

# THE TOWN OF ESSEX ESSEX POLLUTION CONTROL PLANT & NE WASTEWATER LAGOONS

Submitted by: Karen Burgess, Senior Operations Manager  
Ontario Clean Water Agency

Date: January 10, 2024



*2023  
Fourth  
Quarter  
Operations  
Report*

# ESSEX POLLUTION CONTROL PLANT & NE WASTEWATER LAGOONS



## Service Information

In Service Date: 2005 (Essex SBR)

In Service Date: 1963 (NE Lagoons)

Classification: Class 3 Wastewater Treatment, Class 2 Wastewater Collection

Environmental Certificate of Approval: 8528-A7VK6D

## Capacity Information

Rated Capacity: 4,590 m<sup>3</sup>/day (Essex SBR) & 2,910 m<sup>3</sup>/day (NE Lagoons)

## Overview:

The Essex Wastewater Systems (SBR & NE Lagoons) are owned by the Town of Essex and operated by the Ontario Clean Water Agency (OCWA).

The Essex Collection System is also operated by OCWA consisting of two wastewater pump stations. Both pump stations contain a diesel emergency power generator which is available to allow the stations to remain in operation should a power failure occur. OCWA also oversees the operations of two storm water stations as well.

Collection system piping repairs and maintenance are performed by the Town of Essex - Public Works Department.

## Operational Description:

The Essex Wastewater Treatment Plant is a Sequential Batch Reactor (SBR) wastewater treatment facility consisting of screening, grit removal, phosphorus removal, nitrification, UV disinfection, temporary storage lagoon, centrifuge and an odor control system. One diesel generator is available to permit the treatment plant to remain in operation should a power failure occur.

Two pump stations are also included, PS3/PS3A and PS4. Pump stations consist of two submersible pumps and a diesel emergency power generator.

The NE Lagoons system consists of four cells that require batch alum dosing prior to the discharge periods for phosphorus removal. The effluent outfall consists of a box structure and a sewer pipe outfall discharging to the Puce Drain.

# ESSEX POLLUTION CONTROL PLANT & NE WASTEWATER LAGOONS



## COMPLIANCE SUMMARY

### Fourth Quarter

- Quarterly Bypass report was submitted to MECP on October 13<sup>th</sup>.
- Quarterly WSER report for Essex SBR was submitted to Environment Canada on October 31<sup>st</sup>.
- NE Lagoons were successfully discharged – November 14<sup>th</sup> to December 14<sup>th</sup>.

### Third Quarter

- Quarterly Bypass report was submitted to MECP on July 14<sup>th</sup>.
- Quarterly WSER report for Essex SBR was submitted to Environment Canada on July 19<sup>th</sup>.

### Second Quarter

- Quarterly WSER report for Essex SBR was submitted to Environment Canada on April 18<sup>th</sup>.
- Quarterly Bypass report was submitted to MECP on April 18<sup>th</sup>.
- NE Lagoons were successfully discharged – April 4<sup>th</sup> to 28<sup>th</sup>.

### First Quarter

- Annual Puce Drain report submitted to MECP and the Town of Essex on February 2<sup>nd</sup>.
- Quarterly WSER report for the Essex SBR and annual WSER report for the NE Lagoons was submitted to Environment Canada on February 6<sup>th</sup>.
- 2022 fourth quarter bypass report was submitted to MECP on January 13<sup>th</sup>.
- Annual report was submitted to MECP and the Town of Essex on March 16<sup>th</sup>.

## OCCUPATIONAL HEALTH & SAFETY

### Fourth Quarter

- New chamber covers are required for Cell #1 & Cell #2 at the NE Lagoons – identified in 2024 Major Maintenance Recommendations.
- Quarterly H&S inspection completed on October 17<sup>th</sup>
  - Pothole at PS3 in front of control panel needs to be filled in - Completed
  - 'Generator Running' signage at PS3 needs to be replaced - Completed
  - Eyewash bottles have expired and need to be replaced - Completed

### Third Quarter

- New chamber covers are required for Cell #1 & Cell #2 at the NE Lagoons – identified in 2024 Major Maintenance Recommendations.
- Quarterly H&S inspection was completed on July 26<sup>th</sup>
  - Pothole at PS3 in front of the control panel needs to be filled in – trip hazard
    - Town notified on July 26<sup>th</sup>

# ESSEX POLLUTION CONTROL PLANT & NE WASTEWATER LAGOONS



## Second Quarter

- New chamber covers are required for Cell #1 & Cell #2 at the NE Lagoons
- Quarterly H&S inspection was completed on April 13<sup>th</sup>
  - No issues identified

## First Quarter

- Quarterly H&S inspection was completed on
  - No issues identified

## INSPECTIONS

### Fourth Quarter

- No inspections this quarter.

### Third Quarter

- Annual flow meter calibrations completed by Indus Control – July 18<sup>th</sup>
  - Pond Return Flow Meter failed - New unit ordered from Flowmetrix
- Semi-annual inspection on portable and fixed gas monitor was completed by Indus Control - July 18<sup>th</sup>
  - Issues with the methane sensor in the grit building – had to be replaced

### Second Quarter

- Annual lifting device inspections completed by Alift – April 20<sup>th</sup>

### First Quarter

- Semi-annual inspection on portable and fixed gas monitor was completed by Indus Control – January 26<sup>th</sup>
- Annual backflow device inspections completed by KZ Plumbing – February 16<sup>th</sup>
- Annual fire extinguisher inspections completed – February 23<sup>rd</sup>

## ALARM CALL-IN SUMMARY

### Fourth Quarter

Date	Alarm
23-Oct-23	ASHT High Level at Essex SBR
08-Nov-23	AC Power Failure at Essex SBR
24-Dec-23	AC Power Failure at Essex SBR

# ESSEX POLLUTION CONTROL PLANT & NE WASTEWATER LAGOONS



## Third Quarter

Date	Alarm
20-Jul-23	AC Power Failure at Essex SBR
22-Jul-23	AC Power Failure at Essex SBR
14-Aug-23	High Level at PS4 - Storm Event
19-Aug-23	AC Power Failure at Essex SBR

## Second Quarter

Date	Alarm
04-April-23	AC Power Failure at Essex SBR
01-May-23	Bar Screen High Level at Essex SBR
20-May-23	AC Power Failure & Over-voltage Event at Essex SBR
11-June-23	AC Power Failure at Essex SBR

## First Quarter

Date	Alarm
19-Jan-23	Bar Screen Channel High Level at Essex SBR
27-Feb-23	High Level at PS4
03-Mar-23	AC Power Failure Essex SBR & High Level at PS4
05-Mar-23	AC Power Failure at Essex SBR
25-Mar-23	AC Power Failure at PS4

## MAINTENANCE & OPERATIONS

OCWA's Computerized Maintenance Management System (CMMS) contains a comprehensive history of the work, condition, cost, criticality, and life expectancy of the equipment at Essex SBR, NE Wastewater Lagoons and Collection System. OCWA uses a program called Maximo to track, schedule, and document all work related to the infrastructure we operate and maintain on behalf of the Town of Essex.

## Fourth Quarter

- Rotork Actuator replaced on SBR #2 and is back in service.
- SBR #1 taken out of service for maintenance - drained and inspected.
- WAS pump #1 pump rails replaced.
- New Trojan UV system installed by Power Serve November 1<sup>st</sup> to 8<sup>th</sup>.
- Emergency loads of sludge had to be hauled off-site due to centrifuge not running:

# ESSEX POLLUTION CONTROL PLANT & NE WASTEWATER LAGOONS



- November 7<sup>th</sup> to Kingsville – 62 m<sup>3</sup>
- November 7<sup>th</sup> to Kingsville – 62 m<sup>3</sup>
- Replacement pond return flow meter installed by Flowmetrix November 24<sup>th</sup>.
- Centrifuge VFD's repaired November 24<sup>th</sup> and back in service.
- New motor installed on alum pump #2.
- OCWA SCADA group installed new radios at PS3 & PS4 and upgraded the communication system.
- Replaced portable DO, pH & temperature analyzer.
- Air compressor for the centrifuge polymer system replaced.
- SMC for blower AB-1 had to be replaced.

## Third Quarter

- Lighthouse Electric completed load bank testing of diesel generator.
- Lighthouse Electric replaced voltage monitor on diesel generator at PS4.
- MCC UPS's at PS3 were replaced.
- Ultrasonic units installed at the NE Lagoons.
  - Cell #2 – August 2<sup>nd</sup>
  - Cell #4 – August 15<sup>th</sup>
- Centrifuge still not operational this quarter. Repairs were made to the main VFD however it failed and was sent back to WESCO for repairs.
- Emergency loads of sludge had to be hauled off-site due to centrifuge not running:
  - July 11<sup>th</sup> to Kingsville – 98 m<sup>3</sup>
  - July 18<sup>th</sup> to Amherstburg – 84 m<sup>3</sup>
  - August 1<sup>st</sup> to Amherstburg - 131 m<sup>3</sup>
  - August 22<sup>nd</sup> to Kingsville – 120 m<sup>3</sup>
- SBR #2 effluent actuator not operational and tank taken out of service – replacement actuator ordered from Rotork.

## Second Quarter

- New UV system has been ordered and will be installed after October 31<sup>st</sup> (disinfection period ends).
- One ultrasonic unit sent away for repairs – cable apparently damaged by turtles.
- Sludge pump cutters were replaced.
- Received new effluent auto sampler.
- Over voltage event took place May 20<sup>th</sup> during a power outage damaged several electrical components including the 50 hp VFD for the centrifuge.
- Essex SBR main wet well and Pump Station #4 wet well cleaned out by Hurricane Hydrovac.

## First Quarter

- Haller Installed new HVAC system in the centrifuge building.

# ESSEX POLLUTION CONTROL PLANT & NE WASTEWATER LAGOONS



- Blower AB3 was taken out of service and shipped to Aerzen to be serviced.
- Raw pump Impellor received from Xylem for raw pump #4.
- Ultrasonic unit installed in cell #2 & cell #3 at the NE Lagoons on March 16<sup>th</sup>.
- Many operational issues occurred during the freezing rain event that occurred February 22<sup>nd</sup> & 23<sup>rd</sup> – power interruption froze the PLC for the raw pump control having to operate the pumps by hand until OCWA SCADA group was able to resolve the issue.

## COMPLAINTS & CONCERNS

### Fourth Quarter

- There were no complaints received this quarter.

### Third Quarter

- There were no complaints received this quarter.

### Second Quarter

- There were no complaints received this quarter.

### First Quarter

- There were no complaints received this quarter.

## PERFORMANCE ASSESSMENT REPORT

- Please see the attached Performance Assessment Report.

**5537B ESSEX WASTEWATER TREATMENT FACILITY 110003601**

	1/ 2023	2/ 2023	3/ 2023	4/ 2023	5/ 2023	6/ 2023	7/ 2023	8/ 2023	9/ 2023	10/ 2023	11/ 2023	12/ 2023	<--Total-->	<--Avg-->	<--Max-->	<-Criteria-->
<b>Flows</b>																
Raw Flow: Total - Raw m³/d	68,591.00	68,732.00	86,572.00	67,255.00	52,875.00	48,268.00	61,570.00	94,193.00	69,327.00	48,407.00	41,912.00	67,499.00	775,201.00			0.00
Raw Flow: Avg - Raw m³/d	2,212.61	2,454.71	2,792.65	2,241.83	1,705.65	1,608.93	1,986.13	3,038.48	2,310.90	1,561.52	1,397.07	2,177.39		2,123.84		4,590.00
Raw Flow: Max - Raw m³/d	5,256.00	6,492.00	6,174.00	5,214.00	2,842.00	3,463.00	3,694.00	14,487.00	3,867.00	2,620.00	2,401.00	3,883.00			14,487.00	0.00
Raw Flow: Count - Raw m³/d	31.00	28.00	31.00	30.00	31.00	30.00	31.00	31.00	30.00	31.00	30.00	31.00	365.00			0.00
Eff. Flow: Total - Eff m³/d	68,591.00	68,732.00	86,572.00	67,255.00	52,875.00	48,268.00	61,570.00	94,193.00	69,327.00	48,407.00	41,912.00	67,499.00	775,201.00			0.00
Eff. Flow: Avg - Eff m³/d	2,212.61	2,454.71	2,792.65	2,241.83	1,705.65	1,608.93	1,986.13	3,038.48	2,310.90	1,561.52	1,397.07	2,177.39		2,123.84		4,590.00
Eff. Flow: Max - Eff m³/d	5,256.00	6,492.00	6,174.00	5,214.00	2,842.00	3,463.00	3,694.00	14,487.00	3,867.00	2,620.00	2,401.00	3,883.00			14,487.00	0.00
Eff Flow: Count - Eff m³/d	31.00	28.00	31.00	30.00	31.00	30.00	31.00	31.00	30.00	31.00	30.00	31.00	365.00			0.00
<b>Biochemical Oxygen Demand: BOD5</b>																
Raw: Avg BOD5 - Raw mg/L	64.00	1,200.00	71.00	57.00	69.00	315.00	130.00	60.00	94.00	389.00	142.00	84.00		222.92	1,200.00	0.00
Raw: # of samples of BOD5 - Raw mg/L	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			0.00
<b>Total Suspended Solids: TSS</b>																
Raw: Avg TSS - Raw mg/L	54.00	2,300.00	81.00	66.00	72.00	574.00	122.00	66.00	76.00	574.00	123.00	88.00		349.67	2,300.00	0.00
Raw: # of samples of TSS - Raw mg/L	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			0.00
<b>Total Phosphorus: TP</b>																
Raw: Avg TP - Raw mg/L	1.26	52.80	2.08	1.80	1.96	7.10	3.51	2.74	2.58	9.10	4.35	3.12		7.70	52.80	0.00
Raw: # of samples of TP - Raw mg/L	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			0.00
<b>Nitrogen Series</b>																
Raw: Avg TKN - Raw mg/L	14.50	133.00	19.80	18.60	18.00	57.50	28.40	27.50	25.10	70.10	45.80	28.50		40.57	133.00	0.00
Raw: # of samples of TKN - Raw mg/L	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			0.00
Eff: Avg NO3-N - Eff mg/L	6.71	15.53	11.73	6.49	5.33	6.52	4.30	4.36	5.65	4.21	4.25	5.68		6.73	15.53	0.00
Eff: # of samples of NO3-N - Eff mg/L	4.00	4.00	5.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	4.00	4.00	52.00			0.00
Eff: Avg NO2-N - Eff mg/L	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.03	< 0.04	< 0.04	< 0.04	< 0.03	< 0.03	< 0.04	0.00
Eff: # of samples of NO2-N - Eff mg/L	4.00	4.00	5.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	4.00	4.00	52.00			0.00
<b>Disinfection</b>																
Eff: GMD E. Coli - Eff cfu/100mL	3,002.88	3,918.19	5,202.23	213.84	5.99	11.77	5.70	15.42	23.59	20.59	98.24	774.79				10,000.00
Eff: # of samples of E. Coli - Eff cfu/100mL	4.00	4.00	5.00	4.00	5.00	4.00	4.00	5.00	4.00	5.00	4.00	4.00	52.00			0.00

**5537A ESSEX WASTEWATER TREATMENT LAGOONS - NORTH EAST 110000203**

	1 / 2023	2 / 2023	3 / 2023	4 / 2023	5 / 2023	6 / 2023	7 / 2023	8 / 2023	9 / 2023	10 / 2023	11 / 2023	12 / 2023	<--Total-->	<--Avg-->	<--Max-->	<-Criteria-->
<b>Flows</b>																
Raw Flow: Total - Raw m³/d	48,830.00	51,304.00	59,430.00	41,976.00	33,793.00	31,107.00	40,267.00	60,376.00	28,181.00	32,580.00	30,733.00	41,197.00	499,774.00			0.00
Raw Flow: Avg - Raw m³/d	1,575.16	1,832.29	1,917.10	1,399.20	1,090.10	1,036.90	1,298.94	1,947.61	939.37	1,050.97	1,024.43	1,328.94		1,369.24		
Raw Flow: Max - Raw m³/d	2,554.00	6,414.00	2,590.00	1,837.00	1,737.00	2,176.00	2,269.00	10,478.00	1,130.00	1,263.00	1,319.00	1,800.00			10,478.00	0.00
Raw Flow: Count - Raw m³/d	31.00	28.00	31.00	30.00	31.00	30.00	31.00	31.00	30.00	31.00	30.00	31.00	365.00			0.00
Eff. Flow: Total - Eff #1 m³/d	0.00	0.00	0.00	65,861.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	49,247.00	115,108.00			0.00
Eff. Flow: Total - Eff #3 m³/d	0.00	0.00	0.00	86,166.00	0.00	0.00	0.00	0.00	0.00	0.00	86,676.00	5,166.00	178,008.00			0.00
Eff. Flow: Total - Eff #4 m³/d	0.00	0.00	0.00	109,041.00	0.00	0.00	0.00	0.00	0.00	0.00	114,354.00	22,037.00	245,432.00			0.00
Eff. Flow: Avg - Eff #1 m³/d	0.00	0.00	0.00	5,987.36	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4,924.70		5,481.33		
Eff. Flow: Avg - Eff #3 m³/d	0.00	0.00	0.00	8,616.60	0.00	0.00	0.00	0.00	0.00	0.00	5,098.59	1,722.00		5,933.60		
Eff. Flow: Avg - Eff #4 m³/d	0.00	0.00	0.00	9,912.82	0.00	0.00	0.00	0.00	0.00	0.00	6,726.71	7,345.67		7,917.16		
Eff. Flow: Max - Eff #1 m³/d	0.00	0.00	0.00	16,063.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	7,105.00			16,063.00	0.00
Eff. Flow: Max - Eff #3 m³/d	0.00	0.00	0.00	16,512.00	0.00	0.00	0.00	0.00	0.00	0.00	9,120.00	2,016.00			16,512.00	0.00
Eff. Flow: Max - Eff #4 m³/d	0.00	0.00	0.00	15,563.00	0.00	0.00	0.00	0.00	0.00	0.00	11,822.00	8,600.00			15,563.00	0.00
Eff Flow: Count - Eff #2 m³/d	0.00	0.00	0.00	9.00	0.00	0.00	0.00	0.00	0.00	0.00	17.00	3.00	29.00			0.00
Eff Flow: Count - Eff #3 m³/d	0.00	0.00	0.00	10.00	0.00	0.00	0.00	0.00	0.00	0.00	17.00	3.00	30.00			0.00
Eff Flow: Count - Eff #4 m³/d	0.00	0.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	17.00	3.00	31.00			0.00
Eff Flow: Count - Eff #1 m³/d	0.00	0.00	0.00	11.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	10.00	21.00			0.00
<b>Biochemical Oxygen Demand: BOD5</b>																
Raw: Avg BOD5 - Raw mg/L	116.00	34.00	51.00	147.00	69.00	271.00	72.00	165.00	169.00	175.00	76.00	84.00		119.08	271.00	0.00
Raw: # of samples of BOD5 - Raw mg/L	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			0.00
<b>Total Suspended Solids: TSS</b>																
Raw: Avg TSS - Raw mg/L	128.00	28.00	63.00	141.00	43.00	84.00	80.00	235.00	114.00	74.00	60.00	102.00		96.00	235.00	0.00
Raw: # of samples of TSS - Raw mg/L	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			0.00
<b>Total Phosphorus: TP</b>																
Raw: Avg TP - Raw mg/L	1.15	1.45	1.89	2.33	3.10	4.30	3.33	4.60	3.01	3.74	2.38	3.32		2.88	4.60	0.00
Raw: # of samples of TP - Raw mg/L	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			0.00
<b>Nitrogen Series</b>																
Raw: Avg TKN - Raw mg/L	9.60	13.70	18.20	27.40	29.70	43.10	34.00	41.90	30.30	38.40	20.90	33.80		28.42	43.10	0.00
Raw: # of samples of TKN - Raw mg/L	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	1.00	12.00			0.00
Eff: Avg NO3-N - Eff #1 mg/L	0.00	0.00	0.00	< 0.10	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.07		< 0.08	< 0.10	0.00
Eff: Avg NO3-N - Eff #4 mg/L	0.00	0.00	0.00	0.34	0.00	0.00	0.00	0.00	0.00	0.00	0.42	0.00		0.38	0.42	0.00
Eff: Avg NO3-N - Eff #3 mg/L	0.00	0.00	0.00	0.23	0.00	0.00	0.00	0.00	0.00	0.00	0.86	0.00		0.54	0.86	0.00

From 1/1/2023 to 12/31/2023

Eff: # of samples of NO3-N - Eff #1 mg/L	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	8.00			0.00
Eff: # of samples of NO3-N - Eff #3 mg/L	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	10.00			0.00
Eff: # of samples of NO3-N - Eff #4 mg/L	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	10.00			0.00
Eff: Avg NO2-N - Eff #1 mg/L	0.00	0.00	0.00	< 0.04	0.00	0.00	0.00	0.00	0.00	0.00	0.00	< 0.03			< 0.03	< 0.04	0.00
Eff: Avg NO2-N - Eff #3 mg/L	0.00	0.00	0.00	0.11	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.06	0.00		0.08	0.11	0.00
Eff: Avg NO2-N - Eff #4 mg/L	0.00	0.00	0.00	0.13	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.09	0.00		0.11	0.13	0.00
Eff: # of samples of NO2-N - Eff #1 mg/L	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	8.00			0.00
Eff: # of samples of NO2-N - Eff #3 mg/L	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	10.00			0.00
Eff: # of samples of NO2-N - Eff #4 mg/L	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	10.00			0.00

**Disinfection**

Eff: GMD E. Coli - Eff #1 cfu/100mL	0.00	0.00	0.00	21.98	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	21.90				
Eff: GMD E. Coli - Eff #3 cfu/100mL	0.00	0.00	0.00	2.38	0.00	0.00	0.00	0.00	0.00	0.00	0.00	16.04	0.00				
Eff: GMD E. Coli - Eff #4 cfu/100mL	0.00	0.00	0.00	90.35	0.00	0.00	0.00	0.00	0.00	0.00	0.00	2.00	0.00				
Eff: # of samples of E. Coli - Eff #1 cfu/100mL	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	4.00	8.00			0.00
Eff: # of samples of E. Coli - Eff #3 cfu/100mL	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	10.00			0.00
Eff: # of samples of E. Coli - Eff #4 cfu/100mL	0.00	0.00	0.00	4.00	0.00	0.00	0.00	0.00	0.00	0.00	0.00	6.00	0.00	10.00			0.00