

Trinity Point Marina - Water Quality Monitoring



Month:

Aug-23

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
2/08/2023	A (1) - 1000	17.7	8.14	1.64	100.3
	C (3) - 1005	17.9	8.14	1.75	101.6
	D (4) - 1011	18.1	8.14	1.95	90.5
	B (2) - 1015	18.2	8.14	1.69	101
Weekly comments	Weather; Westerly breeze				
Name of sample collector		S.Diamond			

9/08/2023	A (1) - 1130	19	8.09	1.86	94.7
	C (3) - 1135	18.8	8.11	2.43	97.6
	D (4) - 1140	19.6	8.12	2	101.4
	B (2) - 1145	20	8.12	2.24	101
Weekly comments	Weather; Sunny with no breeze				
Name of sample collector		S.Diamond			

16/08/2023	A (1) - 0948	18.2	8.07	3.19	99.2
	C (3) - 0952	18.3	8.05	2.56	101.1
	D (4) - 0957	18.3	8.07	2.41	99.3
	B (2) - 1000	18.5	8.08	2.54	99.7
Weekly comments	Weather; Sunny with no breeze				
Name of sample collector		S.Diamond			

30/08/2023	A (1) - 1058	20.3	8.09	1.7	104.1
	C (3) - 1101	21.4	8.13	2.54	101.9
	D (4) - 1103	21.5	8.14	2.14	100.6
	B (2) - 1107	21.4	8.02	2.36	96.8
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	21.5	8.14	3.19	104.1
Monthly Minimums	17.7	8.02	1.64	90.5

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	30/08/2023	1125	Nil	Nil
Comments	No visible signs			
Name of inspector		S.Diamond		

Notes

Results shaded in grey exceed relevant trigger values

^aResults suspected to be erroneous; possibly affected by faulty sensor or poor calibration not identified

^bsourced from section L2.4 of the EPL issued to JPG and/or Tables 3.3.2 and 3.3.3 of the ANZECC guidelines

^cReference data typically refers to site specific data collected over long periods that can be used to establish appropriate trigger values

^wrepresents 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 ^a
Total suspended solids (mg/L)	22/08/2023	6	9	10b
Ammonia as N (mg/L)	22/08/2023	<0.10	<0.10	-
Total Nitrogen as N (mg/L)	22/08/2023	0.154	0.16	0.3
Total Phosphorus as P (mg/L)	22/08/2023	0.003	0.002	0.03
TPH (C6-C36) (µg/L)	22/08/2023	<100	<100	-
PAHs (µg/L)	22/08/2023	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	22/08/2023	6	2	-
BTEX (Benzene) (µg/L)	22/08/2023	<1	<1	-
BTEX (Toluene) (µg/L)	22/08/2023	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	22/08/2023	<2	<2	-
BTEX (Total Xylenes) (µg/L)	22/08/2023	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	22/08/2023	<0.0002	<0.0002	0.0055d
Dissolved metals (Cromium) (mg/L)	22/08/2023	<0.0005	<0.0005	0.0044e
Dissolved metals (Copper) (mg/L)	22/08/2023	0.002	0.001	0.0013
Dissolved metals (Tin) (mg/L)	22/08/2023	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	22/08/2023	0.015	0.015	0.015d
Comments	RCA ref 14302-754/0			
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)
^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