



ENVIRONMENTAL PROTECTION LICENCE 7654

WATER QUALITY MONITORING

August 2024

POINT 1 DAM CHARACTERISATION

Pollutant	Unit of measure	Result
Alkalinity	mg/L	52
Ammonia	mg/L	0.8
Calcium	mg/L	46
Chloride	mg/L	150
Electrical conductivity	$\mu\text{S}/\text{cm}$	1287
Fluoride	mg/L	0.2
Iron	mg/L	2.4
Magnesium	mg/L	33
Manganese	mg/L	0.38
Nitrogen	mg/L	17
pH	pH	7.85
Phosphorus	mg/L	2
Polycyclic aromatic hydrocarbons	mg/L	<0.1
Potassium	mg/L	63
Sodium	mg/L	110
Sulfate	mg/L	250
Total organic carbon	mg/L	77
Total petroleum hydrocarbons	mg/L	<50
Total phenolics	mg/L	<0.05
Total suspended solids	mg/L	13

POINT 3 PROCESS WATER TANK

Pollutant	Unit of measure	Result
Boron	mg/L	2.4
Cadmium	mg/L	<0.1
Copper	mg/kg	<1
Electrical conductivity	$\mu\text{S}/\text{cm}$	7360
Iron	mg/L	0.02
Molybdenum	mg/L	0.12
Nickel	mg/L	0.008
pH	pH	8.6
Silver	mg/L	<1
Total suspended solids	mg/L	<5

POINT 2 SPILLWAY Nil Discharge

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

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		