

Trinity Point Marina - Water Quality Monitoring



Month:

May-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
5/05/2023	A (1) - 0915	21.8	8.04	3.01	equip error ^a
	C (3) - 0925	20.2	7.89	3.24	equip error ^a
	D (4) - 0935	20.1	7.83	3.15	equip error ^a
	B (2) - 0945	20.3	7.61	3.45	equip error ^a
Weekly comments	DO machine error (machine sent for repair and recalibration post testing)				
Name of sample collector		R. Wilson			

12/05/2023	A (1) - 1012	18.7	8.17	1.47	equip error ^a
	C (3) - 1019	18.6	7.74	<1	equip error ^a
	D (4) - 1025	19.4	7.96	1.01	equip error ^a
	B (2) - 1029	19.1	7.99	1.51	equip error ^a
Weekly comments	Weather; Fine (DO machine still in for repair and recalibration)				
Name of sample collector		J. Thomson			

18/05/2023	A (1) - 0907	18.45	7.85	13.3	83.6
	C (3) - 0918	18.49	7.96	12.1	84.1
	D (4) - 0924	18.62	8.94	9.4	86.6
	B (2) - 0914	18.58	7.87	12.4	86.2
Weekly comments					
Name of sample collector		S.Diamond + RCA representative - S. King			

24/05/2023	A (1) - 0905	18.3	8.29	3.24	equip error ^a
	C (3) - 0910	18.8	8.17	3.83	equip error ^a
	D (4) - 0915	18.9	8.15	2.28	equip error ^a
	B (2) - 0920	18.7	8.18	1.66	equip error ^a
Weekly comments	Weather; Fine (DO machine still in for repair and recalibration)				
Name of sample collector		S.Diamond			

	A (1) -				
	C (3) -				
	D (4) -				
	B (2) -				
Weekly comments					
Name of sample collector					

Monthly Maximums	21.8	8.94	13.3	86.6
Monthly Minimums	18.3	7.61	<1	83.6

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	24/05/2023	0930	Nil	Nil
Comments	No visible signs			
Name of inspector		S.Diamond		

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

Weekly monitoring testing for duration of EPA licence 20631

Monthly

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Month:

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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)	18/05/2023	<5	<5	10b
Ammonia as N (mg/L)	18/05/2023	<0.10	<0.10	-
Total Nitrogen as N (mg/L)	18/05/2023	0.207	0.191	0.3
Total Phosphorus as P (mg/L)	18/05/2023	0.003	0.006	0.03
TPH (C6-C36) (µg/L)	18/05/2023	<50	<50	-
PAHs (µg/L)	18/05/2023	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	18/05/2023	~6	~3	-
BTEX (Benzene) (µg/L)	18/05/2023	<1	<1	-
BTEX (Toluene) (µg/L)	18/05/2023	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	18/05/2023	<2	<2	-
BTEX (Total Xylenes) (µg/L)	18/05/2023	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	18/05/2023	<0.0002	<0.0002	0.0055d
Dissolved metals (Cromium) (mg/L)	18/05/2023	<0.0005	<0.0005	0.0044e
Dissolved metals (Copper) (mg/L)	18/05/2023	0.002	0.002	0.0013
Dissolved metals (Tin) (mg/L)	18/05/2023	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	18/05/2023	0.028	0.018	0.015d
Comments	RCA ref 14302-751/0			
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)

^aValues sourced from table 3.3.2 of ANZECC guidelines (2000) unless otherwise stated; only 95% trigger values are represented

^bSourced from table 4.4.2 of ANZECC guidelines (2000)

^cSpecies for which possible bioaccumulation and secondary poisoning effects should be considered

^dFigure may not protect key test species from chronic toxicity

^eValue given specifically for Cr(IV)

^fAnalyte corresponds to "Total Phosphorus" referred to in ANZECC guidelines (2000)

^gElevated measurement is unlikely to be related to construction activities

^wrepresents a wet weather monitoring event