Trinity Point Marina - Water Quality Monitoring

Month: Oct-22

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
7/10/2022	A (1) - 0925	19.4	8.1	1.21	97
	C (3) - 0931	19.6	8.03	1.88	111.5
	D (4) - 0934	21.2	8.03	2.05	94.5
	B (2) - 0938	20.6	8.06	1.82	92.4
Weekly comments	Weather; no wind, rain night before				
Name of sample collector	S.Diamond				
12/10/2022	A (1) - 0942	19.7	8.08	2.28	87.2
	C (3) - 0948	20.2	7.89	1.94	81.5
	D (4) - 0952	20.4	8.03	2.13	84.3
	B (2) - 0956	21.9	8.01	1.79	80.1
Weekly comments	Weather; Overcast with rain and no breeze				
Name of sample collector	S.Diamond				
19/10/2022	A (1) - 0949	22	8.08	1.36	78.8
	C (3) - 0953	22.4	8.11	1.02	80.9
	D (4) - 0957	22.2	8.1	<1	77.7
	B (2) - 1003	22.2	8.12	1.07	77.9
Weekly comments	Weather; Overcast and raining				
Name of sample collector	S. Luker & S.Diamond				
27/10/2022	A (1) - 0913	23.3	7.91	8.8	90.3
	C (3) - 0920	23.3	7.97	3.9	92.7
	D (4) - 0924	23.2	7.93	4.4	91.9
	B (2) - 0929	23.3	7.98	6.1	84
Weekly comments	Weather; Sunny, light NW wind				
Name of sample collector	G. Day + RCA representitive - S. King				
	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	**23.3**	**8.12**	**8.8**	**111.5**
Monthly Minimums	**19.4**	**7.89**	**<1**	**77.7**

Other	Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection	27/10/2022	940	Nil	Nil
Comments	No visible signs			
Name of inspector	Garry Day			

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)	27/10/2022	<5	<5	10b
Ammonia as N (mg/L)	27/10/2022	<0.005	<0.005	-
Total Nitrogen as N (mg/L)	27/10/2022	0.215	0.154	0.3
Total Phosphorus as P (mg/L)	27/10/2022	0.003	0.003	0.03
TPH (C6-C36) (µg/L)	27/10/2022	<50	<50	-
PAHs (µg/L)	27/10/2022	<0.5	<0.5	-
Thermotolerant coliforms (cfu/100mL)	27/10/2022	6	12	-
BTEX (Benzene) (µg/L)	27/10/2022	<1	<1	-
BTEX (Toluene) (µg/L)	27/10/2022	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	27/10/2022	<2	<2	-
BTEX (Total Xylenes) (µg/L)	27/10/2022	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	27/10/2022	<0.0002	<0.0002	0.0055d
Dissolved metals (Cromium) (mg/L)	27/10/2022	<0.0005	<0.0005	0.0044e
Dissolved metals (Copper) (mg/L)	27/10/2022	0.005	0.002	0.0013
Dissolved metals (Tin) (mg/L)	27/10/2022	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	27/10/2022	0.018	0.007	0.015d
Comments	RCA ref 14302-745/0			
Name of sample collector	S. King			

Up to 10 times per year until March 2025 in regard DA/1503/2014/C and 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