

2024 July 26

Table 1 – Effluent Results (2024 April to June)

| Parameter | Units | Action Level (Weekly Concentration Composite) | Release Limit (Weekly Mean Concentration) | Release Limit (Monthly Mean Concentration) | Maximum Weekly Concentration Composite Sample | | | Monthly Mean Concentration Composite Sample | | |
|----------------------------|-------|--|--|---|--|--------|--------|--|--------|--------|
| | | | | | April | May | June | April | May | June |
| Acute Toxicity | - | - | - | Cannot be | - | - | - | PASS | PASS | PASS |
| Radium-226 (Ra) | Bq/L | 0.05 | 0.74 | 0.37 | 0.006 | <0.005 | <0.005 | <0.005 | <0.005 | <0.005 |
| Total Arsenic (As) | µg/L | 50 | 200 | 100 | 2.0 | 19.6 | 2.3 | 1.9 | 5.7 | 2.3 |
| Total Cadmium (Cd) | µg/L | 0.5 | 2 | 1 | <0.003 | 0.04 | <0.003 | <0.003 | <0.01 | <0.003 |
| Total Cobalt (Co) | µg/L | 5 | 10 | 5 | 0.15 | 0.20 | 0.02 | 0.05 | 0.06 | 0.02 |
| Total Copper (Cu) | µg/L | 5 | 10 | 5 | <0.20 | 0.50 | <0.20 | <0.20 | <0.30 | <0.20 |
| Total Molybdenum | µg/L | 39 | - | - | 0.80 | 6.5 | <0.40 | <0.60 | <1.8 | <0.40 |
| Total Phosphorus (P) | mg/L | 0.2 | 0.7 | 0.35 | 0.01 | 0.06 | 0.004 | <0.01 | <0.02 | 0.004 |
| Total Selenium (Se) | µg/L | 0.5 | 60 | 30 | <0.04 | <0.04 | 0.04 | <0.04 | <0.04 | <0.04 |
| Total Thallium (Tl) | µg/L | 0.05 | 16 | 8 | <0.005 | 0.006 | <0.005 | <0.005 | <0.005 | <0.005 |
| Total Uranium (U) | µg/L | 50 | 200 | 100 | 1.9 | 15.5 | 1.5 | 1.5 | 4.8 | 1.4 |
| Total Vanadium (V) | µg/L | 5 | 80 | 40 | 0.04 | 0.34 | 0.03 | 0.03 | 0.09 | 0.03 |
| Total Ammonia-N | mg/L | 4.9 | 11.5 | 5.75 | 0.07 | 0.05 | 0.09 | <0.05 | <0.04 | 0.08 |
| Nitrite (NO ₂) | mg/L | 1.5 | 3 | 1.5 | <0.03 | 0.06 | <0.03 | <0.03 | <0.04 | <0.03 |
| Nitrate (NO ₃) | mg/L | 32 | 150 | 75 | <0.06 | 0.06 | <0.06 | <0.06 | <0.05 | <0.06 |
| pH | - | 6.5 - 8.5 | <6 or >9.5 | 6 - 9.5 | 7.96 | 7.81 | 7.92 | 7.61 | 7.63 | 7.92 |
| Total Suspended | mg/L | 7.5 | 30 | 15 | 1.0 | 1.0 | 1.0 | <1.0 | <1.0 | <1.0 |

Notes:

"<" denotes some or all results were below the minimum detection limit

Action levels and release limits for liquid effluent are defined in:

- CNL, *Port Granby Project Environmental and Biophysical Monitoring Plan, 4502-509247-PLA-001, Revision 2, 2022 September 30.*
- Letter, R. Buhr (CNSC) to S. Morris (CNL), *CNL-PHAI WMP - CNSC Staff's Review of CNL's Proposed Revised Liquid Effluent Action Levels for the Port Granby and Port Hope Waste Water Treatment Plants, 4500-NOCN-23-0014-L, 2023 August 29.*