



TANILBA BAY WASTEWATER TREATMENT WORKS - APRIL MONTHLY POLLUTION MONITORING SUMMARY

Environment Protection Licence No. 4435
Date Obtained: 1 May 2017
Date Published: 18 May 2017

Licensee Hunter Water Corporation
36 Honeyuckle Drive
NEWCASTLE WEST NSW 2302

QUALITY MONITORING

| EPA Id. No. 1 Site Code SSL2900 | | Site Description - Effluent Distribution Chamber | | | | | | | | | | | |
|---------------------------------------|-----------------------------|--|--|--|------------|--------------|---------|------------|-------------|---------------|----------------|---------------|-----|
| Pollutant | Unit of Measurement | Sampling Frequency | No. of times measured during the month for licence reporting | Monthly Summary 1 April 2017 to 30 April 2017 | | | | | | | | | |
| | | | | Minimum | Mean Value | Median Value | Maximum | 3DGM Limit | 3DGM Actual | 100%ile Limit | 100%ile Actual | Within Limits | |
| Biochemical Oxygen Demand | milligrams per litre | Weekly | 4 | 2 | 3 | 3 | 5 | N/A | N/A | N/A | 5 | 5 | Yes |
| Conductivity | microsiemens per centimetre | Monthly | 1 | 708 | 708 | 708 | 708 | N/A | N/A | N/A | N/A | N/A | N/A |
| Nitrogen (ammonia) | milligrams per litre | Monthly | 1 | 0.55 | 0.55 | 0.55 | 0.55 | N/A | N/A | N/A | 5 | 0.6 | Yes |
| Nitrate + Nitrite (oxidised nitrogen) | milligrams per litre | Monthly | 1 | 9.8 | 9.8 | 9.8 | 9.8 | N/A | N/A | N/A | N/A | N/A | N/A |
| Nitrogen (total) | milligrams per litre | Monthly | 1 | 11.5 | 11.5 | 11.5 | 11.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| Oil and Grease | milligrams per litre | Fortnightly | 2 | <2 | <2 | <2 | <2 | N/A | N/A | N/A | N/A | N/A | N/A |
| Phosphorus (total) | milligrams per litre | Monthly | 1 | 7.0 | 7.0 | 7.0 | 7.0 | N/A | N/A | N/A | N/A | N/A | N/A |
| Total Suspended Solids | milligrams per litre | Weekly | 4 | <1 | 5 | 2 | 16 | N/A | N/A | N/A | 50 | 16 | Yes |
| pH | pH | Weekly | 4 | 7.19 | 7.32 | 7.35 | 7.39 | N/A | N/A | N/A | 6.50 - 8.50 | 7.19 - 7.39 | Yes |

| EPA Id. No. 3 Site Code SOV2900 | | Site Description - Emergency Overflow from Infiltration Pond | | | | | | | | | | | |
|------------------------------------|---------------------------------|--|--|--|------------|--------------|---------|------------|-------------|---------------|----------------|---------------|-----|
| Pollutant | Unit of Measurement | Sampling Frequency | No. of times measured during the month for licence reporting # | Monthly Summary 1 April 2017 to 30 April 2017 | | | | | | | | | |
| | | | | Minimum | Mean Value | Median Value | Maximum | 3DGM Limit | 3DGM Actual | 100%ile Limit | 100%ile Actual | Within Limits | |
| Biochemical Oxygen Demand | milligrams per litre | Each Overflow Event | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A | N/A |
| Faecal Coliforms | colony forming units per 100 mL | Each Overflow Event | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A | N/A |
| Oil and Grease | milligrams per litre | Each Overflow Event | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A | N/A |
| Total Suspended Solids | milligrams per litre | Each Overflow Event | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A | N/A |
| pH | pH | Each Overflow Event | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A | N/A |

No samples were collected as no overflow occurred during the month

| EPA Id. No. 17 Site Code 54Z3013 | | Site Description - Infiltration Pond 1 | | | | | | | | | | | |
|---------------------------------------|---------------------------------|--|--|--|------------|--------------|---------|------------|-------------|---------------|----------------|---------------|-----|
| Pollutant | Unit of Measurement | Sampling Frequency | No. of times measured during the month for licence reporting | Monthly Summary 1 April 2017 to 30 April 2017 | | | | | | | | | |
| | | | | Minimum | Mean Value | Median Value | Maximum | 3DGM Limit | 3DGM Actual | 100%ile Limit | 100%ile Actual | Within Limits | |
| Biochemical Oxygen Demand | milligrams per litre | Quarterly | 1 | 5 | 5 | 5 | 5 | N/A | N/A | N/A | N/A | N/A | N/A |
| Conductivity | microsiemens per centimetre | Quarterly | 1 | 537 | 537 | 537 | 537 | N/A | N/A | N/A | N/A | N/A | N/A |
| Faecal Coliforms | colony forming units per 100 mL | Quarterly | 1 | 400 | 400 | 400 | 400 | N/A | N/A | N/A | N/A | N/A | N/A |
| Nitrate + nitrite (oxidised nitrogen) | milligrams per litre | Quarterly | 1 | 3.1 | 3.1 | 3.1 | 3.1 | N/A | N/A | N/A | N/A | N/A | N/A |
| Nitrogen (ammonia) | milligrams per litre | Quarterly | 1 | 0.07 | 0.07 | 0.07 | 0.07 | N/A | N/A | N/A | N/A | N/A | N/A |
| Nitrogen (total) | milligrams per litre | Quarterly | 1 | 4.6 | 4.6 | 4.6 | 4.6 | N/A | N/A | N/A | N/A | N/A | N/A |
| pH | pH | Quarterly | 1 | 8.42 | 8.42 | 8.42 | 8.42 | N/A | N/A | N/A | N/A | N/A | N/A |
| Phosphorus (total) | milligrams per litre | Quarterly | 1 | 5.1 | 5.1 | 5.1 | 5.1 | N/A | N/A | N/A | N/A | N/A | N/A |
| Total Suspended Solids | milligrams per litre | Quarterly | 1 | 14 | 14 | 14 | 14 | N/A | N/A | N/A | N/A | N/A | N/A |

| EPA Id. No. 18 Site Code 54Z3014 | | Site Description - Infiltration Pond 2 | | | | | | | | | | | |
|---------------------------------------|---------------------------------|--|--|--|------------|--------------|---------|------------|-------------|---------------|----------------|---------------|-----|
| Pollutant | Unit of Measurement | Sampling Frequency | No. of times measured during the month for licence reporting | Monthly Summary 1 April 2017 to 30 April 2017 | | | | | | | | | |
| | | | | Minimum | Mean Value | Median Value | Maximum | 3DGM Limit | 3DGM Actual | 100%ile Limit | 100%ile Actual | Within Limits | |
| Biochemical Oxygen Demand | milligrams per litre | Quarterly | 1 | 3 | 3 | 3 | 3 | N/A | N/A | N/A | N/A | N/A | N/A |
| Conductivity | microsiemens per centimetre | Quarterly | 1 | 520 | 520 | 520 | 520 | N/A | N/A | N/A | N/A | N/A | N/A |
| Faecal Coliforms | colony forming units per 100 mL | Quarterly | 1 | 800 | 800 | 800 | 800 | N/A | N/A | N/A | N/A | N/A | N/A |
| Nitrate + nitrite (oxidised nitrogen) | milligrams per litre | Quarterly | 1 | <0.05 | <0.05 | <0.05 | <0.05 | N/A | N/A | N/A | N/A | N/A | N/A |
| Nitrogen (ammonia) | milligrams per litre | Quarterly | 1 | <0.05 | <0.05 | <0.05 | <0.05 | N/A | N/A | N/A | N/A | N/A | N/A |
| Nitrogen (total) | milligrams per litre | Quarterly | 1 | 1.6 | 1.6 | 1.6 | 1.6 | N/A | N/A | N/A | N/A | N/A | N/A |
| pH | pH | Quarterly | 1 | 8.55 | 8.55 | 8.55 | 8.55 | N/A | N/A | N/A | N/A | N/A | N/A |
| Phosphorus (total) | milligrams per litre | Quarterly | 1 | 5.5 | 5.5 | 5.5 | 5.5 | N/A | N/A | N/A | N/A | N/A | N/A |
| Total Suspended Solids | milligrams per litre | Quarterly | 1 | 24 | 24 | 24 | 24 | N/A | N/A | N/A | N/A | N/A | N/A |

| EPA Id. No. 19 Site Code 54Z3015 | | Site Description - Infiltration Pond 3 | | | | | | | | | | | |
|---------------------------------------|---------------------------------|--|--|--|------------|--------------|---------|------------|-------------|---------------|----------------|---------------|-----|
| Pollutant | Unit of Measurement | Sampling Frequency | No. of times measured during the month for licence reporting | Monthly Summary 1 April 2017 to 30 April 2017 | | | | | | | | | |
| | | | | Minimum | Mean Value | Median Value | Maximum | 3DGM Limit | 3DGM Actual | 100%ile Limit | 100%ile Actual | Within Limits | |
| Biochemical Oxygen Demand | milligrams per litre | Quarterly | 1 | 3 | 3 | 3 | 3 | N/A | N/A | N/A | N/A | N/A | N/A |
| Conductivity | microsiemens per centimetre | Quarterly | 1 | 400 | 400 | 400 | 400 | N/A | N/A | N/A | N/A | N/A | N/A |
| Faecal Coliforms | colony forming units per 100 mL | Quarterly | 1 | 66 | 66 | 66 | 66 | N/A | N/A | N/A | N/A | N/A | N/A |
| Nitrate + nitrite (oxidised nitrogen) | milligrams per litre | Quarterly | 1 | <0.05 | <0.05 | <0.05 | <0.05 | N/A | N/A | N/A | N/A | N/A | N/A |
| Nitrogen (ammonia) | milligrams per litre | Quarterly | 1 | <0.05 | <0.05 | <0.05 | <0.05 | N/A | N/A | N/A | N/A | N/A | N/A |
| Nitrogen (total) | milligrams per litre | Quarterly | 1 | 1.2 | 1.2 | 1.2 | 1.2 | N/A | N/A | N/A | N/A | N/A | N/A |
| pH | pH | Quarterly | 1 | 7.88 | 7.88 | 7.88 | 7.88 | N/A | N/A | N/A | N/A | N/A | N/A |
| Phosphorus (total) | milligrams per litre | Quarterly | 1 | 1.8 | 1.8 | 1.8 | 1.8 | N/A | N/A | N/A | N/A | N/A | N/A |
| Total Suspended Solids | milligrams per litre | Quarterly | 1 | <1 | <1 | <1 | <1 | N/A | N/A | N/A | N/A | N/A | N/A |

| EPA Id. No. 20 Site Code 54Z3016 | | Site Description - Infiltration Pond 4 | | | | | | | | | | | |
|---------------------------------------|---------------------------------|--|---|--|------------|--------------|---------|------------|-------------|---------------|----------------|---------------|-----|
| Pollutant | Unit of Measurement | Sampling Frequency | No. of times measured during the month for licence reporting* | Monthly Summary 1 April 2017 to 30 April 2017 | | | | | | | | | |
| | | | | Minimum | Mean Value | Median Value | Maximum | 3DGM Limit | 3DGM Actual | 100%ile Limit | 100%ile Actual | Within Limits | |
| Biochemical Oxygen Demand | milligrams per litre | Quarterly | - | - | - | - | - | N/A | 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 | N/A |
| Faecal Coliforms | colony forming units per 100 mL | Quarterly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A | N/A |
| Nitrate + nitrite (oxidised nitrogen) | milligrams per litre | Quarterly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A | N/A |
| Nitrogen (ammonia) | milligrams per litre | Quarterly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A | N/A |
| Nitrogen (total) | milligrams per litre | Quarterly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A | N/A |
| pH | pH | Quarterly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A | N/A |
| Phosphorus (total) | milligrams per litre | Quarterly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A | N/A |
| Total Suspended Solids | milligrams per litre | Quarterly | - | - | - | - | - | N/A | N/A | N/A | N/A | N/A | N/A |

* Sample not collected as the pond was dry.