

2022 FEBRUARY 04

**Port Granby Long-Term Waste Management Facility Quarterly Results of Effluent Monitoring Program (2021 October to December)**

**Table 1 – Toxicity Results (2021 October to December)**

WNSL-W1-2311.02/2021 Appendix B.1 Phase 1 Release Limits for Liquid Effluent		Monthly Results from Sample Analysis		
Parameter	Monthly Average Limits	October	November	December
Toxicity Testing	Effluent cannot be toxic	PASS	PASS	PASS

**Table 2 – Effluent Results (2021 October to December)**

Parameter	Units	Action Levels	Release Limit (monthly mean)	Release Limit (weekly composite)	Maximum Weekly Results			Monthly Average		
					October	November	December	October	November	December
Radium-226	Bq/L	0.05	0.37	0.74	0.005	0.005	0.005	0.005	0.005	0.005
Total Arsenic (As)	µg/L	50	100	200	9.8	9.4	12.9	7.9	8.4	10.6
Total Cadmium (Cd)	µg/L	1	1	2	0.02	0.03	0.003	0.01	0.01	0.003
Total Cobalt (Co)	µg/L	5	5	10	0.3	0.6	0.34	0.21	0.33	0.30
Total Copper (Cu)	µg/L	5	5	10	0.2	0.5	0.20	0.2	0.28	0.2
Total Molybdenum (Mo)	µg/L	50	-	-	1.2	2.7	1.7	0.95	1.7	1.5
Total Phosphorus (P)	mg/L	0.35	0.35	0.7	0.01	0.02	0.063	0.01	0.02	0.02
Total Selenium (Se)	µg/L	20	30	60	0.05	0.04	0.04	0.04	0.04	0.04
Total Thallium (Tl)	µg/L	0.5	8	16	0.005	0.01	0.005	0.005	0.005	0.005
Total Uranium (U)	µg/L	100	100	200	2.2	3.4	3.1	1.5	2.3	2.7
Total Vanadium (V)	µg/L	5	40	80	0.18	0.20	0.24	0.14	0.13	0.19
Total Ammonia-N	mg/L	5.75	5.75	11.5	0.19	0.3	0.2	0.14	0.21	0.18
Nitrite (NO <sub>2</sub> )	mg/L	1.5	1.5	3	0.17	0.12	0.09	0.11	0.07	0.06
Nitrate (NO <sub>3</sub> )	mg/L	75	75	150	0.11	0.3	0.07	0.07	0.13	0.06
pH	pH	6.5-8.5	6-9.5	<6 or >9.5	7.75	7.63	7.48	7.46	7.40	7.30
Total Suspended Solids	mg/L	15	15	30	1.0	2.0	2.0	1.0	1.3	1.2

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