



ENVIRONMENTAL PROTECTION LICENCE 7654

WATER QUALITY MONITORING

AUGUST 2020

POINT 1 DAM CHARACTERISATION

Pollutant	Unit of measure	Result
Alkalinity	mg/L	15
Ammonia	mg/L	25
Calcium	mg/L	110
Chloride	mg/L	360
Electrical conductivity	$\mu\text{S}/\text{cm}$	1980
Fluoride	mg/L	0.23
Iron	mg/L	0.61
Magnesium	mg/L	65
Manganese	mg/L	280
Nitrogen	mg/L	56.6
pH	pH	5.9
Phosphorus	mg/L	3.3
Polycyclic aromatic hydrocarbons	mg/L	<1
Potassium	mg/L	160
Sodium	mg/L	190
Sulfate	mg/L	580
Total organic carbon	mg/L	140
Total petroleum hydrocarbons	mg/L	1.1
Total phenolics	mg/L	<0.01
Total suspended solids	mg/L	73

POINT 3 PROCESS WATER TANK

Pollutant	Unit of measure	Result
Boron	mg/L	3.6
Cadmium	mg/L	0.0005
Copper	mg/kg	<1
Electrical conductivity	$\mu\text{S}/\text{cm}$	8120
Iron	mg/L	0.035
Molybdenum	mg/L	0.4
Nickle	mg/L	0.009
pH	pH	8.2
Silver	mg/L	<1
Total suspended solids	mg/L	<5



POINT 2 SPILLWAY

Nil discharge from this POINT during the month of August 2020

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 August 2020

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		