

PH WWTP 2017 Q4 Effluent Water Quality Data

Table 1 – 2017 October to December Effluent and Toxicity Results

WNSL-W1-2311.01/2022 Appendix B Phase 1 Release Limits for Liquid Effluent		Monthly Mean Concentration Results from Sample Analysis		
Parameter	Maximum Monthly Mean Concentration	2017 October ¹	2017 November ²	2017 December ²
Radium-226 (Bq/L)	0.37	<0.005	<0.005	<0.005
Arsenic (mg/L)	0.50	0.00105	<0.001	<0.001
pH	Between 6 and 9	7.40	7.13	7.11
Toxicity Testing ³	Effluent cannot be toxic	PASS	PASS	PASS

1 – Based on analyses of five samples

2 – Based on analyses of four samples

3 – Toxicity testing results based on two monthly samples

Table 2 – Early Works Excavation Activities Sampling Results – October

WNSL-W1-2311.01/2022 Appendix B Phase 1 Release Limits for Liquid Effluent	Weekly Concentration Results from Sample Analysis October					
	Maximum Monthly Mean Concentration	2017 Oct 03	2017 Oct 10	2017 Oct 17	2017 Oct 24	2017 Oct 31
Uranium (mg/L)	N/A ¹	0.00097	0.00088	0.00052	0.00055	0.0009
Radium-226 (Bq/L)	0.37	<0.005	<0.005	<0.005	<0.005	<0.005
Arsenic (mg/L)	0.50	0.0011	0.001	<0.001	<0.001	<0.001
pH	Between 6 and 9	7.42	7.41	7.34	7.27	7.57
Toxicity Testing	Effluent cannot be toxic	PASS	PASS	N/A	N/A	N/A

1 - There is currently no effluent release limit for Uranium.

Table 3 – Early Works Excavation Activities Sampling Results – November

WNSL-W1-2311.01/2022 Appendix B Phase 1 Release Limits for Liquid Effluent	Weekly Concentration Results from Sample Analysis November				
	Parameter	Maximum Monthly Mean Concentration	2017 Nov 07	2017 Nov 14	2017 Nov 21
Uranium (mg/L)	N/A ¹	0.00057	0.00036	0.00041	0.00046
Radium-226 (Bq/L)	0.37	<0.005	<0.005	<0.005	<0.005
Arsenic (mg/L)	0.50	<0.001	<0.001	<0.001	<0.001
pH	Between 6 and 9	7.21	7.09	7.14	7.07
Toxicity Testing	Effluent cannot be toxic	PASS	PASS	N/A	N/A

1 - There is currently no effluent release limit for Uranium.

Table 4 – Early Works Excavation Activities Sampling Results – December

WNSL-W1-2311.01/2022 Appendix B Phase 1 Release Limits for Liquid Effluent	Weekly Concentration Results from Sample Analysis December				
	Parameter	Maximum Monthly Mean Concentration	2017 Dec 05	2017 Dec 12	2017 Dec 19
Uranium (mg/L)	N/A ¹	0.00044	0.00057	0.00081	0.00098
Radium-226 (Bq/L)	0.37	<0.005	<0.005	<0.005	<0.005
Arsenic (mg/L)	0.50	<0.001	<0.001	<0.001	<0.001
pH	Between 6 and 9	7.04	7.08	7.25	7.08
Toxicity Testing	Effluent cannot be toxic	PASS	PASS	N/A	N/A

1 - There is currently no effluent release limit for Uranium.