Trinity Point Marina - Water Quality Monitoring

Month: Nov-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
1/11/2023	A (1) - 1209	23.3	8.15	3.42	104.6
	C (3) - 1213	23.3	8.05	3	103.3
	D (4) - 1217	23.4	8.05	2.43	100.2
	B (2) - 1220	23.4	8.08	3.13	104.2
Weekly comments	Weather; morning shower - light wind				
Name of sample collector	J Thompson				
15/11/2023	A (1) - 0943	25.1	8.08	3.2	93.9
	C (3) - 0946	25.5	8.06	2.19	99.5
	D (4) - 0949	26.3	8.11	2.56	99.6
	B (2) - 0952	26.7	8.11	2.03	98.9
Weekly comments	Weather; calm and hot morning				
Name of sample collector	S. Diamond				
23/11/2023	A (1) - 0921	26	8.02	17.3	101.7
	C (3) - 0931	25.8	8.05	14.3	100.8
	D (4) - 0928	25.9	8.01	17.3	99.8
	B (2) - 0935	26.1	8.04	14.8	100.6
Weekly comments	Weather; fine, after rain event				
Name of sample collector	RCA representitive - S. King				
29/11/2023	A (1) - 0945	25.8	8.07	3.12	87.8
	C (3) - 1000	25.8	8.07	3.6	94.4
	D (4) - 1015	25.6	8.1	3.65	95.7
	B (2) - 1030	25.7	8.08	3.61	95.9
Weekly comments	Weather; overcast, westerly				
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	**26.7**	**8.15**	**17.3**	**104.6**
Monthly Minimums	**23.3**	**8.01**	**2.03**	**87.8**

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	23/11/2023	0940	Nil	Nil
Comments	No visible signs			
Name of inspector	S. Diamond			

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)	23/11/2023	6	<5	10b
Ammonia as N (mg/L)	23/11/2023	<0.2	<0.2	-
Total Nitrogen as N (mg/L)	23/11/2023	0.185	0.197	0.3
Total Phosphorus as P (mg/L)	23/11/2023	<0.001	<0.001	0.03
TPH (C6-C36) (µg/L)	23/11/2023	<100	<100	-
PAHs (µg/L)	23/11/2023	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	23/11/2023	~97	2	-
BTEX (Benzene) (µg/L)	23/11/2023	<1	<1	-
BTEX (Toluene) (µg/L)	23/11/2023	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	23/11/2023	<2	<2	-
BTEX (Total Xylenes) (µg/L)	23/11/2023	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	23/11/2023	<0.0002	<0.0002	0.0055d
Dissolved metals (Cromium) (mg/L)	23/11/2023	0.0007	0.0006	0.0044e
Dissolved metals (Copper) (mg/L)	23/11/2023	0.001	0.001	0.0013
Dissolved metals (Tin) (mg/L)	23/11/2023	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	23/11/2023	0.016	0.031	0.015d
Comments	RCA ref 14302-757/0			
Name of sample collector	RCA representitive - 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