

# Wingham Sewage Treatment Plant 2023 Annual Report

Owned by the Corporation of the Township of North Huron and Operated by Veolia Water Canada



# **Wingham Sewage Treatment Plant 2023 Annual Report**

Wingham STP ECA 1040-9HAN94 issued May 30, 2014 and #3557-7UNPUR (Aug 11, 2009-Air) & (DRAFT CLI ECA 090-W601)

The Following is a summary and discussion of the 2023 Wingham Sewage treatment plant operation and summary of compliance limits as set forth in the Wingham STP ECA 1040-9HAN94 Issued May 30 2014.

#### The Rated Capacity of the Treatment Unit is 3,400m3 average daily flow

Based on Raw Sewage Flows, the 2023 annual average daily flow was 1975m3/day which represents 58% of the 3400m3/day capacity. The maximum Peak flow of 7712m3 occurred in April which represents 227% of the capacity.

#### **Bypass Events**

There were no bypass or overflow events that occurred during 2023 from the Wingham sewage treatment plant

# **Compliance limits**

The plant consistently removed 96.9% Biological Oxygen demand, 93.6% total suspended solids, 87.2% phosphorous and 92% total kjeldahl nitrogen which is well within the range of removals for a secondary sewage plant and consistent with previous yearly operations.

## **Operational problems**

Aeration Arm- Corrective action- we had a new shaft fabricated and installed and will get a plan to check the condition of the other shafts in the other aeration cell as well

#### Maintenance

Routine maintenance was performed throughout the year, such as oil changes in gear drives and cleaning UV lights.

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Security/ Health and safety Improvements- locks, door knobs and Lighting

2 Couplers on return pump motor

Purchased new level sensor

New battery for Sewage pump station Generator

Repaired Aeration Mixing Shaft

3 slide gate valves replaced

#### **Quality Control Monitoring**

Monitoring includes an online dissolved oxygen sensor which indicates loading and raw sewage quality, aeration basin solids content and proper operations of the aerators. Secondary clarifiers effluent is monitored for dissolved phosphorous to determine adequate ferric chloride dosage in aeration basins as well as general clarity and surface debris which indicates proper solids removal. Adequate solids return to the aeration and wasting rates.

The raw sewage flowmeter measures the flow going to the treatment plant and is used to base dosages and treatment plant capacity. The final effluent flow meter measures flow to the UV lights and does not represent the hydraulic loading of the plant but rather is a sum of the flow through the plant and any lagoon discharge. Results of monitoring activities can be viewed on the monthly spreadsheets.

#### **Calibration and Maintenance**

There are two flowmeters, raw sewage in and the final effluent discharge volumes. The flowmeters are calibrated yearly this year raw sewage was calibrated by Advanced meter Services as well as the final effluent, the certificates are stored at the PUC Office. The pH analyzer is calibrated monthly and recorded in the log books.



## Efforts to meet effluent objectives

As described in the quality control monitoring section, analytic and visual parameters are used as indicators of process efficiency and should fall within the critical control points. A summary of these values was developed and is in the Wingham sewage treatment facility operations manual for reference and historically have been adequate to maintain compliance.

#### **Biosolids Generated**

A total of 3034 cubic meters were removed from cell 1 in 2023. Approximately 1138m3 of sludge went into the lagoon in 2023, we would estimate approximately the same amount will go into the lagoon for 2024. We do plan on Hauling more Biosolids from the Lagoon in 2024 and this amount will be roughly 4000m3 based on information from our hauler on what was left in the lagoon and what we typically add into the lagoon in a year. Our estimate for 2024 is based on no foreseen increase or decrease in flows, Estimating the solids volume in a lagoon situation is nearly impossible when there are no terms of reference for the % solids concentration. Many factors go into the volume such as how well the sludge compacts, water depth in the lagoon, temperature, wind action, solids quality, etc.

#### **Complaints**

There were no complaints received as results of the operation of the sewage treatment facility.

# Reports

Attached in the report is a data summary,

compliance summary,

sludge metals summary,

bypass and overflow summary



# Wingham Sewage Treatment Plant

2023

| Flows<br>Incomin |      | Februar | Marc  |       |      |      |      | Augus | Septembe | Octobe | Novembe | Decembe | Total(m3 | Avg(m3 | Max(m3 |       |
|------------------|------|---------|-------|-------|------|------|------|-------|----------|--------|---------|---------|----------|--------|--------|-------|
| g                | Jan  | У       | h     | April | May  | June | July | t     | r        | r      | r       | r       | )        | )      | )      | % Cap |
|                  | 8395 |         |       | 9269  | 6138 | 4795 | 4396 |       |          |        |         |         |          |        |        |       |
| Flows            | 9    | 73212   | 85689 | 5     | 8    | 2    | 0    | 41001 | 34579    | 44688  | 47401   | 64491   | 721015   | 1975   | 92695  | 58    |
| Average          | 2708 | 2615    | 2764  | 3090  | 2040 | 1598 | 1418 | 1323  | 1153     | 1442   | 1580    | 2080    |          |        |        |       |
| Max/d            | 6183 | 5174    | 4790  | 7712  | 3189 | 2443 | 3028 | 2429  | 1906     | 2331   | 2042    | 3573    |          |        | 7712   | 227   |

| Raw        |      |      |       |      |      |      |       |      |      |      |      |      |
|------------|------|------|-------|------|------|------|-------|------|------|------|------|------|
| Sewage     |      |      |       |      |      |      |       |      |      |      |      |      |
| BOD        | 44   | 12   | 78    | 29   | 31   | 160  | 105.5 | 82   | 65   | 88   | 49   | 74   |
| SS         | 41   | 23   | 80    | 38   | 34   | 102  | 116   | 60   | 49   | 44   | 39   | 74   |
| Alkalinity | 329  | 327  | 331   | 323  | 328  | 336  | 335.5 | 347  | 330  | 355  | 346  | 315  |
| TP         | 1    | 0.64 | 1.75  | 1    | 1    | 3    | 2.525 | 3    | 2    | 2    | 2    | 1    |
| TKN        | 13   | 9.70 | 14.10 | 13   | 13   | 25   | 24.40 | 24   | 22   | 20   | 21   | 13   |
| рН         | 7.72 | 7.70 | 7.70  | 7.57 | 7.56 | 7.50 | 7.57  | 7.55 | 7.51 | 7.51 | 7.62 | 7.82 |
| Final      |      |      | -     |      |      |      |       |      | _    |      | •    |      |

|     |      | %Remova |
|-----|------|---------|
| Avg | Max. | 1       |
| 68  | 160  | 96.9    |
| 58  | 116  | 93.6    |

| 1.77  | 3.40  | 87.2 |
|-------|-------|------|
| 17.66 | 24.90 | 92.0 |
| 7.61  | 7.82  |      |

| Effluent    |       |      |      |      |      |       |      |      |      |      |       |      |
|-------------|-------|------|------|------|------|-------|------|------|------|------|-------|------|
| E. Coli     | 38    | 520  | 15   | 24   | 8    | 2     | 10   | 51   | 8    | 2    | 17    | 20   |
| CBOD        | 2     | 2    | 2    | 2    | 2    | 3     | 2    | 2    | 2    | 2    | 2     | 3    |
| SS          | 3     | 2    | 4    | 5    | 4    | 3     | 6    | 5    | 3    | 6    | 3     | 3    |
| Alkalinity  | 257   | 258  | 270  | 217  | 216  | 204   | 251  | 191  | 156  | 176  | 216   | 237  |
| Ammoni<br>a | 0.10  | 0.30 | 0.10 | 0.3  | 0.4  | 0.3   | 0.32 | 0.4  | 0.23 | 0.20 | 0.11  | 0.16 |
| TKN         | 0.97  | 2.00 | 0.50 | 1.60 | 0.95 | 1.25  | 3.00 | 1.77 | 0.50 | 0.80 | 2.55  | 1    |
| TP          | 0.19  | 0.28 | 0.18 | 0.27 | 0.37 | 0.30  | 0.32 | 0.35 | 0.10 | 0.10 | 0.11  | 0.16 |
| NO2         | 0.05  | 0.12 | 0.03 | 0.04 | 0.05 | 0.06  | 0.03 | 0.03 | 0.03 | 0.03 | 0.32  | 0.12 |
| NO3         | 11.18 | 6.03 | 9.95 | 6.15 | 9.01 | 17.05 | 8.21 | 17.6 | 24   | 19   | 16.00 | 13   |
| рН          | 7.78  | 7.75 | 7.72 | 7.77 | 7.87 | 7.56  | 7.66 | 7.58 | 7.56 | 7.56 | 7.43  | 7.47 |
| H2S>        | 0.02  |      |      | 0.02 |      |       | 0.02 |      |      | 0.02 |       |      |

| 59.71 | 520   |
|-------|-------|
| 2.13  | 3.00  |
| 3.72  | 6.00  |
| 221   | 270   |
|       |       |
| 0.23  | 0.37  |
| 1.42  | 3.00  |
| 0.23  | 0.37  |
| 0.07  | 0.32  |
| 13.01 | 23.50 |
| 7.64  | 7.87  |
| 0.02  | 0.02  |



#### **Wingham STP Compliance Summary**

2023

| Yellow highlights are Objectives not limits |
|---|
|---|

pН

Min

6.5 - 9.0

7.64

7.61

7.64

|             | January | February | March | April | May              | June | July | August | September | October   | November | December |
|-------------|---------|----------|-------|-------|------------------|------|------|--------|-----------|-----------|----------|----------|
| Max/day m3  | 6183    | 5174     | 4790  | 7712  | 3189             | 2443 | 3028 | 2429   | 1906      | 2331      | 2042     | 3573     |
|             |         |          |       |       |                  |      |      |        |           |           |          |          |
| Av Day Flow | 3400    | 3400     | 3400  | 3400  | 3400             | 3400 | 3400 | 3400   | 3400      | 3400      | 3400     | 3400     |
| Actual      | 2708    | 2615     | 2764  | 3090  | 2040             | 1598 | 1418 | 1323   | 1153      | 1442      | 1580     | 2080     |
| Comp. Y/N   | Y       | Y        | Y     | 7     | Y                | Y    | Y    | Y      | Y         | Y         | Y        | Y        |
| Comp. 1/N   | I       | Į Į      | 1     | ī     | 1                | I    | I    | I      | T         | ı         | I        | I        |
| CBOD&TSS    | 15      | 15       | 15    | 15    | 15               | 15   | 15   | 15     | 15        | 15        | 15       | 15       |
| CBOD        | 2.0     | 2.0      | 2.0   | 2.0   | 2.0              | 3.0  | 2.0  | 2.0    | 2.0       | 2.0       | 2.0      | 2.5      |
| TSS         | 3.0     | 2.0      | 4.3   | 4.5   | 3.5              | 3.0  | 6.0  | 5.3    | 2.5       | 5.5       | 2.5      | 2.5      |
| Loading Kg  | 51      | 51       | 51    | 51    | 5.5<br><b>51</b> | 5.0  | 51   | 51     | 51        | 5.5<br>51 | 51       | 51       |
| CBOD Kg     | 5.42    | 5.23     | 5.53  | 6.18  | 4.08             | 4.80 | 2.84 | 2.65   | 2.31      | 2.88      | 3.16     | 5.20     |
| TSS Kg      | 8.13    | 5.23     | 11.98 | 13.90 | 7.14             | 4.80 | 8.51 | 7.05   | 2.88      | 7.93      | 3.95     | 5.20     |
| Comp. Y/N   | Y       | Y        | Υ Υ   | Υ     | Υ Υ              | Υ.00 | Y    | Y .00  | Y         | Y         | Y        | Υ Υ      |
| Comp. 1714  |         | '        | · ·   | ·     | •                |      |      |        |           |           | '        | •        |
| Tot P       | 0.5     | 0.5      | 0.5   | 0.5   | 0.5              | 0.5  | 0.5  | 0.5    | 0.5       | 0.5       | 0.5      | 0.5      |
| Actual      | 0.19    | 0.28     | 0.18  | 0.27  | 0.37             | 0.30 | 0.32 | 0.35   | 0.10      | 0.10      | 0.11     | 0.16     |
| TP Load Kg  | 1.7     | 1.7      | 1.7   | 1.7   | 1.7              | 1.7  | 1.7  | 1.7    | 1.7       | 1.7       | 1.7      | 1.7      |
| Act. TP Kg  | 0.51    | 0.73     | 0.50  | 0.82  | 0.75             | 0.48 | 0.45 | 0.46   | 0.12      | 0.14      | 0.17     | 0.33     |
| Comp. Y/N   | Υ       | Υ        | Υ     | Υ     | Υ                | Υ    | Υ    | Υ      | Υ         | Υ         | Υ        | Υ        |
| •           |         |          |       |       |                  |      |      |        |           |           |          |          |
| H2S         | 0       | 0        | 0     | 0     | 0                | 0    | 0    | 0      | 0         | 0         | 0        | 0        |
| Actual(<)   | 0.02    |          |       | 0.02  |                  |      | 0.02 |        |           | 0.02      |          |          |
| Comp. Y/N   | Υ       |          |       | Υ     |                  |      | Υ    |        |           | Υ         |          |          |
|             |         |          |       |       |                  |      |      |        |           |           |          | ,        |

6.5 - 9.0 | 6.5 - 9.0 | 6.5 - 9.0 | 6.5 - 9.0 | 6.5 - 9.0 | 6.5 - 9.0 | 6.5 - 9.0

7.61

7.46

7.49

7.45

6.5 - 9.0

7.42

6.5 - 9.0

7.41

6.5 - 9.0

7.25

6.5 - 9.0

7.13



| 1             |      |      | l <b>-</b> | ٠    |      | I    |      | I I  |      |      |      | l     |
|---------------|------|------|------------|------|------|------|------|------|------|------|------|-------|
| Max           | 7.88 | 7.87 | 7.89       | 8.48 | 9.53 | 7.68 | 7.86 | 7.87 | 7.69 | 7.69 | 7.61 | 7.62  |
| Average       | 7.78 | 7.75 | 7.72       | 7.77 | 7.87 | 7.56 | 7.66 | 7.58 | 7.56 | 7.56 | 7.43 | 7.47  |
| Comp. Y/N     | Υ    | Υ    | Υ          | Υ    | N    | Υ    | Υ    | Υ    | Υ    | Υ    | Υ    | Υ     |
|               |      |      |            |      |      |      |      |      |      |      |      |       |
| E. Coli       | 200  | 200  | 200        | 200  | 200  | 200  | 200  | 200  | 200  | 200  | 200  | 200   |
| Actual GMD    | 38   | 520  | 15         | 24   | 8    | 2    | 10   | 51   | 8    | 2    | 17   | 20    |
| Comp. Y/N     | Yes  | Yes  | Yes        | Yes  | Yes  | Yes  | Yes  | Yes  | Yes  | Yes  | Yes  | Yes   |
|               |      |      |            |      |      |      |      |      | 9    | 9    |      |       |
| NH 3&4        | 3    | 3    | 3          | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 0.8  | 3    | 3     |
| Actual        | 0.10 | 0.30 | 0.10       | 0.01 | 0.01 | 0.30 | 0.32 | 0.35 | 0.23 | 0.20 | 0.11 | 0.16  |
| NH 3&4 Load/d | 0.27 | 0.78 | 0.28       | 0.02 | 0.01 | 0.48 | 0.45 | 0.46 | 0.27 | 0.29 | 0.17 | 0.33  |
| Limit kg/d    | 10.7 | 10.7 | 10.7       | 2.7  | 2.7  | 2.7  | 2.7  | 2.7  | 2.7  | 2.7  | 10.7 | 10.7  |
| Comp. Y/N     | Υ    | Υ    | Y          | Υ    | Y    | Υ    | Υ    | Υ    | Υ    | Υ    | Υ    | Υ     |
|               |      |      | 7/3        |      |      |      |      |      |      |      |      |       |
| NH 3          | 0.02 | 0.02 | 0.02       | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02 | 0.02  |
| Actual        | 0.00 | 0.00 | 0.00       | 0.01 | 0.01 | 0.01 | 0.02 | 0.01 | 0.00 | 0.00 | 0.01 | 0.001 |
| Comp. Y/N     | Yes  | Yes  | Yes        | Yes  | Yes  | Yes  | Yes  | Yes  | Yes  | Yes  | Yes  | Yes   |

- E. coli result of 520 Occurred in February during the Freezing period, therefore while it exceeded the 200 organisms per 100mL Monthly Geometric mean- it is not considered an exceedance
- A pH Result of 6.48 was recorded in April this is less than our Objective of 6.5 but not less than our regulated limit of 6
  therefore we did not exceed our regulated limit in this instance
- A pH exceedance was recorded in May a result of 9.53 there were a few possible contributing factors- operators were cleaning the sludge out of the channels and the flow was turned off to the pH probe therefore it was likely not a true recording of effluent pH- this was reported to our MECP Inspector on June 2.



|              | Quarterly Metals Calculations Report 2023 |           |   |           |   |           |           |           |           |            |           |       |  |  |  |
|--------------|---|-----------|---|-----------|---|-----------|-----------|-----------|-----------|------------|-----------|-------|--|--|--|
| Parameter    |   |           |   |           |   |           |           |           |           |            |           |       |  |  |  |
| Date         |   | Jan 17-23 |   | Apr 11-23 |   | July 4-23 | Jul 25-23 | Aug 29-23 | Oct 10-23 | Average    | May 29-23 | AVE   |  |  |  |
| Total Solids |   | 3050      |   | 16800     |   | 11300     | 2600      | 34900     | 11800     | 8438       | 29700     | 29700 |  |  |  |
| TKN          |   | 144       |   | 642       |   | 653       | 72        | 1140      | 536       | 378        | 891       | 891   |  |  |  |
| NH 3&4       |   | 2.3       |   | 22.8      |   | 7.8       | 1.2       | 84.4      | 12.2      | 8.5        | 60        | 60    |  |  |  |
| NO2          |   | 1.4       |   | 0.6       | < | 3         | 3         | 3         | 3         | 2.0        | 3.1       | 3.1   |  |  |  |
| NO3          |   | 6.4       | < | 0.3       | < | 3         | 17        | 3         | 3         | 6.7        | 2         | 2     |  |  |  |
| NO2+NO3      |   | 7.8       |   | 0.6       | < | 3         | 17        | 3         | 3         | 7.1        | 3.1       | 3.1   |  |  |  |
| Arsenic      | <   | 0.1       | < | 0.1       | < | 0.1       | 0.1       | 0.4       | 0.1       | 0.1        | 0.3       | 0.3   |  |  |  |
| Cadmium      | <   | 0.005     |   | 0.007     |   | 0.006     | 0.005     | 0.033     | 0.006     | 0.00575    | 0.029     | 0.029 |  |  |  |
| Cobalt       | <   | 0.01      |   | 0.02      |   | 0.03      | 0.01      | 0.13      | 0.04      | 0.0175     | 0.09      | 0.09  |  |  |  |
| Chromium     |   | 0.1       |   | 0.42      |   | 0.56      | 0.08      | 3.2       | 0.9       | 0.29       | 2.2       | 2.2   |  |  |  |
| Copper       |   | 1.3       |   | 5.2       |   | 6.4       | 0.6       | 34        | 6.3       | 3.375      | 31        | 31    |  |  |  |
| Mercury      |   | 0.002     |   | 0.007     |   | 0.005     | 0.001     | 0.042     | 0.008     | 0.004      | 0.049     | 0.049 |  |  |  |
| Potassium    |   | 14        |   | 45        |   | 34        | 12        | 22        | 34        | 26.25      | 24        | 24    |  |  |  |
| Molybdenum   | <   | 0.05      |   | 0.09      |   | 0.08      | 0.05      | 0.44      | 0.09      | 0.07       | 0.37      | 0.37  |  |  |  |
| Nickel       | <   | 0.04      |   | 0.2       |   | 0.24      | 0.05      | 1.1       | 0.33      | 0.1325     | 0.9       | 0.9   |  |  |  |
| Phosphorous  |   | 44        |   | 174       |   | 208       | 26        | 910       | 265       | 113        | 1040      | 1040  |  |  |  |
| Lead         | <   | 0.1       | L | 0.2       | L | 0.2       | 0.1       | 1.1       | 0.2       | 0.2        | 1.1       | 1.1   |  |  |  |
| Selenium     | <   | 0.1       | < | 0.1       | < | 0.1       | 0.1       | 0.2       | 0.1       | 0.1        | 0.2       | 0.2   |  |  |  |
| Zinc         | <   | 1         | L | 4         | L | 5         | 1         | 27        | 5         | 3          | 21        | 21    |  |  |  |
| Ecoli DW     |   | 1868852   |   | 1250000   |   | 2300885   | 2038462   | 2865      | 2542373   | 1864549.75 | 30303     | 30303 |  |  |  |



| Ecoli /100 ml | 570000 | 2100000 | 2600000 | 530000 | 10000 | 3000000 | 1450000 | 90000 | 90000 | ۱ |
|---------------|--------|---------|---------|--------|-------|---------|---------|-------|-------|---|
|---------------|--------|---------|---------|--------|-------|---------|---------|-------|-------|---|

|                              | T. I.I. A DVDACC AND OVERELOW EVENITS |                      |               |                     |                        |     |                       |                    |                     |                     |              |              |                    |  |  |
|------------------------------|---------------------------------------|----------------------|---------------|---------------------|------------------------|-----|-----------------------|--------------------|---------------------|---------------------|--------------|--------------|--------------------|--|--|
|                              | Table 1 BYPASS AND OVERFLOW EVENTS    |                      |               |                     |                        |     |                       |                    |                     |                     |              |              |                    |  |  |
| FACILITY N                   | IAME:                                 | Winghan              | n Sewa        | ige                 |                        |     | YEAR:                 | 2023               |                     |                     |              |              |                    |  |  |
|                              |                                       |                      |               |                     |                        |     |                       |                    |                     | Sampl               | e Resu       | lts          |                    |  |  |
| Date<br>(dd/mm/yy)           | Location                              | Type (see<br>legend) | Start<br>Time | Duration<br>(hours) | Volume<br>(1000m3)     | M/E | Disinfection<br>(Y/N) | Treatment<br>(Y/N) | Reason<br>Code*     | BOD5<br>(mg/L)      | SS<br>(mg/L) | TP<br>(mg/L) | E.Coli<br>(/100ml) |  |  |
|                              |                                       |                      |               |                     |                        |     |                       |                    |                     |                     |              |              |                    |  |  |
|                              |                                       |                      |               |                     |                        |     |                       |                    |                     |                     |              |              |                    |  |  |
|                              |                                       |                      |               |                     |                        |     |                       |                    |                     |                     |              |              |                    |  |  |
|                              |                                       |                      |               |                     |                        |     |                       |                    |                     |                     |              |              |                    |  |  |
| <u>Legend</u>                |                                       | <u> </u>             |               |                     |                        |     | *Reason Codes:        |                    |                     | 6 = Proc            | ess          |              |                    |  |  |
| PB = Primary                 | Bypass                                |                      | M = Mea       | sured               | Y = Yes 1 = Heavy Prec |     |                       | itation            | Upsets<br>7 = Power |                     |              |              |                    |  |  |
| SB = Seconda<br>STPO = Sewag | ry Bypass<br>ge Treatme               | nt Plant             | E = Estim     | ated                | N = No                 |     | 2 = Spring Runof      | f                  |                     | Outages<br>8 = Unkr |              |              |                    |  |  |
| Overflow                     |                                       |                      |               |                     |                        |     | 3 = Infiltration      |                    |                     |                     |              |              |                    |  |  |
| CSO = Combir                 |                                       |                      |               |                     |                        |     | 4 = Mechanical/E      | Equipment Failur   | re                  | 9 = Othe            | r, please    | commen       | t below.           |  |  |
| SSO = Sanitar                |                                       |                      |               |                     |                        |     | 5 = Pipe Failures     | (break/leak/plug   | ged)                |                     |              |              |                    |  |  |
| STWO = Satell<br>Overflow    | lite Treatm                           | ent Works            |               |                     |                        |     |                       |                    |                     |                     |              |              |                    |  |  |
| Comments:                    |                                       |                      | -             |                     |                        |     |                       |                    |                     |                     |              |              |                    |  |  |
|                              |                                       |                      |               |                     |                        |     |                       |                    |                     |                     |              |              |                    |  |  |



There were no Bypass or Overflow events in 2023

Report Completed by: Veolia Water Scott Gowan, Project Manager

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