Trinity Point Marina - Water Quality Monitoring

Month: Feb-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
6/02/2020	A (1) - 8:30	27.4	8.16	6.2	82
	C (3) - 8:32	27.5	8.16	5.38	83.9
	D (4) - 8:35	27.6	8.13	5.75	82.6
	B (2) - 8:37	27.6	8.13	5.51	82.7
Weekly comments	Fine weather				
Name of sample collector	A Chapman				
13/02/2020	A (1) - 8:25	26.5	7.89	4.05	63.6
	C (3) - 8:30	26.3	7.94	4.63	79.7
	D (4) - 8:35	28.2	7.87	3.29	76
	B (2) - 8:39	27.1	7.93	3.05	73.8
Weekly comments	Following significant storm event				
Name of sample collector	A Chapman				
18/02/2020	A (1) - 8:29	27	8.2	4.1	89.6
	C (3) - 8:33	27.7	8.25	4.25	93
	D (4) - 8:37	26.9	8.25	3.98	98.7
	B (2) - 8:42	27.3	8.26	3.65	95.4
Weekly comments	Fine weather				
Name of sample collector	A Chapman				
28/02/2020	A (1) - 7:47	26.5	8.1	3.36	76.3
	C (3) - 7:51	26.5	8.13	2.66	80
	D (4) - 7:54	27.5	8.1	2.48	77.2
	B (2) - 7:57	27.6	8.11	1.48	77.6
Weekly comments	Fine weather				
Name of sample collector	A Chapman				
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					
Monthly Maximums		**26.5**	**7.87**	**1.48**	**63.6**
Monthly Minimums		**28.2**	**8.26**	**6.2**	**98.7**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	6.2.20	8:15am	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

[w] represents a wet weather monitoring event

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Month: Feb-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)				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 February - see Jan 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