Trinity Point Marina - Water Quality Monitoring

Month: Oct-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
5.10.21	A (1) - 1025	18.7	7.2	7.4	84.6
	C (3) - 1029	19.2	7.9	6.9	87.1
	D (4) - 1032	18	8.1	6.8	87.2
	B (2) - 1037	19.3	7.4	6.8	85.3
Weekly comments	Weather; Overcast				
Name of sample collector	G.Day				
14.10.21	A (1) - 0927	19.8	7.9	6.1	82.2
	C (3) - 0932	20.1	7.88	4.5	88
	D (4) - 0939	20.2	7.88	4.1	84
	B (2) - 0944	20.1	7.8	6.4	81.1
Weekly comments	Weather; Light NW wind, fine				
Name of sample collector	G Day + RCA representitive - S King				
19.10.21	A (1) - 0930	18.7	7.9	6.6	88.8
	C (3) - 0934	19.2	8.2	4.5	86.1
	D (4) - 0939	20.3	7.8	6.2	87.4
	B (2) - 0942	19.8	7.9	5.9	89.2
Weekly comments	Weather; sunny, light clouds				
Name of sample collector	G.Day				
26.10.21	A (1) - 1423	24.3	8.26	3.3	113.1
	C (3) - 1428	23.8	8.2	2.51	106.9
	D (4) - 1433	23.8	8.19	1.09	106.7
	B (2) - 1439	24.1	8.19	2.17	105.8
Weekly comments	Weather; sunny				
Name of sample collector	G.Day				
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					
Monthly Maximums		**24.3**	**8.26**	**7.4**	**113.1**
Monthly Minimums		**18.7**	**7.2**	**1.09**	**81.1**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	26.10.21	1450	Nil	Nil
Comments	No visable signs			
Name of inspector	G.Day			

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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NATA Laboratory testing	Date	Inside Marina location A (1)	Background location C (3) in Bardens Bay	Trigger Values[a]
Total suspended solids (mg/L)	14.10.21	<5	<5	10b
Ammonia as N (mg/L)	14.10.21	<0.01	<0.01	-
Total Nitrogen as N (mg/L)	14.10.21	0.17	0.178	0.3
Total Phosphorus as P (mg/L)	14.10.21	<0.001	<0.001	0.03
TPH (C6-C36) (µg/L)	14.10.21	<50	<50	-
PAHs (µg/L)	14.10.21	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	14.10.21	6	4	-
BTEX (Benzene) (µg/L)	14.10.21	<1	<1	-
BTEX (Toluene) (µg/L)	14.10.21	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	14.10.21	<2	<2	-
BTEX (Total Xylenes) (µg/L)	14.10.21	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	14.10.21	<0.0002	<0.0002	0.0055d
Dissolved metals (Cromium) (mg/L)	14.10.21	<0.0005	<0.0005	0.0044e
Dissolved metals (Copper) (mg/L)	14.10.21	0.002	0.002	0.0013
Dissolved metals (Tin) (mg/L)	14.10.21	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	14.10.21	<0.005	<0.005	0.015d
Comments	RCA ref 14302-733/0			
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