



ENVIRONMENTAL PROTECTION LICENCE 7654

WATER QUALITY MONITORING

MAY 2024

POINT 1 DAM CHARACTERISATION

Pollutant	Unit of measure	Result
Alkalinity	mg/L	51
Ammonia	mg/L	2.1
Calcium	mg/L	10
Chloride	mg/L	43
Electrical conductivity	$\mu\text{S}/\text{cm}$	413
Fluoride	mg/L	0.2
Iron	mg/L	0.97
Magnesium	mg/L	8.9
Manganese	mg/L	0.02
Nitrogen	mg/L	5.6
pH	pH	6.95
Phosphorus	mg/L	0.93
Polycyclic aromatic hydrocarbons	mg/L	<0.1
Potassium	mg/L	19
Sodium	mg/L	38
Sulfate	mg/L	77
Total organic carbon	mg/L	20
Total petroleum hydrocarbons	mg/L	<50
Total phenolics	mg/L	<0.05
Total suspended solids	mg/L	14

POINT 3 PROCESS WATER TANK

Pollutant	Unit of measure	Result
Boron	mg/L	2.5
Cadmium	mg/L	<0.1
Copper	mg/kg	0.05
Electrical conductivity	$\mu\text{S}/\text{cm}$	7780
Iron	mg/L	0.05
Molybdenum	mg/L	0.12
Nickel	mg/L	0.6
pH	pH	8.28
Silver	mg/L	<1
Total suspended solids	mg/L	19

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		