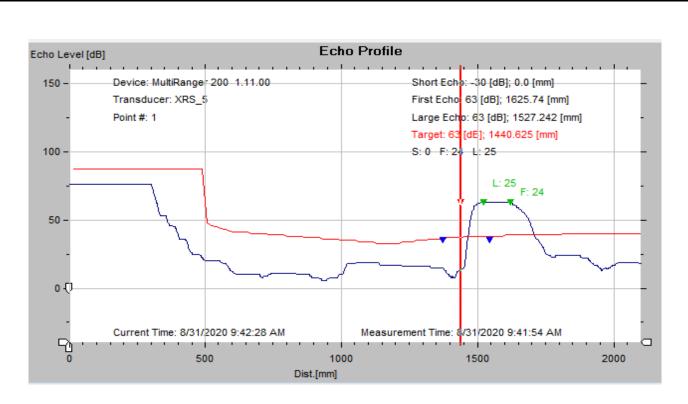
Customer Name:	Georgian Highlands Region			Site/Plant	650 cork street,
Plant Name:	Mount Forest WWTP			Address:	Mount Forest, ON N0G2L3
				Modelle Green Strategie	
<u></u>	Device Information				Service Information
Make:	Siemens			Date:	August 31, 2020
Model:	Multiranger 200	_		Report No:	CO1150-2009-08
Order Code:	NA	_		Job No:	CO1150-2009
Serial No.:	PBD/V7100076				
Tag:	LIT-201	_			Flow Details
Job Location:	Final effluent	_		Unit:	l/sec
		_		Flow Range:	0-245
Inst. Reading	AS FOUND	AS LEFT		Current Output:	4-20 mA
TOTALIZER (m3)	375811.72	375815.69		4 mA Set Point	0
FLOW (L/S)	14.27	14.56		20 mA Set Point	245
·	intenance Checklist				Remarks
Visual Inspection:	✓ OK	□ NOT OK		r	Actilates
Electrical Inspection:					
Liectifical inspection.	E OK				
		Programming Para	ameter of Ins	strument	
Parameter	Discription	Value	Parameter	Discription	Value
P001	Operation	6.00000	P601	Flow Exponent	1.53
P002	Material	1.000	P602	PMD Dimension	NA
P004	Transducer	112(XRS-5)	P603	Maximum Head	4670 mm
P005	Units	3(mm)	P604	Maximum Flow	245 l/s
P006	Empty	1600	P605	Zero Head	0 mm
P007	Span	1260mm	P608	Flow rate Units	0(Ratiometric)
P620	Low Flow cuttoff	234 mm	P210	4mA Setpoint	0 mm
P600	Primary Mea. Device	0	P211	20mA Setpoint	5000 mm
	I	nstrument Test Inf	ormation and	d Results	
Input (%)	Calculated Flow(I/sec)	Calculated Input (mA)	Flow on Scada (I/sec)	UUT Measured Output (mA)	Deviation (I/sec)
0	0.00	4.00	0.02	3.99	-0.02
25	61.25	8.00	61.00	7.99	0.25
50	122.50	12.00	122.50	11.99	0.00
75	183.75	16.00	182.65	15.99	1.10
100	245 00	20.00	244 56	19 99	0.44



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VERIFICATION REPORT- MULTIRANGER 200 OPEN CHANNEL FLOW MEASUREMENT

Eco Profile



	Information of Tools used for	r Verification of the	e Instruments		
Device Description:	Manufacturer	Mode	el		Serial No:
Electrical Multimeter	Fluke 179 As per prov			As per provided	
Verification Test Result:	✓ Passed	☐ Fail			Not Verified
Overall Remarks:	Program parameters verified				
Service Technician :	Dhaval Patel	- Sta	mp/Signature		8/
Printed Date:	August 31, 2020	Fool of Donord			
		End of Report			Version: 19-12

DTM Version: 3.25.00 Page 1/3

Flowmeter Verification Certificate Transmitter

Georgian Highlands Region	Cork ST PS
Customer	Plant
Order code	Tag Name
PROMAG 50 W DN200	1.0427 - 1.0427
Device type	K-Factor
D6020C16000	-3
Serial number	Zero point
V2.03.00	V1.04.01
Software Version Transmitter	Software Version I/O-Module
31.08.2020	11:19
Verification date	Verification time

Verification result Transmitter: Passed

Test item	Result	Applied Limits
Amplifier	Passed	Basis: 0.55 %
Current Output 1	Passed	0.05 mA
Pulse Output 1	Not tested	0 P
Test Sensor	Passed	

FieldCheck Details	Simubox Details	_
551032	8714684	
Production number	Production number	
1.07.10	1.00.01	
Software Version	Software Version	
08/2020	08/2020	
Last Calibration Date	Last Calibration Date	_

31.08.2020	Q.		
Date	Operator's Sign	Inspector's Sign	

Overall results:

The achieved test results show that the instrumment is completely functional, and the measuring results lie within +/- 1% of the original calibration. 1)

The calibration of the Fieldcheck test system is fully traceable to national standards.

1) Prerequisite is an additional proof of electrode integrity with a high voltage test.

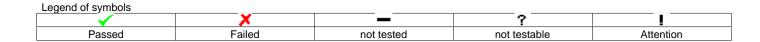


FieldCheck - Result Tab Transmitter

Customer	Georgian Highland Region	Plant	CORK ST. PS
Order code		Tag Name	
Device type	PROMAG 50 W DN200	K-Factor	1.0427 - 1.0427
Serial number	D6020C16000	Zero point	-3
Software Version Transmitter	V2.03.00	Software Version I/O-Module	V1.04.01
Verification date	31.08.2020	Verification time	11:19

Verification Flow end value (100~%): 125.664 l/s Flow speed 4.00 m/s

Passed / Failed	Test item	Simul. Signal	Limit Value	Deviation
	Test Transmitter			
<u>√</u>	Amplifier	6.283 l/s (5%)	1.50 %	0.60 %
	•	12.566 l/s (10.0%)	1.00 %	0.15 %
		62.832 l/s (50.0%)	0.60 %	0.15 %
~		125.665 l/s (100%)	0.55 %	0.08 %
	Current Output 1	4.000 mA (0%)	0.05 mA	0.003 mA
	·	4.800 mA (5%)	0.05 mA	0.002 mA
√		5.600 mA (10.0%)	0.05 mA	-0.010 mA
		12.000 mA (50.0%)	0.05 mA	-0.004 mA
<u>√</u>		20.000 mA (100%)	0.05 mA	-0.017 mA
	Pulse Output 1			
		Start value	Limits range	Measured value
	Test Sensor			
	Coil Curr. Rise	13.300 ms	0.00027.625 ms	18.680 ms
 ~	Coil Curr. Stability			
	Electrode Integrity	mV	0.0300.001 mV	3.260 mV



FieldCheck: Parameters Transmitter

Customer	Georgian Highland Region	Plant	CORK ST. PS
Order code		Tag Name	
Device type	PROMAG 50 W DN200	K-Factor	1.0427 - 1.0427
Serial number	D6020C16000	Zero point	-3
Software Version Transmitter	V2.03.00	Software Version I/O-Module	V1.04.01
Verification date	31.08.2020	Verification time	11:19

Curent Output	Assign	Current Range	Value 0_4mA	Value 20 mA	
Terminal 26/27	VOLUME FLOW	4-20 mA activ	0.0 l/s	200.01 l/s	
Pulse Output	Assign	Pulse Value	Output signal	Pulse width	
Terminal 24/25	VOLUME FLOW	1.000 m3/P	Passive/Positive	100.01 ms	

Actual System Ident.

137.0



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Customer Name: Plant Name:	Georgian Highlands Region		Site/Plant Address:		304 Foster st, Mount Forest, ON N0G2L3	
Flant Name.	Mount Forest WV	/IP			Wount Forest, ON NOG2L3	
<u>Devid</u>	ce Information			<u>Servi</u>	ce Information	
Make:	Khrone		Date:		August 31, 2020	
Model:	IFC 100W		Report No:			
Order Code:	NA		Job No:		CO1150-2009	
Serial No.:	C104591		_			
Tag:	FIT1			F	low Details	
Job Location:	Foster street PS I	Flow	- Unit:	<u>-</u>	l/sec	
Asset ID:	205530	1011	Flow Range:		0-250	
7,000112.	200000		Current Outp		4-20 mA	
Se	nsor Details		4 mA Set Po		0	
Line size:	12"		20 mA Set F	Point	250	
GK:	7.9112		_			
Mounting:	Remote		Inst. Reading	<u> </u>	AS FOUND	AS LEFT
			TOTALIZER	(m3)	470495.65	470496
			FLOW (I/sec	:)	0	0
			,	,		
Mainte	nance Checklist			Re	emarks	
Visual Inspection:	☑ OK	□ NOT OK				
Electrical Inspection:	☑ ok	\square NOT OK				
Sensor Installation:	☑ OK ☐ NOT OK					
Transmitter Installation:	⊍ ок	\square NOT OK				
		Instrument Test Inf	ormation and Resu	lts		
Cat Daint as Day Calibration	Calaulata d Flaur	Calaulatad O/D	LILIT Diaplay	UUT	Dovid	.tion
Set-Point as Per Calibration KIT	Calculated Flow (I/sec)	Calculated O/P (mA)	UUT Display (l/sec)	Measured	Devia (l/se	
KH	(1/360)	(IIIA)	(1/360)	Output (mA)	(1/30	, ()
0	0.00	4.00	0.01	4.01	-0.0)1
A	42.61	6.73	43.19	6.59	-0.5	58
В	85.22	9.45	85.63	9.41	-0.4	1 1
С	170.45	14.91	171.85	14.82	-1.4	10
-		ation of Tools used for				
Details		ol/Kit 1	Tool/ł		Tool/l	Kit 3
Device Description:	Calibrator	Oi/Title T	Electrical Multimeter		N/A	
Manufacturer:	Khrone		Fluke		N/A	
Model No:	GS8B		179		N/A	
MOGET NO.		ibration Tools Certific		nore Information		
	rtelel Gal	ibration roots octune	ates submittal for fi	nore information		
Verification Test Result:	✓ Pa	assed		Fail	☐ Not Ve	rified
	Measurement Wo	orks within Specification	on.			
Overall Remarks:		·				
Overali Remarks:						
						1
Service Technician :	Sagar Patel		_ Stamp	/Signature	()	
					0	
Printed Date:	August 31, 2020					
		End	of Report		Version: 1	19-12

INDUS
CONTROL

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VERIFICATION REPORT- SINTRANS LUT 400 OPEN CHANNEL FLOW MEASUREMENT

	www.Indus-Control.co	m	OI EN CHANNEL	LOW MEXIOO	IXEIVIEIVI	
Customer Name:	Tarres of Obsellaring		Cita/Dlant	050		
	Town of Shelburne		Site/Plant Address:	650 cork street,	LNIOCOLO	
Plant Name:	Mount Forest WWTP		Addiess.	Mount Forest, ON	N NUG2L3	
D	evice Information		g	Service Information	1	
Make:	Siemens		Date:	August 31, 2020	<u>.</u>	
Model:	SINTRANS LUT440		Report No:	CO1150-2009-11		
Order Code:	7ML50500CA111DA0		Job No:	CO1150-2009-11		
Serial No.:	PBD/M2280284		JOD NO.	CO1130-2009		
Seriai No	FBD/W2200204			Flow Details		
			Unit:	L/S		
			Flow Range:	0-100		
Inst. Reading	AS FOUND	AS LEFT	Current Output:	4-20 mA		
	0	0	· ·	0		
TOTALIZER (L)	0	0	20 mA Set Point			
FLOW (L/S)		0	20 IIIA Set Foliit	100		
	intenance Checklist	_	Remarks			
Visual Inspection:	☑ ok	□ NOT OK				
Electrical Inspection:	☑ OK	□ NOT OK				
		Programming Para	ameter of Instrument			
Param		Value	Parameter	Va	lue	
Sensor		Level	4 mA Set Point	0.00		
	Transducer		20 mA Set Point	100		
Unit		XRS-5	Flowrate Unit	L/S		
Low Calibration Point		1.286 m	Method of Flow calculation	Ratio Metric		
		0.54 m	Low Flow Cutoff	0 m		
Sensor		0.498 m	Zero Head Offset	0.5	3 m	
	Maximum Head 0.6 m		Flow Exponent	2.50		
			·			
	lı	nstrument Test Inf	ormation and Results			
Set-Point as Per	Calculated Flow	Calculated O/P		UUT Measured	Deviation	
Calibration KIT	(l/sec)	(mA)	UUT Display (I/sec)	Output (mA)	(l/sec)	
0	0.00	4.00	0.02	3.99	-0.02	
А	25.00	8.00	24.69	7.99	0.31	
В	50.00	12.00	49.95	11.99	0.05	
С	75.00	16.00	74.89	15.99	0.11	
D	100.00	20.00	99.56	19.99	0.44	
	Information	of Tools used for	Verification of the Instruments			
Device Description:	Manufac		Model	Soria	al No:	
Electrical Multimeter	Fluke		179	Serial No: As per provided		
Electrical Multimeter	- Tanto			As per l	orovided	
Verification Test	✓ Passe	ed.	☐ Fail	□ Not V	erified	
Result:					oou	
Overall Remarks:	Program parameters v	rerified				
					/	
Service Technician :	Dhaval Patel		Stamp/Signature	()/		
Printed Date:	August 31, 2020		C.a.mp/ Orginature	0		
i iiiileu Dale.	August 51, 2020		End of Report		Version: 19-12	



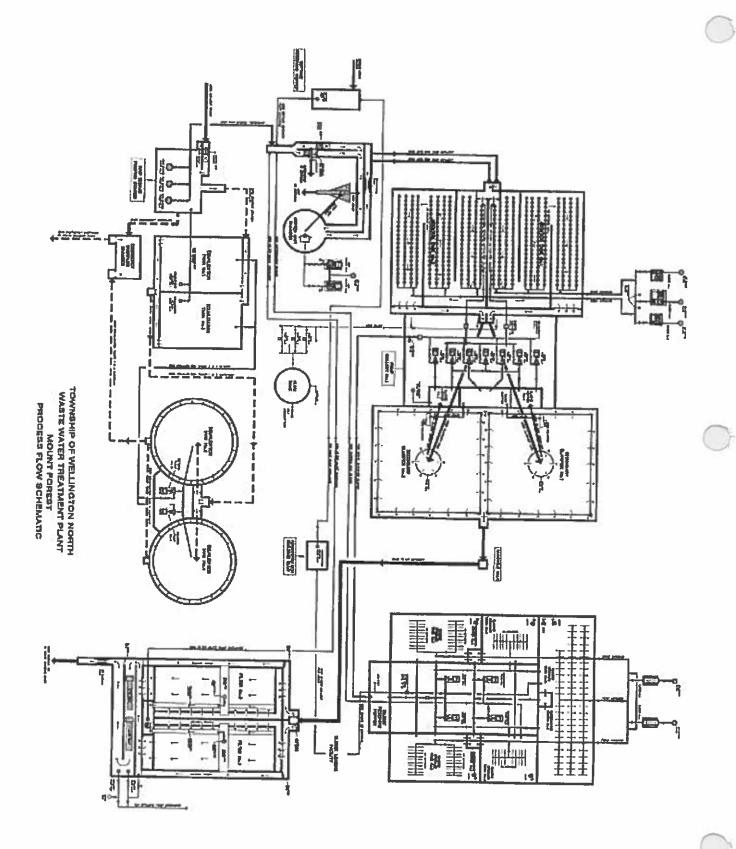
151 Superior Blvd, Unit #13 Mississauga, ON, L5T 2L1.

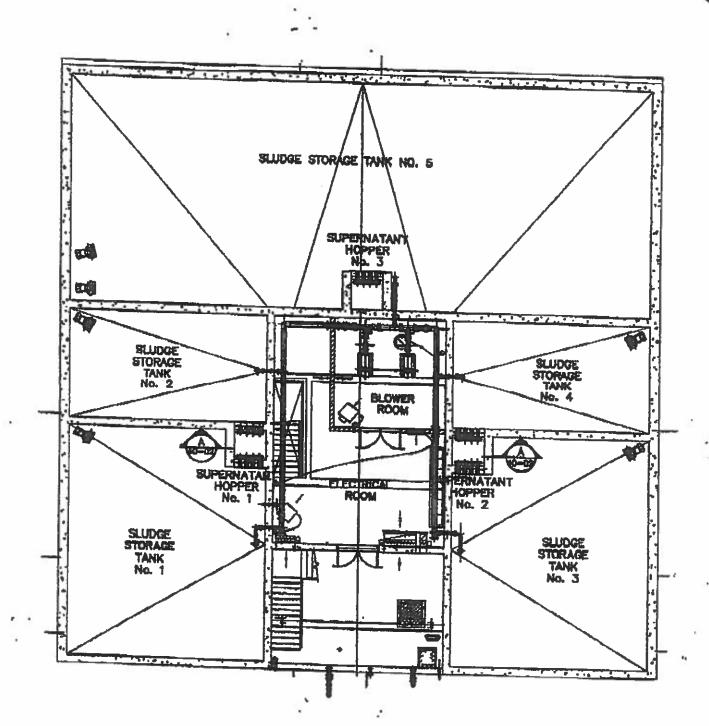
Customer Name:	Georgian Highlands Region		Site/Plant Address:		650 cork street,	
Plant Name:	Mount Forest WW	TP			Mount Forest, ON N0G2L3	
<u>Devi</u>	Device Information			Service Information		
Make:	Khrone Date: August 3		August 31, 2020			
Model:	IFC 300W		Report No:	Report No: CO1150-2009-12		
Order Code:	NA		Job No:		CO1150-2009	
Serial No.:	C080273		_			
Tag:	NA		_	<u>FI</u>	Flow Details	
Job Location:	Water street PS		Unit: //sec			
Asset ID:	205535		Flow Range:		0-300	
			Current Outp		4-20 mA	
Se	nsor Details		4 mA Set Po		0	
Line size:	12"		20 mA Set Point 300			
GK:	3.6471			Olite	000	
GKL:	7.295		Inst_Booding	•	AC FOLIND	ACIEET
			Inst. Reading	=	AS FOUND	AS LEFT
Mounting:	Remote		TOTALIZER		876198.38	8716205.87
			FLOW (I/sec)	0	0
	01 111 1		T			
	nance Checklist			Re	marks	
Visual Inspection:	☑ OK	☐ NOT OK				
Electrical Inspection:	☑ ok	☐ NOT OK				
Sensor Installation:	☑ ок	\square NOT OK				
Transmitter Installation:	☑ ok	\square NOT OK				
	<u> </u>	Instrument Test Inf	ormation and Resu	lts		
Set-Point as Per Calibration KIT	Calculated Flow (I/sec)	Calculated O/P (mA)	UUT Display (l/sec)	UUT Measured Output (mA)	Devia (I/se	
	0.00	1.00	0.00		0.7	20
0	0.00	4.00	0.36	3.99	-0.3	
A	39.29	6.10	39.25	6.07	0.0	
В	78.58	8.19	78.12	8.15	0.4	
С	157.15	12.38	156.85	12.28	0.3	30
	Informa	tion of Tools used fo	r Verification of the	Instruments		
Details	•	ol/Kit 1	Tool/ł		Tool/	Kit 3
Device Description:	Calibrator	7// 100	Electrical Multime			
Manufacturer:	Khrone		Fluke		N/A N/A	
	GS8B		179		N/.	
Model No:		bration Tools Certific		nara Information		<u> </u>
	Refer Call	bration roots Certific	ales submillarior n	lore information		
Verification Test Result:	✓ Pa	ssed		Fail	□ Not Ve	erified
	Measurement Wo	rks within Specificati	on.			
Overall Remarks:						
Service Technician :	Sagar Patel		_ Stamp	/Signature		/
Printed Date:	August 31, 2020					
		End	of Report		Version: 1	19-12

2020 Annual Performance Report Mount Forest Wastewater Treatment Plant Certificate of Approval No. 6134-73F3FHHU

Appendix D

Process Flow Schematic







2020 Annual Performance Report Mount Forest Wastewater Treatment Plant Certificate of Approval No. 6134-73F3FHHU

Appendix E

Incident Reports – Overflow/Bypass

Ontario Clean Water Agency Environmental Incident Report

Facility ID:	5541	EIncidentRep ort
Facility Name:	Mount Forest Wastewater Treatment Plant	
Address:	400 North Water Street	_
City:	Mount Forest	<u> </u>
Province:	Ontario	
Postal Code:	N0G 2K0	
Date of Occurrence:	11/01/2020	
Time of Occurrence:	07:50:50 AM	
Nature of the Incident		
	y O Level 2 Contingency O Level 3 Contingency Click here To Show	v the Definitions
Incident affected: A	ir 🛮 Water 🗀 Land 🗀 Nothing	
☐ Chlorine ☐ Sodium Hypochlori ☐ Calcium Chloride ☐ Aluminum Compou ☐ Arsenic ☐ Fluoride	☐ Oil/Diesel/Gas te ☐ Untreated or partly treated sewage ☐ Odours unds (Specify in Other) ☐ Water ☐ Iron Coagulants	
	Other:	
f this was a discharge, sp	ill or emission	
If a liquid, approximate	ely what quantity was released?: Litres	
If a gas, approximately	what quantity was released?:	
If a solid, approximate	ly what quantity was released?: Kg	
What was the source of	f release?:	
Heavy rainfall ex	ceeding the treatment capacity of the filters.	
Where did the release §	go?:	
South Saugeen R	iver	
If it entered a watercou	urse: • Yes () No	

If it went off site: ○ Yes ● No
Duration of the release?: 9 hours 45 minutes
Is the release now stopped?: ● Yes ○ No
Was there any damage? (i.e. property and/or environmental): ○ Yes ● No ○ N/A
If "Yes", describe below and fill out "Insurance Claim" report
Action(s) Taken
What actions were taken to control the incident?
Operator was on site after receiving a high flow alarm, found the sand filters were not able to handle the excessive flow. A decision was made to bypass the filters in order to allow the process to continue. Both UV banks were turned on to aid in disinfection. Operator closely monitored the plant and pump stations during the heavy rainfall to ensure pumps were running as needed.
What actions have been taken to remediate the incident?
Operator closely monitored the system throughout the heavy rainfall period, incident was resolved when the storm had passed. Normal Operation continued shortly after the weather event.
Was this a reportable spill or discharge?: ● Yes ○ No
If "Yes", at what time was it first reported to the MOE?
Wednesday January 15th, 2020
Was it reported to the MOE district office?: ● Yes ○ No
If "Yes", which office/location and who was the contact?: Rick Neubrand of the MECP Guelph District Office
Was it reported to MOE SAC?: ● Yes ○ No
If "Yes", at what time was it reported to MOE SAC?:
Wednesday January 15th, 2020
Was it reported to Municipality?: ● Yes ○ No
If "Yes", at what time was it reported to Municipality?:
Wednesday January 15th, 2020

External Assistance/Involvement

Was corporate or area office assistance requested?: ○ Yes ● No	
If "Yes", was it received?: \bigcirc Yes \bigcirc No	
Was external emergency assistance requested?: ○ Yes ● No	
If "Yes", from who?: Fire Department Ambulance or Hospital Police Municipality	☐ Canutec ☐ Coast Guard
Other:	
Was there any media involvment?: ○ Yes ● No	
If "Yes", who?:	
Was the public affected?: ○ Yes ● No	
If "Yes", how?:	
Updated By: David Jorge 24/01/2020 01:44:58 PM	

Comments:

Ontario Clean Water Agency Environmental Incident Report

Facility ID:	5541	EIncidentRep ort
Facility Name:	Mount Forest Wastewater Treatment Plant	
Address:	400 North Water Street	_
City:	Mount Forest	_
Province:	Ontario	
Postal Code:	NOG 2K0	
Date of Occurrence:	11/01/2020	
Time of Occurrence:	08:45:00 AM	
Nature of the Incident		
● Level 1 Contingence Incident affected: □ A	ry ○ Level 2 Contingency ○ Level 3 Contingency <i>Click here To Show</i> Air □ Water □ Land □ Nothing	v the Definitions
What was discharged of Chlorine Sodium Hypochlorical Calcium Chloride Aluminum Compou Arsenic Fluoride	Oil/Diesel/Gas	
	Other:	
If this was a discharge, sp	ill or emission	
If a liquid, approximat	ely what quantity was released?:461000 Litres	
If a gas, approximately	what quantity was released?:	
If a solid, approximate	ly what quantity was released?: Kg	
What was the source o	f release?:	
Heavy rainfall ex	acceeding the pump station capacity	
Where did the release	go?:	
South Saugeen R	iver	
If it entered a watercou	ırse: ● Yes ○ No	

If it went off site: ● Yes ○ No
Duration of the release?: 24 hours 30 min
Is the release now stopped?: ● Yes ○ No
Was there any damage? (i.e. property and/or environmental): ○ Yes ● No ○ N/A
If "Yes", describe below and fill out "Insurance Claim" report
Action(s) Taken
What actions were taken to control the incident?
Operator used pail Bio Sanitizer Disinfection Tablets, Calcium Hypochlorite and dropped in the effluent channel. There were holes drilled in the pail to help with saturation.
What actions have been taken to remediate the incident?
Operator closely monitored the system throughout the heavy rainfall period, incident resolved itself when the storm had passed. Normal Operation continued shortly after the weather event.
Was this a reportable spill or discharge?: ● Yes ○ No
If "Yes", at what time was it first reported to the MOE?
Wednesday January 15th, 2020
Was it reported to the MOE district office?: ● Yes ○ No
If "Yes", which office/location and who was the contact?: Rick Neubrand of the MECP Guelph District Office
Was it reported to MOE SAC?: ● Yes ○ No
If "Yes", at what time was it reported to MOE SAC?:
Wednesday January 15th, 2020
Was it reported to Municipality?: ● Yes ○ No
If "Yes", at what time was it reported to Municipality?:
Wednesday January 15th, 2020

External Assistance/Involvement

Was corporate or area office assistance requested?: ○ Yes ● No	
If "Yes", was it received?: \bigcirc Yes \bigcirc No	
Was external emergency assistance requested?: ○ Yes ● No	
If "Yes", from who?: Fire Department Ambulance or Hospital Police MOE Municipality	☐ Canutec☐ Coast Guard
Other:	
Was there any media involvment?: ○ Yes ● No	
If "Yes", who?:	
Was the public affected?: \bigcirc Yes $lacktriangle$ No	
If "Yes", how?:	
Updated By: Donald Irvine 30/01/2020 01:30:30 PM	

Comments: