

Trinity Point Marina - Water Quality Monitoring



Month:

May-20

| Date (Hand held insitu measurements) | Location and time | Temperature (c) | PH | Turbidity (NTU) | DO (%) - 1m depth |
|---|---|-----------------|---------|-----------------|-------------------|
| Relevant trigger values ^b | | | 6.5-8.5 | 20 | 80-110 |
| 6.5.20 | A (1) - 10:24 | 19.0 | 8.10 | <1 | 91.4 |
| | C (3) - 10:27 | 18.9 | 8.11 | 1.22 | 86.5 |
| | D (4) - 10:30 | 18.9 | 8.10 | 1.78 | 85.8 |
| | B (2) - 10:33 | 19.2 | 8.13 | 1.12 | 89.3 |
| Weekly comments | Blue sky, no wind - following rain event day before | | | | |
| Name of sample collector | | A.Chapman | | | |

| | | | | | |
|--------------------------|-------------------|-----------|------|------|------|
| 12.5.20 | A (1) - 9:20 | 18.4 | 8.13 | 1.7 | 84.6 |
| | C (3) - 9:24 | 18.3 | 8.15 | 1.68 | 82.7 |
| | D (4) - 9:28 | 18.7 | 8.08 | 1.98 | 82.2 |
| | B (2) - 9:31 | 18.9 | 8.12 | 1.59 | 81.3 |
| Weekly comments | Blue sky and calm | | | | |
| Name of sample collector | | A.Chapman | | | |

| | | | | | |
|--------------------------|---------------------------------------|--------------------------------|------|-----|------|
| 19.5.20 | A (1) - 9:03 | 18.4 | 6.75 | 1.6 | 8.6 |
| | C (3) - 9:09 | 18.4 | 6.72 | <1 | 78.4 |
| | D (4) - 9:13 | 18.8 | 6.73 | <1 | 73.9 |
| | B (2) - 9:16 | 19.2 | 6.72 | <1 | 73.2 |
| Weekly comments | Blue sky, calm - following rain event | | | | |
| Name of sample collector | | A.Chapman + RCA representative | | | |

| | | | | | |
|--------------------------|---|-------|------|------|------|
| 27.5.20 | A (1) - 10:23 | 17 | 8.11 | 1.72 | 81.6 |
| | C (3) - 10:26 | 16.9 | 8.09 | 1.71 | 90.8 |
| | D (4) - 10:31 | 17.4 | 8.09 | 1.32 | 86.6 |
| | B (2) - 10:38 | 17.6 | 8.09 | 1.25 | 87.2 |
| Weekly comments | Overcast, heavy rain during last few days | | | | |
| Name of sample collector | | G.Day | | | |

| | | | | | |
|--------------------------|---------|--|--|--|--|
| | A (1) - | | | | |
| | C (3) - | | | | |
| | D (4) - | | | | |
| | B (2) - | | | | |
| Weekly comments | | | | | |
| Name of sample collector | | | | | |

| | | | | |
|-------------------------|-------------|-------------|--------------|-------------|
| Monthly Maximums | 19.2 | 8.11 | 1.98 | 91.4 |
| Monthly Minimums | 16.9 | 6.72 | <1 | 73.2 |

| Other | Date | Time | Location E (5) | Location F (6) |
|----------------------------------|-----------------------------|-------|----------------|----------------|
| Oil and grease visual inspection | 5.5.20 | 16:00 | None | None |
| Comments | No hydrocarbon leak evident | | | |
| Name of inspector | | G.Day | | |

| Notes |
|---|
| Results shaded in grey exceed relevant trigger values |
| ^a Results suspected to be erroneous; possibly affected by faulty sensor or poor calibration not identified |
| ^b sourced from section L2.4 of the EPL issued to JPG and/or Tables 3.3.2 and 3.3.3 of the ANZECC guidelines |
| ^c Reference data typically refers to site specific data collected over long periods that can be used to establish appropriate trigger values |
| ^w represents a wet weather monitoring event |

Weekly monitoring testing for duration of EPA licence 20631

Monthly

Trinity Point Marina - Water Quality Monitoring



Month:

May-20

| NATA Laboratory testing | Date | Inside Marina location A (1) | Background location C (3) in Bardens Bay | Trigger Values ^a |
|--------------------------------------|---------------------|------------------------------|--|-----------------------------|
| Total suspended solids (mg/L) | 19.5.20 | <5 | <5 | 10 ^b |
| Ammonia as N (mg/L) | 19.5.20 | <0.10 | 0.09 | - |
| Total Nitrogen as N (mg/L) | 19.5.20 | 0.315 | 0.313 | 0.3 |
| Total Phosphorus as P (mg/L) | 19.5.20 | 0.003 | 0.002 | 0.03 |
| TPH (C6-C36) (µg/L) | 19.5.20 | <50 | <50 | - |
| PAHs (µg/L) | 19.5.20 | <1.0 | <1.0 | - |
| Thermotolerant coliforms (cfu/100mL) | 19.5.20 | 1 | <1 | - |
| BTEX (Benzene) (µg/L) | 19.5.20 | <1 | <1 | - |
| BTEX (Toluene) (µg/L) | 19.5.20 | <2 | <2 | - |
| BTEX (Ethylbenzene) (µg/L) | 19.5.20 | <2 | <2 | - |
| BTEX (Total Xylenes) (µg/L) | 19.5.20 | <2 | <2 | - |
| Dissolved metals (Cadmium) (mg/L) | 19.5.20 | <0.0002 | <0.0002 | 0.0055 ^d |
| Dissolved metals (Cromium) (mg/L) | 19.5.20 | <0.0005 | <0.0005 | 0.0044 ^e |
| Dissolved metals (Copper) (mg/L) | 19.5.20 | 0.002 | 0.002 | 0.0013 |
| Dissolved metals (Tin) (mg/L) | 19.5.20 | <0.005 | <0.005 | - |
| Dissolved metals (Zinc) (mg/L) | 19.5.20 | <0.005 | <0.005 | 0.015 ^d |
| | | | | |
| | | | | |
| Comments | RCA ref 14302-715/0 | | | |
| Name of sample collector | L. Schofield | | | |

10 times per year until March 2021 (2014 CEMP)

| Notes |
|---|
| Shaded results indicate exceedence of 95% ANZECC trigger value(s) and/or value is 20% greater than that of background sites |
| Dashes (-) indicate applicable data is not provided in ANZECC guidelines (2000) |
| ^a Values sourced from table 3.3.2 of ANZECC guidelines (2000) unless otherwise stated; only 95% trigger values are represented |
| ^b Sourced from table 4.4.2 of ANZECC guidelines (2000) |
| ^c Species for which possible bioaccumulation and secondary poisoning effects should be considered |
| ^d Figure may not protect key test species from chronic toxicity |
| ^e Value given specifically for Cr(IV) |
| ^f Analyte corresponds to "Total Phosphorus" referred to in ANZECC guidelines (2000) |
| ^g Elevated measurement is unlikely to be related to construction activities |
| ^w represents a wet weather monitoring event |