Trinity Point Marina - Water Quality Monitoring

Month: Nov-21

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
4/11/2021	A (1) - 0900	23.6	7.48	2.14	98.7
	C (3) - 0904	24.1	7.94	2.87	99.3
	D (4) - 0910	23.9	7.62	3.11	101.2
	B (2) - 0914	24.3	7.71	3.72	100.7
Weekly comments	Weather; fine				
Name of sample collector	G.Day				
9/11/2021	A (1) - 1239	24.4	8.23	3.26	105.7
	C (3) - 1243	24.7	8.16	3.19	104.4
	D (4) - 1247	24.7	8.19	2.74	106.4
	B (2) - 1251	25.1	8.14	4.93	104.1
Weekly comments	Weather; light breeze, overcast				
Name of sample collector	G.Day				
18/11/2021	A (1) - 0939	22.2	7.89	3.7	83.5
	C (3) - 0947	22.1	7.88	2.2	81.5
	D (4) - 0955	22.3	7.91	2.1	82.3
	B (2) - 0959	22.4	7.89	2.8	81.1
Weekly comments	Weather; fine				
Name of sample collector	G Day + RCA representitive - S King				
24/11/2021	A (1) - 0930	22.9	8.21	3.94	100
	C (3) - 0935	23.5	8.19	3.54	101.4
	D (4) - 0940	23.9	8.2	2.44	98.5
	B (2) - 0950	23.7	8.23	2.55	99.4
Weekly comments	Weather; north breeze, overcast				
Name of sample collector	S. Diamond				
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					

Weekly monitoring testing for duration of EPA licence 20631

Monthly Maximums	**25.1**	**8.23**	**4.93**	**106.4**
Monthly Minimums	**22.1**	**7.48**	**2.1**	**81.1**

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	18/11/2021	930	Nil	Nil
Comments	No visable signs			
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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Month: Nov-21

NATA Laboratory testing	Date	Inside Marina location A (1)	Background location C (3) in Bardens Bay	Trigger Values[a]
Total suspended solids (mg/L)	18/11/2021	<5	<5	10b
Ammonia as N (mg/L)	18/11/2021	0.1	0.13	-
Total Nitrogen as N (mg/L)	18/11/2021	0.229	0.223	0.3
Total Phosphorus as P (mg/L)	18/11/2021	0.004	0.003	0.03
TPH (C6-C36) (µg/L)	18/11/2021	<50	<50	-
PAHs (µg/L)	18/11/2021	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	18/11/2021	12	4	-
BTEX (Benzene) (µg/L)	18/11/2021	<1	<1	-
BTEX (Toluene) (µg/L)	18/11/2021	<2	3	-
BTEX (Ethylbenzene) (µg/L)	18/11/2021	<2	<2	-
BTEX (Total Xylenes) (µg/L)	18/11/2021	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	18/11/2021	<0.0002	<0.0002	0.0055d
Dissolved metals (Cromium) (mg/L)	18/11/2021	<0.0005	<0.0005	0.0044e
Dissolved metals (Copper) (mg/L)	18/11/2021	0.002	0.002	0.0013
Dissolved metals (Tin) (mg/L)	18/11/2021	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	18/11/2021	<0.005	<0.005	0.015d
Comments	RCA ref 14302-734/0			
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