



South End Water Pollution Control Centre  
Final Effluent Monitoring Report  
January 2025

| Licence #<br>2716RR | File #<br>1069.1         | 24 Hour Composite |         |        |         |        |         |                |                     |                     |                | Grab Sample |         |            |
|---------------------|--------------------------|-------------------|---------|--------|---------|--------|---------|----------------|---------------------|---------------------|----------------|-------------|---------|------------|
| Date                | Raw Sewage<br>Daily Flow | TSS               |         | BOD5   |         | cBOD5  |         | Ammonia        | Ortho<br>Phosphorus | Total<br>Phosphorus | Total Nitrogen | Temp.       | pH      | E.Coli     |
|                     | ML                       | (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-Jan-25           | 48.3                     | <3                | 2       | <4     | 2       | <4     | 2       | 51.2           | 0.05                | 0.14                | 10.4           | 15.1        | 7.27    | <10        |
| 02-Jan-25           | 51.3                     | <3                | 2       | <4     | 2       | <4     | 2       | 36.1           | 0.05                | 0.14                | 10.4           | 15.2        | 7.15    | <10        |
| 03-Jan-25           | 51.2                     | <3                | 2       | <4     | 2       | <4     | 2       | 21.7           | 0.04                | 0.14                | 10.4           | 14.8        | 7.14    | <10        |
| 04-Jan-25           | 51.9                     | <3                | 2       | nr     | 2       | nr     | 2       | 47.4           | 0.05                | 0.14                | 10.3           | 14.1        | 7.29    | <10        |
| 05-Jan-25           | 53.2                     | <3                | 2       | <4     | 2       | <4     | 2       | 99.5           | 0.07                | 0.14                | 10.3           | 14.2        | 7.23    | 10         |
| 06-Jan-25           | 52.2                     | <3                | 2       | <4     | 2       | <4     | 2       | 35.9           | 0.05                | 0.14                | 10.2           | 14.1        | 7.30    | <10        |
| 07-Jan-25           | 50.6                     | <3                | 2       | <4     | 2       | <4     | 2       | 5.0            | 0.08                | 0.15                | 10.2           | 14.5        | 7.01    | <10        |
| 08-Jan-25           | 51.6                     | nr                | 2       | nr     | 2       | nr     | 2       | nr             | nr                  | 0.15                | 10.2           | 14.5        | 7.11    | <10        |
| 09-Jan-25           | 51.2                     | <3                | 2       | <4     | 2       | <4     | 2       | 2.2            | 0.04                | 0.15                | 10.4           | 14.8        | 7.07    | <10        |
| 10-Jan-25           | 51.0                     | <3                | 2       | <4     | 2       | <4     | 2       | 6.4            | 0.08                | 0.15                | 10.5           | 14.6        | 7.08    | <10        |
| 11-Jan-25           | 51.5                     | <3                | 2       | <4     | 2       | <4     | 2       | 7.8            | 0.04                | 0.15                | 10.6           | 14.7        | 7.11    | <10        |
| 12-Jan-25           | 54.3                     | <3                | 2       | <4     | 2       | <4     | 2       | 17.8           | 0.04                | 0.15                | 10.7           | 14.2        | 7.21    | <10        |
| 13-Jan-25           | 51.1                     | <3                | 2       | <4     | 2       | <4     | 2       | 5.9            | 0.05                | 0.15                | 10.7           | 14.4        | 7.06    | <10        |
| 14-Jan-25           | 51.2                     | <3                | 2       | <4     | 2       | <4     | 2       | 11.6           | nr                  | 0.15                | 10.8           | 14.2        | 7.10    | <10        |
| 15-Jan-25           | 49.7                     | <3                | 2       | <4     | 2       | <4     | 2       | 4.1            | 0.06                | 0.16                | 11.0           | 14.3        | 7.13    | <10        |
| 16-Jan-25           | 52.2                     | 4                 | 2       | 4      | 2       | <4     | 2       | 38.7           | 0.08                | 0.16                | 11.1           | 14.8        | 7.08    | 10         |
| 17-Jan-25           | 49.6                     | 3                 | 2       | <4     | 2       | <4     | 2       | 12.8           | 0.05                | 0.16                | 11.2           | 14.6        | 7.12    | 30         |
| 18-Jan-25           | 51.4                     | <3                | 2       | <4     | 2       | <4     | 2       | 49.8           | 0.06                | 0.16                | 11.3           | 14.1        | 7.26    | <10        |
| 19-Jan-25           | 53.0                     | <3                | 2       | <4     | 2       | <4     | 2       | 83.2           | 0.05                | 0.16                | 11.3           | 13.5        | 7.25    | 20         |
| 20-Jan-25           | 50.3                     | 3                 | 2       | <4     | 2       | <4     | 2       | 45.7           | 0.06                | 0.16                | 11.3           | 13.7        | 7.06    | <10        |
| 21-Jan-25           | 50.0                     | <3                | 2       | <4     | 2       | <4     | 2       | 22.0           | 0.05                | 0.16                | 11.4           | 13.5        | 7.18    | 40         |
| 22-Jan-25           | 50.5                     | <3                | 2       | <4     | 2       | <4     | 2       | 25.8           | 0.04                | 0.16                | 11.5           | 13.6        | 6.99    | 10         |
| 23-Jan-25           | 50.2                     | 3                 | 2       | <4     | 2       | <4     | 2       | 21.5           | 0.04                | 0.16                | 11.6           | 14.1        | 7.05    | <10        |
| 24-Jan-25           | 49.8                     | <3                | 2       | <4     | 2       | <4     | 2       | 26.3           | 0.08                | 0.16                | 11.8           | 14.1        | 7.14    | 50         |
| 25-Jan-25           | 51.0                     | <3                | 2       | <4     | 2       | <4     | 2       | 56.1           | 0.05                | 0.16                | 12.0           | 14.0        | 7.29    | <10        |
| 26-Jan-25           | 52.0                     | 3                 | 2       | <4     | 2       | <4     | 2       | 66.6           | 0.08                | 0.17                | 12.1           | 14.2        | 7.23    | 10         |
| 27-Jan-25           | 50.5                     | <3                | 2       | <4     | 2       | <4     | 2       | 49.3           | 0.10                | 0.17                | 12.2           | 14.7        | 7.12    | 10         |
| 28-Jan-25           | 50.3                     | 3                 | 2       | <4     | 2       | <4     | 2       | 59.4           | 0.08                | 0.17                | 12.2           | 14.9        | 7.08    | 10         |
| 29-Jan-25           | 50.8                     | <3                | 2       | <4     | 2       | <4     | 2       | 67.6           | 0.08                | 0.18                | 12.3           | 14.8        | 7.11    | 80         |
| 30-Jan-25           | 50.7                     | 3                 | 2       | <4     | 2       | <4     | 2       | 39.2           | 0.06                | 0.18                | 12.4           | 15.0        | 7.05    | <10        |
| 31-Jan-25           | 50.1                     | 3                 | 2       | <4     | 2       | <4     | 2       | 44.5           | 0.05                | 0.18                | 12.4           | 14.1        | 7.02    | <10        |
| Max:                | 54.3                     |                   |         |        |         |        |         |                |                     |                     |                |             |         |            |
| Min:                | 48.3                     |                   |         |        |         |        |         |                |                     |                     |                |             |         |            |
| Average:            | 51.1                     | <3                |         | <4     |         | <4     |         | 35.4           | 0.06                |                     |                | 14.4        | 7.14    |            |
| Total Flow:         | 1,582.7                  |                   |         |        |         |        |         |                |                     |                     |                |             |         |            |
| Geo.Mean:           |                          |                   |         |        |         |        |         |                |                     |                     |                |             |         | <10        |

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: February 28, 2025