Trinity Point Marina - Water Quality Monitoring

Month: Sep-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
7/09/2023	A (1) - 0929	19.7	7.99	1.54	97.3
	C (3) - 0931	19.7	7.98	2.44	95
	D (4) - 0935	20.1	7.99	2.65	92.1
	B (2) - 0938	20.7	7.96	2.21	95.9
Weekly comments	Weather; Overcast with no breeze				
Name of sample collector	S.Diamond				
13/09/2023	A (1) - 1049	20.5	8.11	1.7	104.2
	C (3) - 1054	21.5	8.12	2.01	105.2
	D (4) - 1058	21.8	8.12	1.48	102.5
	B (2) - 1101	22	8.16	1.89	104.8
Weekly comments	Weather; Sunny with no breeze				
Name of sample collector	S.Diamond				
20/09/2023	A (1) - 0907	21.89	7.96	<1	100.9
	C (3) - 0910	21.8	7.99	1.3	101.2
	D (4) - 0922	21.67	8.01	3.1	99.7
	B (2) - 0914	21.72	8.03	1.8	101.5
Weekly comments	Weather; Strong NNW wind				
Name of sample collector	S.Diamond & RCA representitive - S. King				
27/09/2023	A (1) - 1000	23.1	8.13	2.49	106.3
	C (3) - 1010	23.1	8.11	2.13	100.8
	D (4) - 1020	23.2	8.12	2.34	100.6
	B (2) - 1030	23.2	8.09	2.26	104.5
Weekly comments	Weather; Overcast 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		**23.2**	**8.16**	**2.65**	**106.3**
Monthly Minimums		**19.7**	**7.96**	**<1**	**92.1**

Weekly monitoring testing for duration of EPA licence 20631

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	27/09/2023	1040	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)	20/09/2023	12	9	10b
Ammonia as N (mg/L)	20/09/2023	<0.10	<0.20	-
Total Nitrogen as N (mg/L)	20/09/2023	0.227	0.202	0.3
Total Phosphorus as P (mg/L)	20/09/2023	0.004	<0.001	0.03
TPH (C6-C36) (µg/L)	20/09/2023	<100	<100	-
PAHs (µg/L)	20/09/2023	<0.5	<0.5	-
Thermotolerant coliforms (cfu/100mL)	20/09/2023	73	68	-
BTEX (Benzene) (µg/L)	20/09/2023	<1	<1	-
BTEX (Toluene) (µg/L)	20/09/2023	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	20/09/2023	<2	<2	-
BTEX (Total Xylenes) (µg/L)	20/09/2023	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	20/09/2023	<0.0002	<0.0002	0.0055d
Dissolved metals (Cromium) (mg/L)	20/09/2023	0.0006	<0.0005	0.0044e
Dissolved metals (Copper) (mg/L)	20/09/2023	0.001	0.001	0.0013
Dissolved metals (Tin) (mg/L)	20/09/2023	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	20/09/2023	0.017	0.016	0.015d
Comments	RCA ref 14302-756/0			
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