Trinity Point Marina - Water Quality Monitoring

Month: Aug-24

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
7/08/2024	A (1) - 0910	15.9	8.1	3.1	97.5
	C (3) - 0923	15.7	7.6	2.9	92
	D (4) - 0917	15.5	7.2	3.6	93.6
	B (2) - 0926	15.1	8	2.1	91.8
Weekly comments	Weather; Fine				
Name of sample collector	K. Wieland & M. Louis				
14/08/2024	A (1) - 1010	17	8.18	1.8	99.1
	C (3) - 1015	17.4	8.18	1.5	103
	D (4) - 1020	17.3	8.17	1.6	95.8
	B (2) - 1030	17.4	8.18	1.5	94.7
Weekly comments	Weather; Slightly raining				
Name of sample collector	K. Wieland & M. Louis				
20/08/2024	A (1) - 0935	17.6	8.02	10.3	85.3
	C (3) - 0943	18.4	8.05	11.4	87.5
	D (4) - 0950	18.4	8.05	11.6	87.2
	B (2) - 0958	17.8	8.07	13	91.4
Weekly comments	Weather; Clear & sunny				
Name of sample collector	RCA representitive - S. King & M. Louis				
28/08/2024	A (1) - 1336	18.7	8.18	4.9	101.4
	C (3) - 1341	18.6	8.17	1.87	99.4
	D (4) - 1346	18.9	8.17	1.94	101.5
	B (2) - 1351	19.2	8.17	1.76	108.6
Weekly comments	Weather; Clear with strong NW wind				
Name of sample collector	M. Louis & Matt				
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					
Monthly Maximums		**19.2**	**8.18**	**13**	**108.6**
Monthly Minimums		**15.1**	**7.2**	**1.5**	**85.3**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	28/08/2024	1355	Nil	Nil
Comments	No visible signs			
Name of inspector	M. Louis & Matt			

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)	20/08/2024	<5	8	10b
Ammonia as N (mg/L)	20/08/2024	<0.005	<0.005	-
Total Nitrogen as N (mg/L)	20/08/2024	0.2	0.2	0.3
Total Phosphorus as P (mg/L)	20/08/2024	<0.05	<0.05	0.03
TPH (C6-C36) (µg/L)	20/08/2024	<50	<50	-
PAHs (µg/L)	20/08/2024	<0.1	<0.1	-
Thermotolerant coliforms (cfu/100mL)	20/08/2024	<1	<1	-
BTEX (Benzene) (µg/L)	20/08/2024	<1	<1	-
BTEX (Toluene) (µg/L)	20/08/2024	<1	<1	-
BTEX (Ethylbenzene) (µg/L)	20/08/2024	<1	<1	-
BTEX (Total Xylenes) (µg/L)	20/08/2024	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	20/08/2024	0.0001	<0.0001	0.0055d
Dissolved metals (Cromium) (mg/L)	20/08/2024	0.003	0.001	0.0044e
Dissolved metals (Copper) (mg/L)	20/08/2024	0.006	0.005	0.0013
Dissolved metals (Tin) (mg/L)	20/08/2024	0.001	<0.001	-
Dissolved metals (Zinc) (mg/L)	20/08/2024	0.016	0.02	0.015d
Comments	RCA ref 14302-764/0			
Name of sample collector	RCA representitive - S. King			

10 times per year until March 2024 (2015 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