Trinity Point Marina - Water Quality Monitoring

Month: Apr-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
3.4.20	A (1) - 14:30	24.8	8.07	1.65	94.1
	C (3) - 14:33	24.8	8.08	2.09	94.2
	D (4) - 14:36	24.9	8.1	1.63	96.8
	B (2) - 14:38	24.6	8.08	1.64	95.5
Weekly comments	Weather; Overcast rain in area				
Name of sample collector	A Champman				
11.4.20	A (1) - 7:56	24.7	8.06	1.73	94.2
	C (3) - 7:59	24.7	8.08	1.94	94.8
	D (4) - 8:02	24.9	8.11	1.82	96.2
	B (2) - 8:05	24.6	8.07	1.78	95.7
Weekly comments	Weather; Blue sky, W wind				
Name of sample collector	A Champman				
14.4.20	A (1) - 10:28	21.7	8.09	1.29	89.1
	C (3) - 10:31	22.1	8.08	1.36	95
	D (4) - 10:35	22	8.05	1.57	86.4
	B (2) - 10:38	21.9	8.06	1.66	88.1
Weekly comments	Weather; Blue sky, no wind				
Name of sample collector	A Champman				
23.4.20	A (1) - 7:40	21.5	8.06	2.44	75.9
	C (3) - 7:45	21.6	8.08	1.91	80.4
	D (4) - 7:47	21.5	8.09	2.76	80.2
	B (2) - 7:51	21.5	8.07	1.81	79.3
Weekly comments	Weather; Overcast, no wind				
Name of sample collector	A Champman				
30.4.20	A (1) - 7:22	21.6	8.05	2.46	87.3
	C (3) - 7:26	21.6	8.04	1.48	83.1
	D (4) - 7:30	21.7	8.04	1.73	83
	B (2) - 7:35	21.8	8.04	1.55	84.1
Weekly comments	Weather; storm approaching, NNW wind				
Name of sample collector	A Champman				
Monthly Maximums		**24.9**	**8.11**	**2.76**	**96.8**
Monthly Minimums		**21.5**	**8.04**	**1.36**	**75.9**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	8.4.20	10:45	None	None
Comments	All ok, no signs of hydrocarbons			
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)				10[b]
Ammonia as N (mg/L)				-
Total Nitrogen as N (mg/L)				0.3
Total Phosphorus as P (mg/L)				0.03
TPH (C6-C36) (µg/L)				-
PAHs (µg/L)				-
Thermotolerant coliforms (cfu/100mL)				-
BTEX (Benzene) (µg/L)				-
BTEX (Toluene) (µg/L)				-
BTEX (Ethylbenzene) (µg/L)				-
BTEX (Total Xylenes) (µg/L)				-
Dissolved metals (Cadmium) (mg/L)				0.0055[d]
Dissolved metals (Cromium) (mg/L)				0.0044[e]
Dissolved metals (Copper) (mg/L)				0.0013
Dissolved metals (Tin) (mg/L)				-
Dissolved metals (Zinc) (mg/L)				0.015[d]
Comments	Not completed for April - see March testing			
Name of sample collector				

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