Trinity Point Marina - Water Quality Monitoring

JOHNSON PROPERTY GROUP

Month: Apr-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
5/04/2023	A (1) - 1125	24.8	8.32	2.87	72.4
	C (3) - 1130	24.9	8.33	2.15	76.6
	D (4) - 1135	25	8.33	1.41	78.3
	B (2) - 1140	25	8.28	1.26	76.5
Weekly comments	Weather; Sunny, overcast with slight NE breeze				
Name of sample collector	S.Diamond & Rob				
12/04/2023	A (1) - 1100	21.7	8.1	3.07	71.2[a]
	C (3) - 1105	21.7	8.09	3.09	68.6[a]
	D (4) - 1110	21.8	8.1	3.37	68[a]
	B (2) - 1115	21.8	8.05	3.11	66.7[a]
Weekly comments	Weather; 0vercast				
Name of sample collector	S.Diamond				
21/04/2023	A (1) - 1100	21.7	8.08	2.42	63.7[a]
	C (3) - 1105	21.8	8.04	2.47	66.5[a]
	D (4) - 1110	21.8	8.01	2.13	65.9[a]
	B (2) - 1115	21.8	8.02	1.82	64[a]
Weekly comments	Weather; 0vercast				
Name of sample collector	S.Diamond				
26/04/2023	A (1) - 0935	21.5	7.93	13.5	82.1
	C (3) - 0945	21.7	7.94	10.5	94.5
	D (4) - 0955	21.8	7.95	2.5	88.5
	B (2) - 1005	21.8	7.96	9.3	83.5
Weekly comments	Weather; 0vercast				
Name of sample collector	S.Diamond & 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		25.0	8.33	13.5	94.5
Monthly Minimums		21.5	7.93	1.26	63.7[a]

Other		Date	Time	Location E (5)	Location F (6)
Oil and grease visual inspection		26/04/2023	1015	Nil	Nil
Comments	No visable signs				
Name of inspector	S King & 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)	26/04/2023	<5	<5	10b
Ammonia as N (mg/L)	26/04/2023	<0.10	<0.10	-
Total Nitrogen as N (mg/L)	26/04/2023	0.215	0.199	0.3
Total Phosphorus as P (mg/L)	26/04/2023	0.001	<0.001	0.03
TPH (C6-C36) (µg/L)	26/04/2023	<50	<50	-
PAHs (µg/L)	26/04/2023	<1.0	<1.0	-
Thermotolerant coliforms (cfu/100mL)	26/04/2023	16	<1	-
BTEX (Benzene) (µg/L)	26/04/2023	<1	<1	-
BTEX (Toluene) (µg/L)	26/04/2023	<2	<2	-
BTEX (Ethylbenzene) (µg/L)	26/04/2023	<2	<2	-
BTEX (Total Xylenes) (µg/L)	26/04/2023	<2	<2	-
Dissolved metals (Cadmium) (mg/L)	26/04/2023	<0.0002	<0.0002	0.0055d
Dissolved metals (Cromium) (mg/L)	26/04/2023	<0.0005	<0.0005	0.0044e
Dissolved metals (Copper) (mg/L)	26/04/2023	0.001	0.002	0.0013
Dissolved metals (Tin) (mg/L)	26/04/2023	<0.005	<0.005	-
Dissolved metals (Zinc) (mg/L)	26/04/2023	0.011	0.017	0.015d
Comments	RCA ref 14302-750/0			
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