Trinity Point Marina - Water Quality Monitoring

Month: Nov-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
5.11.2020	A (1) - 0830	24	8.16	1.75	86
	C (3) - 0833	24.2	8.15	2.92	91.4
	D (4) - 0837	24.8	8.12	1.89	86.4
	B (2) - 0840	25.5	8.07	4.52	75.3[a]
Weekly comments	Overcast & windy				
Name of sample collector	A Champan & G.Day				
13.11.2020	A (1) - 1301	25.1	8.21	2.75	90.2
	C (3) - 1305	24.8	8.21	2.74	92.9
	D (4) - 1309	25.3	8.19	1.88	94.6
	B (2) - 1312	25.4	8.20	2.1	92.7
Weekly comments	Overcast				
Name of sample collector	A Champan & G.Day				
18.11.2020	A (1) - 0942	25.1	8.19	18.8	105
	C (3) - 0946	25.2	8.22	16.6	106
	D (4) - 0952	25.2	8.25	18.0	102
	B (2) - 0955	25.0	8.24	14.4	92
Weekly comments	Fine & windy				
Name of sample collector	G.Day + RCA representitive - S King				
25.11.2020	A (1) - 0851	25.8	8.22	3.88	78.6
	C (3) - 0854	26.1	8.22	3.13	83.4
	D (4) - 0858	26.1	8.14	4.12	79.2
	B (2) - 0901	26.2	8.12	4.0	77.2
Weekly comments	Overcast & calm				
Name of sample collector	A Champan & G.Day				
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					
Monthly Maximums		**26.2**	**8.25**	**18.8**	**106**
Monthly Minimums		**24.0**	**8.07**	**1.75**	**75.3[a]**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	10.11.20	1600	Nil	Nil
Comments				
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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Month: Nov-20

NATA Laboratory testing	Date	Inside Marina location A (1)	Background location C (3) in Bardens Bay	Trigger Values[a]
Total suspended solids (mg/L)	18.11.20	5	5	10[b]
Ammonia as N (mg/L)	18.11.20	<0.010	<0.010	-
Total Nitrogen as N (mg/L)	18.11.20	0.204	0.184	0.3
Total Phosphorus as P (mg/L)	18.11.20	<0.001	<0.001	0.03
TPH (C6-C36) (µg/L)	18.11.20	<50	<50	-
PAHs (µg/L)	18.11.20	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	18.11.20	1	<1	-
BTEX (Benzene) (µg/L)	18.11.20	<1	<1	-
BTEX (Toluene) (µg/L)	18.11.20	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	18.11.20	<2	<2	-
BTEX (Total Xylenes) (µg/L)	18.11.20	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	18.11.20	<0.0002	<0.0002	0.0055[d]
Dissolved metals (Cromium) (mg/L)	18.11.20	<0.0005	<0.0005	0.0044[e]
Dissolved metals (Copper) (mg/L)	18.11.20	0.001	0.001	0.0013
Dissolved metals (Tin) (mg/L)	18.11.20	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	18.11.20	<0.005	<0.005	0.015[d]
Comments	RCA ref 14302-722/0			
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