



CLARENCE TOWN WASTEWATER TREATMENT WORKS - SEPTEMBER MONTHLY POLLUTION MONITORING SUMMARY

Environment Protection Licence No. 13250
 Date Obtained: 4 October 2016
 Date Published: 20 October 2016

Licensee Hunter Water Corporation
 36 Honeysuckle Drive
 NEWCASTLE WEST NSW 2302

QUALITY MONITORING

| EPA Id. No. 1 Site Code 5CT0001 | | Site Description - Discharge to utilisation area | | | | | | | | | | |
|------------------------------------|---------------------------------|--|--|--|------------|--------------|---------|------------|-------------|---------------|----------------|---------------|
| Pollutant | Unit of Measurement | Sampling Frequency | No. of times measured during the month for licence reporting | Monthly Summary 1 September 2016 to 30 September 2016 | | | | | | | | |
| | | | | Minimum | Mean Value | Median Value | Maximum | 3DGM Limit | 3DGM Actual | 100%ile Limit | 100%ile Actual | Within Limits |
| Aluminium | milligrams per litre | Yearly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| BOD | milligrams per litre | Weekly | 4 | 12 | 23 | 23 | 32 | N/A | N/A | N/A | N/A | N/A |
| Cadmium | milligrams per litre | Yearly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Chloride | milligrams per litre | Monthly | 1 | 52 | 52 | 52 | 52 | N/A | N/A | N/A | N/A | N/A |
| Chlorophyll a | milligrams per litre | Weekly | 4 | 0.0129 | 0.0249 | 0.0238 | 0.0390 | N/A | N/A | N/A | N/A | N/A |
| Chromium | milligrams per litre | Yearly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Conductivity | microsiemens per centimetre | Quarterly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Copper | milligrams per litre | Yearly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Faecal Coliforms | colony forming units per 100 mL | Monthly | 1 | 100 | 100 | 100 | 100 | N/A | N/A | N/A | N/A | N/A |
| Iron | milligrams per litre | Yearly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Lead | milligrams per litre | Yearly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Magnesium | milligrams per litre | Yearly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Manganese | milligrams per litre | Yearly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Mercury | milligrams per litre | Yearly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Nitrate | milligrams per litre | Monthly | 1 | <0.05 | <0.05 | <0.05 | <0.05 | N/A | N/A | N/A | N/A | N/A |
| Nitrogen (ammonia) | milligrams per litre | Monthly | 1 | 2.9 | 2.9 | 2.9 | 2.9 | N/A | N/A | N/A | N/A | N/A |
| Oil and Grease | milligrams per litre | Monthly | 1 | <2 | <2 | <2 | <2 | N/A | N/A | 10 | <2 | Yes |
| pH | pH | Weekly | 4 | 7.28 | 7.40 | 7.40 | 7.54 | N/A | N/A | N/A | N/A | N/A |
| Potassium | milligrams per litre | Monthly | 1 | 13.7 | 13.7 | 13.7 | 13.7 | N/A | N/A | N/A | N/A | N/A |
| Total Nitrogen | milligrams per litre | Monthly | 1 | 6.7 | 6.7 | 6.7 | 6.7 | N/A | N/A | N/A | N/A | N/A |
| Total Phosphorous | milligrams per litre | Monthly | 1 | 5.3 | 5.3 | 5.3 | 5.3 | N/A | N/A | N/A | N/A | N/A |
| Total Suspended Solids | milligrams per litre | Weekly | 4 | <1 | 19 | 22 | 32 | N/A | N/A | N/A | N/A | N/A |
| Zinc | milligrams per litre | Yearly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |

| EPA Id. No. 2 Site Code 5OV3100 | | Site Description - Overflow spillway | | | | | | | | | | |
|------------------------------------|----------------------|--------------------------------------|---|--|------------|--------------|---------|------------|-------------|---------------|----------------|---------------|
| Pollutant | Unit of Measurement | Sampling Frequency | No. of times measured during the month for licence reporting* | Monthly Summary 1 September 2016 to 30 September 2016 | | | | | | | | |
| | | | | Minimum | Mean Value | Median Value | Maximum | 3DGM Limit | 3DGM Actual | 100%ile Limit | 100%ile Actual | Within Limits |
| BOD | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Chlorophyll a | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Nitrate | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Nitrogen (ammonia) | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Oil and Grease | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | 10 | - | N/A |
| pH | pH | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Total Nitrogen | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Total Phosphorous | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Total Suspended Solids | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |

* No samples were collected as no overflow occurred during the month

| EPA Id. No. 5 Site Code 5CT0035 | | Site Description - Pumped discharge to Wallaroo Creek | | | | | | | | | | |
|------------------------------------|----------------------|---|--|--|------------|--------------|---------|------------|-------------|---------------|----------------|---------------|
| Pollutant | Unit of Measurement | Sampling Frequency | No. of times measured during the month for licence reporting** | Monthly Summary 1 September 2016 to 30 September 2016 | | | | | | | | |
| | | | | Minimum | Mean Value | Median Value | Maximum | 3DGM Limit | 3DGM Actual | 100%ile Limit | 100%ile Actual | Within Limits |
| BOD | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Chlorophyll a | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Nitrate | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Nitrogen (ammonia) | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Oil and Grease | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | 10 | - | N/A |
| pH | pH | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Total Nitrogen | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Total Phosphorous | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |
| Total Suspended Solids | milligrams per litre | Special Frequency 1 | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A |

** No samples were collected as no discharge occurred during the month