



ENVIRONMENTAL PROTECTION LICENCE 7654

WATER QUALITY MONITORING

FEBRUARY 2024

POINT 1 DAM CHARACTERISATION

Pollutant	Unit of measure	Result
Alkalinity	mg/L	53
Ammonia	mg/L	0.54
Calcium	mg/L	14
Chloride	mg/L	14
Electrical conductivity	$\mu\text{S/cm}$	300
Fluoride	mg/L	0.2
Iron	mg/L	4.4
Magnesium	mg/L	9.4
Manganese	mg/L	0.07
Nitrogen	mg/L	1.8
pH	pH	7.5
Phosphorus	mg/L	0.5
Polycyclic aromatic hydrocarbons	mg/L	<0.1
Potassium	mg/L	11
Sodium	mg/L	18
Sulfate	mg/L	57
Total organic carbon	mg/L	14
Total petroleum hydrocarbons	mg/L	<50
Total phenolics	mg/L	<0.05
Total suspended solids	mg/L	210

POINT 3 PROCESS WATER TANK

Pollutant	Unit of measure	Result
Boron	mg/L	2
Cadmium	mg/L	0.0004
Copper	mg/kg	0.012
Electrical conductivity	$\mu\text{S/cm}$	8300
Iron	mg/L	1.3
Molybdenum	mg/L	0.12
Nickel	mg/L	0.05
pH	pH	8.4
Silver	mg/L	<1
Total suspended solids	mg/L	26



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		