ENVIRONMENTAL PROTECTION LICENCE 7654

WATER QUALITY MONITORING

February 2025

POINT 1 DAM CHARACTERISATION

Pollutant	Unit of measure	Result
Alkalinity	mg/L	200
Ammonia	mg/L	0.13
Calcium	mg/L	110
Chloride	mg/L	360
Electrical conductivity	µS/cm	2800
Fluoride	mg/L	0.4
Iron	mg/L	0.19
Magnesium	mg/L	85
Manganese	mg/L	0.04
Nitrogen	mg/L	12
pH	pH	9.2
Phosphorus	mg/L	1.7
Polycyclic aromatic hydrocarbons	mg/L	<0.1
Potassium	mg/L	200
Sodium	mg/L	270
Sulfate	mg/L	590
Total organic carbon	mg/L	80
Total petroleum hydrocarbons	mg/L	0.39
Total phenolics	mg/L	<0.05
Total suspended solids	mg/L	53

POINT 3 PROCESS WATER TANK

Pollutant	Unit of measure	Result
Boron	mg/L	2.7
Cadmium	mg/L	<0.1
Copper	mg/kg	<1
Electrical conductivity	µS/cm	7800
Iron	mg/L	0.02
Molybdenum	mg/L	0.15
Nickel	mg/L	0.009
pH	pH	8.4
Silver	mg/L	<1
Total suspended solids	mg/L	22

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		