Trinity Point Marina - Water Quality Monitoring

Month: Mar-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**
4/03/2020	A (1) - 9:55	26.0	8.1	<1	96.8
	C (3) - 9:59	26.2	8.18	<1	84.5
	D (4) - 10:04	26.4	8.19	<1	94.9
	B (2) - 10:07	26.6	8.18	<1	94.5
Weekly comments	Weather - overcast with wind and rain - Monthly analysis testing provided by RCA				
Name of sample collector	L. Schofield				
11/03/2020	A (1) - 13:05	25.3	8.11	2.04	87.5
	C (3) - 13:08	25.2	8.08	1.82	89.3
	D (4) - 13:10	25.4	8.09	1.51	89.4
	B (2) - 13:12	25.5	8.10	1.53	90.3
Weekly comments	Weather - calm				
Name of sample collector	Andrew Chapman / Gary Day				
20/03/2020	A (1) - 10:52	25.7	8.02	1.88	96.8
	C (3) - 10:54	25.9	8.05	1.25	94.3
	D (4) - 10:57	26.3	8.03	1.26	97.7
	B (2) - 10:59	25.9	8.11	1.15	99.9
Weekly comments	Weather - overcast with wind and rain				
Name of sample collector	Andrew Chapman / Gary Day				
28/03/2020	A (1) - 8:42	23.9	8.05	2.07	81.2
	C (3) - 8:45	24.0	8.06	2.08	85.7
	D (4) - 8:48	24.1	8.05	2.56	87.0
	B (2) - 8:51	24.3	8.05	1.99	84.6
Weekly comments	Weather - calm following rain				
Name of sample collector	Andrew Chapman				
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					
Monthly Maximums		**26.6**	**8.19**	**2.56**	**99.9**
Monthly Minimums		**23.9**	**8.02**	**<1**	**81.2**

Weekly monitoring testing for duration of EPA licence 20631

Other	**Date**	**Time**	**Location E (5)**	**Location F (6)**
Oil and grease visual inspection	6/03/2020	12:30pm	None	None
Comments				
Name of inspector	Gary 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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NATA Laboratory testing	Date	Inside Marina location A (1)	Background location C (3) in Bardens Bay	Trigger Values[a]
Total suspended solids (mg/L)	4.3.20	88	80	10[b]
Ammonia as N (mg/L)	4.3.20	<0.1	<0.1	-
Total Nitrogen as N (mg/L)	4.3.20	<0.5	<0.5	0.3
Total Phosphorus as P (mg/L)	4.3.20	0.08	0.13	0.03
TPH (C6-C36) (µg/L)	4.3.20	<50	<50	-
PAHs (µg/L)	4.3.20	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	4.3.20	<1	2	-
BTEX (Benzene) (µg/L)	4.3.20	<1	<1	-
BTEX (Toluene) (µg/L)	4.3.20	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	4.3.20	<2	<2	-
BTEX (Total Xylenes) (µg/L)	4.3.20	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	4.3.20	<0.0010	<0.0010	0.0055[d]
Dissolved metals (Cromium) (mg/L)	4.3.20	<0.010	<0.010	0.0044[e]
Dissolved metals (Copper) (mg/L)	4.3.20	<0.010	<0.010	0.0013
Dissolved metals (Tin) (mg/L)	4.3.20	<0.010	<0.010	-
Dissolved metals (Zinc) (mg/L)	4.3.20	<0.050	<0.050	0.015[d]
Comments	RCA ref 14302-714/0			
Name of sample collector	L. Schofield			

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