



ENVIRONMENTAL PROTECTION LICENCE 7654

WATER QUALITY MONITORING

MAY 2021

POINT 1 DAM CHARACTERISATION

| Pollutant | Unit of measure | Result |
|----------------------------------|------------------|--------|
| Alkalinity | mg/L | 429 |
| Ammonia | mg/L | 54 |
| Calcium | mg/L | 150 |
| Chloride | mg/L | 380 |
| Electrical conductivity | $\mu\text{S/cm}$ | 3050 |
| Fluoride | mg/L | 0.24 |
| Iron | mg/L | 0.81 |
| Magnesium | mg/L | 75 |
| Manganese | mg/L | 390 |
| Nitrogen | mg/L | 79.03 |
| pH | pH | 7.85 |
| Phosphorus | mg/L | 7.2 |
| Polycyclic aromatic hydrocarbons | mg/L | <1.5 |
| Potassium | mg/L | 210 |
| Sodium | mg/L | 200 |
| Sulfate | mg/L | 520 |
| Total organic carbon | mg/L | 210 |
| Total petroleum hydrocarbons | mg/L | 1.1 |
| Total phenolics | mg/L | 0.01 |
| Total suspended solids | mg/L | 25 |

POINT 3 PROCESS WATER TANK

| Pollutant | Unit of measure | Result |
|-------------------------|------------------|--------|
| Boron | mg/L | 3.3 |
| Cadmium | mg/L | 0.0005 |
| Copper | mg/kg | <1 |
| Electrical conductivity | $\mu\text{S/cm}$ | 7030 |
| Iron | mg/L | 0.028 |
| Molybdenum | mg/L | 0.29 |
| Nickle | mg/L | 0.007 |
| pH | pH | 8.38 |
| Silver | mg/L | <1 |
| Total suspended solids | mg/L | 25 |



POINT 2 SPILLWAY

Nil discharge from this POINT during the month of May 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 May 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 | | |