Trinity Point Marina - Water Quality Monitoring

Month: Jan-22

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
6.1.22	A (1) - 1355	27.8	8.25	3.1	100.8
	C (3) - 1400	27.6	8.25	2.64	100.3
	D (4) - 1405	27.2	8.21	3.8	101.6
	B (2) - 1410	27.2	8.27	4.27	98.3
Weekly comments	Weather; very windy				
Name of sample collector	S. Diamond & C. Brown				
12.1.22	A (1) - 1000	28	8.2	1.9	83.5
	C (3) - 1005	28.2	8.28	1.03	92
	D (4) - 1010	28.9	8.28	2.07	92.9
	B (2) - 1015	29	8.29	2.47	90.3
Weekly comments	Weather; sunny with no breeze				
Name of sample collector	S. Diamond & K. Johnson				
21.1.22	A (1) - 0922	25.3	7.98	8.9	104
	C (3) - 0929	25.3	8.01	7.1	104.2
	D (4) - 0932	25.3	8	10	103.9
	B (2) - 0938	25.4	8.02	6.4	96.4
Weekly comments	Weather; overcast				
Name of sample collector	S. King & K. Johnson				
26.1.22	A (1) - 0934	26.1	8.14	4.2	97.8
	C (3) - 0937	25.8	8.23	2.62	101.4
	D (4) - 0944	25.7	8.09	3.14	98.7
	B (2) - 0950	25.9	8.1	3	99.2
Weekly comments	Weather; fine				
Name of sample collector	S. Diamond				
31.1.22	A (1) - 1435	31	8.24	2.2	91.3
	C (3) - 1440	30.8	8.26	2.95	94
	D (4) - 1445	31	8.25	2.64	95
	B (2) - 1450	30.4	8.26	2.20	94.7
Weekly comments	Weather; fine & sunny				
Name of sample collector	S. Diamond				
Monthly Maximums		**31.0**	**8.29**	**8.9**	**104.2**
Monthly Minimums		**25.3**	**7.98**	**1.03**	**83.5**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	31.1.22	1430	Nil	Nil
Comments	No visable signs			
Name of inspector	S. Diamond			

Monthly

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

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Month: Jan-22

NATA Laboratory testing	Date	Inside Marina location A (1)	Background location C (3) in Bardens Bay	Trigger Values[a]
Total suspended solids (mg/L)	21.1.22	6	10	10b
Ammonia as N (mg/L)	21.1.22	0.12	0.13	-
Total Nitrogen as N (mg/L)	21.1.22	0.218	0.203	0.3
Total Phosphorus as P (mg/L)	21.1.22	0.005	0.005	0.03
TPH (C6-C36) (µg/L)	21.1.22	<50	<50	-
PAHs (µg/L)	21.1.22	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	21.1.22	24	29	-
BTEX (Benzene) (µg/L)	21.1.22	<1	<1	-
BTEX (Toluene) (µg/L)	21.1.22	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	21.1.22	<2	<2	-
BTEX (Total Xylenes) (µg/L)	21.1.22	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	21.1.22	<0.0002	<0.0002	0.0055d
Dissolved metals (Cromium) (mg/L)	21.1.22	0.0006	<0.0005	0.0044e
Dissolved metals (Copper) (mg/L)	21.1.22	0.002	0.001	0.0013
Dissolved metals (Tin) (mg/L)	21.1.22	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	21.1.22	<0.005	<0.005	0.015d
Comments	RCA ref 14302-736/0			
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

[a]Value given specifically for Cr(IV)

[f]Analyte corresponds tp "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