



Ontario Clean Water Agency
Agence Ontarienne Des Eaux

Town of Essex
Stormwater Management System

2025 Annual Performance Report

ECA# 029-S701

Prepared for the Corporation of the Town of Essex
By the Ontario Clean Water Agency

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The 2025 Annual Performance Report regarding the Town of Essex Municipal Stormwater Management System has been prepared by the Ontario Clean Water Agency. This report is submitted to the Director on behalf of the Owner in accordance with Schedule E Section 5.2 of Environmental Compliance Approval (ECA) 029-S701. The Owner shall prepare an annual performance report and submit to the Director by April 30th of the calendar year following the period being reported upon.

5.2.2 A summary of all monitoring data along with an interpretation of the data and an overview of the condition and operational performance of the Authorized System and any Adverse Effects on the Natural Environment;

As per Schedule E Section 4.1 of the ECA, a Monitoring Plan is required to be implemented within twenty-four months of the publication of the Ministry’s monitoring guidance. Awaiting the publication of the Ministry’s stormwater monitoring guidance document.

5.2.3 A summary and interpretation of environmental trends based on all monitoring information and data for the previous five (5) years;

As per Schedule E Section 4.1 of the ECA, a Monitoring Plan is required to be implemented within twenty-four months of the publication of the Ministry’s monitoring guidance. Awaiting the publication of the Ministry’s stormwater monitoring guidance document.

5.2.4 A summary of any operating problems encountered and corrective actions taken;

None to report.

5.2.5 A summary of all inspections, maintenance, and repairs carried out on any major structure, equipment, apparatus, mechanism, or thing forming part of the Authorized System;

Stormwater ponds are inspected twice a year in the spring and fall, as well as following major storm events that precipitate at least 25mm of rain as documented by the Amherstburg meteorological site at [Climate.Weather.GC.Ca](https://climate.weather.gc.ca): Climate ID – 6130257.

These inspections assess the following:

- Debris or sediment accumulation in nearby roadways or flow routes.
- Damage or erosion to the facility components.
- Blockages of the inlets or outlets.
- Trash accumulation in or around the pond.
- Visual assessment of pond water level.
- Presence of algae or invasive species.
- Indication of spills (oil/grease).

Stormwater pond sediment measurements are performed every 5 years. The number of stormwater pond inspections and sediment measurements completed in 2025 are listed in Table 1.

Table 1: Stormwater Pond Monitoring

Inspection Type	Completed
Stormwater Pond Inspections (Spring/Fall/Other):	17
Stormwater Pond Post Storm Inspections (>25mm rain):	28
Stormwater Pond Sediment Measurements:	1

A summary of pump station maintenance during the reporting period is included as *Appendix I*.

Vegetation control and landscaping is performed as required.

5.2.6 A summary of the calibration and maintenance carried out on all monitoring equipment;

None to report.

5.2.7 A summary of any complaints related to the Sewage Works received during the reporting period and any steps taken to address the complaints;

The Town of Essex received multiple complaints regarding covered or damaged catch basins, or culverts overgrown with vegetation. All complaints were investigated and resolved.

5.2.8 A summary of all Alterations to the Authorized System within the reporting period that are authorized by this Approval including a list of Alterations that pose a Significant Drinking Water Threat;

A summary of the alterations to the authorized system in 2025 is included in Table 2.

Table 2: Summary of Alterations to the Authorized System

Development Name	Summary of Alteration	Assumed by the Town	Significant Drinking Water Threat
Essex Town Centre phase 1 & 5	New wet storm water management pond, volume = 17,870m ³ . Installation of new 1800mm storm sewer, 39.9m in length. Installation of new 1650mm storm sewer, 387.7m in length. Installation of new 1350mm storms sewer, 91.3 in length. Installation of new 1200mm storm sewer, 228.9m in length. Installation of new 900mm storm sewer, 201.2m in length. Installation of new 750mm storm sewer, 186.1m in length. Installation of new 600mm storm sewer, 82.3m in length. Installation of new 525mm storm sewer, 248.2m in length. Installation of new 450mm storm sewer, 149.8m in length. Installation of new 375mm storm sewer, 121.7m in length. Installation of new 300mm storm sewer, 73m in length.	Yes	No

5.2.9 A summary of all spills or abnormal discharge events;

None to report.

5.2.10 A summary of actions taken, including timelines, to improve or correct performance of any aspect of the Authorized System; and

None to report.

5.2.11 A summary of the status of actions for the previous reporting year.

None to report.

Appendix I

Summary of Pump Station Maintenance Report

Workorder Summary Report

Report Start Date: Jan 1, 2025 12:00 AM
 Report End Date: Dec 31, 2025 11:59 PM
 Location: 5537-SWEC,5537-SWET,5537-SWGL,5907-SWDA
 Work Order Type: CALL,CAP,CORR,EMER,IPOTS,PM
 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4300560	0000206521	METER LEVEL STORM PS GALOS	5537, Gallows Storm Water PS	PM	Calibration	1	YEARS	Meter Level Storm Ps Galos Insp/ Service (1y) - 5537	CLOSE	1/1/25 12:00 AM	1/28/25 10:28 AM	1/28/25 10:28 AM	Meter Level Storm Ps Galos Insp/ Service (1y) - 5537 - • Completed electrical WO
4320023			5907, Dalla Bona Estates Stormwater PS	PM	Inspection	1	MONTHS	Weekly Dalla Bona PS Checks (1m) - 5907	CLOSE	1/1/25 12:00 AM	1/30/25 02:51 PM	1/30/25 02:51 PM	Completed Jan 2nd - • Regular checks complete, pumped well down, OAD. Jan. 16th - • Regular checks complete • OAD Weekly Dalla Bona PS Checks (1m) - Jan. 23rd - • System OAD Completed Jan 30th - • Regular checks complete, system is OAD.
4367496			5907, Dalla Bona Estates Stormwater PS	PM	Inspection	1	MONTHS	Weekly Dalla Bona PS Checks (1m) - 5907	CLOSE	2/1/25 12:00 AM	2/27/25 02:48 PM	2/27/25 02:48 PM	Feb 7th - Feb. 10th - • Regular checks complete • Tested both pumps • OAD Weekly Dalla Bona PS Checks (1m) - Feb. 20th - • Checks completed • System OAD Completed Feb 27th - • Regular checks complete, pumped well down, OAD.

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				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4412041			5907, Dalla Bona Estates Stormwater PS	PM	Inspection	1	MONTHS	Weekly Dalla Bona PS Checks (1m) - 5907	CLOSE	3/1/25 12:00 AM	3/31/25 09:39 AM	3/31/25 09:39 AM	Feb 7th - Mar. 13th - • Regular checks complete • Test ran both pumps • OAD Weekly Dalla Bona PS Checks (1m) - Mar. 21st - • Regular checks • System OAD - • Regular checks complete, pumped well down. Station is OAD.
4463854	0000332002	PANEL CONTROL Storm PS Essex Town Centre	5537, Essex Town Centre Stormwater PS	PM	Refurbish/ Replace/Repair	1	YEARS	Panel Control Town Centre Storm PS Insp/Service (1y) - 5537	CLOSE	4/1/25 12:00 AM	4/14/25 02:43 PM	4/14/25 02:43 PM	Panel Control Town Centre Storm PS Insp/Service (1y) - 5537 - • Completed electrical WO
4463858	0000332006	PLC CONTROLLER Town Centre Storm PS	5537, Essex Town Centre Stormwater PS	PM	Refurbish/ Replace/Repair	1	YEARS	Panel PLC Town Centre Storm PS Insp/Service (1y) - 5537	CLOSE	4/1/25 12:00 AM	4/14/25 02:44 PM	4/14/25 02:44 PM	Panel PLC Town Centre Storm PS Insp/Service (1y) - 5537 - • Completed electrical WO
4463862	0000332005	METER LEVEL ESSEX TOWN CENTRE STORM PS	5537, Essex Town Centre Stormwater PS	PM	Calibration	1	YEARS	Meter Level Insp Town Centre Storm PS (1y) - 5537	CLOSE	4/1/25 12:00 AM	4/14/25 02:45 PM	4/14/25 02:45 PM	Meter Level Insp Town Centre Storm PS (1y) - 5537 - • Completed electrical WO
4463867	0000332011	PUMP SUBMERSIBLE #1 Essex Town Centre Storm PS	5537, Essex Town Centre Stormwater PS	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Town Centre Storm #1 annual Service (1y) - 5537	CLOSE	4/1/25 12:00 AM	7/15/25 07:41 AM	7/15/25 07:41 AM	Pump Town Centre Storm #1 annual Service (1y) - 5537 - • Completed electrical WO July 14 service completed -
4463876	0000332012	PUMP SUBMERSIBLE #2 Essex Town Centre Storm PS	5537, Essex Town Centre Stormwater PS	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Town Centre Storm #2 annual Service (1y) - 5537	CLOSE	4/1/25 12:00 AM	7/15/25 07:42 AM	7/15/25 07:42 AM	Pump Town Centre Storm #2 annual Service (1y) - 5537 - • Completed electrical WO July 14th service completed -

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4463885	0000332003	DRIVE VFD Town Centre Storm PS Pump #1	5537, Essex Town Centre Stormwater PS	PM	Refurbish/ Replace/Repair	1	YEARS	Drive VFD #1 Town Centre Storm Insp/Service (1y) - 5537	CLOSE	4/1/25 12:00 AM	4/14/25 02:48 PM	4/14/25 02:48 PM	Drive VFD #1 Town Centre Storm Insp/Service (1y) - 5537 - • Completed electrical WO
4463891	0000332004	DRIVE VFD Town Centre Storm PS Pump #2	5537, Essex Town Centre Stormwater PS	PM	Refurbish/ Replace/Repair	1	YEARS	Drive VFD #2 Town Centre Storm Insp/Service (1y) - 5537	CLOSE	4/1/25 12:00 AM	4/14/25 02:49 PM	4/14/25 02:49 PM	Drive VFD #2 Town Centre Storm Insp/Service (1y) - 5537 - • Completed electrical WO
4464534			5907, Dalla Bona Estates Stormwater PS	PM	Inspection	1	MONTHS	Weekly Dalla Bona PS Checks (1m) - 5907	CLOSE	4/1/25 12:00 AM	5/1/25 12:35 PM	5/1/25 12:35 PM	Apr. 10th - • Checked station • Tested both pumps • OAD Weekly Dalla Bona PS Checks (1m) - Apr. 17th - • System OAD April 24th - • Regular checks complete, station is OAD.
4522157			5907, Dalla Bona Estates Stormwater PS	PM	Inspection	1	MONTHS	Weekly Dalla Bona PS Checks (1m) - 5907	CLOSE	5/1/25 12:00 AM	5/28/25 01:54 PM	5/28/25 01:54 PM	May 8th - • Regular checks complete • OAD Weekly Dalla Bona PS Checks (1m) - May 15th - • Checked and OAD
4574546	0000206522	PUMP SUBMERSIBLE 01 Galo's Stormwater PS	5537, Gallows Storm Water PS	PM	Refurbish/ Replace/Repair	1	YEARS	Pump Galos Submersible Service (1y) - 5537	CLOSE	6/1/25 12:00 AM	7/24/25 07:47 AM	7/24/25 07:47 AM	Pump Galos Submersible Service (1y) - 5537 - • Completed electrical WO
4574555	0000206523	PUMP SUBMERSIBLE 01 Essex Crossing Stormwater PS	5537, Essex Crossing Storm Water PS	PM	Refurbish/ Replace/Repair	1	YEARS	Pump #1 Hearn's Storm Submersible Service (1y) - 5537	CLOSE	6/1/25 12:00 AM	7/24/25 07:45 AM	7/24/25 07:45 AM	Pump #1 Hearn's Storm Submersible Service (1y) - 5537 - • Completed electrical WO
4574564	0000206524	PUMP SUBMERSIBLE 02 Essex Crossing Stormwater PS	5537, Essex Crossing Storm Water PS	PM	Refurbish/ Replace/Repair	1	YEARS	Pump #2 Hearn's Storm Submersible Service (1y) - 5537	CLOSE	6/1/25 12:00 AM	7/24/25 07:44 AM	7/24/25 07:44 AM	Pump #2 Hearn's Storm Submersible Service (1y) - 5537 - • Completed electrical WO

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 Work Order Class:

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WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4590146	0000332007	METER LEVEL DALLA BONA STORM STATION	5907, Dalla Bona Estates Stormwater PS	PM	Calibration	1	YEARS	Meter Level Insp Dalla Bona Storm PS (1y) - 5907	CLOSE	6/1/25 12:00 AM	7/29/25 07:04 AM	7/29/25 07:04 AM	Meter Level Insp Dalla Bona Storm PS (1y) - 5907 - • Completed electrical WO
4590151	0000332021	PUMP SUBMERSIBLE #1 Dalla Bona Storm PS	5907, Dalla Bona Estates Stormwater PS	PM	Refurbish/ Replace/Repair	1	YEARS	Pump D.B. Storm #1 annual Service (1y) - 5907	CLOSE	6/1/25 12:00 AM	7/29/25 07:06 AM	7/29/25 07:06 AM	Pump D.B. Storm #1 annual Service (1y) - 5907 - • Completed electrical WO
4590160	0000332022	PUMP SUBMERSIBLE #2 Dalla Bona Storm PS	5907, Dalla Bona Estates Stormwater PS	PM	Refurbish/ Replace/Repair	1	YEARS	Pump D.B. Storm #2 annual Service (1y) - 5907	CLOSE	6/1/25 12:00 AM	7/29/25 07:07 AM	7/29/25 07:07 AM	Pump D.B. Storm #2 annual Service (1y) - 5907 - • Completed electrical WO
4590169	0000332008	PANEL CONTROL STORM WATER DALLA BONA	5907, Dalla Bona Estates Stormwater PS	PM	Refurbish/ Replace/Repair	1	YEARS	Panel Control Dalla Bona Storm PS Insp/Service (1y) - 5907	CLOSE	6/1/25 12:00 AM	7/29/25 07:08 AM	7/29/25 07:08 AM	Panel Control Dalla Bona Storm PS Insp/Service (1y) - 5907 - • Completed electrical WO
4590583			5907, Dalla Bona Estates Stormwater PS	PM	Inspection	1	MONTHS	Weekly Dalla Bona PS Checks (1m) - 5907	CLOSE	6/1/25 12:00 AM	6/27/25 01:39 PM	6/27/25 01:39 PM	Jun. 5th - • Tested both pumps • Tested HL alarm • OAD Weekly Dalla Bona PS Checks (1m) - June 12th - • System checked and OAD June 19th - • Regular checks complete, Station is OAD. June 27th -
4609509			5907, Dalla Bona Estates Stormwater PS	CALL	Refurbish/ Replace/Repair	0		Pump Fault Dolla Bona 5907	CLOSE		6/29/25 06:52 AM	6/29/25 07:20 AM	June 29th - • Received alarms for pump 1 and 2 fault @ 0652. Arrived on site at approx. 0715, reset pumps, observed operation, station OAD.

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 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4655722			5907, Dalla Bona Estates Stormwater PS	PM	Inspection	1	MONTHS	Weekly Dalla Bona PS Checks (1m) - 5907	CLOSE	7/3/25 12:00 AM	8/5/25 10:23 AM	8/5/25 10:23 AM	July 3 - <ul style="list-style-type: none"> Regular checks complete Test ran both pumps Tested HL alarm OAD July 17th - <ul style="list-style-type: none"> Regular checks complete OAD
4694041			5907, Dalla Bona Estates Stormwater PS	PM	Inspection	1	MONTHS	Weekly Dalla Bona PS Checks (1m) - 5907	CLOSE	8/1/25 12:00 AM	8/26/25 03:14 PM	8/26/25 03:14 PM	Weekly Dalla Bona PS Checks (1m) - Aug. 9th - <ul style="list-style-type: none"> Regular checks completed Tested high level alarm System OAD Weekly Dalla Bona PS Checks (1m) - Aug. 19th - <ul style="list-style-type: none"> Regular checks completed System OAD Aug. 26th - <ul style="list-style-type: none"> Regular checks complete Teste ran both pumps OAD
4744845			5907, Dalla Bona Estates Stormwater PS	PM	Inspection	1	MONTHS	Weekly Dalla Bona PS Checks (1m) - 5907	CLOSE	9/1/25 12:00 AM	10/1/25 07:11 AM	10/1/25 07:11 AM	Weekly Dalla Bona PS Checks (1m) - Sept. 4th - <ul style="list-style-type: none"> Regular checks Tested high level alarm System OAD Sept. 11th - <ul style="list-style-type: none"> Regular checks complete Pumped well down OAD

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 Work Order Class:

				WorkOrder		PM Schedule		Workorder Details					
WO #	Asset ID	Asset Description	Location Description	Type	Class	FEQ	Units	Work Order Description	Status	Schedule Start	Actual Start	Actual Finsh	WorkLog Detail
4799240			5907, Dalla Bona Estates Stormwater PS	PM	Inspection	1	MONTHS	Weekly Dalla Bona PS Checks (1m) - 5907	CLOSE	10/1/25 12:00 AM	11/18/25 08:31 AM	11/18/25 08:31 AM	Weekly Dalla Bona PS Checks (1m) - Oct. 1st - • System checked • Tested high level alarm • OAD Oct. 7th - • Regular checks complete • Test ran both pumps • OAD
4847851			5907, Dalla Bona Estates Stormwater PS	PM	Inspection	1	MONTHS	Weekly Dalla Bona PS Checks (1m) - 5907	CLOSE	11/1/25 12:00 AM	11/28/25 12:46 PM	11/28/25 12:46 PM	November Checks - Weekly Dalla Bona PS Checks (1m) - Nov. 28th - • System OAD
4893158			5907, Dalla Bona Estates Stormwater PS	PM	Inspection	1	MONTHS	Weekly Dalla Bona PS Checks (1m) - 5907	CLOSE	12/1/25 12:00 AM	12/30/25 02:28 PM	12/30/25 02:28 PM	December 5th 2025 - • Regular checks complete, pumped well down, OAD. December 19th 2025 - • Regular checks complete, station OAD. Weekly Dalla Bona PS Checks (1m) - Dec. 23rd - • Checked and OAD Dec. 30th - • Regular checks complete • Test ran both pumps • OAD