Trinity Point Marina - Water Quality Monitoring

Month: Jan-23

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
16/01/2023	A (1) - 1205	25.5	8.28	3.94	89.8
	C (3) - 1216	25.3	8.18	5.57	84.3
	D (4) - 1222	25.4	8.21	4.27	86.5
	B (2) - 1303	25.3	8.19	3.99	88.7
Weekly comments	Weather; Sunny with fresh southerly				
Name of sample collector	G. day				
12/01/2023	A (1) - 0920	26.8	7.91	4.4	86.2
	C (3) - 0925	26.9	7.89	4.3	94.9
	D (4) - 0930	26.6	7.89	5.2	95.6
	B (2) - 0935	26.8	7.89	3.9	95.4
Weekly comments	Weather; Fine, light breeze				
Name of sample collector	G. Day + RCA representitive - S. King				
20/01/2023	A (1) - 1024	26.4	8.21	4.75	73.9
	C (3) - 1029	26.2	8.24	6.9	71.5
	D (4) - 1034	26.4	8.22	6.64	71.4
	B (2) - 1039	26.3	8.14	5.93	76.4
Weekly comments	Weather; Fresh southerly, after rain event				
Name of sample collector	G. day				
24/01/2023	A (1) - 1308	27.4	8.32	2.73	90.1
	C (3) - 1313	27.6	8.31	2.1	91.2
	D (4) - 1319	28	8.31	1.75	83.5
	B (2) - 1324	28.3	8.3	2.2	90.3
Weekly comments	Weather; Fine				
Name of sample collector	G. day				
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					

Weekly monitoring testing for duration of EPA licence 20631

Monthly Maximums	**28.3**	**8.32**	**6.9**	**95.6**
Monthly Minimums	**25.3**	**7.89**	**1.75**	**71.4**

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	12/01/2023	0915	Nil	Nil
Comments	No visible 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 for

[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)	12/01/2023	<5	<5	10b
Ammonia as N (mg/L)	12/01/2023	<0.01	<0.01	-
Total Nitrogen as N (mg/L)	12/01/2023	0.196	0.183	0.3
Total Phosphorus as P (mg/L)	12/01/2023	0.001	0.003	0.03
TPH (C6-C36) (µg/L)	12/01/2023	<50	<50	-
PAHs (µg/L)	12/01/2023	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	12/01/2023	<1	<1	-
BTEX (Benzene) (µg/L)	12/01/2023	<1	<1	-
BTEX (Toluene) (µg/L)	12/01/2023	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	12/01/2023	<2	<2	-
BTEX (Total Xylenes) (µg/L)	12/01/2023	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	12/01/2023	<0.0002	<0.0002	0.0055d
Dissolved metals (Cromium) (mg/L)	12/01/2023	<0.0005	<0.0005	0.0044e
Dissolved metals (Copper) (mg/L)	12/01/2023	0.001	0.001	0.0013
Dissolved metals (Tin) (mg/L)	12/01/2023	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	12/01/2023	0.032	0.025	0.015d
Comments	RCA ref 14302-747/0			
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