Trinity Point Marina - Water Quality Monitoring

Month: Jul-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
2.7.21	A (1) - 0929	16.4	8.16	1.87	119.9[a]
	C (3) - 0940	16.2	8.15	1.69	124.5[a]
	D (4) - 0945	16.2	8.09	1.16	118.6[a]
	B (2) - 0950	16.4	8.11	1.11	114.9[a]
Weekly comments	Weather; Overcast slight breeze from west				
Name of sample collector	S. Diamond				
16.7.21	A (1) - 1157	16.1	8.22	2.9	112.1
	C (3) - 1201	16.1	8.14	2.5	99.4
	D (4) - 1204	16.1	8.17	2.88	96.8
	B (2) - 1210	16.2	8.14	4.29	91.6
Weekly comments	Weather; Clear sky, 15 knot westerly wind				
Name of sample collector	G. Day & J. Thomson				
22.7.21	A (1) - 0922	14.4	7.88	7.1	92.3
	C (3) - 0930	14.5	7.95	8.3	91.2
	D (4) - 0934	15	7.9	9	91.8
	B (2) - 0940	15.2	7.95	11.8	92
Weekly comments	Weather; Fine				
Name of sample collector	G Day + RCA representitive - S King				
26.7.21	A (1) - 1005	14.8	8.17	1.99	101
	C (3) - 1022	14.9	7.74	2.81	86.4
	D (4) - 1028	14.8	7.89	3.24	86.8
	B (2) - 1032	14.9	7.95	2.33	92.4
Weekly comments					
Name of sample collector					
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					
Monthly Maximums		**16.4**	**8.22**	**11.8**	**124.5[a]**
Monthly Minimums		**14.4**	**7.74**	**1.11**	**86.4**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	6.7.21	910	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)	22.7.21	<5	<5	10b
Ammonia as N (mg/L)	22.7.21	<0.02	<0.02	-
Total Nitrogen as N (mg/L)	22.7.21	0.147	0.169	0.3
Total Phosphorus as P (mg/L)	22.7.21	0.006	0.005	0.03
TPH (C6-C36) (µg/L)	22.7.21	<50	<50	-
PAHs (µg/L)	22.7.21	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	22.7.21	2	5	-
BTEX (Benzene) (µg/L)	22.7.21	<1	<1	-
BTEX (Toluene) (µg/L)	22.7.21	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	22.7.21	<2	<2	-
BTEX (Total Xylenes) (µg/L)	22.7.21	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	22.7.21	<0.0002	<0.0002	0.0055d
Dissolved metals (Cromium) (mg/L)	22.7.21	<0.0005	<0.0005	0.0044e
Dissolved metals (Copper) (mg/L)	22.7.21	0.002	0.002	0.0013
Dissolved metals (Tin) (mg/L)	22.7.21	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	22.7.21	0.007	<0.005	0.015d
Comments	RCA ref 14302-730/0			
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