



## TOWNSHIP OF EDWARDSBURGH CARDINAL INFORMATION ITEM

**Committee:** Committee of the Whole Administration & Operations

**Date:** November 13, 2023

**Department:** Operations

**Topic:** 2023 3rd Quarter Operations Report

**Background:**

### **SECTION 1: PUBLIC WORKS**

#### **1.1 Loose and Hardtop Maintenance**

- Gravel road maintenance grading as required.
- Hard-top cold patching – various locations.
- Pad and patch Scott Road.
- Pavement Markings in TWPEC Roadways and Parking

#### **1.2 Miscellaneous**

- Ventnor Bridge Armour stone and sidewalk work
- Twin Culvert installation on Rooney Rd
- Maintenance Ditch Work on Latimer Rd
- Install Stop sign, Stop Ahead sign, and Speed sign on Hands Rd
- Annual Sidewalk Inspections
- Annual Sign Inspections
- Completed roadside mowing for the 2023 season.
- Construction of a New Parking Area at the Ingredion Center- excavation and granular installation has been completed to date. Asphalt scheduled for location.
- Perform maintenance on units for winter season. Set up plow/wing harnesses on units.
- Received winter sand and salt for the winter season.

## **SECTION 2: Waste Disposal**

- 613 vehicles attended the site over the 14 Saturdays in the quarter.
- Punch card sales through office: \$ 1050.00
- Punch card sales through Cardinal Library: \$ 465.00
- Punch Card sales through Burchell's: \$ 4635.00
- Punch Card sales through PayPal/credit card: \$ 40.00
- Total punch card sales for this quarter: \$ 6190.00
- Brush and leaf pickup set for November 7<sup>th</sup> in Cardinal and 8<sup>th</sup> in Spencerville, Johnstown and New Wexford.
- Scrap Metal – 31.36 (t)
- Limerick Environmental Stats

<b>Month</b>	<b>Garbage (t)</b>
July	9.37
August	16.23
September	9.25
<b>3rd Q Total</b>	<b>34.85</b>

- HGC Curbside Collection Stats

<b>Month</b>	<b>Garbage (t)</b>	<b>Recycle (t)</b>
July	88.44	36.52
August	105.24	39.6
September	91.27	33.36
<b>3<sup>rd</sup> Q total</b>	<b>284.95</b>	<b>109.48</b>

### SECTION 3: Environmental Services

#### 3.1: 2023 3<sup>rd</sup> Quarter WTP Flows Summary

Cardinal Water Treatment Plant Flows				
Month	Monthly Flow (m <sup>3</sup> )	Minimum Daily Flow (m <sup>3</sup> )	Maximum Daily Flow (m <sup>3</sup> )	Average Daily Flow (m <sup>3</sup> )
July	14688	367	614	474
August	14783	295	691	477
September	14964	284	781	499

#### 3.2: 2023 3<sup>rd</sup> Quarter WTP Operational Parameters

Summary of Operational Parameters for the Cardinal Water Treatment Plant									
	UV Intensity	Filter 1A	Filter 1B	Filter 2A	Filter 2B	pH	Pressure	Raw Cl <sub>2</sub>	Post Chlorine
Average	52.12	0.03	0.03	0.08	0.03	8.01	69.71	1.59	2.45
Unit	mJ/cm <sup>2</sup>	NTU	NTU	NTU	NTU		PSI	mg/L	mg/L
Compliance	40	1	1	1	1	6.5-8.5	>20		>0.20

#### 3.3: 2023 3<sup>rd</sup> Quarter WTP Microbial Testing

Microbiological Testing for the Cardinal Water System				
	<u>Number of Samples</u>	<u>Total Coliform</u>	<u>E. coli</u>	<u>HPC (min-max)</u>
July-September	54	0-31	0	< 2 - 16
<b>Compliance for TC/EC is zero. HPC guideline is less than 500.</b>				

#### 3.4: 2023 3<sup>rd</sup> Quarter Summary Report for the Industrial Park

Microbiological Testing- Industrial Park				
	<u>Number of Samples</u>	<u>Total Coliform</u>	<u>E. coli</u>	<u>HPC (min-max)</u>
July-September	13	0	0	<2 -6
<b>Compliance for TC/EC is zero. HPC guideline is less than 500.</b>				

Description	Prysmian Chlorine Residual	Greenfield Chlorine Residual	Pressure (PSI)
Quarterly Average	0.75	0.58	72.90
Units	mg/L	mg/L	PSI
Compliance	>0.05	>0.05	>20

### 3.5: 2023 3<sup>rd</sup> Quarter Report for Windmill Pumping Station

Month	Total Flow (m <sup>3</sup> )	Minimum Daily Flow (m <sup>3</sup> )	Maximum Daily Flow (m <sup>3</sup> )	Average Daily Flow (m <sup>3</sup> )
July	47663	*0	2838	1538
August	61767	563	3106	1992
September	53305	369	2949	1777

\*No process water consumed.

### 3.6: 2023 3<sup>rd</sup> Quarter Report for Spencerville Lagoons

Month	Total Flow (m <sup>3</sup> )	Minimum Daily Flow (m <sup>3</sup> )	Maximum Daily Flow (m <sup>3</sup> )	Average Daily Flow (m <sup>3</sup> )
July	3130	83	119	101
August	3391	94	130	109
September	2975	88	129	99

### 3.7: 2023 3<sup>rd</sup> Quarter Report for Cardinal WWTP

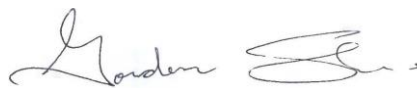
Month	Total Flow (m <sup>3</sup> )	Minimum Daily Flow (m <sup>3</sup> )	Maximum Daily Flow (m <sup>3</sup> )	Average Daily Flow (m <sup>3</sup> )
July	20505	549	907	661
August	21611	484	819	697
September	18738	420	837	625

July-September	BOD (mg/L)	Suspended Solids (mg/L)	Total Phosphorus (mg/L)	Ammonia (mg/L)	E.Coli
Average	3.0	4.0	0.06	0.15	3
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
July	96%	96%	97%	99%
August	95%	97%	97%	99%
September	97%	95%	98%	99%



CAO



Director of Operations



Manager of Public Works