

TOWNSHIP OF EDWARDSBURGH CARDINAL INFORMATION ITEM

Committee: Public Works, Environmental Services & Facilities

Date: April 19, 2021

Department: Operations

Topic: 2021 Operations First Quarter Report

SECTION 1: PUBLIC WORKS

1.1 Loose and Hardtop Maintenance

- Gravel Roads grading continues with spot gravel additions
- Cold patching continues

 Increase in demand due to hard freeze and thaws
- Seasonal load restriction signage erected throughout portions of the Township

1.2 Winter Control

14 weather related Call-ins

1.3 Miscellaneous

- Culvert Thawing and removal of obstructions
- Sign maintenance ie: straightening, replacing
- Roadside garbage pick-up
- Roadside Brush and tree removal
- Several fallen trees removed from road allowances
- Repaired catch basin in Cardinal
- Connell Road culvert CCTV inspected (Ventnor)
- Sidewalk Sweeping in both Cardinal and Spencerville in collaboration with Counties
- 72 service requests issued. 5 outstanding (as of Apr 7th)

SECTION 2: WASTE DISPOSAL

140 vehicles attended the site over the 13 Saturdays in the quarter

Punch card sales through office: \$ 165.00
Punch card sales through Cardinal Library: \$ 0.00
Punch Card sales Burchell's \$ 252.00
Punch Card sales through PayPal: \$ 540.00
Total punch card sales for this quarter: \$ 957.00

• Staff limiting public entry to Transfer Station

• Spring leaf and brush Pick-up planned for May

SECTION 3: ENVIRONMENTAL SERVICES

3.1 2021 First Quarter WTP Flows Summery

	Cardinal Water Treatment Plant Flows					
<u>Month</u>	Monthly Flow (m³)	Minimum Daily Flow (m³)	Maximum Daily Flow (m³)	Average Daily Flow (m³)		
January	11922	282	518	385		
February	11498	292	535	411		
March	12248	334	773	395		

3.2 2021 First Quarter WTP Operational Parameters

S	Summary of Operational Parameters for the Cardinal Water Treatment Plant								
	UV Transmittance	Filter 1A	Filter 1B	Filter 2A	Filter 2B	рН	Pres	Raw Chlorine	Post Chlorine
Average	49.68	0.02	0.06	0.07	0.06	8.15	69.3	1.68	2.63
Unit	mJ/cm²	NTU	NTU	NTU	NTU		PSI	mg/L	mg/L
Compliance	40	1	1	1	1	6.5- 8.5	>20		>0.20

3.3 2021 First Quarter WTP Microbial Testing

Microbiological Testing for the Cardinal Water System					
	Number of Samples	Total Coliform	<u>E. coli</u>	HPC (min-max)	
January - March	52	0	0	<2-8	
Compliance for TC/EC is zero. HPC guideline is less than 500.					

3.4 2021 First Quarter Summary Report for the Industrial Park

Microbiological Testing- Industrial Park					
	Number of Samples	Total Coliform	E. coli	HPC (min-max)	
January - March	13	0	0	<2 -2	
Compliance for TC/EC is zero. HPC guideline is less than 500.					

Description	Prysmian Chlorine	Greenfield Chlorine	Pressure
	Residual	Residual	(PSI)
Quarterly Average	1.03	0.76	73.6
Units	mg/L	mg/L	PSI
Compliance	>0.05	>0.05	>20

Reilly Station chlorine residuals collected from March 22-29. Average reading was 1.43 mg/L.

3.5: 2021 First Quarter Report for Windmill Pumping Station

Month	Total Flow (m³)	Minimum Daily Flow (m³)	Maximum Daily Flow (m³)	Average Daily Flow (m³)
January	43975	1162	1828	1419
February	37688	1187	1796	1346
March	43757	665	1739	1412

3.6: 2021 First Quarter Report for Spencerville Lagoons

Month	Total Flow	Minimum Daily	Maximum Daily	Average Daily
	(m³)	Flow (m³)	Flow (m³)	Flow (m³)
January	4716	124	241	152
February	3294	84	143	118
March	9437	137	561	304

3.7: 2021 First Quarter Report for Cardinal WWTP

Month	Total Flow (m³)	Minimum Daily Flow (m³)	Maximum Daily Flow (m³)	Average Daily Flow (m³)
January	21203	513	975	684
February	12142	369	569	434
March	36297	526	2364	1171

2021 First Quarter Report for Cardinal WWTP

January to March	BOD	Suspended Solids	Total Phosphorus	Ammonia	E.Coli
	(mg/L)	(mg/L)	(mg/L)	(mg/L)	
Average	3	3.1	0.10	0.50	5
Units	mg/L	mg/L	mg/L	mg/L	CFU
Compliance	25	25	1		
Objective	<15	<15	<1	<4	<200

Month	BOD Removal	Suspended Solids Removal	Phosphorus Removal	Ammonia Removal
January	94%	94%	96%	99%
February	96%	96%	97%	96%
March	95%	95%	96%	97%

Director of Operations