Trinity Point Marina - Water Quality Monitoring

Month: Mar-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
10/03/2022	A (1) - 0939	24.8	7.72	<1	62.2[a]
	C (3) - 0950	24.5	7.94	<1	66.6[a]
	D (4) - 0954	24.7	8.01	<1	67.4[a]
	B (2) - 0957	24.6	7.85	1.45	66.0[a]
Weekly comments	After rain event / brown water				
Name of sample collector	S. Luker & K. Johnson				
16/03/2022	A (1) - 0935	25.6	8.28	1.55	104
	C (3) - 0941	25.2	8.2	1.21	99.5
	D (4) - 0945	25.3	8.31	1.33	99.9
	B (2) - 0948	26	8.09	1.34	93.1
Weekly comments	weather; sunny with no breeze				
Name of sample collector	S. Diamond & K. Johnson				
23/03/2022	A (1) - 0859	24.8	7.9	9.6	87.6
	C (3) - 0905	24.9	8	8	87.3
	D (4) - 0908	24.9	8.03	6.8	92.3
	B (2) - 0913	24.9	8	4	91.9
Weekly comments	weather; sunny with slight breeze				
Name of sample collector	K. Johnson + RCA representitive - S King				
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					
Monthly Maximums		**26.0**	**8.31**	**9.6**	**104**
Monthly Minimums		**24.5**	**7.72**	**<1**	**62.2[a]**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	23/03/2022	920	Nil	Nil
Comments	No visible signs			
Name of inspector	K. Johnson + S King			

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)	23/03/2022	<5	<5	10b
Ammonia as N (mg/L)	23/03/2022	<0.005	<0.05	-
Total Nitrogen as N (mg/L)	23/03/2022	0.375	0.327	0.3
Total Phosphorus as P (mg/L)	23/03/2022	<0.001	<0.001	0.03
TPH (C6-C36) (µg/L)	23/03/2022	<50	<50	-
PAHs (µg/L)	23/03/2022	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	23/03/2022	15	5	-
BTEX (Benzene) (µg/L)	23/03/2022	<1	<1	-
BTEX (Toluene) (µg/L)	23/03/2022	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	23/03/2022	<2	<2	-
BTEX (Total Xylenes) (µg/L)	23/03/2022	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	23/03/2022	<0.0002	<0.0002	0.0055d
Dissolved metals (Cromium) (mg/L)	23/03/2022	<0.0005	<0.0005	0.0044e
Dissolved metals (Copper) (mg/L)	23/03/2022	0.01	0.005	0.0013
Dissolved metals (Tin) (mg/L)	23/03/2022	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	23/03/2022	0.024	0.02	0.015d
Comments	RCA ref 14302-738/0			
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