Trinity Point Marina - Water Quality Monitoring

Month: Jan-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
2/01/2020	A (1) - 8:27	27	8.11	3.41	82.8
	C (3) - 8:32	27	8.12	2.94	84.4
	D (4) - 8:37	27.4	8.1	3.4	81.7
	B (2) - 8:42	27.8	8.07	8.08	76.3
Weekly comments	Fine weather				
Name of sample collector	A. Chapman				
7/01/2020	A (1) - 10:26	27.0	7.53	12.3	94.0
	C (3) - 10:39	27.3	7.86	7.8	94.5
	D (4) - 10:52	27.6	7.88	7.4	92.9
	B (2) - 10:54	27.7	7.94	6.6	91.5
Weekly comments	Fine weather - Monthly analysis testing provided by RCA				
Name of sample collector	L. Schofield				
17/1/2020	A (1) - 9.25	28.5	7.5	1.9	85.5
	C (3) - 9.34	27.5	7.89	1.31	89.3
	D (4) - 9.38	27.4	7.91	2.22	88.4
	B (2) - 9.40	27.9	7.84	2.26	89.6
Weekly comments	Fine weather				
Name of sample collector	A. Chapman				
23/1/2020	A (1) - 9.00	27.4	8.56	2.33	88.5
	C (3) - 9.05	28.5	8.44	4.1	87.7
	D (4) - 9.06	28.1	8.32	4.1	83.9
	B (2) - 9.08	28.1	8.29	3.87	85.3
Weekly comments	Fine weather				
Name of sample collector	A. Chapman				
30/1/2020	A (1) - 8.40	27.6	8.02	3.16	82.5
	C (3) - 8.43	29.6	7.77	3.09	83.5
	D (4) - 8.46	29.8	7.64	2.76	85.7
	B (2) - 8.48	29.9	7.55	3.17	85.1
Weekly comments	Fine weather				
Name of sample collector	A. Chapman				
Monthly Maximums		**27.0**	**7.53**	**1.31**	**76.3**
Monthly Minimums		**29.9**	**8.56**	**12.3**	**94.5**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	2.1.20	8:14am	None	None
Comments				
Name of inspector	A. Chapman			

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: Jan-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)		98	99	10[b]
Ammonia as N (mg/L)		<0.1	<0.1	-
Total Nitrogen as N (mg/L)		<1.0	2.3	0.3
Total Phosphorus as P (mg/L)		<0.1	0.13	0.03
TPH (C6-C36) (µg/L)		<50	<50	-
PAHs (µg/L)		<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)		2	<1	-
BTEX (Benzene) (µg/L)		<1	<1	-
BTEX (Toluene) (µg/L)		<2	<2	-
BTEX (Ethylbenzene) (µg/L)		<2	<2	-
BTEX (Total Xylenes) (µg/L)		<2	<2	-
Dissolved metals (Cadmium) (mg/L)		<0.0010	<0.0010	0.0055[d]
Dissolved metals (Cromium) (mg/L)		<0.010	<0.010	0.0044[e]
Dissolved metals (Copper) (mg/L)		<0.010	<0.010	0.0013
Dissolved metals (Tin) (mg/L)		<0.010	<0.010	-
Dissolved metals (Zinc) (mg/L)		<0.050	<0.050	0.015[d]
Comments	RCA ref 14302-713/0			
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