

SEWER TREATMENT PLANTS - Environmental Compliance

01 April 2019 -31 March 2020

Kandos Sewage treatment Works
Rylstone Road Kandos NSW 2848

Environment Protection Licence: 1737

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

Monitoring Point 3		pH	EC	TDS (calculated)	TSS	Chlorine total residual	Total Nitrogen	Total Phosphorus	Chlorophyll a	Oil & Grease	BOD	Faecal Coliforms	Report Generated	Comments
Pollutant		6.5-8.5			50	0.5	35	10		10	30			
Limits			µs/cm	mg/L	mg/L	mg/L	mg/L	mg/L	mg/m3	mg/L	mg/L	CFU/100mL		
Units														
Date sampled	Date results received													
8/04/2020	20/04/2020	9.2	966	647	60	0.2	15.7	3.00	94	3	26	60	3/08/2020	Algae growth due to warm weather
12/05/2020	20/05/2020	9	1050	704	72	0.4	19.4	3.17	341	5	26	170	3/08/2020	Algae growth due to warm weather
9/06/2020	17/06/2020	7.6	1140	764	6	0.2	20.3	3.43	3	3	38	<2	3/08/2020	
6/07/2020	13/07/2020	7.8	1220	817	3	<0.2	24.5	4.67	2	<2	4	1	3/08/2020	
11/08/2020	19/08/2020	8.0	1240	831	3	<0.2	20.6	2.87	1	<1	4	78	20/08/2020	
14/09/2020	21/09/2020	7.7	1440	965	3	<0.2	15.5	2.49	2	<2	5	<2	21/09/2020	
15/10/2020	22/10/2020	8.1	1470	985	26	0.2	16.5	3.53	36	5	8	70	22/10/2020	
18/11/2020	25/11/2020	9	1270	851	27	<0.2	9.4	2.21	37	<2	13	670	26/11/2020	Algae growth due to warm weather. Back within the licence limit by the 22nd November
16/12/2020	29/12/2020	8.6	1220	817	37	<0.2	11.5	2.62	42	<2	30	160	7/01/2021	Algae growth partially controlled with citric acid
14/01/2021	20/01/2021	9.9	1080	724	198	<0.2	21.8	3.39	420	<2	30	8	21/01/2021	Algae bloom due to warm weather. Elevated TSS due to algae material. Currently looking at alternative treatment to citric acid
11/02/2021	17/02/2021	9.5	1021	684	51	<0.2	8.6	2.82	96	<2	14	1600	18/02/2021	New treatment had only limited success in controlling pH and TSS.
15/03/2021	22/03/2021	9.2	826	553	39	<0.2	10.4	1.42	24	<2	4	1100	23/03/2021	pH still influenced by algae
No of samples taken		12	12	12	12	12	12	12	12	12	12	12		
EPA required frequency (samples per year)		Monthly (12)			Monthly (12)	Monthly (12)	Monthly (12)	Monthly (12)		Monthly (12)	Monthly (12)	Monthly (12)		
Minimum		7.6	826	553	3.0	0.1	8.6	1.42	1	1	4	1		
Average		8.6	1162	778	44	0.2	16.2	2.97	92	2	17	327		
Maximum		9.9	1470	984.9	198	0.4	24.5	4.67	420	5	38	1600		
Samples within limits (%)		42			67	100	100	100		100	75			

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Monitoring Point 1		Min	Max	Average	Month within Limits (%)	No of reading taken	Number of reading required	Comments
Frequency: daily								
Limits		1800 KL/Day	1800 KL/Day	1800 KL/Day	1800 KL/Day			
Units	Report Generated	KL	KL	KL	KL			
Month								
April	3/08/2020	304	1468	465	100	29	30	Flow meter maintenance
May	3/08/2020	294	602	380	100	31	31	
June	3/08/2020	263	512	310	100	30	30	
July	3/08/2020	238	1852	382	0	31	31	50mm of rain received in 24h
August	2/09/2020	379	1021	512	100	31	31	
September	1/10/2020	335	912	429	100	30	30	
October	2/11/2020	303	1293	446	100	31	31	
November	3/12/2020	293	611	375	100	30	30	
December	7/01/2021	296	699	372	100	31	31	
January	4/02/2021	209	1041	365	100	31	31	
February	2/03/2021	237	677	286	100	28	28	
March	1/04/2021	232	4238	655	0	31	31	104mm of rain received between 22 and 24/03/21