Trinity Point Marina - Water Quality Monitoring

Month: Aug-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
6.8.20	A (1) - 0911	15.9	8.15	1.22	91.1
	C (3) - 0914	15.5	8.11	1.18	88.9
	D (4) - 0918	16	8.07	1.11	88.9
	B (2) - 0921	15.7	8.1	<1	87.2
Weekly comments	weather - fine				
Name of sample collector	A Champan & G.Day				
13.8.20	A (1) - 0830	16.7	8.16	1.5	102.2
	C (3) - 0833	17.5	7.95	2.35	94.8
	D (4) - 0836	18.3	7.9	2.94	90
	B (2) - 0839	19.2	7.89	2.53	89.8
Weekly comments	weather - fine, rain overnight				
Name of sample collector	A Champan & G.Day				
19.8.20	A (1) - 0930	16.3	7.84	<1	83.5
	C (3) - 0945	16.2	7.85	<1	81.8
	D (4) - 0954	16.1	7.8	<1	88.5
	B (2) - 0941	16.2	7.83	<1	86.8
Weekly comments	weather - fresh NW wind and sunny				
Name of sample collector	G.Day + RCA representitive - S King				
26.8.20	A (1) - 0955	15.7	8.14	<1	96.8
	C (3) - 1001	15.8	8.08	1.63	93.9
	D (4) - 1006	15.7	8.06	1.47	87.1
	B (2) - 1010	15.9	8.06	2.47	88.3
Weekly comments	weather - calm and sunny				
Name of sample collector	G.Day				
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					
Monthly Maximums		**19.2**	**8.16**	**2.94**	**102.2**
Monthly Minimums		**15.5**	**7.8**	**<1**	**81.8**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	5.8.20	1630	None	None
Comments	Nil observed, all ok			
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: Aug-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)	19.8.20	**<5**	**<5**	10[b]
Ammonia as N (mg/L)	19.8.20	<0.10	<0.10	-
Total Nitrogen as N (mg/L)	19.8.20	0.08	0.089	0.3
Total Phosphorus as P (mg/L)	19.8.20	0.003	<0.001	0.03
TPH (C6-C36) (µg/L)	19.8.20	<50	<50	-
PAHs (µg/L)	19.8.20	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	19.8.20	~360	40	-
BTEX (Benzene) (µg/L)	19.8.20	<1	<1	-
BTEX (Toluene) (µg/L)	19.8.20	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	19.8.20	<2	<2	-
BTEX (Total Xylenes) (µg/L)	19.8.20	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	19.8.20	<0.0002	<0.0002	0.0055[d]
Dissolved metals (Cromium) (mg/L)	19.8.20	<0.0005	<0.0005	0.0044[e]
Dissolved metals (Copper) (mg/L)	19.8.20	0.001	0.001	0.0013
Dissolved metals (Tin) (mg/L)	19.8.20	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	19.8.20	<0.005	<0.005	0.015[d]
Comments	RCA ref 14302-718/0			
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