

SEWER TREATMENT PLANTS - Environmental Compliance

01 April 2023 -31 March 2024

Kandos Sewage treatment Works

Rylstone Road Kandos NSW 2848

Environment Protection Licence: 1737

<http://www.epa.nsw.gov.au/prpoeoapp/>

Monitoring Point 3 Pollutant		pH	EC	TDS (calculated)	TSS	Chlorine total residual	Total Nitrogen	Total Phosphorus	Chlorophyll a	Oil & Grease	BOD	Faecal Coliforms	Report Generated	Comments
Limits		6.5-8.5			50	0.5	35	10		10	30			
Units			µs/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/m3	mg/L	mg/L	CFU/100mL		
Date sampled	Date results received													
12/04/2023	19/04/2023	9.4	1240	831	32	<0.2	13.4	1.82	192	<2	26	1500	21/04/2023	pH above the limit with elevated Chlorophyll a indicating algal growth. Effluent leaving the STP to enter lagoon had a pH of 7.3 on 12/04/2023
10/05/2023	19/05/2023	8.4	1290	864	22	<0.2	14.9	2.18	28	<1	15	2000	23/05/2023	
15/06/2023	22/06/2023	7.8	1500	1005	3	<0.2	26.9	4.57	18	2	<2	68	22/06/2023	
13/07/2023	20/07/2023	7.7	1640	1099	5	<0.2	24.7	4.16	<1	3	<2	18	21/07/2023	
10/08/2023	17/08/2023	8.1	1660	1112	12	<0.2	27.3	4.59	56	<2	61	1	18/08/2023	Elevated BOD under investigation
22/08/2023	28/08/2023										5		29/08/2023	Repeat sample due to BOD exception. No cause of elevated BOD found. BOD of effluent at inlet of tertiary pond was 10 mg/L on 22/08/2023
12/09/2023	20/09/2023	7.9	1670	1119	3	<0.2	26.3	3.88	4	<2	<2	1	26/09/2023	
10/10/2023	16/10/2023	8.1	1620	1118	6	<0.2	19.5	6.27	4	<2	4	230	18/10/2023	
7/11/2023	14/11/2023	8.1	1490	998	14	<0.2	18.8	6.76	6	<2	<2	38	15/11/2023	
12/12/2023	20/12/2023	10.4	1050	725	34	<0.2	6.5	0.62	123	<2	5	1	20/12/2023	pH above the limit with elevated Chlorophyll a indicating algal growth. Effluent leaving the STP to enter lagoon had a pH of 7.02 on 12/12/2023
16/01/2024	23/01/2024	10.2	1000	690	26	<0.2	8.5	0.77	207	<2	5	<1	24/01/2024	pH above the limit with elevated Chlorophyll a indicating algal growth. Effluent leaving the STP to enter lagoon had a pH of 7.35 on 16/1/2024
13/02/2024	20/02/2024	9.4	1140	787	22	<0.2	6.8	1.01	80	<2	13	85	20/02/2024	pH above the limit with elevated Chlorophyll a indicating algal growth. Effluent leaving the STP to enter lagoon had a pH of 7.36 on 13/2/2024
12/03/2024	19/03/2024	10.4	1120	773	52	<0.2	8.3	0.66	45	<2	9	1	19/03/2024	pH above the limit with elevated Chlorophyll a indicating algal growth. Effluent leaving the STP to enter lagoon had a pH of 7.08 on 12/3/2024. Elevated TSS potentially due to algae die off
No of samples taken		12	12	12	12	12	12	12	11	12	13	12		
Samples/year required by EPA		12			12	12	12	12		12	12	12		
Minimum		7.7	1000	690	3.0	0.1	6.5	0.62	4	1.0	1.0	1.0		
Average		8.8	1368	927	19.3	0.1	16.8	3.11	69	1.3	11.3	386		
Maximum		10.4	1670	1118.9	52	0.2	27.3	6.76	207	3	61	2000		
Samples within limits (%)		58			92	100	100	100		100	92			

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Monitoring Point 1		Min	Max	Average	Month within Limits (%)	No of reading taken	Number of reading required	Comments
Frequency: daily		1800 KL/Day	1800 KL/Day	1800 KL/Day	1800 KL/Day			
Limits	Report	KL	KL	KL	KL			
Units	Month Generated							
April	1/05/2023	285	646	320	100	30	30	
May	1/06/2023	294	536	324	100	31	31	
June	3/07/2023	316	673	395	100	30	30	
July	2/08/2023	366	589	403	100	30	31	
August	4/09/2023	331	521	376	100	31	31	
September	4/10/2023	316	715	364	100	30	30	
October	6/11/2023	287	693	349	100	31	31	
November	5/12/2023	233	454	284	100	30	30	
December	2/01/2024	223	478	290	100	31	31	
January	6/02/2024	310	1325	503	100	31	31	
February	4/03/2024	285	917	391	100	29	29	
March	9/04/2024	281	588	391	100	31	31	