



ENVIRONMENTAL PROTECTION LICENCE 7654

WATER QUALITY MONITORING

AUGUST 2023

POINT 1 DAM CHARACTERISATION

Pollutant	Unit of measure	Result
Alkalinity	mg/L	314
Ammonia	mg/L	2.34
Calcium	mg/L	192
Chloride	mg/L	647
Electrical conductivity	$\mu\text{S/cm}$	4190
Fluoride	mg/L	0.4
Iron	mg/L	2.4
Magnesium	mg/L	125
Manganese	mg/L	0.3
Nitrogen	mg/L	26.6
pH	pH	9.11
Phosphorus	mg/L	4.12
Polycyclic aromatic hydrocarbons	mg/L	<0.05
Potassium	mg/L	278
Sodium	mg/L	443
Sulfate	mg/L	1300
Total organic carbon	mg/L	159
Total petroleum hydrocarbons	mg/L	0.36
Total phenolics	mg/L	<0.05
Total suspended solids	mg/L	28

POINT 3 PROCESS WATER TANK

Pollutant	Unit of measure	Result
Boron	mg/L	2.15
Cadmium	mg/L	<0.0001
Copper	mg/kg	0.007
Electrical conductivity	$\mu\text{S/cm}$	7580
Iron	mg/L	0.1
Molybdenum	mg/L	0.12
Nickel	mg/L	0.014
pH	pH	8.53
Silver	mg/L	<0.001
Total suspended solids	mg/L	0



POINT 2 SPILLWAY

Nil discharge from this POINT during the month of August 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 August 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		