



# Ashford Sewage Treatment Plant

Licence Period: 1 November 2019 to 31 October 2020

EPL No. 580: Ashford Sewage Treatment Plant

Cemetery Road, Ashford 2361

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Licencee: Inverell Shire Council

Monitoring Frequency - Monthly

Sample date:	Analysis obtained:	Data published:			
	Pollutant	Units	Measurement	Limit	Exceedance (Yes/No)
12/11/2019	25/11/2019				
Monitoring Point 1	Oil and Grease	mg/L	<5	10	no
	pH	-	8.9	6.5-8.5	yes
	BOD5	mg/L	5	20	no
	Total Suspended Solids	mg/L	10	30	no
	Conductivity	µS/cm	829	-	no
	Faecal Coliforms	cfu/100ml	86	-	no
	Nitrate + Nitrite	mg/L	<0.02	-	no
	Nitrogen (ammonia)	mg/L	<0.1	-	no
	Phosphorus (total)	mg/L	6.29	-	no
	Total Kjeldhal Nitrogen	mg/L	2	-	no
	Chlorophyll 'a'	µg/L	19	-	no
Monitoring Point 2	pH	-	8.2	6.5-8.5	no
	BOD5	mg/L	4	20	no
	Total Suspended Solids	mg/L	6	30	no
03/12/2019	12/12/2019				
Monitoring Point 1	Oil and Grease	mg/L	7	10	no
	pH	-	8.9	6.5-8.5	yes
	BOD5	mg/L	2	20	no
	Total Suspended Solids	mg/L	3	30	no
	Conductivity	µS/cm	881	-	no
	Faecal Coliforms	cfu/100ml	1800	-	no
	Nitrate + Nitrite	mg/L	<0.02	-	no
	Nitrogen (ammonia)	mg/L	<0.01	-	no
	Phosphorus (total)	mg/L	6.27	-	no
	Total Kjeldhal Nitrogen	mg/L	2.1	-	no
	Chlorophyll 'a'	µg/L	10	-	no
Monitoring Point 2	pH	-	8	6.5-8.5	no
	BOD5	mg/L	4	20	no
	Total Suspended Solids	mg/L	3	30	no
07/01/2020	17/01/2020				
Monitoring Point 1	Oil and Grease	mg/L	<5	10	no
	pH	-	9.2	6.5-8.5	yes
	BOD5	mg/L	17	20	no
	Total Suspended Solids	mg/L	41	30	yes
	Conductivity	µS/cm	986	-	no
	Faecal Coliforms	cfu/100ml	580	-	no
	Nitrate + Nitrite	mg/L	<0.02	-	no
	Nitrogen (ammonia)	mg/L	0.1	-	no
	Phosphorus (total)	mg/L	4.4	-	no
	Total Kjeldhal Nitrogen	mg/L	4.2	-	no
	Chlorophyll 'a'	µg/L	294	-	no
Monitoring Point 2	pH	-	8.4	6.5-8.5	no
	BOD5	mg/L	7	20	no
	Total Suspended Solids	mg/L	12	30	no
04/02/2020	13/02/2020				
Monitoring Point 1	Oil and Grease	mg/L	<5	10	no
	pH	-	9.1	6.5-8.5	yes
	BOD5	mg/L	13	20	no



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			Licensee: Inverell Shire Council		
			Monitoring Frequency - Monthly		
Monitoring Point 2	Total Suspended Solids	mg/L	62	30	yes
	Conductivity	µS/cm	1024	-	no
	Faecal Coliforms	cfu/100ml	160	-	no
	Nitrate + Nitrite	mg/L	<0.02	-	no
	Nitrogen (ammonia)	mg/L	<0.01	-	no
	Phosphorus (total)	mg/L	5.12	-	no
	Total Kjeldhal Nitrogen	mg/L	4.2	-	no
	Chlorophyll 'a'	µg/L	197	-	no
	pH	-	8.7	6.5-8.5	yes
	BOD5	mg/L	10	20	no
Total Suspended Solids	mg/L	19	30	no	
Sample date: 03/03/2020		Analysis obtained: 13/03/2020		Data published: 20/03/2020	
Monitoring Point 1	Pollutant	Units	Measurement	Limit	Exceedance (Yes/No)
	Oil and Grease	mg/L	<5	10	no
	pH	-	9.2	6.5-8.5	yes
	BOD5	mg/L	10	20	no
	Total Suspended Solids	mg/L	36	30	yes
	Conductivity	µS/cm	852	-	no
	Faecal Coliforms	cfu/100ml	~68	-	no
	Nitrate + Nitrite	mg/L	<0.02	-	no
	Nitrogen (ammonia)	mg/L	<0.1	-	no
	Phosphorus (total)	mg/L	4.7	-	no
Total Kjeldhal Nitrogen	mg/L	3.7	-	no	
Chlorophyll 'a'	µg/L	190	-	no	
Monitoring Point 2	pH	-	9.3	6.5-8.5	yes
	BOD5	mg/L	12	20	no
	Total Suspended Solids	mg/L	27	30	no
Sample date: 07/04/2020		Analysis obtained: 21/04/2020		Data published: 22/04/2020	
Monitoring Point 1	Pollutant	Units	Measurement	Limit	Exceedance (Yes/No)
	Oil and Grease	mg/L	<5	10	no
	pH	-	9.3	6.5-8.5	yes
	BOD5	mg/L	6	20	no
	Total Suspended Solids	mg/L	44	30	yes
	Conductivity	µS/cm	761	-	no
	Faecal Coliforms	cfu/100ml	48	-	no
	Nitrate + Nitrite	mg/L	0.02	-	no
	Nitrogen (ammonia)	mg/L	<0.1	-	no
	Phosphorus (total)	mg/L	5.09	-	no
Total Kjeldhal Nitrogen	mg/L	4.98	-	no	
Chlorophyll 'a'	µg/L	201	-	no	
Monitoring Point 2	pH	-	9	6.5-8.5	yes
	BOD5	mg/L	6	20	no
	Total Suspended Solids	mg/L	32	30	yes
Sample date: 05/05/2020		Analysis obtained: 12/05/2020		Data published: 13/05/2020	
Monitoring Point 1	Pollutant	Units	Measurement	Limit	Exceedance (Yes/No)
	Oil and Grease	mg/L	<5	10	no
	pH	-	8.7	6.5-8.5	yes
	BOD5	mg/L	13	20	no
	Total Suspended Solids	mg/L	28	30	no
	Conductivity	µS/cm	786	-	no
	Faecal Coliforms	cfu/100ml	12	-	no
	Nitrate + Nitrite	mg/L	<0.01	-	no
Nitrogen (ammonia)	mg/L	<0.1	-	no	



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			Licensee: Inverell Shire Council			
			Monitoring Frequency - Monthly			
Monitoring Point 2	Phosphorus (total)	mg/L	6.85	-	no	
	Total Kjeldhal Nitrogen	mg/L	3.7	-	no	
	Chlorophyll 'a'	µg/L	120	-	no	
	pH	-	9	6.5-8.5	yes	
	BOD5	mg/L	15	20	no	
	Total Suspended Solids	mg/L	21	30	no	
Sample date: 02/06/2020		Analysis obtained: 17/06/2020		Data published: 23/06/2020		
Monitoring Point 1	Pollutant	Units	Measurement	Limit	Exceedance (Yes/No)	
	Oil and Grease	mg/L	<5	10	no	
	pH	-	8	6.5-8.5	no	
	BOD5	mg/L	<2	20	no	
	Total Suspended Solids	mg/L	12	30	no	
	Conductivity	µS/cm	766	-	no	
	Faecal Coliforms	cfu/100ml	44	-	no	
	Nitrate + Nitrite	mg/L	0.24	-	no	
	Nitrogen (ammonia)	mg/L	1.11	-	no	
	Phosphorus (total)	mg/L	6.1	-	no	
	Total Kjeldhal Nitrogen	mg/L	4.96	-	no	
	Chlorophyll 'a'	µg/L	89	-	no	
	Monitoring Point 2	pH	-	8	6.5-8.5	no
		BOD5	mg/L	0	20	no
Total Suspended Solids		mg/L	6	30	no	
Sample date: 0/07/2020		Analysis obtained: 17/07/2020		Data published: 24/07/2020		
Monitoring Point 1	Pollutant	Units	Measurement	Limit	Exceedance (Yes/No)	
	Oil and Grease	mg/L	<5	10	no	
	pH	-	8.2	6.5-8.5	no	
	BOD5	mg/L	8	20	no	
	Total Suspended Solids	mg/L	14	30	no	
	Conductivity	µS/cm	715	-	no	
	Faecal Coliforms	cfu/100ml	120	-	no	
	Nitrate + Nitrite	mg/L	0.87	-	no	
	Nitrogen (ammonia)	mg/L	<0.1	-	no	
	Phosphorus (total)	mg/L	5.93	-	no	
	Total Kjeldhal Nitrogen	mg/L	1.73	-	no	
	Chlorophyll 'a'	µg/L	83	-	no	
	Monitoring Point 2	pH	-	7.9	6.5-8.5	no
		BOD5	mg/L	4	20	no
Total Suspended Solids		mg/L	6	30	no	
Sample date: 04/08/2020		Analysis obtained: 14/08/2020		Data published: 21/08/2020		
Monitoring Point 1	Pollutant	Units	Measurement	Limit	Exceedance (Yes/No)	
	Oil and Grease	mg/L	13	10	yes	
	pH	-	7.9	6.5-8.5	no	
	BOD5	mg/L	3	20	no	
	Total Suspended Solids	mg/L	3	30	no	
	Conductivity	µS/cm	718	-	no	
	Faecal Coliforms	cfu/100ml	16	-	no	
	Nitrate + Nitrite	mg/L	0.23	-	no	
	Nitrogen (ammonia)	mg/L	0.8	-	no	
	Phosphorus (total)	mg/L	7.11	-	no	
	Total Kjeldhal Nitrogen	mg/L	2.17	-	no	
	Chlorophyll 'a'	µg/L	2	-	no	
	Monitoring Point 2	pH	-	8	6.5-8.5	no
		BOD5	mg/L	5	20	no



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			Licensee: Inverell Shire Council		
			Monitoring Frequency - Monthly		
Total Suspended Solids		mg/L	3	30	no
<b>Sample date: 01/09/2020</b>		<b>Analysis obtained: 10/09/2020</b>		<b>Data published: 21/09/2020</b>	
	<b>Pollutant</b>	<b>Units</b>	<b>Measurement</b>	<b>Limit</b>	<b>Exceedance (Yes/No)</b>
Monitoring Point 1	Oil and Grease	mg/L	<5	10	no
	pH	-	8.2	6.5-8.5	no
	BOD5	mg/L	3	20	no
	Total Suspended Solids	mg/L	4	30	no
	Conductivity	µS/cm	687	-	no
	Faecal Coliforms	cfu/100ml	260	-	no
	Nitrate + Nitrite	mg/L	0.58	-	no
	Nitrogen (ammonia)	mg/L	<0.1	-	no
	Phosphorus (total)	mg/L	7.28	-	no
	Total Kjeldhal Nitrogen	mg/L	1.42	-	no
	Chlorophyll 'a'	µg/L	6	-	no
Monitoring Point 2	pH	-	7.9	6.5-8.5	no
	BOD5	mg/L	3	20	no
	Total Suspended Solids	mg/L	4	30	no
<b>Sample date: 06/10/2020</b>		<b>Analysis obtained: 11/11/2020</b>		<b>Data published: 19/11/2020</b>	
	<b>Pollutant</b>	<b>Units</b>	<b>Measurement</b>	<b>Limit</b>	<b>Exceedance (Yes/No)</b>
Monitoring Point 1	Oil and Grease	mg/L	<5	10	no
	pH	-	8.5	6.5-8.5	no
	BOD5	mg/L	4	20	no
	Total Suspended Solids	mg/L	8	30	no
	Conductivity	µS/cm	703	-	no
	Faecal Coliforms	cfu/100ml	~66	-	no
	Nitrate + Nitrite	mg/L	0.03	-	no
	Nitrogen (ammonia)	mg/L	0.13	-	no
	Phosphorus (total)	mg/L	6.18	-	no
	Total Kjeldhal Nitrogen	mg/L	1.67	-	no
	Chlorophyll 'a'	µg/L	12	-	no
Monitoring Point 2	pH	-	8	6.5-8.5	no
	BOD5	mg/L	5	20	no
	Total Suspended Solids	mg/L	<2	30	no
<b>Licence Limit Conditions</b>					
<b>L2: Concentration Limits</b>					
	<b>Pollutant</b>	<b>Units</b>	<b>90 percentile (calculated - annual)</b>	<b>90 percentile licence limit</b>	<b>Exceedance (Yes/No)</b>
Monitoring Point 1	BOD5	mg/L	10.5	20	No
	Oil & Grease	mg/L	1.4	10	No
	pH	-	9.2	6.5 - 8.5	Yes
	Total Suspended Solids	mg/L	37.6	30	Yes
<b>L3: Volume and Mass Limits</b>					
	<b>Pollutant</b>	<b>Units</b>	<b>Limit</b>	<b>Days/year over limit</b>	
Monitoring point 1	Effluent Volume	kL/day	420	0	
<b>Comments: Both the pH &amp; Total Suspended solids 90 percentile licence limits were exceeded and a likely result of the algal blooms which had taken place throughout the year</b>					

**Note:** Monthly reporting periods are excluded from the Licence Concentration Limits Conditions if:  
 a) Chlorophyll 'a' levels during that months  
 b) the liquid waste entering the maturation ponds (Monitoring Point 2)  
 analysis of Monitoring Point 1 exceed 50 µm/L and during the exceedance complies with the quality limit