

# Trinity Point Marina - Water Quality Monitoring



Month:

Nov-22

Date (Hand held insitu measurements)	Location and time	Temperature (c)	PH	Turbidity (NTU)	DO (%) - 1m depth
Relevant trigger values <sup>b</sup>			6.5-8.5	20	80-110
4/11/2022	A (1) - 0924	21.1	8.12	1.51	65.9 <sup>a</sup>
	C (3) - 0930	21.2	8.02	2.82	72 <sup>a</sup>
	D (4) - 0935	21.2	8	2.8	69.5 <sup>a</sup>
	B (2) - 0938	21.3	8.03	1.14	71.3 <sup>a</sup>
Weekly comments	Weather; Overcast with no breeze				
Name of sample collector	S. Luker & S.Diamond				

11/11/2022	A (1) - 1000	24.2	8.09	1.89	72.3 <sup>a</sup>
	C (3) - 1005	24	8.07	<1	75.6 <sup>a</sup>
	D (4) - 1010	24	8.02	<1	76 <sup>a</sup>
	B (2) - 1015	24.1	8.05	1.19	76.2 <sup>a</sup>
Weekly comments	Weather; Sunny with Westerly breeze				
Name of sample collector	S.Diamond				

18/11/2022	A (1) - 0914	21.02	7.91	2.3	97.1
	C (3) - 0926	21.06	8.01	7.5	90.1
	D (4) - 0938	22.69	8.05	7.9	96.1
	B (2) - 0932	22.2	8	3	95
Weekly comments	Weather; fine				
Name of sample collector	G. Day + RCA representative - S. King				

28/11/2022	A (1) - 0923	22.2	8.08	1.66	80.5 <sup>a</sup>
	C (3) - 0930	22.2	8.07	2.44	74.3 <sup>a</sup>
	D (4) - 0935	22.1	8.06	1.99	72.5 <sup>a</sup>
	B (2) - 0940	22.2	8.06	1.76	70.8 <sup>a</sup>
Weekly comments	Weather; Strong Westerly - (DO equipment sent for calibration post testing)				
Name of sample collector					

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

Monthly Maximums	24.2	8.12	7.9	97.1
Monthly Minimums	21.0	7.91	<1	65.9 <sup>a</sup>

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	18/11/2022	0910	Nil	Nil
Comments	No visible signs			
Name of inspector	Garry Day			

<b>Notes</b>
Results shaded in grey exceed relevant trigger values
<sup>a</sup> Results suspected to be erroneous; possibly affected by faulty sensor or poor calibration not identified
<sup>b</sup> 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
<sup>c</sup> Reference data typically refers to site specific data collected over long periods that can be used to establish appropriate trigger values for
<sup>w</sup> represents a wet weather monitoring event

Weekly monitoring testing for duration of EPA licence 20631

Monthly

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Month:

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NATA Laboratory testing	Date	Inside Marina location A (1)	Background location C (3) in Bardens Bay	Trigger Values <sup>a</sup>
Total suspended solids (mg/L)	18/11/2022	<5	<5	10b
Ammonia as N (mg/L)	18/11/2022	<0.005	<0.005	-
Total Nitrogen as N (mg/L)	18/11/2022	0.204	0.203	0.3
Total Phosphorus as P (mg/L)	18/11/2022	0.003	0.004	0.03
TPH (C6-C36) (µg/L)	18/11/2022	<50	<50	-
PAHs (µg/L)	18/11/2022	<0.5	<0.5	-
Thermotolerant coliforms (cfu/100mL)	18/11/2022	<1	<1	-
BTEX (Benzene) (µg/L)	18/11/2022	<1	<1	-
BTEX (Toluene) (µg/L)	18/11/2022	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	18/11/2022	<2	<2	-
BTEX (Total Xylenes) (µg/L)	18/11/2022	<1	<1	-
Dissolved metals (Cadmium) (mg/L)	18/11/2022	<0.0002	<0.0002	0.0055d
Dissolved metals (Cromium) (mg/L)	18/11/2022	<0.0005	<0.0005	0.0044e
Dissolved metals (Copper) (mg/L)	18/11/2022	1	1	0.0013
Dissolved metals (Tin) (mg/L)	18/11/2022	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	18/11/2022	0.025	0.026	0.015d
Comments	RCA ref 14302-746/0			
Name of sample collector	S. King			

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)

<sup>a</sup>Values sourced from table 3.3.2 of ANZECC guidelines (2000) unless otherwise stated; only 95% trigger values are represented

<sup>b</sup>Sourced from table 4.4.2 of ANZECC guidelines (2000)

<sup>c</sup>Species for which possible bioaccumulation and secondary poisoning effects should be considered

<sup>d</sup>Figure may not protect key test species from chronic toxicity

<sup>e</sup>Value given specifically for Cr(IV)

<sup>f</sup>Analyte corresponds to "Total Phosphorus" referred to in ANZECC guidelines (2000)

<sup>g</sup>Elevated measurement is unlikely to be related to construction activities

<sup>w</sup>represents a wet weather monitoring event