Trinity Point Marina - Water Quality Monitoring

Month: Oct-20

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
7.10.2020	A (1) - 1358	23.1	8.17	3.97	93.4
	C (3) - 1401	23	8.15	2.51	94.4
	D (4) - 1404	23.1	8.16	2.15	94.4
	B (2) - 1408	23.6	8.18	4.04	99
Weekly comments	Calm & sunny day				
Name of sample collector	G.Day				
12.10.2020	A (1) - 1100	22	8.14	3.76	88.5
	C (3) - 1103	22.8	8.14	2	90.1
	D (4) - 1107	22.9	8.15	2.92	92.4
	B (2) - 1110	23.4	8.17	2.56	88.3
Weekly comments	Calm & sunny day				
Name of sample collector	G.Day				
21.10.2020	A (1) - 0908	22.9	8	3.4	86.8
	C (3) - 0919	23.2	8.17	4	88.0
	D (4) - 0915	23.1	8.18	3.9	95.0
	B (2) - 0924	22.9	8.13	5.6	89.4
Weekly comments	Fine & sunny day				
Name of sample collector	G.Day + RCA representitive - S King				
28.10.2020	A (1) - 0938	20.2	8.19	3.18	94.1
	C (3) - 0941	20.1	8.08	3.68	91
	D (4) - 0946	20.5	7.94	3.37	82.9
	B (2) - 0948	20.5	7.96	3.12	79.8
Weekly comments	Overcast, after rain event				
Name of sample collector	A Champan & G.Day				
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					
Monthly Maximums		**23.6**	**8.19**	**4.04**	**99**
Monthly Minimums		**20.1**	**7.94**	**2.00**	**79.8**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	27.10.2020	1400	None	None
Comments	No Hydrocarbons evident - stormy & rainy day			
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)	21.10.20	6	7	10[b]
Ammonia as N (mg/L)	21.10.20	<0.005	<0.005	-
Total Nitrogen as N (mg/L)	21.10.20	0.154	0.145	0.3
Total Phosphorus as P (mg/L)	21.10.20	0.003	<0.001	0.03
TPH (C6-C36) (µg/L)	21.10.20	<50	<50	-
PAHs (µg/L)	21.10.20	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	21.10.20	~360	40	-
BTEX (Benzene) (µg/L)	21.10.20	<1	<1	-
BTEX (Toluene) (µg/L)	21.10.20	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	21.10.20	<2	<2	-
BTEX (Total Xylenes) (µg/L)	21.10.20	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	21.10.20	<0.0002	<0.0002	0.0055[d]
Dissolved metals (Cromium) (mg/L)	21.10.20	<0.0005	<0.0005	0.0044[e]
Dissolved metals (Copper) (mg/L)	21.10.20	0.002	0.002	0.0013
Dissolved metals (Tin) (mg/L)	21.10.20	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	21.10.20	<0.005	<0.005	0.015[d]
Comments	RCA ref 14302-721/0			
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