Trinity Point Marina - Water Quality Monitoring

Month: Mar-23

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
3/03/2023	A (1) - 1211	28.7	8.22	2.31	80.5
	C (3) - 1215	29	8.21	2.96	85.3
	D (4) - 1220	29.5	8.19	2.19	87.9
	B (2) - 1225	29.6	8.22	2.44	85.4
Weekly comments	Weather; Sunny with no breeze				
Name of sample collector	S.Diamond				
8/03/2023	A (1) - 1115	28.8	8.11	2.54	70.24
	C (3) - 1119	29	8.06	1.94	90.1
	D (4) - 1124	29.2	8.12	1.93	87.8
	B (2) - 1129	28.8	8.15	2.13	84.7
Weekly comments	Weather; Sunny, hot with no breeze				
Name of sample collector	S.Diamond				
15/03/2023	A (1) - 1105	26.5	8.13	1.34	90.5
	C (3) - 1110	26.8	8.06	1.35	94.7
	D (4) - 1115	27.3	8.05	1.22	90.1
	B (2) - 1120	27.4	8.03	1.79	75.5
Weekly comments	Weather; Sunny and calm				
Name of sample collector	S.Diamond				
27/03/2023	A (1) - 0940	25.5	7.82	13.2	81.9
	C (3) - 0950	25.3	7.76	12.2	82.1
	D (4) - 0943	25.3	7.81	11.1	83.6
	B (2) - 0955	25.1	7.82	9.5	83.3
Weekly comments	Weather; Moderate rainfall				
Name of sample collector	S King				
	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	**29.6**	**8.22**	**13.2**	**94.7**
Monthly Minimums	**25.1**	**7.76**	**1.22**	**70.24**

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	27/03/2023	0940	Nil	Nil
Comments	No visable signs			
Name of inspector	S king			

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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Month: Mar-23

NATA Laboratory testing	Date	Inside Marina location A (1)	Background location C (3) in Bardens Bay	Trigger Values[a]
Total suspended solids (mg/L)	27/03/2023	**96**	**9**	10b
Ammonia as N (mg/L)	27/03/2023	0.12	0.13	-
Total Nitrogen as N (mg/L)	27/03/2023	0.27	0.263	0.3
Total Phosphorus as P (mg/L)	27/03/2023	0.006	0.004	0.03
TPH (C6-C36) (µg/L)	27/03/2023	<50	<50	-
PAHs (µg/L)	27/03/2023	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	27/03/2023	27	18	-
BTEX (Benzene) (µg/L)	27/03/2023	<1	<1	-
BTEX (Toluene) (µg/L)	27/03/2023	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	27/03/2023	<2	<2	-
BTEX (Total Xylenes) (µg/L)	27/03/2023	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	27/03/2023	<0.0002	<0.0002	0.0055d
Dissolved metals (Cromium) (mg/L)	27/03/2023	<0.0005	<0.0005	0.0044e
Dissolved metals (Copper) (mg/L)	27/03/2023	0.002	0.003	0.0013
Dissolved metals (Tin) (mg/L)	27/03/2023	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	27/03/2023	0.023	0.071	0.015d
Comments	RCA ref 14302-749/0			
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