Trinity Point Marina - Water Quality Monitoring

Month: Jul-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
1.7.20	A (1) - 1055	17	8.16	1.29	87.2
	C (3) - 1058	17	8.09	<1	86.6
	D (4) - 1104	17.3	8.12	1.65	87.7
	B (2) - 1107	17.2	8.11	1.66	85.2
Weekly comments	weather - fine				
Name of sample collector	G.Day				
8.7.20	A (1) - 0940	17.3	7.92	1.76	86.1
	C (3) - 0942	17.3	7.97	1.78	89.2
	D (4) - 0946	17.4	7.97	1.95	87.8
	B (2) - 0949	17.5	8.01	1.36	86.1
Weekly comments	weather - fine				
Name of sample collector	A Champan & G.Day				
15.7.20	A (1) - 0956	16.0	7.67	2.95	83.7
	C (3) - 0958	16.1	7.81	3.35	88
	D (4) - 1001	16.0	7.84	3.83	87.8
	B (2) - 1004	16.0	7.92	2.3	85.6
Weekly comments	weather - east coast low, very windy				
Name of sample collector	A Champan & G.Day				
22.7.20	A (1) - 0845	14.85	7.85	4.1	85.3
	C (3) - 0850	15.68	7.99	23.5[w]	90.4
	D (4) - 0854	15.96	8.02	17.1	88.9
	B (2) - 0900	16.24	8.00	14.1	83.9
Weekly comments	weather - fine and calm, after rain event				
Name of sample collector	G.Day + RCA representitive - S King				
30.7.20	A (1) - 1000	17.3	7.94	6.36	87.1
	C (3) - 1006	17.6	8.02	6.22	90.6
	D (4) - 1011	18.4	7.99	5.17	90.5
	B (2) - 1015	19	7.91	4.88	86.6
Weekly comments	weather - fine, after big low				
Name of sample collector	G.Day				
Monthly Maximums		**19.0**	**8.16**	**23.5[w]**	**90.6**
Monthly Minimums		**16.0**	**7.67**	**<1**	**83.7**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	2.7.20	1500	None	None
Comments	No evidence within wells			
Name of inspector	G.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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NATA Laboratory testing	Date	Inside Marina location A (1)	Background location C (3) in Bardens Bay	Trigger Values[a]
Total suspended solids (mg/L)	22.7.20	**<5**	**<5**	10[b]
Ammonia as N (mg/L)	22.7.20	<0.10	<0.10	-
Total Nitrogen as N (mg/L)	22.7.20	0.124	0.131	0.3
Total Phosphorus as P (mg/L)	22.7.20	<0.001	<0.001	0.03
TPH (C6-C36) (µg/L)	22.7.20	<50	<50	-
PAHs (µg/L)	22.7.20	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	22.7.20	<1	7	-
BTEX (Benzene) (µg/L)	22.7.20	<1	<1	-
BTEX (Toluene) (µg/L)	22.7.20	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	22.7.20	<2	<2	-
BTEX (Total Xylenes) (µg/L)	22.7.20	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	22.7.20	<0.0002	<0.0002	0.0055[d]
Dissolved metals (Cromium) (mg/L)	22.7.20	<0.0005	<0.0005	0.0044[e]
Dissolved metals (Copper) (mg/L)	22.7.20	0.001	0.001	0.0013
Dissolved metals (Tin) (mg/L)	22.7.20	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	22.7.20	<0.005	<0.005	0.015[d]
Comments	RCA ref 14302-717/0			
Name of sample collector	S King			

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