



Port Granby Long-Term Waste Management Facility - Quarterly Results of the Effluent Monitoring Program (2021 April to June)

2021 JULY 23

**Table 1 – Toxicity Results (2021 April to June)**

<b>WNSL-W1-2311.02/2021 Appendix B.1 Phase 1 Release Limits for Liquid Effluent</b>		<b>Monthly Results from Sample Analysis</b>		
<b>Parameter</b>	<b>Monthly Average Limits</b>	<b>2021 April</b>	<b>2021 May</b>	<b>2021 June</b>
Toxicity Testing	Effluent cannot be toxic	PASS <sup>1</sup>	PASS	N/A <sup>2</sup>

<sup>1</sup> – Initial FAIL sample result for toxicity considered an anomaly as reported in [3], [5] and accepted by CNSC staff [4]. Duplicate sample and re-run of initial sample resulted in PASS for toxicity.

<sup>2</sup> - No discharges were undertaken during 2021 June therefore there were no analytical results for Final Effluent during this period.

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**Table 2 – Effluent Results (2021 April to June)**

Parameter	Units	Action Levels	Release Limit (monthly mean)	Release Limit (weekly composite)	Maximum Weekly Results			Monthly Average		
					April	May	June	April	May	June
Radium-226	Bq/L	0.05	0.37	0.74	<0.005	<0.005	-	<0.005	<0.005	N/A <sup>1</sup>
Total Arsenic (As)	µg/L	50	100	200	5.30	5.50	-	4.37	2.85	N/A <sup>1</sup>
Total Cadmium (Cd)	µg/L	1	1	2	0.004	0.064	-	<0.004	<0.064	N/A <sup>1</sup>
Total Cobalt (Co)	µg/L	5	5	10	0.46	0.53	-	0.34	0.44	N/A <sup>1</sup>
Total Copper (Cu)	µg/L	5	5	10	0.30	<0.2	-	0.30	<0.2	N/A <sup>1</sup>
Total Molybdenum (Mo)	µg/L	50	-	-	0.96	0.78	-	0.87	0.74	N/A <sup>1</sup>
Total Phosphorus (P)	mg/L	0.35	0.35	0.7	0.024	0.017	-	0.022	<0.017	N/A <sup>1</sup>
Total Selenium (Se)	µg/L	20	30	60	<0.04	<0.04	-	<0.04	<0.04	N/A <sup>1</sup>
Total Thallium (Tl)	µg/L	0.5	8	16	<0.005	<0.005	-	<0.005	<0.005	N/A <sup>1</sup>
Total Uranium (U)	µg/L	100	100	200	0.97	0.89	-	0.67	0.72	N/A <sup>1</sup>
Total Vanadium (V)	µg/L	5	40	80	0.16	0.34	-	0.12	0.24	N/A <sup>1</sup>
Total Ammonia-N	mg/L	5.75	5.75	11.5	0.06	0.05	-	<0.06	<0.05	N/A <sup>1</sup>
Nitrite (NO <sub>2</sub> )	mg/L	1.5	1.5	3	<0.03	<0.03	-	<0.03	<0.03	N/A <sup>1</sup>
Nitrate (NO <sub>3</sub> )	mg/L	75	75	150	0.11	0.07	-	<0.11	<0.07	N/A <sup>1</sup>
pH	pH	6.5-8.5	6-9.5	<6 or >9.5	7.64	7.57	-	7.31	7.39	N/A <sup>1</sup>
Total Suspended Solids	mg/L	15	15	30	<1	<1	-	<1	<1	N/A <sup>1</sup>

Notes: "<" denotes results were below minimum detection limit;

<sup>1</sup>- No discharges were undertaken during 2021 June therefore there were no analytical results for Final Effluent during this period.