

Junee Shire Council

Environmental Monitoring in accordance with the Protection of the Environment Operations Act 1997 (POEO Act)

Report Date 7/11/2023 Reporting Period: 2022

| Environment Protection Licence No.: 752 | | Sample No. | Sample Date | Analysis Results | | | | |
|--|-----------|------------|---------------------|------------------|------------------------------|-------------------------------|----------------------------------|--------------------------|
| Treated Effluent | | | Oil & Grease (mg/L) | pH (pH) | Faecal Coliforms (CFU/100ml) | Total Suspended Solids (mg/L) | Biochemical Oxygen Demand (mg/L) | Chlorine Residual (mg/L) |
| Licence Limit - 100 percentile concentration | | | 10 | 5.5-9.5 | 600 | 30 | 30 | - |
| Point 1 | 2112-0020 | 22/12/2022 | <1 | 9.6 | 444 | 23 | 9 | - |
| Licence Limit - 100 percentile concentration | | | 10 | 6.5-8.5 | 10 | - | - | 1 |
| Point 13 (formerly 6) | 2112-0020 | 22/12/2022 | <1 | 8.6 | 111 | 18 | 44 | <0.5 |
| | 2206-0014 | 22/06/2022 | 2 | 7.7 | 6 | <2 | 3 | <0.5 |

| Soil Samples | | | | | | | | | | | |
|------------------|------------|-------------|------------------------------|-------------------------------|---------------------------|--------------------------|----------------------------|---|-------------------------------|---------|--|
| Analysis Results | | | | | | | | | | | |
| Control Point | Sample Ref | Sample Date | Available Phosphorus (mg/kg) | Exchangeable Sodium (cmol/kg) | Nitrate & Nitrite (mg/kg) | Nitrogen (Total) (mg/kg) | Phosphorus (Total) (mg/kg) | Phosphorus Sorption Capacity (kg/Ha -triannually) | Sodium Adsorption Ratio (SAR) | pH (pH) | |
| 2-100 | 2201-0021 | 22/01/2022 | 310 | 0.64 | 4 | 1840 | 310 | - | 1 | 6.9 | |
| 2-300 | 2201-0021 | 22/01/2022 | 45 | 0.24 | <1 | 336 | 152 | - | 1 | 7.1 | |
| 2-CONTROL | 2201-0021 | 22/01/2022 | 14.8 | 0.28 | <1 | 823 | 184 | - | <1 | 6.7 | |
| 5-100 | 2201-0021 | 22/01/2022 | 28.8 | 1.36 | 4 | 1330 | 257 | - | 2 | 7.4 | |
| 5-300 | 2201-0021 | 22/01/2022 | 11.9 | 1.06 | <1 | 564 | 121 | - | 2 | 7.8 | |
| 5-CONTROL | 2201-0021 | 22/01/2022 | 65.9 | 1.59 | <1 | 1430 | 156 | - | 2 | 7.1 | |
| 6-100 | 2201-0021 | 22/01/2022 | 135 | 2.02 | 15 | 3360 | 309 | - | 2 | 7 | |
| 6-300 | 2201-0021 | 22/01/2022 | 11.2 | 1.69 | 6 | 1080 | 132 | - | 2 | 7.7 | |
| 6-CONTROL | 2201-0021 | 22/01/2022 | 21 | 0.73 | 6 | 2000 | 245 | - | 1 | 7.4 | |
| 7-100 | 2201-0021 | 22/01/2022 | 40.7 | 2.2 | 13 | 1900 | 218 | - | 2 | 7.2 | |
| 7-300 | 2201-0021 | 22/01/2022 | 28 | 5.64 | 7 | 1230 | 80 | - | 6 | 7.9 | |
| 7-CONTROL | 2201-0021 | 22/01/2022 | 53.3 | 4.58 | 7 | 1560 | 220 | - | 5 | 7.2 | |

| Groundwater Monitoring | | | | | | | | | | |
|------------------------|------------|------------|--------------------------|--------------------|--------------|----------------------|-------------------------|---------------------------|----|--|
| Analysis Results | | | | | | | | | | |
| Control Point | Sample Ref | Date | Standing Water Level (m) | Quality Sample Ref | Date Sampled | Conductivity (µS/cm) | Nitrogen (Total) (mg/L) | Phosphorus (Total) (mg/L) | pH | |
| | 8 JSC | 25/04/2022 | 2.5 | - | - | - | - | - | | |
| | 8 JSC | 28/07/2022 | 2.1 | | | | | | | |
| | 8 JSC | 25/10/2022 | 1.6 | | | | | | | |
| | 8 JSC | 22/12/2022 | 1.9 | | | | | | | |
| | 9 JSC | 25/04/2022 | 0.0 | - | - | - | - | - | | |
| | 9 JSC | 28/07/2022 | 0.0 | | | | | | | |
| | 9 JSC | 25/10/2022 | 0.0 | | | | | | | |
| | 9 JSC | 22/12/2022 | 0.0 | | | | | | | |
| | 10 JSC | 25/04/2022 | 1.6 | - | - | - | - | - | | |
| | 10 JSC | 28/07/2022 | 1.0 | | | | | | | |
| | 10 JSC | 25/10/2022 | 0.7 | | | | | | | |
| | 10 JSC | 22/12/2022 | 1.1 | | | | | | | |
| | 11 JSC | 25/04/2022 | 0.8 | - | - | - | - | - | | |
| | 11 JSC | 28/07/2022 | 1.4 | | | | | | | |
| | 11 JSC | 25/10/2022 | 1.0 | | | | | | | |
| | 11 JSC | 22/12/2022 | 1.0 | | | | | | | |
| | 12 JSC | 25/04/2022 | 1.8 | - | - | - | - | - | | |
| | 12 JSC | 28/07/2022 | 0.8 | | | | | | | |
| | 12 JSC | 25/10/2022 | 0.7 | | | | | | | |
| | 12 JSC | 22/12/2022 | 1.0 | | | | | | | |