Trinity Point Marina - Water Quality Monitoring

Month: Jun-21

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
8.6.21	A (1) - 0952	16.6	8.14	2.73	125.6[a]
	C (3) - 0956	16.5	7.98	1.51	92.6[a]
	D (4) - 1001	16.7	7.98	<1	-
	B (2) - 1006	16.6	8.02	1.59	-
Weekly comments	Weather; Overcast 10kts N				
Name of sample collector	G. Day				
15.6.21	A (1) - 1020	15.7	8.27	1.48	98.9
	C (3) - 1024	15.6	8.11	1.19	98.9
	D (4) - 1030	15.8	8.22	1.33	89
	B (2) - 1038	15.9	8.17	1.11	99
Weekly comments	Weather; Sunny, no wind				
Name of sample collector	S. Diamond				
22.6.21	A (1) - 1351	15.6	8.22	<1	102.4
	C (3) - 1358	15.3	8.18	2.39	119.4
	D (4) - 1404	16.2	8.06	2.21	124.3
	B (2) - 1409	16.4	8.04	2.47	112.3
Weekly comments	After rain event, no wind				
Name of sample collector	G. Day				
24.6.21	A (1) - 9.10	15.3	7.99	1.1	93.1
	C (3) - 9.24	15.2	7.98	1.7	83
	D (4) - 9.30	15.3	8.08	1.1	83
	B (2) - 9.40	15.2	8.11	1	83.3
Weekly comments	Weather; Overcast				
Name of sample collector	G Day + RCA representitive - S King				
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					
Monthly Maximums		**16.7**	**8.27**	**2.73**	**125.6[a]**
Monthly Minimums		**15.2**	**7.98**	**<1**	**83**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	15/06/2021	9:55am	Nil	Nil
Comments	No visible signs			
Name of inspector	Garry 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)	24.6.21	<5	<5	10[b]
Ammonia as N (mg/L)	24.6.21	<0.01	<0.01	-
Total Nitrogen as N (mg/L)	24.6.21	0.227	0.223	0.3
Total Phosphorus as P (mg/L)	24.6.21	0.003	0.002	0.03
TPH (C6-C36) (µg/L)	24.6.21	<50	<50	-
PAHs (µg/L)	24.6.21	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	24.6.21	3	<1	-
BTEX (Benzene) (µg/L)	24.6.21	<1	<1	-
BTEX (Toluene) (µg/L)	24.6.21	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	24.6.21	<2	<2	-
BTEX (Total Xylenes) (µg/L)	24.6.21	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	24.6.21	<0.0002	<0.0002	0.0055[d]
Dissolved metals (Cromium) (mg/L)	24.6.21	<0.0005	<0.0005	0.0044[e]
Dissolved metals (Copper) (mg/L)	24.6.21	0.002	0.001	0.0013
Dissolved metals (Tin) (mg/L)	24.6.21	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	24.6.21	0.007	<0.005	0.015[d]
Comments	RCA ref 14302-729/0			
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