

# Trinity Point Marina - Water Quality Monitoring



Month:

Dec-23

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
6/12/2023	A (1) - 0745	26.7	8.07	4.95	97.1
	C (3) - 0800	27	8.07	4.05	96.2
	D (4) - 0815	27.7	8.07	3.5	98.3
	B (2) - 0830	28.5	8.03	5.22	93.3
Weekly comments	Weather; Windy NE				
Name of sample collector		S. Diamond			

13/12/2023	A (1) - 0909	29.2	8.07	2.94	94.9
	C (3) - 0924	29.2	8.09	1.76	99
	D (4) - 0915	29.2	8.11	2.64	97
	B (2) - 0918	29.2	8.1	3.26	93.8
Weekly comments	Weather; Light NE wind				
Name of sample collector		S. Diamond			

22/12/2023	A (1) - 0940	26.3	8.12	4.09	93.23
	C (3) - 0945	26.4	8.11	4.72	94.8
	D (4) - 0952	26.4	8.11	4.66	98.1
	B (2) - 0958	26.4	8.13	3.73	94.1
Weekly comments	Weather; Light South wind				
Name of sample collector		S. Diamond			

29/12/2023	A (1) - 1020	28.4	8.04	3.73	83.4
	C (3) - 1025	28.3	8.09	1.45	96.7
	D (4) - 1030	28.5	8.1	1.57	96.4
	B (2) - 1035	28.7	8.08	2.1	92.2
Weekly comments	Weather; Sunny with no breeze				
Name of sample collector		S. Diamond			

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

Monthly Maximums	29.2	8.13	5.22	99
Monthly Minimums	26.7	8.03	1.45	93.4

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	29/12/2023	1015	Nil	Nil
Comments	No visible signs			
Name of inspector		S. Diamond		

<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:

Dec-23

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)				
Ammonia as N (mg/L)				
Total Nitrogen as N (mg/L)				
Total Phosphorus as P (mg/L)				
TPH (C6-C36) (µg/L)				
PAHs (µg/L)				
Thermotolerant coliforms (cfu/100mL)				
BTEX (Benzene) (µg/L)				
BTEX (Toluene) (µg/L)				
BTEX (Ethylbenzene) (µg/L)				
BTEX (Total Xylenes) (µg/L)				
Dissolved metals (Cadmium) (mg/L)				
Dissolved metals (Cromium) (mg/L)				
Dissolved metals (Copper) (mg/L)				
Dissolved metals (Tin) (mg/L)				
Dissolved metals (Zinc) (mg/L)				
Comments	Not completed for December - see November testing			
Name of sample collector				

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>a</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