



March 29, 2023

Municipality of West Grey
402813 Grey Road 4
RR#2
Durham, ON
N0G 1R0

Attention: Geoff Aitken, Public Works Director

**RE: Neustadt Sewage Lagoons
2022 Annual Report**

The 2022 Annual Operations Report for the Neustadt Sewage Lagoons is enclosed. The report is prepared in accordance with Environmental Compliance Approval Number 4631-6V4KUY annual report criteria and contains the following required components:

- A summary and interpretation of all influent, monitoring data and a review of the historical trend of the sewage characteristics and flow rates;
- A summary and interpretation of all final effluent monitoring data, including concentration, flow rates, and a comparison to the design objectives and compliance limits in the ECA, including an overview of the success and adequacy of the Works;
- A summary of any deviation from the monitoring schedule and reasons for the current reporting year and a schedule for the next reporting year;
- A description of any operating problems encountered and corrective actions taken;
- A summary of all normal and emergency repairs carried out on any major structure, equipment, apparatus, mechanism or thing forming a part of the works;
- A summary of any effluent quality assurance or control measures undertaken in the reporting period;
- A summary of the calibration and maintenance carried out on all influent and effluent monitoring equipment;
- A description of efforts made and results achieved in meeting the effluent objectives;
- An estimate of the sludge volumes in the lagoon cells. A summary of disposal locations and volumes of sludge disposed;
- A summary of any complaints received during the reporting period and any steps taken to address the complaints; and
- A summary of all bypass, overflow, spill or abnormal discharge events;
- A summary of all Notice of Modifications to Sewage Works
- A summary of efforts made to achieve conformance with Procedure F-5-1, including but not limited to projects undertaken and completed in the sanitary sewer system that result in overall Bypass/Overflow elimination including expenditures and proposed projects to eliminate bypass/overflows with estimated forecast for the year following that for which the report is submitted and a summary of efforts made to achieve conformance with Procedure F-5-5 and establish/maintain a Pollution Prevention and Control Plan (PPCP)

On behalf of the Municipality, a copy of this report is being sent to the MECP – Owen Sound District Office. If you have any questions, please direct your comments or concerns to the undersigned.

Sincerely,

VEOLIA WATER CANADA INC.

A handwritten signature in black ink, appearing to read "G Prangley", is written over the printed name.

Greg Prangley
Project Manager

Veolia North America

555 Rene-Levesque Blvd W Suite 1450
Montreal, QC H2Z 1B1

www.Veolianorthamerica.com

1 Influent Monitoring and Historical Trends (as per ECA Section 11.4(a))

The Neustadt Wastewater Treatment Facility achieved all Certificate of Approval (Environmental Compliance Approval) effluent limits during 2022.

The annual average day flow was 209m³/d (16% less than in 2021 and also well under the five year average of 249m³), approximately 50% of the system's design capacity of 418m³/d. The maximum day flow was 679m³ in December and was due to heavy precipitation. It is believed that there is a significant infiltration component to these flows as the daily flow processed by the drinking water system in 2022 was only about 115m³/d.

In the table below, a comparison of 2021 raw sewage parameters is compared to the five year average of those same parameters.

Raw Sewage Parameter	2022 Avg (mg/L)	Historical Five Year Avg.
TKN	52.5	39.0
TSS	426	281
BOD ₅	263	160
Total P	7.4	4.82

Overall, the 2022 raw sewage concentrations were all a fair bit higher than the five year historical averages.

2 Final Effluent Monitoring Data (as per ECA Section 11.4(b))

Plant performance data is compared to the performance criteria in the Table below

Parameter	Seasonal Average Concentration, mg/L		
	Spring Discharge (April 1-May 31)	Fall Discharge (Nov. 1- Dec. 31)	MOE Effluent Limits
CBOD ₅	13.6	3.8	30
Suspended Solids	22.8	5.2	40

Total Phosphorus	0.15	0.16	1
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Effluent was discharged from the lagoons from April 11-25 and Nov. 28-Dec. 12 inclusive. A total of approximately 62,538m³ was discharged in 2022.

Effluent pH was maintained between 6.0 and 9.0 throughout the discharge period.

Monthly MUMP (S1) forms for 2022 are attached.

3 Monitoring Schedule summary (11.4(c))

In 2022, effortw were made to collect monthly raw samples on the first Monday of each month; there were four months where this did not occur (Mar., Aug., Sept. Oct.). August was due to a stat holiday, while the others were delayed because of some operational issues at another West Grey wastewater facility and samples for both are typically collected at the same time.

Effluent samples were collected during each discharge period at the beginning of each discharge as well as at 25%, 50% and 75% drawdown and at the end of each seasonal discharge

4 Description of Operating Problems (as per ECA Section 11.4(d))

A review of flow data from the water and wastewater systems indicate there is significant infiltration into the Neustadt collection system. Some months have three times the flow going to the lagoons than is leaving the drinking water system.

A flow meter is now available to measure the flow being discharged from the lagoons. This was installed in time to read the fall flows. The spring flows were estimated.

5 Maintenance Summary (as per ECA Section 11.4(5))

- Alum tank venting inspected regularly
- Annual flow meter calibration and generator inspection completed
- Bar screens raked biweekly
- Diesel genset at pumping station tested monthly
- Wet well pumped out and washed down as required
- Regular safety checks (eyewash, fire extinguishers, emergency lighting)
- Some safety improvements (installed hose bib, replaced some lighting)

6 Effluent Quality Assurance or Control Measures (as per ECA Section 11.4(f))

A grab sample of raw sewage is collected monthly and tested for BOD₅, suspended solids (TSS), total phosphorus (TP) and Total Kjeldahl Nitrogen (TKN).

Prior to discharging the lagoon, the waste stabilization cells are sampled for BOD₅, TSS, TP, total ammonia, pH, hydrogen sulfide and dissolved oxygen.

During discharge periods in spring and fall, grab samples are collected at least twice weekly (minimum of five total) and analyzed for BOD₅, TSS, TP, TKN, ammonia-nitrogen, E. Coli and hydrogen sulfide.

All samples were sent to SGS Laboratories for analysis

7 Effluent Monitoring Equipment Calibration/Maintenance (as per ECA Section 11.4(g))

The raw flow meter was calibrated in April 2022. The calibration report is on file at the plant.

8 Compliance with Effluent Objectives (as per ECA Section 11.4(h))

Parameter	Spring Discharge	Annual Average Concentration (mg/L)	
		Fall Discharge	Effluent Objectives
CBOD ₅	13.6	3.8	25
Suspended Solids	22.8	5.2	30
Total Phosphorus	0.16	0.16	1

All effluent objectives were achieved in 2022

Average daily influent flow was about 50% of the rated capacity in 2022

9 Sludge Management (as per ECA Section 11.4(i))

Sludge depths were measured in Q3 2020. It is estimated that about 16-20% of the combined volume of the two cells contains sludge.

There was no sludge removed from this system in 2022. A clean out of the lagoons is not needed at this time. Another check of sludge depths will likely take place in 2025.

10 Summary of Complaints (as per ECA Section 11.4(j))

No complaints in 2022

11 Summary of Bypass, Overflow or Spills (as per ECA Section 11.4(k))

There were no bypass incidents in 2022.

12 Summary of all Notice of Modifications to Sewage Works

Not applicable

13 Summary of efforts to achieve conformance with Procedure F-5-1 and F-5-5

Bypasses are not typically an issue for this system. There have been no bypasses in recent years

The Municipality repaired five manholes where infiltration had previously been found

Municipality of West Grey
Neustadt Wastewater Lagoon System

2022	RAW FLOWS, m ³			BYPASSES			FINAL FLOWS, m ³			BOD5/CBOD5		TSS		TOTAL PHOS		TKN		Ammonia	Unionized Ammonia mg/L	H2S	E Coli
	Month	Total Flow	Avg Day, m ³	Max Day, m ³	Count	Total Flow, m ³	Duration, hrs	Total Flow	Avg Day, m ³	Max Day, m ³	Raw BOD5	Final CBOD5	Raw	Final	Raw	Final	Raw	Final	Final	Final	Final
1	6,433	208	278	0	n/a	n/a	n/a	n/a	n/a	478.0	n/a	189.0	n/a	2.36	n/a	19.9	n/a	n/a	n/a	n/a	n/a
2	8,029	287	577	0	n/a	n/a	n/a	n/a	n/a	307.0	n/a	597.0	n/a	8.05	n/a	53.0	n/a	n/a	n/a	n/a	n/a
3	11,185	361	518	0	n/a	n/a	n/a	n/a	n/a	82.0	n/a	71.0	n/a	2.57	n/a	31.7	n/a	n/a	n/a	n/a	n/a
4	8,352	278	347	0	n/a	n/a	50,330	3,355	3,595	235.0	13.6	420.0	22.8	4.89	0.15	36.1	8.3	6.9	0.07	0.01	116
5	6,364	205	251	0	n/a	n/a	n/a	n/a	n/a	287.0	n/a	334.0	n/a	6.86	n/a	55.9	n/a	n/a	n/a	n/a	n/a
6	5,982	199	343	0	n/a	n/a	n/a	n/a	n/a	271.0	n/a	584.0	n/a	5.60	n/a	38.0	n/a	n/a	n/a	n/a	n/a
7	4,233	137	169	0	n/a	n/a	n/a	n/a	n/a	293.0	n/a	465.0	n/a	12.60	n/a	90.2	n/a	n/a	n/a	n/a	n/a
8	4,346	140	224	0	n/a	n/a	n/a	n/a	n/a	122.0	n/a	232.0	n/a	4.75	n/a	49.5	n/a	n/a	n/a	n/a	n/a
9	4,262	142	244	0	n/a	n/a	n/a	n/a	n/a	121.0	n/a	520.0	n/a	10.60	n/a	81.2	n/a	n/a	n/a	n/a	n/a
10	4,672	151	214	0	n/a	n/a	n/a	n/a	n/a	295.0	n/a	806.0	n/a	7.10	n/a	40.0	n/a	n/a	n/a	n/a	n/a
11	4,620	154	276	0	n/a	n/a	2,325	775	872	237.0	1.0	426.0	7.0	7.70	0.15	73.5	1.3	0.1	0.008	0.0	5.0
12	7,502	242	679	0	n/a	n/a	9,883	824	872	428.0	2.8	469.0	4.5	15.30	0.17	61.3	1.23	0.10	0.02	0.01	8.0
Sum	75,980			0			62,538														
Average	6,332	209						1,651		263.0	5.8	426.1	11.4	7.4	0.16	52.5	3.6	2.3		0.02	n/a
Max	11,185		679						3,595	478.0	13.6	806.0	22.8	15.3	0.17	90.2		6.9		0.02	116.0
C of A limit		418.0									30.0		40.0		3.00						

Spring discharge: April 1-May 31

Fall discharge: Nov. 1-Dec. 31

Fields marked with an asterisk (*) are mandatory.

Project Name

Neustadt Sewage Lagoons

Facility Address

Unit Number	Street Number Lot 4	Street Name Concession 14	PO Box
Municipality/City/Town Neustadt (Municipality of West Grey)		Province ON - Ontario	Postal Code N0G 2N0
Operating Authority Veolia Water Canada Inc.			

Mailing Address

Unit Number 1450	Street Number 555	Street Name Rene-Levesque Blvd West	PO Box
Municipality/City/Town Montreal		Province QC - Quebec	Postal Code H2Z 1B1

File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month 0 1	Year 2 0 2 2	3 1	2	R
1 2	3 11	16	19	20 21	22	80

C.P.
3 5

Flows	Parameter Code	Dec.	Monthly Results
Total Flow (10 ³ m ³)	50010	3	6.433
Average Daily Flow (10 ³ m ³ /d)	50015	3	0.208
Maximum Daily Flow (10 ³ m ³ /d)	50020	3	0.278

Bypass	Parameter Code	Dec.	Monthly Results	# of Occurrences
Plant Bypass Volume (10 ³ m ³)	50270	3	0.000	0
Duration (hours)	81680	1		

Raw Sewage	Parameter Code	Dec.	Monthly Results	# of Samples
BOD ₅ (mg/L)	00001	0	478	1
Suspended Solids (mg/L)	00006	0	189	1
TKN (mg/L)	00020	2	19.90	1
Total Phosphorus (mg/L)	00033	1	2.4	1

Final Effluent	Parameter Code	Dec.	Monthly Results	# of Samples
Total Effl. Volume To Watercourse (10 ³ m ³)	50280	3	0.000	
Flow Duration (hours)	81680	1		
Cell Depth (m)	50290	1		
CBOD ₅ (mg/L)	00002	1		
BOD ₅ (mg/L)	00001	1		
Suspended Solids (mg/L)	00006	1		
Ammonia + Ammonium (mg/L)	00019	2		
TKN (mg/L)	00020	2		
Total Phosphorus (mg/L)	00033	2		

Disinfection	Parameter Code	Dec.	Monthly Results	# of Samples
Chlorine Used (kg as Cl ₂)	50320	1		
Chlorine Dosage (mg/L as Cl ₂)	80410	1		
Chlorine Residual (mg/L as Cl ₂)	80420	1		

Operator Telephone Number
519-369-6655

Operator Email Address *
fel.xue@veolia.com

Comments

Return completed form to:

- Environmental Monitoring and Reporting Branch, MECP, at WasteWaterReporting@ontario.ca And
- Your Environmental Officer at your local District/Area MECP Office.

Ministry Contact Email Address *
matthew.shannon@ontario.ca

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month 0 2	Year 2 0 2 2	2 8	2	R
1 2	3 11	16	19	20 21	22	80

C.P.

3 5	Flows	Parameter Code	Dec.	Monthly Results
12 13	Total Flow (10 ³ m ³)	50010	3	8.029
	Average Daily Flow (10 ³ m ³ /d)	50015	3	0.287
	Maximum Daily Flow (10 ³ m ³ /d)	50020	3	0.577
		30 34	35 38	46

3 5	Bypass	Parameter Code	Dec.	Monthly Results	# of Occurrences
12 13	Plant Bypass Volume (10 ³ m ³)	50270	3	0.000	0
	Duration (hours)	81680	1		
		30 34	35 38		

3 6	Raw Sewage	Parameter Code	Dec.	Monthly Results	# of Samples
12 13	BOD ₅ (mg/L)	00001	0	307	1
	Suspended Solids (mg/L)	00006	0	597	1
	TKN (mg/L)	00020	2	53.00	1
	Total Phosphorus (mg/L)	00033	1	8.1	1
		30 34	35 38		48 51

3 9	Final Effluent	Parameter Code	Dec.	Monthly Results	# of Samples
12 13	Total Effl. Volume To Watercourse (10 ³ m ³)	50280	3	0.000	
	Flow Duration (hours)	81680	1		
	Cell Depth (m)	50290	1		
	CBOD ₅ (mg/L)	00002	1		
	BOD ₅ (mg/L)	00001	1		
	Suspended Solids (mg/L)	00006	1		
	Ammonia + Ammonium (mg/L)	00019	2		
	TKN (mg/L)	00020	2		
	Total Phosphorus (mg/L)	00033	2		
		30 34	35 38		48 51

0 9	Disinfection	Parameter Code	Dec.	Monthly Results	# of Samples
12 13	Chlorine Used (kg as Cl ₂)	50320	1		
	Chlorine Dosage (mg/L as Cl ₂)	80410	1		
	Chlorine Residual (mg/L as Cl ₂)	80420	1		
		30 34	35 38		48 51

Operator Telephone Number
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Operator Email Address *
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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month 0 3	Year 2 0 2 2	3 1	2	R
1 2	3 11	16 19	20 21	22	80	

C.P.

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Flows

Total Flow	(10 ³ m ³)
Average Daily Flow	(10 ³ m ³ /d)
Maximum Daily Flow	(10 ³ m ³ /d)

Parameter Code	Dec.	Monthly Results
50010	3	11.185
50015	3	0.361
50020	3	0.518

3 5

Bypass

Plant Bypass Volume	(10 ³ m ³)
Duration	(hours)

50270	3	0.000
81680	1	

# of Occurrences	0
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3 6

Raw Sewage

BOD ₅	(mg/L)
Suspended Solids	(mg/L)
TKN	(mg/L)
Total Phosphorus	(mg/L)

Parameter Code	Dec.	Monthly Results
00001	0	82
00006	0	71
00020	2	31.70
00033	1	2.6

# of Samples	1
	1
	1
	1

3 9

Final Effluent

Total Effl. Volume To Watercourse (10 ³ m ³)	
Flow Duration	(hours)
Cell Depth	(m)
CBOD ₅	(mg/L)
BOD ₅	(mg/L)
Suspended Solids	(mg/L)
Ammonia + Ammonium	(mg/L)
TKN	(mg/L)
Total Phosphorus	(mg/L)

50280	3	0.000
81680	1	
50290	1	
00002	1	
00001	1	
00006	1	
00019	2	
00020	2	
00033	2	

# of Samples	

0 9

Disinfection

Chlorine Used	(kg as Cl ₂)
Chlorine Dosage	(mg/L as Cl ₂)
Chlorine Residual	(mg/L as Cl ₂)

50320	1	
80410	1	
80420	1	

# of Samples	
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4 6	1 1 0 0 0 2 4 4 3	Month 0 4	Year 2 0 2 2	3 0	2	R
1 2	3 11	16	19	20 21	22	80

C.P.							
3 5	Flows	Parameter Code	Dec.	Monthly Results			
12 13	Total Flow (10 ³ m ³)	50010	3	8.352			
	Average Daily Flow (10 ³ m ³ /d)	50015	3	0.278			
	Maximum Daily Flow (10 ³ m ³ /d)	50020	3	0.347			
3 5	Bypass					# of Occurrences	
12 13	Plant Bypass Volume (10 ³ m ³)	50270	3	0.000		0	
	Duration (hours)	81680	1				
3 6	Raw Sewage					# of Samples	
12 13	BOD ₅ (mg/L)	00001	0	235		1	
	Suspended Solids (mg/L)	00006	0	420		1	
	TKN (mg/L)	00020	2	36.10		1	
	Total Phosphorus (mg/L)	00033	1	4.9		1	
3 9	Final Effluent						
12 13	Total Effl. Volume To Watercourse (10 ³ m ³)	50280	3	50.330			
	Flow Duration (hours)	81680	1	336.0			
	Cell Depth (m)	50290	1				
	CBOD ₅ (mg/L)	00002	1	13.6		5	
	BOD ₅ (mg/L)	00001	1				
	Suspended Solids (mg/L)	00006	1	22.8		5	
	Ammonia + Ammonium (mg/L)	00019	2	6.86		5	
	TKN (mg/L)	00020	2	8.32		5	
	Total Phosphorus (mg/L)	00033	2	0.15		5	
0 9	Disinfection						
12 13	Chlorine Used (kg as Cl ₂)	50320	1				
	Chlorine Dosage (mg/L as Cl ₂)	80410	1				
	Chlorine Residual (mg/L as Cl ₂)	80420	1				

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4 6	1 1 0 0 0 2 4 4 3	Month 0 5	Year 2 0 2 2	3 1	2	R
1 2	3 11	16	19	20 21	22	80

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3 5

Flows	Parameter Code	Dec.	Monthly Results
Total Flow (10 ³ m ³)	50010	3	6.364
Average Daily Flow (10 ³ m ³ /d)	50015	3	0.205
Maximum Daily Flow (10 ³ m ³ /d)	50020	3	0.251

Bypass	Parameter Code	Dec.	Monthly Results	# of Occurrences
Plant Bypass Volume (10 ³ m ³)	50270	3	0.000	0
Duration (hours)	81680	1		

Raw Sewage	Parameter Code	Dec.	Monthly Results	# of Samples
BOD ₅ (mg/L)	00001	0	287	1
Suspended Solids (mg/L)	00006	0	334	1
TKN (mg/L)	00020	2	55.90	1
Total Phosphorus (mg/L)	00033	1	6.9	1

Final Effluent	Parameter Code	Dec.	Monthly Results	# of Samples
Total Effl. Volume To Watercourse (10 ³ m ³)	50280	3		
Flow Duration (hours)	81680	1		
Cell Depth (m)	50290	1		
CBOD ₅ (mg/L)	00002	1		
BOD ₅ (mg/L)	00001	1		
Suspended Solids (mg/L)	00006	1		
Ammonia + Ammonium (mg/L)	00019	2		
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Total Phosphorus (mg/L)	00033	2		

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Chlorine Used (kg as Cl ₂)	50320	1		
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Comments
no discharge in May

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4 6	1 1 0 0 0 2 4 4 3	Month 0 6	Year 2 0 2 2	3 0	2	R
1 2	3 11	16	19	20 21	22	80

C.P.

3 5	Flows	Parameter Code	Dec.	Monthly Results
12 13	Total Flow (10 ³ m ³)	50010	3	5.982
	Average Daily Flow (10 ³ m ³ /d)	50015	3	0.199
	Maximum Daily Flow (10 ³ m ³ /d)	50020	3	0.343
		30 34	35 38	46

3 5	Bypass	Parameter Code	Dec.	Monthly Results	# of Occurrences
12 13	Plant Bypass Volume (10 ³ m ³)	50270	3	0.000	0
	Duration (hours)	81680	1		
		30 34	35 38		

3 6	Raw Sewage	Parameter Code	Dec.	Monthly Results	# of Samples
12 13	BOD ₅ (mg/L)	00001	0	271	1
	Suspended Solids (mg/L)	00006	0	584	1
	TKN (mg/L)	00020	2	38.00	1
	Total Phosphorus (mg/L)	00033	1	5.6	1
		30 34	35 38		48 51

3 9	Final Effluent	Parameter Code	Dec.	Monthly Results	# of Samples
12 13	Total Effl. Volume To Watercourse (10 ³ m ³)	50280	3		
	Flow Duration (hours)	81680	1		
	Cell Depth (m)	50290	1		
	CBOD ₅ (mg/L)	00002	1		
	BOD ₅ (mg/L)	00001	1		
	Suspended Solids (mg/L)	00006	1		
	Ammonia + Ammonium (mg/L)	00019	2		
	TKN (mg/L)	00020	2		
	Total Phosphorus (mg/L)	00033	2		
		30 34	35 38		48 51

0 9	Disinfection	Parameter Code	Dec.	Monthly Results	# of Samples
12 13	Chlorine Used (kg as Cl ₂)	50320	1		
	Chlorine Dosage (mg/L as Cl ₂)	80410	1		
	Chlorine Residual (mg/L as Cl ₂)	80420	1		
		30 34	35 38		48 51

Operator Telephone Number
519-369-6655

Operator Email Address *
fel.xue@veolia.com

Comments
no discharge in June

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Ministry Contact Email Address *
matthew.shannon@ontario.ca

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Project Name

Neustadt Sewage Lagoons

Facility Address

Unit Number	Street Number Lot 4	Street Name Concession 14	PO Box
Municipality/City/Town Neustadt (Municipality of West Grey)		Province ON - Ontario	Postal Code N0G 2N0
Operating Authority Veolia Water Canada Inc.			

Mailing Address

Unit Number 1450	Street Number 555	Street Name Rene-Levesque Blvd West	PO Box
Municipality/City/Town Montreal		Province QC - Quebec	Postal Code H2Z 1B1

File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month 0 7	Year 2 0 2 2	3 1	2	R
1 2	3 11	16	19	20 21	22	80

C.P.

3 5

Flows

Total Flow	(10 ³ m ³)
Average Daily Flow	(10 ³ m ³ /d)
Maximum Daily Flow	(10 ³ m ³ /d)

Parameter Code	Dec.	Monthly Results
50010	3	4.233
50015	3	0.137
50020	3	0.169

3 5

Bypass

Plant Bypass Volume	(10 ³ m ³)
Duration	(hours)

50270	3	0.000
81680	1	

of Occurrences
0

3 6

Raw Sewage

BOD ₅	(mg/L)
Suspended Solids	(mg/L)
TKN	(mg/L)
Total Phosphorus	(mg/L)

00001	0	293
00006	0	465
00020	2	90.20
00033	1	12.6

of Samples
1
1
1
1

3 9

Final Effluent

Total Effl. Volume To Watercourse (10 ³ m ³)	
Flow Duration	(hours)
Cell Depth	(m)
CBOD ₅	(mg/L)
BOD ₅	(mg/L)
Suspended Solids	(mg/L)
Ammonia + Ammonium	(mg/L)
TKN	(mg/L)
Total Phosphorus	(mg/L)

50280	3	
81680	1	
50290	1	
00002	1	
00001	1	
00006	1	
00019	2	
00020	2	
00033	2	

of Samples
1
1
1
1
1
1
1
1

0 9

Disinfection

Chlorine Used	(kg as Cl ₂)
Chlorine Dosage	(mg/L as Cl ₂)
Chlorine Residual	(mg/L as Cl ₂)

50320	1	
80410	1	
80420	1	

of Samples
1
1
1

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Comments
no discharge in July

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Municipality/City/Town Montreal		Province QC - Quebec	Postal Code H2Z 1B1

File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month 0 8	Year 2 0 2 2	3 1	2	R
1 2	3 11	16	19	20 21	22	80

C.P.

3 5

Flows

Total Flow	(10 ³ m ³)
Average Daily Flow	(10 ³ m ³ /d)
Maximum Daily Flow	(10 ³ m ³ /d)

Parameter Code	Dec.	Monthly Results
50010	3	4.346
50015	3	0.140
50020	3	0.224

3 5

Bypass

Plant Bypass Volume	(10 ³ m ³)
Duration	(hours)

50270	3	0.000
81680	1	

of Occurrences
0

3 6

Raw Sewage

BOD ₅	(mg/L)
Suspended Solids	(mg/L)
TKN	(mg/L)
Total Phosphorus	(mg/L)

00001	0	122
00006	0	232
00020	2	49.50
00033	1	4.8

of Samples
1 1 1 1

3 9

Final Effluent

Total Effl. Volume To Watercourse (10 ³ m ³)	
Flow Duration	(hours)
Cell Depth	(m)
CBOD ₅	(mg/L)
BOD ₅	(mg/L)
Suspended Solids	(mg/L)
Ammonia + Ammonium	(mg/L)
TKN	(mg/L)
Total Phosphorus	(mg/L)

50280	3	
81680	1	
50290	1	
00002	1	
00001	1	
00006	1	
00019	2	
00020	2	
00033	2	

of Samples
1 1 1 1 1 1 1 1 1

0 9

Disinfection

Chlorine Used	(kg as Cl ₂)
Chlorine Dosage	(mg/L as Cl ₂)
Chlorine Residual	(mg/L as Cl ₂)

50320	1	
80410	1	
80420	1	

of Samples
1 1 1

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Comments
no discharge in August

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Mailing Address

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month 0 9	Year 2 0 2 2	3 0	2	R
1 2	3 11	16	19	20 21	22	80

C.P.

3 5	Flows	Parameter Code	Dec.	Monthly Results
12 13	Total Flow (10 ³ m ³)	50010	3	4.262
	Average Daily Flow (10 ³ m ³ /d)	50015	3	0.142
	Maximum Daily Flow (10 ³ m ³ /d)	50020	3	0.244
		30 34	35 38	46

3 5	Bypass	Parameter Code	Dec.	Monthly Results	# of Occurrences
12 13	Plant Bypass Volume (10 ³ m ³)	50270	3	0.000	0
	Duration (hours)	81680	1		
		30 34	35 38		

3 6	Raw Sewage	Parameter Code	Dec.	Monthly Results	# of Samples
12 13	BOD ₅ (mg/L)	00001	0	121	1
	Suspended Solids (mg/L)	00006	0	520	1
	TKN (mg/L)	00020	2	81.20	1
	Total Phosphorus (mg/L)	00033	1	10.5	1
		30 34	35 38		48 51

3 9	Final Effluent	Parameter Code	Dec.	Monthly Results	# of Samples
12 13	Total Effl. Volume To Watercourse (10 ³ m ³)	50280	3		
	Flow Duration (hours)	81680	1		
	Cell Depth (m)	50290	1		
	CBOD ₅ (mg/L)	00002	1		
	BOD ₅ (mg/L)	00001	1		
	Suspended Solids (mg/L)	00006	1		
	Ammonia + Ammonium (mg/L)	00019	2		
	TKN (mg/L)	00020	2		
	Total Phosphorus (mg/L)	00033	2		
		30 34	35 38		48 51

0 9	Disinfection	Parameter Code	Dec.	Monthly Results	# of Samples
12 13	Chlorine Used (kg as Cl ₂)	50320	1		
	Chlorine Dosage (mg/L as Cl ₂)	80410	1		
	Chlorine Residual (mg/L as Cl ₂)	80420	1		
		30 34	35 38		48 51

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Comments
no discharge in September

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Mailing Address

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Municipality/City/Town Montreal		Province QC - Quebec	Postal Code H2Z 1B1

File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month 1 0	Year 2 0 2 2	3 1	2	R
1 2	3 11	16	19	20 21	22	80

C.P.	3 5
12 13	

Flows	Parameter Code	Dec.	Monthly Results
Total Flow (10 ³ m ³)	50010	3	4.672
Average Daily Flow (10 ³ m ³ /d)	50015	3	0.151
Maximum Daily Flow (10 ³ m ³ /d)	50020	3	0.214

Bypass	Parameter Code	Dec.	Monthly Results	# of Occurrences
Plant Bypass Volume (10 ³ m ³)	50270	3	0.000	0
Duration (hours)	81680	1		

Raw Sewage	Parameter Code	Dec.	Monthly Results	# of Samples
BOD ₅ (mg/L)	00001	0	295	1
Suspended Solids (mg/L)	00006	0	806	1
TKN (mg/L)	00020	2	40.00	1
Total Phosphorus (mg/L)	00033	1	7.1	1

Final Effluent	Parameter Code	Dec.	Monthly Results	# of Samples
Total Effl. Volume To Watercourse (10 ³ m ³)	50280	3		
Flow Duration (hours)	81680	1		
Cell Depth (m)	50290	1		
CBOD ₅ (mg/L)	00002	1		
BOD ₅ (mg/L)	00001	1		
Suspended Solids (mg/L)	00006	1		
Ammonia + Ammonium (mg/L)	00019	2		
TKN (mg/L)	00020	2		
Total Phosphorus (mg/L)	00033	2		

Disinfection	Parameter Code	Dec.	Monthly Results	# of Samples
Chlorine Used (kg as Cl ₂)	50320	1		
Chlorine Dosage (mg/L as Cl ₂)	80410	1		
Chlorine Residual (mg/L as Cl ₂)	80420	1		

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Comments

no discharge in October

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month 1 1	Year 2 0 2 2	3 0	2	R
1 2	3 11	16	19	20 21	22	80

C.P.							
3 5	Flows	Parameter Code	Dec.	Monthly Results			
12 13	Total Flow (10 ³ m ³)	50010	3	4.620			
	Average Daily Flow (10 ³ m ³ /d)	50015	3	0.154			
	Maximum Daily Flow (10 ³ m ³ /d)	50020	3	0.276			
3 5	Bypass					# of Occurrences	
12 13	Plant Bypass Volume (10 ³ m ³)	50270	3	0.000		0	
	Duration (hours)	81680	1				
3 6	Raw Sewage					# of Samples	
12 13	BOD ₅ (mg/L)	00001	0	237		1	
	Suspended Solids (mg/L)	00006	0	426		1	
	TKN (mg/L)	00020	2	73.50		1	
	Total Phosphorus (mg/L)	00033	1	7.7		1	
3 9	Final Effluent						
12 13	Total Effl. Volume To Watercourse (10 ³ m ³)	50280	3	2.325			
	Flow Duration (hours)	81680	1	64.0			
	Cell Depth (m)	50290	1				
	CBOD ₅ (mg/L)	00002	1	1.0		1	
	BOD ₅ (mg/L)	00001	1				
	Suspended Solids (mg/L)	00006	1	7.0		1	
	Ammonia + Ammonium (mg/L)	00019	2	0.05		1	
	TKN (mg/L)	00020	2	1.30		1	
	Total Phosphorus (mg/L)	00033	2	0.15		1	
0 9	Disinfection						
12 13	Chlorine Used (kg as Cl ₂)	50320	1				
	Chlorine Dosage (mg/L as Cl ₂)	80410	1				
	Chlorine Residual (mg/L as Cl ₂)	80420	1				

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File No.	Works Number *	Data Period *		Days	Discharge Type	Update Code
4 6	1 1 0 0 0 2 4 4 3	Month 1 2	Year 2 0 2 2	3 1	2	R
1 2	3 11	16 19	20 21	22	80	

C.P.

3 5	Flows	Parameter Code	Dec.	Monthly Results
12 13	Total Flow (10 ³ m ³)	50010	3	7.502
	Average Daily Flow (10 ³ m ³ /d)	50015	3	0.250
	Maximum Daily Flow (10 ³ m ³ /d)	50020	3	0.679
		30 34	35 38	46

3 5	Bypass	Parameter Code	Dec.	Monthly Results	# of Occurrences
12 13	Plant Bypass Volume (10 ³ m ³)	50270	3	0.000	0
	Duration (hours)	81680	1		
		30 34	35 38		

3 6	Raw Sewage	Parameter Code	Dec.	Monthly Results	# of Samples
12 13	BOD ₅ (mg/L)	00001	0	428	1
	Suspended Solids (mg/L)	00006	0	469	1
	TKN (mg/L)	00020	2	61.30	1
	Total Phosphorus (mg/L)	00033	1	15.3	1
		30 34	35 38		48 51

3 9	Final Effluent	Parameter Code	Dec.	Monthly Results	# of Samples
12 13	Total Effl. Volume To Watercourse (10 ³ m ³)	50280	3	9.883	
	Flow Duration (hours)	81680	1	176.0	
	Cell Depth (m)	50290	1		
	CBOD ₅ (mg/L)	00002	1	2.8	4
	BOD ₅ (mg/L)	00001	1		
	Suspended Solids (mg/L)	00006	1	4.5	4
	Ammonia + Ammonium (mg/L)	00019	2	0.10	4
	TKN (mg/L)	00020	2	1.23	4
	Total Phosphorus (mg/L)	00033	2	0.17	4
		30 34	35 38		48 51

0 9	Disinfection	Parameter Code	Dec.	Monthly Results	# of Samples
12 13	Chlorine Used (kg as Cl ₂)	50320	1		
	Chlorine Dosage (mg/L as Cl ₂)	80410	1		
	Chlorine Residual (mg/L as Cl ₂)	80420	1		
		30 34	35 38		48 51

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