



# 2023 ANNUAL PERFORMANCE REPORT

Township of East Zorra-Tavistock

CLI ECA 317-S701

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This report has been prepared in compliance with Schedule E, CLI ECA 317-S701 issued by the Ministry of Environment, Conservation and Parks for the Township of East Zorra-Tavistock (Township) Stormwater Management System.

## 1. Overview of Condition and Operation

This section includes 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 Effect on the Natural Environment.

The Township does not operate a monitoring program related to the Authorized System at this time; as such, there is no summary and interpretation of the monitoring data.

The summary of condition and operational performance of each system component is based on observations during site visits, complaints, and repairs during the reporting system. A binary scoring system was used to evaluate the system components. A scoring of “Acceptable” is used when the system component is operating as designed; the major goal of the system is being achieved. A scoring of “Unacceptable” is used when the system component is not operating as designed. 100% of the system is operating at an Acceptable level.

Table 1. Summary of Condition and Operation

<b>System Component</b>	<b>Condition</b>	<b>Operational Performance</b>
<b>Storm Sewers</b>	Acceptable	Acceptable
<b>Pond 1</b>	Acceptable	Acceptable
<b>Pond 2</b>	Acceptable	Acceptable
<b>Pond 3</b>	Acceptable	Acceptable
<b>Pond 4</b>	Acceptable	Acceptable
<b>Pond 5</b>	Acceptable	Acceptable
<b>Pond 6</b>	Acceptable	Acceptable
<b>Pond 7</b>	Acceptable	Acceptable
<b>Pond 8</b>	Acceptable	Acceptable
<b>Cupolex Unit</b>	Acceptable	Acceptable
<b>OGS 1</b>	Acceptable	Acceptable
<b>OGS 2</b>	Acceptable	Acceptable
<b>OGS 3</b>	Acceptable	Acceptable

During this reporting period no adverse effects on the Natural Environment were noted.

## 2. Environmental Trends

This section includes a summary and interpretation of environmental trends based on all monitoring information and data for the previous five (5) years.

The Township does not operate a monitoring program related to the Authorized System at this time; as such, there is no summary or interpretation of environmental trends based on monitoring information and data from the last five (5) years to offer at this time.

### 3. Operating Problems

This section contains a summary of any operating problems encountered and corrective actions taken.

Table 2. Summary of Operating Problems

System Component	Operating Problem	Corrective Action
<b>Storm Sewers</b>	None Encountered	Not Applicable
<b>Pond 1</b>	None Encountered	Not Applicable
<b>Pond 2</b>	None Encountered	Not Applicable
<b>Pond 3</b>	None Encountered	Not Applicable
<b>Pond 4</b>	None Encountered	Not Applicable
<b>Pond 5</b>	None Encountered	Not Applicable
<b>Pond 6</b>	None Encountered	Not Applicable
<b>Pond 7</b>	None Encountered	Not Applicable
<b>Pond 8</b>	None Encountered	Not Applicable
<b>Cupolex Unit</b>	None Encountered	Not Applicable
<b>OGS 1</b>	None Encountered	Not Applicable
<b>OGS 2</b>	None Encountered	Not Applicable
<b>OGS 3</b>	None Encountered	Not Applicable

### 4. Inspections, Maintenance, and Repairs

This section includes 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.

#### 4.1 Pond 1

Table 3. Summary of Inspection, Maintenance, and Repairs – Pond 1

Pond 1		
Number of Inspections	Number of Maintenance Visits	Number of Repairs
5	3	0

### Pond 1 Inspection Summary

One annual inspection of the full facility was undertaken in the summer. The remainder of the inspections were to verify the inlet/outlets were clear and functional in the spring, fall, and after significant rainfall events. The facility was noted to be working as designed.

### Pond 1 Maintenance Summary

All maintenance focused on routine vegetation removal from the site. Approximately 1m<sup>3</sup> of vegetation was removed during this reporting period.

### Pond 1 Repair Summary

No repairs occurred during this reporting period.

## 4.2 Pond 2

Table 4. Summary of Inspection, Maintenance, and Repairs – Pond 2

Pond 2		
Number of Inspections	Number of Maintenance Visits	Number of Repairs
4	1	0

### Pond 2 Inspection Summary

One annual inspection of the full facility was undertaken in the summer. The remainder of the inspections were to verify the inlet/outlets were clear and functional in the spring, fall, and after significant rainfall events. The facility was noted to be working as designed.

### Pond 2 Maintenance Summary

All maintenance focused on routine vegetation removal from the site and trash removal. Approximately 4.4m<sup>3</sup> of vegetation and 0.015m<sup>3</sup> of trash were removed during this reporting period.

### Pond 2 Repair Summary

No repairs occurred during this reporting period.

### 4.3 Pond 3

Table 5. Summary of Inspection, Maintenance, and Repairs – Pond 3

Pond 3		
Number of Inspections	Number of Maintenance Visits	Number of Repairs
4	3	0

#### Pond 3 Inspection Summary

One annual inspection of the full facility was undertaken in the summer. The remainder of the inspections were to verify the inlet/outlets were clear and functional in the spring, fall, and after significant rainfall events. The facility was noted to be working as designed.

#### Pond 3 Maintenance Summary

All maintenance focused on routine vegetation and trash removal from the site. Approximately 0.5m<sup>3</sup> of vegetation and 0.75m<sup>3</sup> of trash were removed during this reporting period.

#### Pond 3 Repair Summary

No repairs occurred during this reporting period.

### 4.4 Pond 4

Table 6. Summary of Inspection, Maintenance, and Repairs – Pond 4

Pond 4		
Number of Inspections	Number of Maintenance Visits	Number of Repairs
3	0	0

#### Pond 4 Inspection Summary

Site inspections were conducted to verify the inlet/outlets were clear and functional in the spring, fall, and after significant rainfall events. The facility was noted to be working as designed.

#### Pond 4 Maintenance Summary

No maintenance needs were identified during the inspections. No maintenance occurred during this reporting period.

#### Pond 4 Repair Summary

No repairs occurred during this reporting period.

#### 4.5 Pond 5

Table 7. Summary of Inspection, Maintenance, and Repairs – Pond 5

Pond 5		
Number of Inspections	Number of Maintenance Visits	Number of Repairs
3	0	0

#### Pond 5 Inspection Summary

Site inspections were conducted to verify the inlet/outlets were clear and functional in the spring, fall, and after significant rainfall events. The facility was noted to be working as designed.

#### Pond 5 Maintenance Summary

No maintenance needs were identified during the inspections. No maintenance occurred during this reporting period.

#### Pond 5 Repair Summary

No repairs occurred during this reporting period.

#### 4.6 Pond 6

Table 8. Summary of Inspection, Maintenance, and Repairs – Pond 6

Pond 6		
Number of Inspections	Number of Maintenance Visits	Number of Repairs
3	2	0

#### Pond 6 Inspection Summary

One annual inspection of the full facility was undertaken in the summer. The remainder of the inspections were to verify the inlet/outlets were clear and functional in the spring, fall, and after significant rainfall events. The facility was noted to be working as designed.

### Pond 6 Maintenance Summary

All maintenance focused on routine vegetation removal from the site. Grass-cutting occurred twice during this reporting period.

### Pond 6 Repair Summary

No repairs occurred during this reporting period.

### 4.7 Pond 7

Table 9. Summary of Inspection, Maintenance, and Repairs – Pond 7

Pond 7		
Number of Inspections	Number of Maintenance Visits	Number of Repairs
3	2	0

### Pond 7 Inspection Summary

One annual inspection of the full facility was undertaken in the summer. The remainder of the inspections were to verify the inlet/outlets were clear and functional in the spring, fall, and after significant rainfall events. The facility was noted to be working as designed.

### Pond 7 Maintenance Summary

All maintenance focused on routine vegetation removal from the site. Grass-cutting occurred twice during this reporting period.

### Pond 7 Repair Summary

No repairs occurred during this reporting period.

### 4.8 Pond 8

Table 10. Summary of Inspection, Maintenance, and Repairs – Pond 8

Pond 8		
Number of Inspections	Number of Maintenance Visits	Number of Repairs
1	0	0



### Pond 8 Inspection Summary

This facility was recently established by the Developer. A site visit was conducted in response to a complaint. The facility was noted to be functioning as designed.

### Pond 8 Maintenance Summary

This facility was recently established, no maintenance was required.

### Pond 8 Repair Summary

No repairs occurred during this reporting period.

## 4.9 Cupolex Unit

Table 11. Summary of Inspection, Maintenance, and Repairs – Cupolex

Cupolex		
Number of Inspections	Number of Maintenance Visits	Number of Repairs
3	0	0

### Cupolex Inspection Summary

One annual inspection of the full facility was undertaken in the summer. The remainder of the inspections were to verify the inlet/outlets were clear and functional in the spring, fall, and after significant rainfall events. The facility was noted to be working as designed.

### Cupolex Maintenance Summary

Inspections determined that the unit was in good working order and maintenance was not required during this reporting period. Additionally, no maintenance was scheduled to occur during this reporting period per the manufacturer's guidance document.

### Cupolex Repair Summary

No repairs occurred during this reporting period.

## 4.10 OGS 1

Table 12. Summary of Inspection, Maintenance, and Repairs – OGS 1

OGS 1		
Number of Inspections	Number of Maintenance Visits	Number of Repairs
2	0	0

### OGS 1 Inspection Summary

One annual inspection of the full facility was undertaken in the summer. The sediment depth of the unit was measured to be 1cm deep, no maintenance is required for this level of sediment. The unit was noted to be working as designed.

### OGS 1 Maintenance Summary

Inspections determined that the unit was in good working order and maintenance was not required during this reporting period.

### OGS 1 Repair Summary

No repairs occurred during this reporting period.

## 4.11 OGS 2

Table 13. Summary of Inspection, Maintenance, and Repairs – OGS 2

OGS 2		
Number of Inspections	Number of Maintenance Visits	Number of Repairs
2	0	0

### OGS 2 Inspection Summary

One annual inspection of the full facility was undertaken in the summer. The sediment depth of the unit was measured to be 1cm deep, no maintenance is required for this level of sediment. The unit was noted to be working as designed.

### OGS 2 Maintenance Summary

Inspections determined that the unit was in good working order and maintenance was not required during this reporting period.

## OGS 2 Repair Summary

No repairs occurred during this reporting period.

## 4.12 OGS 3

Table 14. Summary of Inspection, Maintenance, and Repairs – OGS 3

OGS 3		
Number of Inspections	Number of Maintenance Visits	Number of Repairs
2	1	0

### OGS 3 Inspection Summary

One annual inspection of the full facility was undertaken in the summer. The sediment depth of the unit was measured to be 3cm deep. The unit was noted to be working as designed.

### OGS 3 Maintenance Summary

In January the unit was cleaned out by the Developer's contractor. Approximately 3.335m<sup>3</sup> of sediment was removed from the unit.

### OGS 3 Repair Summary

No repairs occurred during this reporting period.

## 4.13 Storm Sewer System

Table 15. Summary of Inspection, Maintenance, and Repairs – Storm Sewer System

Storm Sewer System		
Number of Inspections	Number of Maintenance Visits	Number of Repairs
0	0	0

### Storm Sewer Inspection Summary

The Township does not operate a storm sewer inspection program at this time.

## Storm Sewer Maintenance Summary

Maintenance on storm sewers is conducted on a reactive basis, no issues arose; therefore, no maintenance visits were required for this reporting period.

## Storm Sewer Repair Summary

No repairs occurred during this reporting period.

## 5. Monitoring Equipment Summary

This section contains a summary of the calibration and maintenance carried out on all monitoring equipment.

Table 16. Summary of Calibration and Maintenance of Monitoring Equipment

Equipment	Calibration Summary	Maintenance Summary
Sludge Judge	-	Routine maintenance was carried out on the Sludge Judge after each use to ensure proper functioning of the equipment. Maintenance consisted of using warm water to remove dirt and debris from the Sludge Judge and allowing it to dry.

## 6. Complaints

This section contains a summary of any complaints related to the Sewage Works received during the reporting period (January 1, 2023 to December 31, 2023) and any steps taken to address the complaints.

Table 17. Summary of Complaints

Location	Nature of Complaint	Corrective Action
Pond 1	Reports of people bypassing the fence to enter the facility.	Site visit was conducted, and it was determined that all fencing and signage were in place. An additional sign was added specifically stating that stormwater management facilities are not suitable for play and provided directions to the nearest playgrounds. Social media posts focused on the importance of staying out of stormwater management ponds were circulated.
Pond 8	Reports of modifications to site (addition of a dam)	Site investigation was undertaken the same week that the complaint was submitted. No modifications to the site were noted during the site investigation, site matched the design drawings. Water levels were appropriately deep enough to

	and excessive mosquitos.	not promote mosquito breeding. Water was noted to be flowing into and out of the facility indicating that the facility was not stagnant. This is a new facility with no vegetation yet established, no concerns with vegetation overgrowth contributing to mosquitos. The local Public Health unit was already undertaking mosquito investigations at this time.
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## 7. System Alterations

This section contains a summary of all Alterations to the Authorized System within the reporting period that are authorized by the CLI ECA including a list of Alterations that pose a Significant Drinking Water Threat.

Table 18. Summary of Alterations to the Authorized System in 2023

System Component	Alteration	Significant Drinking Water Threat?
<b>Storm Sewers</b>	No Alterations	No
<b>Pond 1</b>	No Alterations	No
<b>Pond 2</b>	No Alterations	No
<b>Pond 3</b>	No Alterations	No
<b>Pond 4</b>	No Alterations	No
<b>Pond 5</b>	No Alterations	No
<b>Pond 6</b>	No Alterations	No
<b>Pond 7</b>	No Alterations	No
<b>Pond 8</b>	No Alterations	No
<b>Cupolex Unit</b>	No Alterations	No
<b>OGS 1</b>	No Alterations	No
<b>OGS 2</b>	No Alterations	No
<b>OGS 3</b>	No Alterations	No

## 8. Spills

This section contains a summary of all spills or abnormal discharge events.

Table 19. Summary of Spills

Impacted System	Details of Spill	Actions Taken
<b>Storm Sewers</b>	50L of diesel fuel was reported to have entered the storm sewer system as a result of a fuel tank being overfilled. The report was provided verbally to Township field staff. Investigations determined that the spill occurred approximately 6 months before being reported.	The resident of the noted property was contacted for further information, it was determined that the fuel spill occurred 6 months earlier and was not reported. The Spills Action Centre was notified. No action was required as the spill was historic at the time of reporting.

## 9. Summary of Actions Taken to Improve/Correct Performance

This section includes a summary of actions taken, including timelines, to improve or correct performance of any aspect of the Authorized System.

No actions were undertaken in 2023 to improve or correct the performance of any aspect of the Authorized System.

## 10. Status of Actions from Previous Reporting Year

This section contains a summary of the status of actions for the previous reporting year.

As 2023 is the first reporting year there is nothing to report.