

Trinity Point Marina - Water Quality Monitoring



Month:

Dec-21

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
2.12.21	A (1) - 1243	26.7	8.36	2.28	112.8
	C (3) - 1247	27.4	8.3	2.02	113
	D (4) - 1250	27.6	8.31	2.39	114.2
	B (2) - 1254	28.3	8.3	2.28	113.5
Weekly comments	Weather - fine after heavy rain event				
Name of sample collector		G. Day			

10.12.21	A (1) - 1430	24.1	8.25	3.25	96.2
	C (3) - 1436	24.5	8.24	1.34	104.5
	D (4) - 1441	24.2	8.22	1.19	103.8
	B (2) - 1444	24.3	8.22	1.96	105.6
Weekly comments	Weather - hot with no wind				
Name of sample collector		G. Day & C. Brown			

14.12.21	A (1) - 1027	24.4	8.2	2.47	92
	C (3) - 1032	25.1	8.24	2.87	96.4
	D (4) - 1038	25.1	8.27	1.82	96.9
	B (2) - 1041	25.2	8.23	1.83	100.1
Weekly comments	Weather - hot and sunny				
Name of sample collector		G. Day & S. Luker			

20.12.21	A (1) - 1545	28.6	8.05	5.1	101.5
	C (3) - 1552	28.3	8	1.2	91.3
	D (4) - 1556	28.2	8.02	1.3	97.4
	B (2) - 1559	29	8.03	1.5	96.9
Weekly comments	Weather - hot and sunny				
Name of sample collector		G. Day & S. King			

29.12.21	A (1) - 1334	26.1	8.26	3.95	97.4
	C (3) - 1338	26	8.3	4.53	106.3
	D (4) - 1343	26.2	8.27	5.27	108.3
	B (2) - 1346	26.3	8.27	3.97	108.5
Weekly comments	Weather - fine and sunny				
Name of sample collector		G. Day			

Monthly Maximums	29.0	8.36	5.1	114.2
Monthly Minimums	24.1	8.0	1.19	91.3

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	20.12.21	1540	Nil	Nil
Comments	No visible signs			
Name of inspector		G. Day		

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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NATA Laboratory testing	Date	Inside Marina location A (1)	Background location C (3) in Bardens Bay	Trigger Values ^a
Total suspended solids (mg/L)	18.12.21	6	9	10b
Ammonia as N (mg/L)	18.12.21	<0.005	<0.005	-
Total Nitrogen as N (mg/L)	18.12.21	0.26	0.277	0.3
Total Phosphorus as P (mg/L)	18.12.21	0.003	0.002	0.03
TPH (C6-C36) (µg/L)	18.12.21	<50	<50	-
PAHs (µg/L)	18.12.21	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	18.12.21	4	2	-
BTEX (Benzene) (µg/L)	18.12.21	<1	<1	-
BTEX (Toluene) (µg/L)	18.12.21	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	18.12.21	<2	<2	-
BTEX (Total Xylenes) (µg/L)	18.12.21	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	18.12.21	<0.0002	<0.0002	0.0055d
Dissolved metals (Cromium) (mg/L)	18.12.21	0.0006	<0.0005	0.0044e
Dissolved metals (Copper) (mg/L)	18.12.21	0.002	0.002	0.0013
Dissolved metals (Tin) (mg/L)	18.12.21	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	18.12.21	<0.005	<0.005	0.015d
Comments	RCA ref 14302-735/0			
Name of sample collector	S King			

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
^a 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

10 times per year until March 2021 (2014 CEMP)