Trinity Point Marina - Water Quality Monitoring

Month: Jul-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
5/07/2023	A (1) - 0950	15.5	8.15	1.52	101.9
	C (3) - 0955	15.5	8.11	1.51	100.5
	D (4) - 1000	15.4	8.13	1.4	102.2
	B (2) - 1005	15.5	8.12	1.92	100
Weekly comments	Weather; sunny day with westerly				
Name of sample collector	S.Diamond				
12/07/2023	A (1) - 1000	15.8	8.15	1.81	102.4
	C (3) - 1010	16	8.14	1.95	101
	D (4) - 1015	16.4	8.15	2.19	102.3
	B (2) - 1020	16.9	8.13	2.13	102.4
Weekly comments	Weather; sunny day with no breeze				
Name of sample collector	S.Diamond				
19/07/2023	A (1) - 0945	16.25	8.15	5.4	90.1
	C (3) - 0950	16.5	8.17	3	95.3
	D (4) - 0953	16.72	8.17	2.4	87.8
	B (2) - 0956	16.82	8.16	2.2	84.1
Weekly comments	Weather; sunny day with NE breeze				
Name of sample collector	RCA representitive - S. King				
26/07/2023	A (1) - 1025	17.2	8.03	7.15	90.3
	C (3) - 1030	17.3	7.92	2.75	95.8
	D (4) - 1035	17.4	8.04	2.25	93
	B (2) - 1039	17.7	7.95	2.25	89.5
Weekly comments	Weather; sunny day with no breeze				
Name of sample collector	S.Diamond				
	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					
Monthly Maximums		**17.7**	**8.17**	**7.15**	**102.4**
Monthly Minimums		**15.4**	**7.92**	**1.4**	**84.1**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	4/07/2023	1114	Nil	Nil
Comments	No visable signs			
Name of inspector	RCA representitive - R. Wilson			

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)	19/07/2023	<5	<5	10b
Ammonia as N (mg/L)	19/07/2023	<0.2	<0.2	-
Total Nitrogen as N (mg/L)	19/07/2023	0.188	0.195	0.3
Total Phosphorus as P (mg/L)	19/07/2023	0.002	0.002	0.03
TPH (C6-C36) (µg/L)	19/07/2023	<50	<50	-
PAHs (µg/L)	19/07/2023	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	19/07/2023	<1	<1	-
BTEX (Benzene) (µg/L)	19/07/2023	<1	<1	-
BTEX (Toluene) (µg/L)	19/07/2023	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	19/07/2023	<2	<2	-
BTEX (Total Xylenes) (µg/L)	19/07/2023	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	19/07/2023	<0.0002	<0.0002	0.0055d
Dissolved metals (Cromium) (mg/L)	19/07/2023	<0.0005	<0.0005	0.0044e
Dissolved metals (Copper) (mg/L)	19/07/2023	0.002	0.001	0.0013
Dissolved metals (Tin) (mg/L)	19/07/2023	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	19/07/2023	0.01	0.012	0.015d
Comments	RCA ref 14302-753/0			
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