



South End Water Pollution Control Centre  
Final Effluent Monitoring Report  
December 2024

| Licence #<br>2716RR | File #<br>1069.1               | 24 Hour Composite |         |        |         |        |         |                |                     |                     |                | Grab Sample |         |            |
|---------------------|--------------------------------|-------------------|---------|--------|---------|--------|---------|----------------|---------------------|---------------------|----------------|-------------|---------|------------|
| Date                | Raw Sewage<br>Daily Flow<br>ML | TSS               |         | BOD5   |         | cBOD5  |         | Ammonia        | Ortho<br>Phosphorus | Total<br>Phosphorus | Total Nitrogen | Temp.       | pH      | E.Coli     |
|                     |                                | (mg/L)            | (mg/L)* | (mg/L) | (mg/L)* | (mg/L) | (mg/L)* | (kg NH3-N/day) | (mg/L-P)            | (mg/L-P)*           | (mg/L-N)*      | (°C)        | (units) | MPN/100 mL |
| 01-Dec-24           | 58.0                           | <3                | 5       | 6      | 8       | <4     | 2       | 314.9          | 0.03                | 0.58                | 13.9           | 15.1        | 7.29    | <10        |
| 02-Dec-24           | 55.6                           | <3                | 5       | 5      | 8       | <4     | 2       | 202.9          | 0.03                | 0.52                | 13.9           | 15.0        | 7.24    | 10         |
| 03-Dec-24           | 55.0                           | <3                | 5       | 5      | 8       | <4     | 2       | 128.2          | 0.06                | 0.42                | 13.9           | 15.1        | 7.17    | 40         |
| 04-Dec-24           | 54.0                           | <3                | 5       | 4      | 8       | <4     | 2       | 83.7           | 0.06                | 0.41                | 14.0           | 15.0        | 7.17    | <10        |
| 05-Dec-24           | 55.0                           | <3                | 5       | <4     | 8       | <4     | 2       | 47.6           | 0.04                | 0.39                | 14.0           | 14.8        | 7.18    | <10        |
| 06-Dec-24           | 54.6                           | <3                | 5       | <4     | 8       | <4     | 2       | 12.2           | 0.05                | 0.35                | 14.1           | 15.1        | 7.15    | 10         |
| 07-Dec-24           | 55.6                           | <3                | 5       | <4     | 8       | <4     | 2       | 36.3           | 0.06                | 0.32                | 14.1           | 15.7        | 7.36    | <10        |
| 08-Dec-24           | 56.3                           | <3                | 5       | <4     | 8       | <4     | 2       | 29.2           | 0.10                | 0.30                | 13.9           | 15.8        | 7.36    | <10        |
| 09-Dec-24           | 57.4                           | <3                | 5       | <4     | 8       | <4     | 2       | 11.2           | 0.07                | 0.29                | 13.9           | 15.0        | 7.13    | 10         |
| 10-Dec-24           | 53.1                           | <3                | 5       | <4     | 8       | <4     | 2       | 1.2            | 0.05                | 0.28                | 13.8           | 15.0        | 7.16    | <10        |
| 11-Dec-24           | 53.4                           | <3                | 5       | <4     | 8       | <4     | 2       | 13.5           | 0.05                | 0.28                | 13.7           | 15.0        | 7.20    | <10        |
| 12-Dec-24           | 54.6                           | <3                | 5       | nr     | 8       | nr     | 2       | 13.2           | 0.06                | 0.28                | 13.6           | 14.8        | 7.05    | <10        |
| 13-Dec-24           | 54.0                           | <3                | 5       | nr     | 8       | nr     | 2       | 6.4            | 0.06                | 0.27                | 13.5           | 13.7        | 7.05    | <10        |
| 14-Dec-24           | 55.6                           | <3                | 5       | nr     | 8       | nr     | 2       | 16.6           | 0.06                | 0.27                | 13.5           | 14.4        | 7.22    | 80         |
| 15-Dec-24           | 56.2                           | <3                | 5       | <4     | 8       | <4     | 2       | 13.8           | 0.04                | 0.27                | 13.3           | 15.2        | 7.27    | 10         |
| 16-Dec-24           | 54.8                           | <3                | 5       | <4     | 8       | <4     | 2       | 6.4            | 0.06                | 0.27                | 13.1           | 15.8        | 7.14    | <10        |
| 17-Dec-24           | 53.9                           | <3                | 5       | <4     | 8       | <4     | 2       | 3.2            | 0.06                | 0.27                | 12.9           | 15.2        | 7.11    | <10        |
| 18-Dec-24           | 54.6                           | <3                | 5       | <4     | 7       | <4     | 2       | 6.3            | 0.05                | 0.26                | 12.7           | 14.5        | 7.05    | <10        |
| 19-Dec-24           | 53.2                           | <3                | 2       | <4     | 6       | <4     | 2       | 4.0            | 0.06                | 0.15                | 12.5           | 14.9        | 7.15    | 10         |
| 20-Dec-24           | 52.1                           | <3                | 2       | <4     | 6       | <4     | 2       | 4.0            | 0.04                | 0.15                | 12.5           | 13.6        | 7.15    | 30         |
| 21-Dec-24           | 53.4                           | <3                | 2       | <4     | 5       | <4     | 2       | 59.8           | 0.08                | 0.15                | 12.4           | 14.7        | 7.23    | <10        |
| 22-Dec-24           | 52.3                           | <3                | 2       | <4     | 5       | <4     | 2       | 90.0           | 0.04                | 0.15                | 12.3           | 15.1        | 7.27    | <10        |
| 23-Dec-24           | 52.7                           | <3                | 2       | <4     | 5       | <4     | 2       | 69.6           | 0.04                | 0.14                | 12.1           | 15.1        | 7.13    | <10        |
| 24-Dec-24           | 52.8                           | <3                | 2       | <4     | 4       | <4     | 2       | 101.9          | 0.04                | 0.14                | 11.9           | 15.0        | 7.23    | 10         |
| 25-Dec-24           | 47.9                           | <3                | 2       | <4     | 4       | <4     | 2       | 77.1           | 0.05                | 0.14                | 11.6           | 15.3        | 7.39    | <10        |
| 26-Dec-24           | 48.0                           | <3                | 2       | <4     | 4       | <4     | 2       | 95.0           | 0.04                | 0.14                | 11.4           | 15.2        | 7.25    | <10        |
| 27-Dec-24           | 56.0                           | <3                | 2       | <4     | 3       | <4     | 2       | 171.9          | 0.06                | 0.14                | 11.2           | 15.7        | 7.12    | <10        |
| 28-Dec-24           | 54.8                           | <3                | 2       | <4     | 3       | <4     | 2       | 100.3          | 0.06                | 0.14                | 11.1           | 15.6        | 7.25    | 24,200     |
| 29-Dec-24           | 51.7                           | <3                | 2       | 4      | 3       | <4     | 2       | 88.9           | 0.04                | 0.14                | 10.8           | 15.6        | 7.25    | >24,200    |
| 30-Dec-24           | 52.4                           | <3                | 2       | <4     | 3       | <4     | 2       | 85.4           | 0.04                | 0.14                | 10.6           | 15.4        | 7.17    | 20         |
| 31-Dec-24           | 52.7                           | <3                | 2       | <4     | 2       | <4     | 2       | 78.5           | 0.04                | 0.14                | 10.5           | 15.6        | 7.15    | 20         |
| Max:                | 58.0                           |                   |         |        |         |        |         |                |                     |                     |                |             |         |            |
| Min:                | 47.9                           |                   |         |        |         |        |         |                |                     |                     |                |             |         |            |
| Average:            | 53.9                           | <3                |         | <4     |         | <4     |         | 63.7           | 0.05                |                     |                | 15.1        | 7.19    |            |
| Total Flow:         | 1,671.7                        |                   |         |        |         |        |         |                |                     |                     |                |             |         |            |
| Geo.Mean:           |                                |                   |         |        |         |        |         |                |                     |                     |                |             |         | 13         |

Notes:

- (1) Effluent ammonia load based upon Raw Sewage flows and Final NH3-N concentrations  
(2) nr - not recorded or no result; na - not analyzed; ns - no sample; o/l - offline; im - instrument maintenance

- (3) Where value is expressed as less than (<), the value is halved and used in the calculations  
(4) \* = 30 day rolling average

Report Date: January 29, 2025