

Taronga Zoo holds an Environment Protection Licence (EPL #: 1677) to discharge water into Sydney Harbour. This licence is issued under the Protection of the Environment Operations Act 1997 (POEO Act).

In accordance with section 66(6) of the Act, Taronga is required to publish pollution monitoring results. The intention of this requirement is to improve the general public's access to information about the environmental performance of licensed facilities.



EPL number	1677
Licensee	ZOOLOGICAL PARKS BOARD OF NSW (trading as Taronga Conservation Society Australia)
Site	Taronga Zoo
Premises address	Bradleys Head Road, Mosman, NSW 2088
Activity	Taronga Water Recycling Plant (EPL Monitoring Point 4) Great Southern Oceans Exhibit (EPL Monitoring Point 2)
Web link	Taronga EPL 1677 details on NSW EPA Public Register Note for Internet Explorer 10 users: Some functionality on this website is currently not compatible with Internet Explorer 10. If you find that functionality on this website is unresponsive, you can try running your browser in compatibility mode: Open Internet Explorer 10 Press 'ALT' key on your keyboard to bring up the top menu. Then, go to Tools > Developer Tools. This will bring up the IE developer tools menu. Select IE9 or IE8 from this menu.

Date sampled	02 April 2020 – Monitoring Point 2 & 4				
Data obtained by Licensee	09 April 2020 – Monitoring Point 2 & 4				
Monitoring Point	Frequency	Pollutant	Measurement	Limit	Unit
2	Monthly frequency	pH	7.8	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
4	Monthly frequency	pH	7.94	6.5-8.5	-
		TSS	8	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	07 May 2020 – Monitoring Point 2 & 4				
Data obtained by Licensee	14 May 2020 – Monitoring Point 2 & 4				
Monitoring Point	Frequency	Pollutant	Measurement	Limit	Unit
2	Monthly frequency	pH	7.81	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
4	Monthly frequency	pH	7.89	6.5-8.5	-
		TSS	9	20	mg/L
		BOD	2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	10 June 2020 –Point 2 & 4				
Data obtained by Licensee	17 June 2020 –Point 2 & 4				
EPL monitoring point	Frequency	Pollutant	Measurement	Limit	Unit
2	Monthly frequency	pH	7.79	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	2	20	mg/L
4	Monthly frequency	pH	7.82	6.5-8.5	-
		TSS	18	20	mg/L
		BOD	3	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	2 July 2020 –Point 2 & 4				
Data obtained by Licensee	9 July 2020 –Point 2 & 4				
EPL monitoring point	Frequency	Pollutant	Measurement	Limit	Unit
2	Monthly frequency	pH	7.71	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
4	Monthly frequency	pH	7.75	6.5-8.5	-
		TSS	12	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	12 August 2020 –Point 2 & 4				
Data obtained by Licensee	21 August 2020 –Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.78	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.84	6.5-8.5	-
		TSS	14	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	27 August 2020 –Point 2				
Data obtained by Licensee	2 September 2020				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.93	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L

Date sampled	10 September 2020 –Point 2 & 4				
Data obtained by Licensee	17 September 2020–Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.81	6.5-8.5	-
		TSS	10	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.78	6.5-8.5	-
		TSS	15	20	mg/L
		BOD	2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	24 September 2020 –Point 2				
Data obtained by Licensee	30 September 2020 - Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.65	6.5-8.5	-
		TSS	16	50	mg/L
		BOD	2	20	mg/L

Date sampled	8 October 2020 –Point 2 & 4				
Data obtained by Licensee	15 October 2020–Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.95	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.87	6.5-8.5	-
		TSS	12	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	22 October 2020 –Point 2				
Data obtained by Licensee	29 th October 2020- Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.54	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L

Date sampled	5 November 2020 –Point 2 & 4				
Data obtained by Licensee	12 November 2020–Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.98	6.5-8.5	-
		TSS	9	50	mg/L
		BOD	3	20	mg/L
4	Monthly	pH	8.33	6.5-8.5	-
		TSS	15	20	mg/L
		BOD	16*	15	mg/L
		Enterococci	~1	40	CFU/100mL

**Sample taken at discharge and monitoring point 4 (water recycling plant) on 5th November 2020 measured 16 mg/L of BOD. The BOD concentration limit stipulated in the licence is 15 mg/L. Investigations have found that there were no abnormalities in the process on the 5th November that could potentially lead to the elevated level. Because the limit was only exceeded by 1 mg/L, a likely explanation may be sampling/and or analysis error.*

Date sampled	19 November 2020 –Point 2				
Data obtained by Licensee	26 November 2020- Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	6.98	6.5-8.5	-
		TSS	13	50	mg/L
		BOD	<2	20	mg/L

Date sampled	3 December 2020 –Point 2 & 4				
Data obtained by Licensee	10 December 2020–Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.83	6.5-8.5	-
		TSS	28	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.87	6.5-8.5	-
		TSS	8	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	17 December 2020 –Point 2				
Data obtained by Licensee	24 December 2020- Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.80	6.5-8.5	-
		TSS	12	50	mg/L
		BOD	<2	20	mg/L

Date sampled	7 th January 2021 –Point 2 & 4				
Data obtained by Licensee	13 th January 2021–Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.94	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.62	6.5-8.5	-
		TSS	14	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	21 st January 2021 –Point 2				
Data obtained by Licensee	28 th January 2021- Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.89	6.5-8.5	-
		TSS	17	50	mg/L
		BOD	<2	20	mg/L

Date sampled	4 th Feb 2021 –Point 2 & 4				
Data obtained by Licensee	11 th Feb 2021–Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.68	6.5-8.5	-
		TSS	6	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	6.87	6.5-8.5	-
		TSS	7	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	18 February 2021 –Point 2				
Data obtained by Licensee	25 February 2021- Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.73	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L

Date sampled	4 th March 2021 –Point 2 & 4				
Data obtained by Licensee	16 th March 2021–Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.74	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.93	6.5-8.5	-
		TSS	10	20	mg/L
		BOD	3	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	18 March 2021 –Point 2				
Data obtained by Licensee	25 March 2021- Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.74	6.5-8.5	-
		TSS	8	50	mg/L
		BOD	2	20	mg/L

Date sampled	1 st April 2021 –Point 2 & 4				
Data obtained by Licensee	9 th April 2021–Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.88	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.92	6.5-8.5	-
		TSS	<5	20	mg/L
		BOD	2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	15 th April 2021 – Point 2				
Data obtained by Licensee	22 nd April 2021- Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	8.07	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L

Date sampled	29 th Apr 2021 – Point 2 & 4				
Data obtained by Licensee	7 th May 2021– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.84	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.59	6.5-8.5	-
		TSS	<5	20	mg/L
		BOD	11	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	13 May 2021 –Point 2				
Data obtained by Licensee	20 May 2021- Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.73	6.5-8.5	-
		TSS	26	50	mg/L
		BOD	3	20	mg/L

Date sampled	26 May 2021 –Point 2				
Data obtained by Licensee	2 June 2021- Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.98	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	5	20	mg/L

Date sampled	15 th June 2021 – Point 2 & 4				
Data obtained by Licensee	22 nd June 2021– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.78	6.5-8.5	-
		TSS	14	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.83	6.5-8.5	-
		TSS	13	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	29 th June 2021 - Point 2				
Data obtained by Licensee	7 th July 2021 - Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.58	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L

Date sampled	13 th July 2021 – Point 2 & 4				
Data obtained by Licensee	20 th July 2021– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.76	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.76	6.5-8.5	-
		TSS	10	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	27 th July 2021 - Point 2				
Data obtained by Licensee	3 rd Aug 2021 - Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.89	6.5-8.5	-
		TSS	6	50	mg/L
		BOD	<2	20	mg/L

Date sampled	10 Aug 2021- Point 2				
Data obtained by Licensee	17 Aug 2021- Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	6.9	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L

Point 4 samples were cancelled because the WWTP was switched-off for cleaning. Samples will be conducted at WWTP in mid to late August.

Date sampled	24 th Aug 2021 – Point 2 & 4				
Data obtained by Licensee	30 th August 2021– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.30	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	3	20	mg/L
4	Monthly	pH	6.56	6.5-8.5	-
		TSS	36*	20	mg/L
		BOD	4	15	mg/L
		Enterococci	<1	40	CFU/100mL
*The likely cause of TSS exceedance was heavy rain (30+mm) and water flow through the system increasing significantly. The clarifier had just been restarted from a major clean, and probably the increase of the flow induced wash out of some sludge remains.					

Date sampled	7 th Sep 2021 – Point 2				
Data obtained by Licensee	14 th Sep 2021 - Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.95	6.5-8.5	-
		TSS	20	50	mg/L
		BOD	<2	20	mg/L

Date sampled	21 st Sep 2021 – Point 2 & 4				
Data obtained by Licensee	28 th Sep 2021– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	8.01	6.5-8.5	-
		TSS	36	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.77	6.5-8.5	-
		TSS	<5	20	mg/L
		BOD	2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	5 th Oct 2021 – Point 2				
Data obtained by Licensee	11 th Sep 2021 - Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	6.79	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L

Date sampled	19 th Oct 2021 – Point 2 & 4				
Data obtained by Licensee	26 th Oct 2021– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.86	6.5-8.5	-
		TSS	12	50	mg/L
		BOD	2	20	mg/L
4	Monthly	pH	7.64	6.5-8.5	-
		TSS	8	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	2 nd Nov 2021 – Point 2				
Data obtained by Licensee	10 th Nov 2021 - Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.75	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L

Date sampled	16 th Nov 2021 – Point 2 & 4				
Data obtained by Licensee	23 rd Nov 2021– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	8.01	6.5-8.5	-
		TSS	8	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.95	6.5-8.5	-
		TSS	12	20	mg/L
		BOD *	32	15	mg/L
		Enterococci	<1	40	CFU/100mL

*Sample showed elevated levels of Biochemical Oxygen Demand at point 4 (Water treatment plant). The reading was 32 mg/L and the Licence stipulates a limit of 15 mg/L. On that day, other parameters like TSS and enterococci were within the limits stipulated in our Licence. There

weren't any signs of water quality deteriorating on the sampling day nor on the day before. We have investigated potential causes for the elevated BOD, and believe the likely cause is that stagnant water in 'Styx yard tanks' had an unscheduled clean and drop, and this caused high BOD at the WWTP when this water was dropped. Therefore, is considered a 'once off' incident (it is worth noting that we have not had an exceedance of BOD for several years besides one sampling error). To prevent reoccurrence, we will drain these 'Styx yard tanks' more frequently to allow water to better exchange. Because BOD correlates with TSS, we are ensuring that TSS is in normal range, for example by checking UV intensity parameters at the discharge Point 4 UV system. In terms of our WWTP equipment, all systems are running as normal and no faults have been reported.

Date sampled	30th Nov 2021 – Point 2				
Data obtained by Licensee	7 th Dec 2021 - Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.66	6.5-8.5	-
		TSS	9	50	mg/L
		BOD	2	20	mg/L

Date sampled	14 th Dec 2021 – Point 2 & 4				
Data obtained by Licensee	22 nd Dec 2021– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	8.17	6.5-8.5	-
		TSS	19	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.96	6.5-8.5	-
		TSS	13	20	mg/L
		BOD	2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	21 st Dec 2021 – Point 2				
Data obtained by Licensee	30 th Dec 2021 - Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.44	6.5-8.5	-
		TSS	23	50	mg/L
		BOD	<2	20	mg/L

Date sampled	11 th Jan 2022 – Point 2 & 4				
Data obtained by Licensee	18 th Jan 2022– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.68	6.5-8.5	-
		TSS	64*	50	mg/L
		BOD	5	20	mg/L
4	Monthly	pH	8	6.5-8.5	-
		TSS	<5	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL
*Sample showed elevated levels of Total Suspended Solids. On that day, other parameters like pH and BOD were within the limits stipulated in our Licence. Enterococci levels at Point 2 were also low, at 12 CFU/100mL. We have investigated the potential cause of the elevated TSS and found that there was no process changes or functional issues that could cause exceedance in TSS on that day. Therefore, is considered a 'once off' incident or sampling error. In terms of our existing equipment, all systems are running as normal and no faults have been reported.					

Date sampled	25th Jan 2022 – Point 2				
Data obtained by Licensee	1 st Feb 2022 - Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.89	6.5-8.5	-
		TSS	10	50	mg/L
		BOD	2	20	mg/L

Date sampled	8 th Feb 2022 – Point 2 & 4				
Data obtained by Licensee	14 th Feb 2022– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.55	6.5-8.5	-
		TSS	12	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.49	6.5-8.5	-
		TSS	8	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	22 nd Feb 2022 – Point 2				
Data obtained by Licensee	28 th Feb 2022 - Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	8.25	6.5-8.5	-
		TSS	10	50	mg/L
		BOD	<2	20	mg/L

Date sampled	8 th March 2022 – Point 2 & 4				
Data obtained by Licensee	15 th March 2022– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	8.25	6.5-8.5	-
		TSS	41	50	mg/L
		BOD	5	20	mg/L
4	Monthly	pH	8.29	6.5-8.5	-
		TSS	15	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	~4	40	CFU/100mL

Date sampled	22 nd March 2022 – Point 2				
Data obtained by Licensee	29 th March 2022 - Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.93	6.5-8.5	-
		TSS	30	50	mg/L
		BOD	<2	20	mg/L

Date sampled	5 th April 2022 – Point 2 & 4				
Data obtained by Licensee	12 th April 2022– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.81	6.5-8.5	-
		TSS	6	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	8.15	6.5-8.5	-
		TSS	14	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	19 th April 2022 – Point 2				
Data obtained by Licensee	26 th April 2022 - Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	8.43	6.5-8.5	-
		TSS	20	50	mg/L
		BOD	2	20	mg/L

Date sampled	3 rd May 2022 – Point 2 & 4				
Data obtained by Licensee	10 th May 2022– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.67	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.89	6.5-8.5	-
		TSS	<5	20	mg/L
		BOD	2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	17 th May 2022 – Point 2				
Data obtained by Licensee	26 th May 2022 - Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.97	6.5-8.5	-
		TSS	13	50	mg/L
		BOD	<2	20	mg/L

Date sampled	31 st May 2022– Point 2 & 4				
Data obtained by Licensee	8 th June 2022– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.49	6.5-8.5	-
		TSS	12	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	8.0	6.5-8.5	-
		TSS	6	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	14 th June 2022 – Point 2				
Data obtained by Licensee	21 st June 2022 - Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.63	6.5-8.5	-
		TSS	24	50	mg/L
		BOD	<2	20	mg/L

Date sampled	28 th June 2022– Point 2 & 4				
Data obtained by Licensee	5 th Jul 2022– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.60	6.5-8.5	-
		TSS	16	50	mg/L
		BOD	2	20	mg/L
4	Monthly	pH	7.58	6.5-8.5	-
		TSS	6	20	mg/L
		BOD	2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	12 th Jul 2022 – Point 2				
Data obtained by Licensee	19 th Jul 2022 - Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	8	6.5-8.5	-
		TSS	30	50	mg/L
		BOD	<2	20	mg/L

Date sampled	26 th Jul 2022– Point 2 & 4				
Data obtained by Licensee	2 nd Aug 2022– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.8	6.5-8.5	-
		TSS	14	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.93	6.5-8.5	-
		TSS	10	20	mg/L
		BOD	3	15	mg/L

		Enterococci	~1	40	CFU/100mL
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Date sampled	9 th Aug 2022 – Point 2				
Data obtained by Licensee	16 th Aug 2022 - Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.85	6.5-8.5	-
		TSS	35	50	mg/L
		BOD	2	20	mg/L

Date sampled	23 rd Aug 2022 – Point 2 & 4				
Data obtained by Licensee	30 th Aug 2022– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.92	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	2	20	mg/L
4	Monthly	pH	7.91	6.5-8.5	-
		TSS	26*	20	mg/L
		BOD	2	15	mg/L
		Enterococci	<1	40	CFU/100mL

*Point 4 measured 26mg/L for Total Suspended Solids, whereas the limit stipulated on our Licence is 20mg/L. Cause of this slight exceedance was investigated and believed to be related to a blockage of the Rotork valve at the Water Treatment Plant. Just prior to the sampling event this blockage was detected, and the blocked valve was unblocked which restored normal flow to the downstream treatment system. During and after pipe unblockage there was increased velocities of water to the buffer tank and then to sampling Point 4. The tail of this 'first flash' was captured in the sampling event.

Date sampled	6 th Sep 2022 - Point 2				
Data obtained by Licensee	13 th Sep 2022 - Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.98	6.5-8.5	-
		TSS	14	50	mg/L
		BOD	2	20	mg/L

Date sampled	20 th Sep 2022 – Point 2 & 4				
Data obtained by Licensee	28 th Sep 2022– Point 2 & 4				

EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.95	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.78	6.5-8.5	-
		TSS	8	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	4 th Oct 2022 - Point 2				
Data obtained by Licensee	11 th Oct 2022 - Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.69	6.5-8.5	-
		TSS	10	50	mg/L
		BOD	2	20	mg/L

Date sampled	20 th October 2022 – Point 2 & 4				
Data obtained by Licensee	27 th October 2022– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.89	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.85	6.5-8.5	-
		TSS	14	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	1 st November 2022 – Point 2 & 4				
Data obtained by Licensee	8 th November 2022– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit

2	Fortnightly	pH	7.94	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.85	6.5-8.5	-
		TSS	14	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	15th November 2022 – Point 2 & 4				
Data obtained by Licensee	22nd November 2022– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.69	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	8.01	6.5-8.5	-
		TSS	13	20	mg/L
		BOD	2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	30th November 2022 – Point 2				
Data obtained by Licensee	7 th December 2022– Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.82	6.5-8.5	-
		TSS	47	50	mg/L
		BOD	22	20	mg/L

Date sampled	13 th December 2022 – Point 2 & 4				
Data obtained by Licensee	20 th December 2022– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	8.00	6.5-8.5	-
		TSS	5	50	mg/L

		BOD	<2	20	mg/L
4	Monthly	pH	7.9	6.5-8.5	-
		TSS	20	20	mg/L
		BOD	3	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	17 th January 2023 – Point 2 & 4				
Data obtained by Licensee	23 rd January 2023– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.93	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.78	6.5-8.5	-
		TSS	13	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	31 st January 2023 – Point 2				
Data obtained by Licensee	7 th February 2023– Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	8.01	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L

Date sampled	14 th February 2023 – Point 2 & 4				
Data obtained by Licensee	21 st February 2023– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.99	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	8.06	6.5-8.5	-
		TSS	<5	20	mg/L

		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	28 th February 2023 – Point 2				
Data obtained by Licensee	7 th March 2023– Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.79	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L

Date sampled	14 th March 2023 – Point 2 & 4				
Data obtained by Licensee	21 st March 2023– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.87	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.82	6.5-8.5	-
		TSS	<5	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	28 th March 2023 – Point 2				
Data obtained by Licensee	3 rd April 2023– Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.91	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L

Date sampled	11 th April 2023 – Point 2				
Data obtained by Licensee	17 th April 2023– Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.78	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L

Date sampled	12 th April 2023 – Point 2				
Data obtained by Licensee	18 th April 2023– Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
4	Monthly	pH	7.65	6.5-8.5	-
		TSS	8	50	mg/L
		Enterococci	<1	40	CFU/100ml
		BOD	3	20	mg/L

Date sampled	26 th April 2023 – Point 2				
Data obtained by Licensee	2 nd May 2023– Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.89	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L

Date sampled	9 th of May 2023 – Point 2 & 4				
Data obtained by Licensee	15 th of May 2023– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.66	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.25	6.5-8.5	-
		TSS	11	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	23 th May 2023 – Point 2				
Data obtained by Licensee	30 th May 2023– Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.65	6.5-8.5	-
		TSS	10	50	mg/L
		BOD	<2	20	mg/L

Date sampled	13 th of June 2023 – Point 2 & 4				
Data obtained by Licensee	19 th of June 2023– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.37	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.32	6.5-8.5	-
		TSS	8	20	mg/L
		BOD	2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	27th June 2023 – Point 2				
Data obtained by Licensee	4th July 2023 – Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.75	6.5-8.5	-
		TSS	5	50	mg/L
		BOD	<2	20	mg/L

Date sampled	11 th of July 2023 – Point 2 & 4				
Data obtained by Licensee	1 st of August 2023 – Point 2 & 7 th of August 2023– Point 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.5	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.44	6.5-8.5	-
		TSS	9	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	25 th of July 2023 – Point 2 & 4				
Data obtained by Licensee	7 th of August 2023– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.66	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.75	6.5-8.5	-
		TSS	14	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

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Date sampled	8th August 2023 – Point 2				
Data obtained by Licensee	15th August 2023 – Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.79	6.5-8.5	-
		TSS	22	50	mg/L
		BOD	<2	20	mg/L

Date sampled	22 nd of August 2023 – Point 2 & 4				
Data obtained by Licensee	28 th of August 2023– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.83	6.5-8.5	-
		TSS	16	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.53	6.5-8.5	-
		TSS	18	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	5th September 2023 – Point 2				
Data obtained by Licensee	12th September 2023 – Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.77	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L

Date sampled	19 th of September 2023 – Point 2 & 4				
Data obtained by Licensee	26 th of September 2023– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.97	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
4	Monthly	pH	7.53	6.5-8.5	-
		TSS	16	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	3 rd of October 2023 – Point 2				
Data obtained by Licensee	9 th of October 2023– Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.64	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	17 th of October 2023 – Point 2				
Data obtained by Licensee	24 th of October 2023– Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.62	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	31st of October 2023 – Point 2				
Data obtained by Licensee	6 th of November 2023– Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.65	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	2	20	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	14th of November 2023 – Point 2				
Data obtained by Licensee	21st of November 2023– Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.91	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	28th of November 2023 – Point 2				
Data obtained by Licensee	5th of December 2023– Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.64	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	12 th of December 2023 – Point 2 13 th of December 2023 – Point 4				
Data obtained by Licensee	19 th of December 2023 – Point 2 20 th of December 2023– Point 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.83	6.5-8.5	-
		TSS	30	50	mg/L
		BOD	<2	20	mg/L
		Enterococci	<1	40	CFU/100ml
4	Monthly	pH	7.73	6.5-8.5	-
		TSS	<5	20	mg/L
		BOD	3	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	19 th of December 2023 – Point 2 & 4				
Data obtained by Licensee	2nd of January 2024– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.57	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
		Enterococci	<1	40	CFU/100ml
4	Monthly	pH	7.32	6.5-8.5	-
		TSS	12	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	2 nd of January 2024 – Point 2 & 4				
Data obtained by Licensee	8 th of January 2024– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.77	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
		Enterococci	<1	40	CFU/100ml
4	Monthly	pH	7.61	6.5-8.5	-
		TSS	6	20	mg/L
		BOD	<2	15	mg/L

		Enterococci	<1	40	CFU/100mL

Date sampled	16 th of January 2024 – Point 2				
Data obtained by Licensee	23 rd of January 2024 – Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.76	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	30 th of January 2024 – Point 2 & 4				
Data obtained by Licensee	6 th of February 2024– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.86	6.5-8.5	-
		TSS	33	50	mg/L
		BOD	<2	20	mg/L
		Enterococci	<1	40	CFU/100ml
4	Monthly	pH	7.69	6.5-8.5	-
		TSS	<5	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	20 th of February 2024 – Point 2				
Data obtained by Licensee	26 th of February 2024 – Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.81	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	5 th of March 2024 – Point 2 & 4				
Data obtained by Licensee	12 th of March 2024– Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.73	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
		Enterococci	<1	40	CFU/100ml
4	Monthly	pH	7.7	6.5-8.5	-
		TSS	6	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	19 th of March 2024 – Point 2				
Data obtained by Licensee	27 th of March 2024 – Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.76	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	2	20	mg/L
		Enterococci	<1	40	CFU/100mL

Date sampled	2 nd of April 2024 – Point 2				
Data obtained by Licensee	8 th of April 2024 – Point 2				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Monthly	pH	7.85	6.5-8.5	-
		TSS	66*	50	mg/L
		BOD	<2	20	mg/L
		Enterococci	<1	40	CFU/100mL
*Point 2 measured 66mg/L for Total Suspended Solids, whereas the limit stipulated on our Licence is 50mg/L. Cause of this slight exceedance was investigated and believed to be due to cleaning of					

the diversion chamber and rising mains pump pit after a large rain event. We also analysed the daily water and rainfall reports. On that day, other parameters like pH, BOD and Enterococci were within the limits stipulated in our licence.

Date sampled	16 th of April 2024 – Point 2 & 4				
Data obtained by Licensee	24 th of April 2024 – Point 2 26 th of April 2024 – Point 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Fortnightly	pH	7.88	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	<2	20	mg/L
		Enterococci	<1	40	CFU/100ml
4	Monthly	pH	8.1	6.5-8.5	-
		TSS	<5	20	mg/L
		BOD	<2	15	mg/L
		Enterococci	~1	40	CFU/100mL

Date sampled	14 th of May 2024 – Point 2 & 4				
Data obtained by Licensee	20 th of May 2024 – Point 2 & 4				
EPL monitoring point	Required monitoring frequency	Pollutant	Measurement	Limit	Unit
2	Monthly	pH	7.84	6.5-8.5	-
		TSS	<5	50	mg/L
		BOD	2	20	mg/L
		Enterococci	<1	40	CFU/100ml
4	Monthly	pH	7.97	6.5-8.5	-
		TSS	6	20	mg/L
		BOD	4	15	mg/L
		Enterococci	40	40	CFU/100mL