Trinity Point Marina - Water Quality Monitoring

Month: Dec-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
3.12.20	A (1) - 1514	25.6	8.14	7.13	81.1
	C (3) - 1518	25.5	7.76	3.61	79.6
	D (4) - 1524	25.4	7.94	5.23	81.5
	B (2) - 1527	25.4	7.99	5.23	81.3
Weekly comments	Overcast & windy				
Name of sample collector	A Champan & G.Day				
9.12.20	A (1) - 0855	25.3	8.02	14.1	102.1
	C (3) - 0901	25.3	8.14	11.1	80.7
	D (4) - 0905	25.9	8.14	14	80.3
	B (2) - 0909	26.2	8.11	11.7	71.7
Weekly comments	Fine & windy				
Name of sample collector	A.Chapman + RCA representitive - S King				
15.12.20	A (1) - 1108	24.2	8.18	2.61	87
	C (3) - 1111	24.3	8.19	1.89	91.7
	D (4) - 1114	24.3	8.12	2.19	87.2
	B (2) - 1117	24.2	8.12	4.07	90
Weekly comments	Overcast & windy				
Name of sample collector	A Champan & G.Day				
23.12.20	A (1) - 1030	25.6	8.22	1.79	87.3
	C (3) - 1034	25.3	8.22	2.23	92.2
	D (4) - 1037	25.5	8.2	1.64	88
	B (2) - 1048	25.5	8.23	1.65	86.5
Weekly comments	Weather - fine, after rain event				
Name of sample collector	A Champan				
29.12.20	A (1) - 1610	25.6	8.13	2.59	82
	C (3) - 1613	25.6	8.17	2.63	86.2
	D (4) - 1616	26.2	8.17	2.28	87.7
	B (2) - 1618	26.3	8.14	2.28	87.5
Weekly comments	Rain & windy				
Name of sample collector	A Champan & G.Day				
Monthly Maximums		**26.3**	**8.23**	**14.1**	**102.1**
Monthly Minimums		**24.2**	**7.76**	**1.64**	**71.7**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	3.12.20	1000	Nil	Nil
Comments	Nothing visible			
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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Month: Dec-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)	9.12.20	5	5	10[b]
Ammonia as N (mg/L)	9.12.20	<0.010	<0.010	-
Total Nitrogen as N (mg/L)	9.12.20	0.154	0.142	0.3
Total Phosphorus as P (mg/L)	9.12.20	0.002	0.002	0.03
TPH (C6-C36) (µg/L)	9.12.20	<50	<50	-
PAHs (µg/L)	9.12.20	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	9.12.20	<1	<1	-
BTEX (Benzene) (µg/L)	9.12.20	<1	<1	-
BTEX (Toluene) (µg/L)	9.12.20	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	9.12.20	<2	<2	-
BTEX (Total Xylenes) (µg/L)	9.12.20	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	9.12.20	<0.0002	<0.0002	0.0055[d]
Dissolved metals (Cromium) (mg/L)	9.12.20	<0.0005	<0.0005	0.0044[e]
Dissolved metals (Copper) (mg/L)	9.12.20	0.001	0.001	0.0013
Dissolved metals (Tin) (mg/L)	9.12.20	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	9.12.20	<0.005	<0.005	0.015[d]
Comments	RCA ref 14302-723/0			
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