



ENVIRONMENTAL PROTECTION LICENCE 7654

WATER QUALITY MONITORING

November 2021

**POINT 1 DAM CHARACTERISATION**

Pollutant	Unit of measure	Result
Alkalinity	mg/L	215
Ammonia	mg/L	25
Calcium	mg/L	120
Chloride	mg/L	350
Electrical conductivity	$\mu\text{S/cm}$	2590
Fluoride	mg/L	0.3
Iron	mg/L	0.55
Magnesium	mg/L	74
Manganese	mg/L	190
Nitrogen	mg/L	54.5
pH	pH	8.86
Phosphorus	mg/L	4.2
Polycyclic aromatic hydrocarbons	mg/L	<1.0
Potassium	mg/L	180
Sodium	mg/L	270
Sulfate	mg/L	600
Total organic carbon	mg/L	140
Total petroleum hydrocarbons	mg/L	0.48
Total phenolics	mg/L	<0.05
Total suspended solids	mg/L	69

**POINT 3 PROCESS WATER TANK**

Pollutant	Unit of measure	Result
Boron	mg/L	2.4
Cadmium	mg/L	<0.1
Copper	mg/kg	0.001
Electrical conductivity	$\mu\text{S/cm}$	6310
Iron	mg/L	0.068
Molybdenum	mg/L	0.3
Nickle	mg/L	0.008
pH	pH	8.52
Silver	mg/L	<1
Total suspended solids	mg/L	36



**POINT 2 SPILLWAY**

**Nil discharge from this POINT during the month of November 2021**

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 November 2021**

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		