

Port Granby LTWMF – Quarterly Results of Effluent Monitoring Program, 2021 January to March

Table 1 – Toxicity Results (2021 January to March)

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

Table 2 – Effluent Results (2021 January to March)

Parameter	Units	Action Levels	Release Limit (monthly mean)	Release Limit (weekly composite)	Maximum Weekly Results			Monthly Average		
					January	February	March	January	February	March
Radium-226	Bq/L	0.05	0.37	0.74	<0.005	-	<0.005	<0.005	-	<0.005
Total Arsenic (As)	µg/L	50	100	200	2.2	-	3.3	2.2	-	3.3
Total Cadmium (Cd)	µg/L	1	1	2	<0.003	-	<0.003	<0.003	-	<0.003
Total Cobalt (Co)	µg/L	5	5	10	0.16	-	0.201	0.16	-	0.201
Total Copper (Cu)	µg/L	5	5	10	0.9	-	0.7	0.9	-	0.7
Total Molybdenum (Mo)	µg/L	50	-	-	0.54	-	0.67	0.54	-	0.67
Total Phosphorus (P)	mg/L	0.35	0.35	0.7	0.038	-	0.018	0.038	-	0.018
Total Selenium (Se)	µg/L	20	30	60	<0.04	-	<0.04	<0.04	-	<0.04
Total Thallium (Tl)	µg/L	0.5	8	16	<0.005	-	<0.005	<0.005	-	<0.005
Total Uranium (U)	µg/L	100	100	200	0.515	-	0.428	0.515	-	0.428
Total Vanadium (V)	µg/L	5	40	80	0.06	-	0.05	0.06	-	0.05
Total Ammonia-N	mg/L	5.75	5.75	11.5	0.04	-	0.05	0.04	-	0.05
Nitrite (NO ₂)	mg/L	1.5	1.5	3	<0.03	-	<0.03	<0.03	-	<0.03
Nitrate (NO ₃)	mg/L	75	75	150	0.08	-	<0.06	0.08	-	<0.06
pH	pH	6.5-8.5	6-9.5	<6 or >9.5	7.61	-	7.74	7.61	-	7.74
Total Suspended Solids	mg/L	15	15	30	1	-	<1	1	-	<1

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