Trinity Point Marina - Water Quality Monitoring

Month: Apr-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
5/04/2022	A (1) - 1330	23.3	8.21	1.62	93.7
	C (3) - 1334	22.9	8.21	1.14	93.9
	D (4) - 1338	22.9	8.2	1.41	93.4
	B (2) - 1348	23.1	8.2	1.14	91.5
Weekly comments	Weather; sunny day				
Name of sample collector	G.Day				
13/04/2022	A (1) - 1038	22.9	7.62	1.89	92.6
	C (3) - 1044	22.9	7.55	2.46	94.6
	D (4) - 1045	22.8	8.03	<1	95.4
	B (2) - 1051	22.9	7.84	1.85	95.9
Weekly comments	Weather; rain in morning turning sunny				
Name of sample collector	S. Luker & K. Johnson				
20/04/2022	A (1) - 0926	22.95	7.85	17.8	89.4
	C (3) - 0931	22.77	7.9	17.3	98.4
	D (4) - 0936	23.06	7.99	13.2	96.7
	B (2) - 0939	23.02	8	15	98.3
Weekly comments	Weather; sunny, light wind - after rain event				
Name of sample collector	S. Luker & S. King				
27/04/2022	A (1) - 1030	20.1	7.92	1.52	75.4
	C (3) - 1035	20.4	7.91	1.55	72.5
	D (4) - 1040	21.86	7.63	1.4	75.4
	B (2) - 1045	21.13	7.75	1.3	75.3
Weekly comments	Weather; sunny day				
Name of sample collector	K. Johnson				
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					
Monthly Maximums		**23.3**	**8.21**	**17.8**	**98.4**
Monthly Minimums		**20.1**	**7.55**	**<1**	**72.5**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	27/04/2022	1015	Nil	Nil
Comments	No visable signs			
Name of inspector	K. Johnson			

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: Apr-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)	20/04/2022	**24**	**23**	10b
Ammonia as N (mg/L)	20/04/2022	<0.02	0.13	-
Total Nitrogen as N (mg/L)	20/04/2022	0.273	0.267	0.3
Total Phosphorus as P (mg/L)	20/04/2022	0.003	0.004	0.03
TPH (C6-C36) (µg/L)	20/04/2022	<50	<50	-
PAHs (µg/L)	20/04/2022	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	20/04/2022	~960	680	-
BTEX (Benzene) (µg/L)	20/04/2022	<1	<1	-
BTEX (Toluene) (µg/L)	20/04/2022	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	20/04/2022	<2	<2	-
BTEX (Total Xylenes) (µg/L)	20/04/2022	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	20/04/2022	<0.0002	<0.0002	0.0055d
Dissolved metals (Cromium) (mg/L)	20/04/2022	<0.0005	<0.0005	0.0044e
Dissolved metals (Copper) (mg/L)	20/04/2022	0.003	0.002	0.0013
Dissolved metals (Tin) (mg/L)	20/04/2022	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	20/04/2022	0.048	0.017	0.015d
Comments	RCA ref 14302-739/0			
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