



ENVIRONMENTAL PROTECTION LICENCE 7654

WATER QUALITY MONITORING

NOVEMBER 2023

POINT 1 DAM CHARACTERISATION

Pollutant	Unit of measure	Result
Alkalinity	mg/L	467
Ammonia	mg/L	0.95
Calcium	mg/L	90
Chloride	mg/L	1300
Electrical conductivity	µS/cm	8170
Fluoride	mg/L	0.53
Iron	mg/L	0.67
Magnesium	mg/L	210
Manganese	mg/L	0.39
Nitrogen	mg/L	69
pH	pH	9.15
Phosphorus	mg/L	8.4
Polycyclic aromatic hydrocarbons	mg/L	<1
Potassium	mg/L	71
Sodium	mg/L	1700
Sulfate	mg/L	2200
Total organic carbon	mg/L	370
Total petroleum hydrocarbons	mg/L	11
Total phenolics	mg/L	0.49
Total suspended solids	mg/L	273

POINT 3 PROCESS WATER TANK

Pollutant	Unit of measure	Result
Boron	mg/L	3.1
Cadmium	mg/L	0.0002
Copper	mg/kg	51
Electrical conductivity	µS/cm	7840
Iron	mg/L	1.7
Molybdenum	mg/L	0.13
Nickel	mg/L	0.021
pH	pH	8.44
Silver	mg/L	<1
Total suspended solids	mg/L	101



POINT 2 SPILLWAY

Nil discharge from this POINT during the month of November 2023

Pollutant	Unit of measure	Concentration limit/Range	Result	Exceedances
Alkalinity	mg/L	-		
Ammonia	mg/L	0.9		
Calcium	mg/L	-		
Chloride	mg/L	-		
Electrical conductivity	µS/cm	-		
Fluoride	mg/L	-		
Iron	mg/L	-		
Magnesium	mg/L	-		
Manganese	mg/L	-		
Nitrogen	mg/L	-		
pH	pH	6.5-8.5		
Phosphorus	mg/L	-		
Polycyclic aromatic hydrocarbons	mg/L	-		
Potassium	mg/L	-		
Sodium	mg/L	-		
Sulfate	mg/L	-		
Total organic carbon	mg/L	-		
Total petroleum hydrocarbons	mg/L	-		
Total phenolics	mg/L	-		
Total suspended solids	mg/L	50		

POINT 4 SEDIMENT BASIN

Nil discharge from this POINT during the month of November 2023

Pollutant	Unit of measure	Concentration limit/Range	Result	Exceedance
Ammonia	mg/L	-		
Electrical conductivity	µS/cm	-		
Nitrogen	mg/L	-		
pH	pH	6.5-8.5		
Total organic carbon	mg/L	-		
Total petroleum hydrocarbons	mg/L	-		
Total suspended solids	mg/L	50		