

Trinity Point Marina - Water Quality Monitoring



Month:

Aug-19

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
6.8.19	A (1) - 9:07	17.4	8.10	2.5	100.1
	C (3) - 9:21	18.4	8.08	17.4	108.0
	D (4) - 9:38	18.5	8.07	13.5	109.9
	B (2) - 9:42	18.3	8.06	12.7	109.4
Weekly comments	Weather - clear, water murky - Monthly analysis testing provided by RCA				
Name of sample collector		L. Schofield			

15.8.19	A (1) - 9:17	16.1	8.14	1.06	84.5
	C (3) - 9:21	16.4	8.15	1.22	81.5
	D (4) - 9:38	16.9	8.15	1.09	84.3
	B (2) - 9:42	16.7	8.16	1.15	86.8
Weekly comments	Weather - clear, water clear				
Name of sample collector		A. Chapman			

20.8.19	A (1) - 11:20	15.9	8.21	<1	92.7
	C (3) - 11:23	15.9	7.99	1.59	91.6
	D (4) - 11:25	17.9	8.02	1.78	89.5
	B (2) - 11:28	17.1	7.92	3.14	88.6
Weekly comments	Weather - clear, water clear				
Name of sample collector		A. Chapman			

27.8.19	A (1) - 11:10	17.8	8.22	1.53	102.3
	C (3) - 11:13	17.7	8.14	1.71	99.1
	D (4) - 11:15	17.9	7.93	1.71	95.9
	B (2) - 11:17	18.0	7.82	1.65	92.7
Weekly comments	Weather - clear, water clear				
Name of sample collector		A. Chapman			

	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					

Monthly Maximums	15.9	7.82	<1	81.5
Monthly Minimums	18.5	8.22	17.4	109.9

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	20.8.19	11:05	not present	not present
Comments				
Name of inspector		A. Chapman		

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

Weekly monitoring testing for duration of EPA licence 20631

Monthly

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Month:

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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)	6.8.19	<5	<5	10 ^b
Ammonia as N (mg/L)	6.8.19	<0.10	<0.10	-
Total Nitrogen as N (mg/L)	6.8.19	<1.0	<1.0	0.3
Total Phosphorus as P (mg/L)	6.8.19	0.12	<0.10	0.03
TPH (C6-C36) (µg/L)	6.8.19	<50	<50	-
PAHs (µg/L)	6.8.19	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	6.8.19	1	350	-
BTEX (Benzene) (µg/L)	6.8.19	<1	<1	-
BTEX (Toluene) (µg/L)	6.8.19	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	6.8.19	<2	<2	-
BTEX (Total Xylenes) (µg/L)	6.8.19	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	6.8.19	0.0003	0.0002	0.0055 ^d
Dissolved metals (Cromium) (mg/L)	6.8.19	<0.001	<0.001	0.0044 ^e
Dissolved metals (Copper) (mg/L)	6.8.19	<0.001	0.004	0.0013
Dissolved metals (Tin) (mg/L)	6.8.19	<0.001	<0.001	-
Dissolved metals (Zinc) (mg/L)	6.8.19	0.007	0.007	0.015 ^d
Comments	RCA ref 14302-703/Water/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
^e Value given specifically for Cr(IV)
^f Analyte corresponds to "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