Ontario Clean Water Agency
Agence Ontarienne Des Eaux

901 Main Street
P.O. Box 728
Geraldton, Ontario.
P0T 1M0
Fax: 807-854-0483

March 18, 2025

Ministry of the Environment
Sault Ste. Marie Regional Office
70 Foster Drive
Sault Ste. Marie ON
P6A 6V4

Attention: Marc Roberge
Water Compliance Officer (A)

Re: 2024 Performance Report for Hornepayne Wastewater Treatment Plant

Attached is the 20234 Performance Report for the **Hornepayne Wastewater Treatment Plant** located in The Corporation of the Township of Hornepayne**.** This report has been completed in accordance with Condition No. 10(6) cited in *Certificate of Approval Number 4306-A8ANUC* dated March 23 2016 and issued to the Township of Hornepayne.

This report was prepared by the Ontario Clean Water Agency on behalf of the Township of Hornepayne based on information kept on record at the Hornepayne Wastewater plant, and, the report covers the period from January 1, 2024 to December 31, 2024.

Should you have any questions or comments in regards to this annual report, please do not hesitate to contact David Hoffman at 807-854-7142.

Yours truly,

Patrick Couture

Patrick Couture
Senior Operations Manager
Ontario Clean Water Agency
Northwestern Ontario Hub

Copy to: CAO/Clerk
Hornepayne Wastewater Operators

2024 Annual Report

Hornepayne Wastewater Treatment Plant

Prepared by the Ontario Clean Water Agency

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

The Corporation of the Township of Hornepayne
Sewage Treatment Plant
2024 Annual Report

INTRODUCTION

In accordance with the ***Certificate of Approval*** *Number 4306-A8ANUC* dated March 23 2016, section 10 (6), the Corporation of the Township of Hornepayne - Hornepayne Sewage Treatment Plant is required to prepare an annual summary. The 2024 annual facility performance report summarizes important information regarding the treatment quality of the effluent wastewater, analytical test results, relevant activities and maintenance operations of the Works. Some of this information was submitted via the quarterly upload of information, but is being presented again as part of the new Annual Report based on the calendar year.

DESCRIPTION OF WORKS

Rated Capacity of Works	1364 m^3/day
Service Area	Township of Hornepayne
Service Population	980
Effluent Receiver	Little Jackfish River
Major Process	Extended Aeration Plant – Carrousel-type treatment system

EFFLUENT MONITORING AND RECORDING

Analytical tests to monitor the influent and effluent water quality on a monthly basis are conducted by a laboratory audited by the Canadian Association for Environmental Analytical Laboratories (CAEAL) and accredited by the Standards Council of Canada (SCC). Accreditation ensures that the laboratory has acceptable laboratory protocols and test methods in place. It also requires the laboratory to provide evidence and assurances of the proficiency of the analysts performing the test methods. Weekly analysis is performed in-house in order to maintain the process. When these samples are split with the accredited laboratories, it confirms the procedure accuracy of the in-house testing.

SAMPLING REQUIREMENTS

Samples of raw sewage and final effluent from the WWTP shall be collected and analyzed for the following parameters at the indicated frequencies.

Raw Sewage Monitoring – Samples to be collected at the end of the grit channel

Parameters	Sample Type	Frequency
BOD_5	Composite*	monthly
Total Suspended Solids	Composite*	monthly
Total Phosphorus	Composite*	monthly
Total Kjeldahl Nitrogen (TKN)	Composite*	monthly

* Composite of three grab samples, taken at time intervals of at least six hours over a 24-hour sampling period.

Final Effluent Monitoring - Samples to be collected at the V-notch at the end of the chlorine contact chamber

Parameters	Sample Type	Frequency
$CBOD_5$	Composite*	Monthly
Total Suspended Solids	Composite*	Monthly
Total Phosphorus	Composite*	Monthly
Ammonia – Nitrogen(total)	Composite*	Monthly
E. Coli	Grab	Biweekly
Total Chlorine Residual	Grab	Weekly
pH	Grab	Weekly
Temperature	Grab	Weekly

* Composite of three grab samples, taken at time intervals of at least six hours over a 24-hour sampling period.

PLANT PERFORMANCE

Effluent Limits as per C of A, condition 7

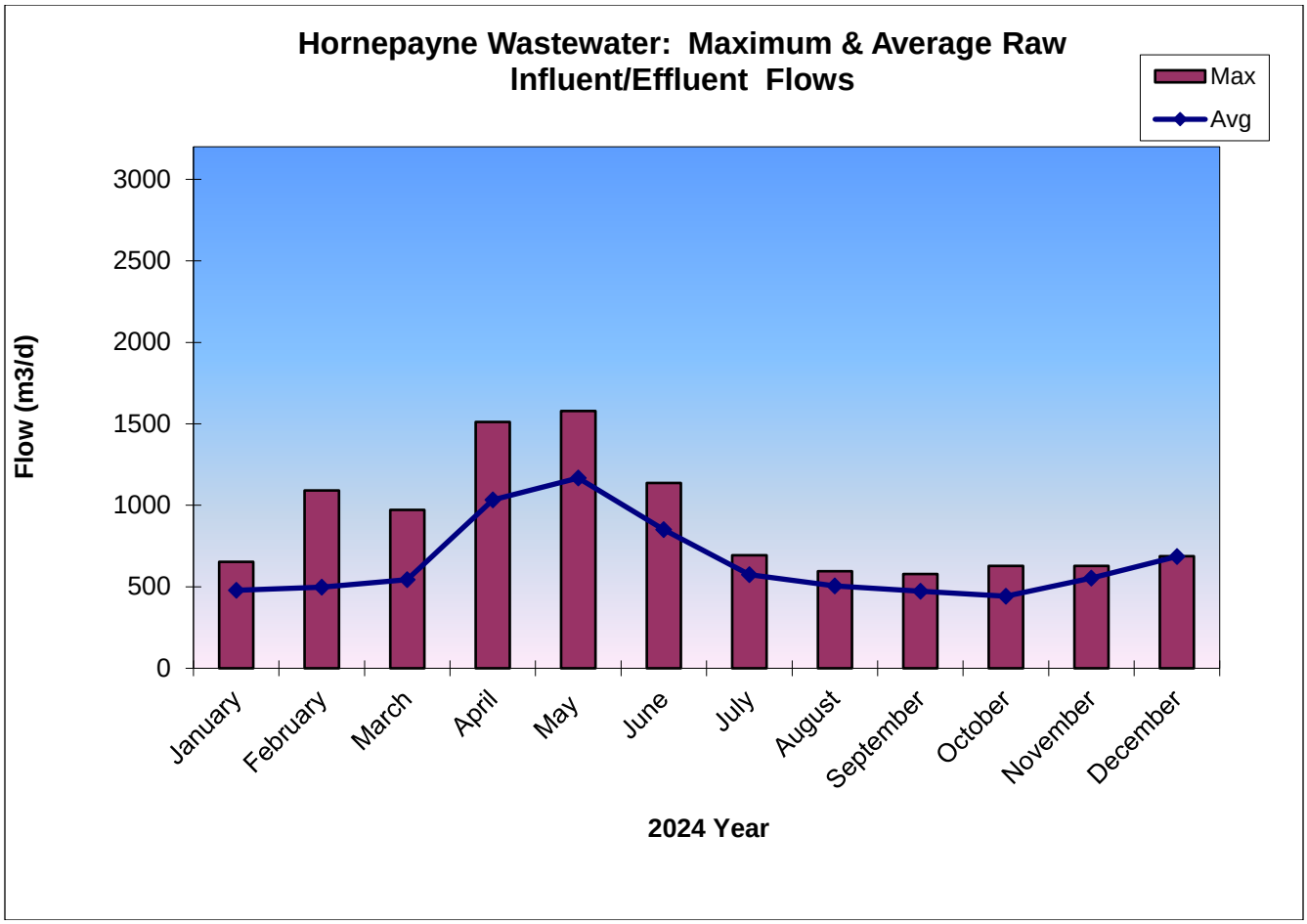
Effluent Parameter	Annual Average Concentration Limit	Average Loading
BOD_5	25.0 mg/L	34.1 kg/day
Total Suspended Solids	25.0 mg/L	34.1 kg/day
pH	Between 6.0 – 9.5 at all times	
E. Coli	200 organisms/100 ml (monthly *Geometric Mean Density*)	

Effluent Objectives (best effort) as per C of A, condition 6 (1)

Effluent Parameter	Concentration Objective	Loading Objective
$CBOD_5$	15.0 mg/L	20.5 kg/day
Total Suspended Solids	15.0 mg/L	20.5 kg/day
E. Coli	150 organisms/100 ml (monthly *Geometric Mean Density*)	
pH	6.5- 8.5	

EFFLUENT FLOWS

In order to review, at a glance, the performance of the WWTP, a graph has been prepared showing the average and maximum monthly effluent flows for the year; January to December 2024. The total effluent flows for this timeframe report as 232,217 m^3, compared to 266,200 $m^3$for the 2023 calendar year.



EFFLUENT SAMPLING

In the reporting year 2024, C*BOD*$_5$ was analyzed and the average was 3.10 mg/L; this is well within the effluent limits imposed by the *Certificate of Approval* condition 6.1 of 25.0 mg/L. This also was within the objective limits of 15 mg/l

The annual average suspended solids concentrations for the effluent in 2024 was 5.27 mg/L. This parameter is likewise within the annual compliance level of 25.0 mg/L. This parameter has an objective value of 15 mg/l. The objective limit was achieved in 2024.

The plant compliance criteria states; the pH of the effluent shall be maintained between 6.0 and 9.5, inclusive, at all times. The average pH during this period was 7.26 with a high of 7.89 and a low of 6.71. The effluent met the limits or the objective levels of 6.5 to 8.5.

The effluent parameter includes a requirement to maintain the monthly geometric mean density of e-coli less than of 200 organisms per 100 ml. In 2024, the maximum monthly geometric mean density for e-coli was 73.48 organisms per 100 ml in the month of May. The effluent met the objective for E-coli in 2024.

MAINTENANCE

OCWA maintains a Work Management System (WMS), which is a comprehensive computer based maintenance program that is based on a proactive preventive approach. This includes running checks, weekly, monthly and annual maintenance, as required. A full report on all maintenance carried out in 2024 is available upon request.
There were no modifications made to the Hornepayne Sewage Plant as per Schedule B of the ECA. The Federal Regulation requiring the effluent to be below 0.02 mg/l chlorine residual came into effect in 2021. The facility used a temporary dechlorination system in the effluent channel to meet this regulatory requirement until a permanent solution is engineered and installed. The final effluent samples are collected after the dechlorination.

OPERATIONAL ISSUES

The Federal Regulation requiring the effluent to be below 0.02 mg/l chlorine residual came into effect in 2021. In 2024 the regulation was modified to 0.1 mg/l. The facility used a temporary dechlorination system in the effluent channel to meet this regulatory requirement until a permanent solution is engineered and installed. The collection of the final effluent samples are collected after the dechlorination.

The operators have determined the correct dosing of the dechlorination chemicals to meet the treatment requirements. The residual values collected after the dechlorination met the Federal requirements. The summary table of the residuals is appended to this report.

Beginning in February there was issues with the blowers for the plant. Blower #1 would not work and blower #2 was faulting out. Blower number 2 had a ground fault in the motor. The motor was repaired and replaced in service. Blower #1 had a new VFD installed and returned to service September 26. The airline to the aeration was also cleaned and debris was found in the line.

On March 20, the Spruce Street lift station lost a phase in the power supply. The lift station was pumped out and hauled to the Marathon lift station and reintroduced into the collection system. The phase was repaired by Hydro One and the lift station returned to service.

Two sewer mains were reported blocked through the year. The lines were flushed by Hearst Septic. Several lines in the municipality were flushed to correct the issues in the system.

CALIBRATIONS

The owner shall maintain a continuous flow-measuring device to measure the flow rate within an accuracy of +/- 5% of actual rate of flow within the range of 10% to 100% of the full-scale reading of the measuring devices.

In 2024, calibration of the continuous measuring device was calibrated by Lakeside Process Controls; results attached. The units were within the required accuracy, as outlined in the criteria above.

SLUDGE SUMMARY

Sludge is hauled from the facility to the sludge drying beds site by the Hearst Septic. A summary of the sludge hauled for Hornepayne Sewage Treatment Plant is outlined in the following table.

Sludge Volume Hauled in 2024

Month	Total Volume(m3)
January	0
February	0
March	180
April	0
May	190
June	0
July	120
August	0
September	0
October	50
November	110
December	0
Total:	**650**

The sludge is disposed of in the Hornepayne Sludge Drying Beds. There is no expected change in the sludge handling methods or disposal areas for the WWTP in the coming year.

COMPLAINTS/ENVIRONMENTAL INCIDENT

There were no complaints reported in 2024. There were two calls from residents concerning slow flowing sewage lines. These calls resulted in the mains being flushed to restore normal flows.

BY-PASS REPORTS

There was no bypasses reported in 2024

Performance Assessment Report
1st January – December 31st 2024

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Performance Assessment Report

From 1/1/2024 to 12/31/2024 11:59:59 PM

5985 HORNEPAYNE WASTEWATER TREATMENT FACILITY 110001952

	1 / 2024	2/ 2024	3/ 2024	4/ 2024	5/ 2024	6/ 2024	7/ 2024	8/ 2024	9/ 2024	10/ 2024	11/ 2024	12/ 2024	<--Total-->	<--Avg-->	<--Max-->	<-Criteria->
Flows																
Raw Flow: Total - Influent m³/d	14,843.00	14,442.00	16,858.00	31,018.00	36,193.00	25,512.00	17,808.00	15,673.00	14,180.00	13,715.00	16,602.00	15,373.00	232,217.00			0.00
Raw Flow: Avg - Influent m³/d	478.81	498.00	543.81	1,033.93	1,167.52	850.40	574.45	505.58	472.67	442.42	553.40	495.90		634.47		1,364.00
Raw Flow: Max - Influent m³/d	654.00	1,091.00	972.00	1,511.00	1,579.00	1,138.00	694.00	596.00	578.00	628.00	629.00	688.00			1,579.00	0.00
Raw Flow: Count - Influent m³/d	31.00	29.00	31.00	30.00	31.00	30.00	31.00	31.00	30.00	31.00	30.00	31.00	366.00			0.00
Eff. Flow: Total - Effluent m³/d	14,843.00	14,442.00	16,858.00	31,018.00	36,193.00	25,512.00	17,808.00	15,673.00	14,180.00	13,715.00	16,602.00	15,373.00	232,217.00			0.00
Eff. Flow: Avg - Effluent m³/d	478.81	498.00	543.81	1,033.93	1,167.52	850.40	574.45	505.58	472.67	442.42	553.40	495.90		634.47		
Eff. Flow: Max - Effluent m³/d	654.00	1,091.00	972.00	1,511.00	1,579.00	1,138.00	694.00	596.00	578.00	628.00	629.00	688.00			1,579.00	0.00
Eff Flow: Count - Effluent m³/d	31.00	29.00	31.00	30.00	31.00	30.00	31.00	31.00	30.00	31.00	30.00	31.00	366.00			0.00
Carbonaceous Biochemical Oxygen Demand: CBOD																
Eff: Avg cBOD5 - Effluent mg/L	13.00	2.70	2.70	2.10	1.40	2.70	1.80	1.00	3.10	< 1.00	2.60	3.10		3.10	13.00	25.00
Eff: # of samples of cBOD5 - Effluent	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
Loading: cBOD5 - Effluent kg/d	6.224	1.345	1.468	2.171	1.635	2.296	1.034	0.506	1.465	< 0.442	1.439	1.537		1.97	6.22	34.100
Biochemical Oxygen Demand: BOD5																
Raw: Avg BOD5 - Influent mg/L	41.00	69.30	25.00	40.00	33.00	21.00	55.00	33.00	68.60	15.00	19.00	34.00		37.83	69.30	0.00
Raw: # of samples of BOD5 - Influent	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 - Influent mg/L	68.70	90.00	111.00	36.70	39.30	12.00	101.00	58.00	70.00	114.00	116.00	49.00		72.14	116.00	0.00
Raw: # of samples of TSS - Influent	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 - Effluent mg/L	3.70	6.00	11.00	5.70	5.70	5.70	5.00	5.00	1.70	5.00	4.70	4.00		5.27	11.00	25.00
Eff: # of samples of TSS - Effluent	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
Loading: TSS - Effluent kg/d	1.772	2.988	5.982	5.893	6.655	4.847	2.872	2.528	0.804	2.212	2.601	1.984		3.34	6.65	34.100
Percent Removal: TSS - Influent %	94.61	93.33	90.09	84.47	85.50	52.50	95.05	91.38	97.57	95.61	95.95	91.84		88.99	97.57	0.00
Total Phosphorus: TP																
Raw: Avg TP - Influent mg/L	0.90	2.17	0.72	1.40	1.01	0.89	0.49	1.62	1.65	1.21	0.07	0.88		1.08	2.17	0.00
Raw: # of samples of TP - Influent	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 - Effluent mg/L	0.37	0.58	0.42	0.41	0.23	0.18	0.37	0.75	0.77	0.99	0.34	0.30		0.47	0.99	
Eff: # of samples of TP - Effluent	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
Loading: TP - Effluent kg/d	0.176	0.288	0.230	0.422	0.266	0.151	0.214	0.379	0.364	0.438	0.185	0.148		0.30	0.44	
Percent Removal: TP - Influent %	59.40	73.36	41.25	70.86	77.43	80.00	23.93	53.70	53.33	18.26	-385.51	66.02		19.34	80.00	0.00
Nitrogen Series																
Raw: Avg TKN - Influent mg/L	11.90	12.80	10.90	8.60	9.60	7.50	9.00	16.50	13.60	10.40	7.90	11.70		10.87	16.50	0.00
Raw: # of samples of TKN - Influent	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 TAN - Effluent mg/L	< 0.01	< 0.01	0.06	0.03	0.12	0.01	0.03	< 0.01	0.09	< 0.01	< 0.01	0.04		< 0.04	< 0.12	
Eff: # of samples of TAN - Effluent	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
Loading: TAN - Effluent kg/d	< 0.005	< 0.005	0.033	0.031	0.140	0.009	0.017	< 0.005	0.043	< 0.004	< 0.006	0.020		< 0.02	< 0.14	
Disinfection																
Eff: GMD E. Coli - Effluent cfu/100mL	44.45	1.41	4.00	27.22	73.48	28.98	80.31	3.46	2.00	1.59	25.00	6.84				200.00
Eff: # of samples of E. Coli - Effluent	3.00	2.00	2.00	3.00	2.00	2.00	2.00	2.00	2.00	3.00	1.00	3.00	27.00			0.00

pH Monthly Process Data Report

Customized Monthly Report

From 01/01/2024 to 12/31/2024

Facility Name: HORNEPAYNE WASTEWATER TREATMENT FACILITY
Receiver: Little Jackfish River

Facility Org Number: 5985
Facility Owner: Municipality: The Corporation of the Township of Hornepayne
Service Population: 1050

Works: 110001952
Facility Classification: Class 2 Wastewater Treatment
Total Design Capacity: 1363 m3/day

Ontario Clean Water Agency
Agence Ontarienne Des Eaux

																2024			
Effluent	Jan 2024	Feb 2024	Mar 2024	Apr 2024	May 2024	Jun 2024	Jul 2024	Aug 2024	Sep 2024	Oct 2024	Nov 2024	Dec 2024	Total	Avg	Max	Min
pH - ---																
IH Month.Max	7.89	7.64	7.83	7.74	7.86	7.81	7.57	7.28	7.27	7.31	7.11	7.68			7.89	
IH Month.Mean	7.42	7.20	7.29	7.51	7.64	7.50	7.42	7.10	7.06	6.92	7.01	7.03		7.26		
IH Month.Min	7.02	6.85	6.93	7.27	7.15	7.29	7.22	6.91	6.82	6.71	6.86	6.89				6.71

De-chlorination Monthly Process Data Report

Customized Monthly Report

From 01/01/2024 to 12/31/2024

Facility Name: HORNEPAYNE WASTEWATER TREATMENT FACILITY
Receiver: Little Jackfish River

Facility Org Number: 5985
Facility Owner: Municipality: The Corporation of the Township of Hornepayne
Service Population: 1050

Works: 110001952
Facility Classification: Class 2 Wastewater Treatment
Total Design Capacity: 1363 m3/day

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														2024		
Dechlorination	Jan 2024	Feb 2024	Mar 2024	Apr 2024	May 2024	Jun 2024	Jul 2024	Sep 2024	Oct 2024	Nov 2024	Dec 2024	Total	Avg	Max	Min
Cl Residual: Total - mg/L															
IH Month.Max	0.02	0.02	0.02	0.02	0.02	0.07	0.02	0.02	0.02	0.03	0.02			0.07	
IH Month.Mean	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01	0.01		0.01		
IH Month.Min	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00				0.00

Biosolids Sludge Quality

TESTMARK Laboratories Ltd.
Committed to Quality and Service

CERTIFICATE OF ANALYSIS

Client:	Mark Van Breda	Work Order Number:	556100
Company:	OCWA - North West Region - Hornepayne WWTP	PO #:	ORG 5985
Address:	37 Honka Drive Hornepayne, ON, P0M 1Z0	Regulation: Project #:	Information not provided 110001952
Phone/Fax:	(807) 868-2380 / (807) 868-2410	DWS #:	110001952
Email:	mvanbreda@ocwa.com	Sampled By:	Mark Van Breda
Date Order Received:	11/7/2024	Analysis Started:	11/11/2024
Arrival Temperature:	11 C	Analysis Completed:	11/18/2024

WORK ORDER SUMMARY

ANALYSES WERE PERFORMED ON THE FOLLOWING SAMPLES. THE RESULTS RELATE ONLY TO THE ITEMS TESTED.

Sample Description	Lab ID	Matrix	Type	Comments	Date Collected	Time Collected
Annual Sludge	2077729	Sludge	None		11/5/2024	5:28 AM

METHODS AND INSTRUMENTATION

THE FOLLOWING METHODS WERE USED FOR YOUR SAMPLE(S):

Method	Lab	Description	Reference
Ammonia Water (A42)	Garson	Determination of Ammonia/Ammonium in Water	Modified from EPA 350.1
Anions Water (mg/L by IC) (A5)	Garson	Determination of Anions in Water by Ion Chromatography	Modified from SW846-9056A
ICPMS Tot. Water (A13)	Garson	Determination of Total Metals in Water by ICP/MS with Digestion	Modified from SW846-6020A
TP Water (A23.2)	Garson	Determination of Total Phosphorus in Water.	Modified from EPA 365.3 and ESS 310.2,
TSS (A27)	Garson	Determination of Total Suspended Solids in water by gravimetry	Modified from SM-2540

7 Margaret Street, Garson, ON, P3L 1E1
Phone: (705) 693-1121 Fax: (705) 693-1124 Web: www.testmark.ca

CERTIFICATE OF ANALYSIS

OCWA - North West Region - Hornepayne WWTP

Work Order Number: 556100

This report has been approved by:

Brad Halvorson, B.Sc.
Laboratory Director

WORK ORDER RESULTS

Sample Description	Annual Sludge		
Sample Date	11/5/2024 5:28 AM		
Lab ID	2077729		
Anions	Result	MDL	Units
Nitrate (as N)	<0.15	0.15*	mg/L

Sample Description	Annual Sludge		
Sample Date	11/5/2024 5:28 AM		
Lab ID	2077729		
General Chemistry	Result	MDL	Units
Ammonia (as N)	6.7	0.1*	mg/L
Total Phosphorus (as P)	132.0	0.6*	mg/L

Sample Description	Annual Sludge		
Sample Date	11/5/2024 5:28 AM		
Lab ID	2077729		
Metals (Total)	Result	MDL	Units
Total Aluminum	277000	1000*	ug/L

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CERTIFICATE OF ANALYSIS

OCWA - North West Region - Hornepayne WWTP

Work Order Number: 556100

Sample Description	Annual Sludge
Sample Date	11/5/2024 5:28 AM
Lab ID	2077729

Metals (Total)	Result	MDL	Units
Total Antimony	6.6	0.5	ug/L
Total Arsenic	29	1	ug/L
Total Barium	1880	100*	ug/L
Total Beryllium	<0.5	0.5	ug/L
Total Bismuth	140	10*	ug/L
Total Boron	206	2	ug/L
Total Cadmium	2.91	0.02	ug/L
Total Calcium	224000	5000*	ug/L
Total Cerium	27	1	ug/L
Total Cesium	1	1	ug/L
Total Chromium	90	1	ug/L
Total Cobalt	23.5	0.1	ug/L
Total Copper	12200	1000*	ug/L
Total Europium	1	1	ug/L
Total Gallium	102	1	ug/L
Total Iron	72900	2000*	ug/L
Total Lanthanum	16	1	ug/L
Total Lead	68.4	0.1	ug/L
Total Lithium	16	5	ug/L
Total Magnesium	40700	4	ug/L
Total Manganese	12000	100*	ug/L
Total Mercury	1.5	0.1	ug/L
Total Molybdenum	23	1	ug/L
Total Nickel	81	1	ug/L

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CERTIFICATE OF ANALYSIS

OCWA - North West Region - Hornepayne WWTP

Work Order Number: 556100

Sample Description	Annual Sludge
Sample Date	11/5/2024 5:28 AM
Lab ID	2077729

Metals (Total)	Result	MDL	Units
Total Niobium	<1	1	ug/L
Total Phosphorus	119000	5000*	ug/L
Total Potassium	21600	1000*	ug/L
Total Rhodium	<1	1	ug/L
Total Rubidium	33	1	ug/L
Total Scandium	8	1	ug/L
Total Selenium	26.5	0.2	ug/L
Total Silicon	28000	6000*	ug/L
Total Silver	6.0	0.1	ug/L
Total Sodium	28700	1000*	ug/L
Total Strontium	315	1	ug/L
Total Sulphur	66900	800	ug/L
Total Tellurium	<1	1	ug/L
Total Thallium	0.5	0.1	ug/L
Total Thorium	<1	1	ug/L
Total Tin	4	1	ug/L
Total Titanium	431	10*	ug/L
Total Tungsten	7	1	ug/L
Total Uranium	19	1	ug/L
Total Vanadium	60	1	ug/L
Total Yttrium	8	1	ug/L
Total Zinc	3190	10*	ug/L
Total Zirconium	26	1	ug/L

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CERTIFICATE OF ANALYSIS

OCWA - North West Region - Hornepayne WWTP

Work Order Number: 556100

Sample Description	Annual Sludge		
Sample Date	11/5/2024 5:28 AM		
Lab ID	2077729		
Solids	Result	MDL	Units
Total Suspended Solids	6200	20	mg/L

LEGEND

Dates: Dates are formatted as mm/dd/year throughout this report.

[rr]: After a parameter name indicates a re-run of that parameter. If multiple re-runs exist they are suffixed by a number. Sample may not have been handled according to the recommended temperature, hold time and head space requirements of the method after the initial analysis.

MDL: Method detection limit or minimum reporting limit.

Organic Soil Analysis: Data reported for organic analysis in soils samples are corrected for moisture content.

Quality Control: All associated Quality Control data is available on request.

Field Data: Reports containing Field Parameters represent data that has been collected and provided by the client. Testmark is not responsible for the validity of this data which may be used in subsequent calculations.

Sample Condition Deviations: A noted sample condition deviation may affect the validity of the result. Results apply to the sample(s) as received.

ICPMS Dustfall Insoluble: The ICPMS Dustfall Insoluble Portion method analyzes only the particulate matter from the Dustfall Sampler which is retained on the analysis filter during the Dustfall method.

Regulation Comparisons: Disclaimer: Please note that regulation criteria are provided for comparative purposes, however the onus on ensuring the validity of this comparison rests with the client.

*Dilution: In the MDL column an asterisk (*) indicates a sample dilution was performed.

7 Margaret Street, Garson, ON, P3L 1E1
Phone: (705) 693-1121 Fax: (705) 693-1124 Web: www.testmark.ca

V-TM-GEN-2018-6.3

OCWA-NorthWest Region-Hornepayne WWTP

TESTMARK Laboratories
Committed to Quality and Service

GENERAL CHAIN OF CUSTODY FORM

Page 1 of 1

Please use our Drinking Water Chain of Custody Form for regulated drinking water samples

REPORT TO:

Client: OCWA - Hornepayne
Address: 37 Honka Drive
Hornepayne, ON, P0M 1Z0
Contact: Mark Van Breda, Tyler McMullen
Email: see comments
Phone: 807-868-2380 Fax:

INVOICE TO: (if different from Report)

Client:
Address:
Contact:
Email:
Phone: Fax:

PROJECT INFORMATION:

TM Quote #:
Client P.O. #: ORG 5985
Client Project #: 110001952

REPORTING/INVOICING FORMAT
☐Fax ☑Email ☐Mail

QC DATA REPORTED
☐Yes ☒No

SAMPLE DISPOSAL
☐Hold ☑Dispose ☐Return

TURN AROUND TIME (TAT)*
☐1 Business Day ☐2 Business Days
☐3 Business Days ☑Standard
SPECIFIC DATE: Thurs 14
* Prior arrangements must be made for rush/weekend/holiday work

SAMPLING

DATE (mm-dd-yy)	TIME	MATRIX**	SAMPLE DESCRIPTION (This Will Appear On The Report)	NUMBER OF CONTAINERS	ANALYSIS REQUESTED: Total Metals and Hg	TSS	TP	NH3	NO3	FIELD pH (if applicable)	FIELD TEMP (if applicable)	METALS FIELD FILTERED? (Y/N?)	CONTAINERS RECEIVED	TEMP	Btl. Type	Lab ID
Nov5/24	0526	Bslq	Annual Sludge		X	X	X	X	X				3	11	PAN	2077729

LABORATORY USE ONLY
556100 D

**Matrix: B=Biota, GW=Ground Water, O=Oil, P=Paint, S=Soil, SL=Sludge, SW=Surface Water, W=Water, WW=Wastewater, SD=Sediment

☐High Concentrations Expected

COMMENTS/FIELD NOTES:

Additional report distribution:jaremy.hpayne@bellnet.ca; ddrawson@ocwa.com; mvanbreda@ocwa.com; palbert@ocwa.com; Dhoffman@ocwa.com; tmcmullen@ocwa.com; jdubois@ocwa.com

REGULATION
☐O.Reg. 153: (1 ☐ 2 ☐ 3 ☐ 4 ☐ 5 ☐ 6 ☐ 7 ☐ 8 ☐ 9 ☐)
☐Industrial / Commercial ☐Residential / Parkland ☐Agricultural
☐Coarse Soil ☐Fine Soil ☐Surface ☐Subsurface
☐O.Reg. 558 ☐PWQO ☐MISA ☐CofA ☐MDMER ☐ODWS ☐None
Sewer Use: ☐Sanitary ☐Storm Municipality:
☐Other:

Sampled By	Date	Time
Mark Van Breda	Nov 5/24	0548
Received By	Date	Time

Relinquished to Testmark By (Signature)	Date	Time
Shipped By: Purolator 335015888322	Shipping Reference	
Received at Testmark By: Michelle P	Date: 11/07/24	Time: 930

7 Margaret Street, Garson, ON, P3L 1E1 • 705-693-1121 (P) • 705-693-1124 (F) • customer.service@testmark.ca
100 Wilson Ave., Timmins, ON, P4N 2S9 • 705-531-1121 (P) • 705-531-1125 (F) • timmins@testmark.ca
6820 Kitimat Road Unit #1, Mississauga, ON, L5N 5M3 • 905-821-1112 (P) • 905-821-2095 (F) • mississauga@testmark.ca
1470 Government Road, Kirkland Lake, ON P2N 3J1 • 705-642-3361 (P) • 705-642-3222 (F) • kirkland.lake@testmark.ca

Analyzer Verification/Calibration Summary

Calibration Certificate 2967

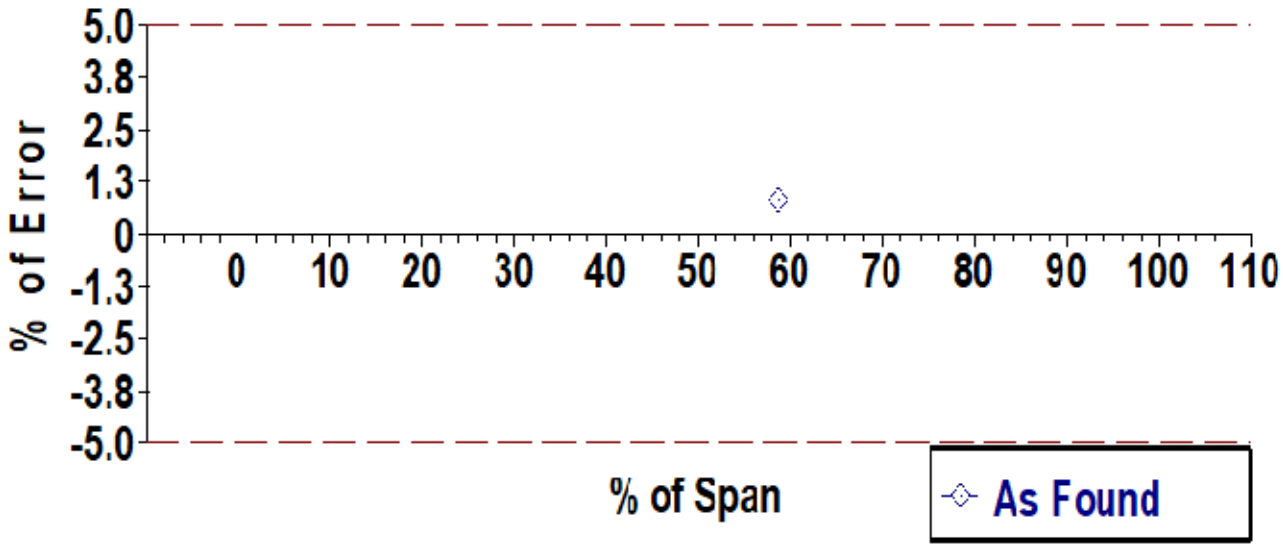
AMS Tag: Hornepayne Final Effluent

Calibrated at: 2024-06-11 7:01:12 PM

Calibration Result: PASSED

Device Identification	
AMS Tag:	Hornepayne Final Effluent
Device Tag:	
Manufacturer:	Siemens
Model Name:	Sitrans LUT440
Device Identifier:	3190364

Device Calibration Data			
Date/Time Calibrated:	2024-06-11 7:01:12 PM	Max Error Limit:	5.00 % of Span
Technician:	DESKTOP-79S6M3S \Lakeside	Notification Limit:	5.00 % of Span
User:	DESKTOP-79S6M3S \Lakeside	Adjustment Limit:	4.00 % of Span
Ambient Temperature:	20.00 deg C	Calibration Interval:	12 Months
Temperature Standard:	ITS-90	Critical Service:	Yes
Work Order Number:		Input Range:	0.00 - 24.39 cm
Service Reason:	Not Given	Output Range:	0.00 - 24.39 cm
Service Notes:			
Relationship: Linear			



Calibration Certificate 2967

AMS Tag: Hornepayne Final Effluent

Test Equipment					
AMS Tag	**Manufacturer**	**Model**	**Serial Number**	**Last Calibration**	**Calibration Interval:**
Fluke Distance Meter	Fluke	416D	0682056623		12 Months

Errors (%)			
Error	**Limit**	**Actual: As Found**	**Actual: As Left**
Maximum	5.0000	0.8200 (Pass)	(N/A)
Zero	(N/A)	(N/A)	(N/A)
Span	(N/A)	(N/A)	(N/A)
Linearity	(N/A)	(N/A)	(N/A)
Hysteresis	(N/A)	(N/A)	(N/A)

Calibration Results: As Found				
Test Point	**Input**	**Output**	**Output Error**	**Output Error (%)**
1	14.3000	14.5000	0.2000	0.8200

Calibration Results: As Left				
Test Point	**Input**	**Output**	**Output Error**	**Output Error (%)**

Authorization			
Title	Lakeside Process Controls - Asset Reliability Services		
Signature	Chris Foulds	**Date**	06/11/2024
Title			
Signature		**Date**	