



## Canowindra Sewage Treatment Plant EPL No. 1750 Monitoring Results

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Reporting Period: 1/5/2020-30/4/2021

Canowindra Sewage Treatment Plant Complaints for the reporting month  
Monitoring Results

Number of complaints	0
Pollution complaint category	0
Air	0
Water	0
Noise	0
Waste	0
Other	0

## Discharge & Monitoring Point 1

Discharge to waters discharge quality monitoring, discharge from maturation pond into channel leading to Belubula River.

### Monitoring Results – Water Quality Monitoring

Pollutant	Units of measure	July 29.7.2020 WN2006766	August 12.8.2020 WN2007114	September 23.9.2020 WN2008596	October 28.10.2020 WN2009907	November 25.11.2020 WN2010637	Limits
BOD	mg/L	19	63	15	16	16	30
Faecal Coliforms	mg/L	9800	640	~200	4000	~550	600
Nitrogen (total)	mg/L	17	20.7	20.9	15.4	8.1	30
Oil & Grease	mg/L	3	<5	<2	<2	<2	10
PH	pH	7.97	8.74	7.77	8.6	9.78	6.5-8.5
Phosphorus (total)	mg/L	4.0	4.47	5.80	5.21	2.47	10
TSS	mg/L	26	66	3	24	30	50
Nitrite	mg/L	-	-	0.50	2.62	0.66	
Nitrate	mg/l	-	-	3.96	3.88	1.72	
Conductivity	µs/cm	792	608	693	554	502	
Ammonia	mg/L	11.5	8.54	15.2	5.89	1.64	
Exceedance Yes / No		Y	Y	N	Y	Y	

Reason for exceedance: Algae bloom

## Discharge & Monitoring Point 3: Discharge to utilisation area - Canowindra Golf Club Dam

Reporting Period 1/5/2019-30/4/2020

No of samples required by license: 2 / year

### Monitoring Results

Pollutant	Units of Measure	6 monthly results 23/9/2020 WN2008596	6 monthly results 24/2/2021 WN2102398	Limits
BOD	mg/L	<2	4	30
Nitrogen (total)	mg/L	16.5	3.8	30
Oil & Grease	mg/L	<2	<2	10
pH	pH	7.56	7.78	6.5-8.5
Phosphorus (total)	mg/L	6.25	2.64	10
Faecal Coliforms	mg/L	<1	<9	600
TSS	mg/L	-	-	
Sodium Absorption Ratio	mg/L	2.17	3.4	
Ammonia	mg/L	13.1	<0.05	
Exceedance Yes / No		N	N	

Reason for exceedance: Algae Bloom

## Discharge & Monitoring Point 5 - Effluent quality monitoring, Final Maturation Pond

Reporting Period 1/5/2019-30/4/2020

No of samples required by license: 2 / year (every 6 months)

### Monitoring Results

Pollutant	Units of measure	6 monthly results 23/9/2020 WN2008596	6 monthly results 24/2/2021 WN2102398	Limits
BOD	mg/L	13	36	30
pH	pH	7.78	7.42	6.5-8.5
Nitrogen (total)	mg/L	20.6	9.3	30
Oil & Grease	mg/L	<2	3	10
Phosphorus (total)	mg/L	5.58	4.15	10
Sodium Absorption Ratio	mg/L	2.23	2.87	
Exceedance Yes/No		N	Y	

Reason for exceedance:

### Monitoring Point 6 – Effluent re-use area, soil monitoring “Cadman Property”

Reporting Period 1/5/2020-30/4/2021

No of samples required by license: 1 / year

#### Monitoring Results

Pollutant	Units of measure	No of samples required by license	No of samples you collected and analysed	Lowest Sample Value	Mean of Sample	Highest Sample Value
Available Phosphorus	mg/Kg	1/year				
Conductivity	mS/cm	1/year				
Exchangeable sodium percentage	%	1/year				
Nitrate	mg/Kg	1/year				
pH	pH	1/year				

### Monitoring Point 7 – Effluent re-use area, soil monitoring Canowindra Golf Course/Clyburn Oval

Reporting Period 1/5/2020-30/4/2021

No of samples required by license: 1 / year

#### Monitoring Results

Pollutant	Units of measure	No of samples required by license	No of samples you collected and analysed	Lowest Sample Value	Mean of Sample	Highest Sample Value
Available Phosphorus	mg/Kg	1/year				
Conductivity	mS/cm	1/year				
Exchangeable sodium percentage	%	1/year				
Nitrate	mg/Kg	1/year				
pH	pH	1/year				

## Monitoring Point 8 – Belubula River 100m downstream of Discharge Point 1

Reporting Period 1/5/2020-30/4/2021

Monitoring Results – Monthly when discharging

Pollutant	Units of Measure	July 2020 Sample WN2006766	August 2020 Sample WN2007114	September 2020 Sample WN2008347	October 2020 Sample WN2009907	November 2020 Sample WN2010637	Limits
BOD	mg/L	5	5	2	3	3	30
Conductivity	mS/cm	390	442	648	444	996	
Faecal Coliforms	CFU/100 ml	5100	270	~36	500	~360	600
Nitrate+ Nitrite (oxidised nitrogen)	mg/L	2.1	0.50	-	-	-	10
Nitrite	mg/L	-	-	<0.05	<0.05	<0.05	
Nitrate	mg/L	-	-	0.12	<0.05	0.38	
Nitrogen (total)	mg/L	3.4	1.4	0.6	1.7	1.0	30
Oil and Grease	mg/L	<2	<5	<2	4	<2	10
pH	pH	7.43	7.91	7.99	7.92	7.96	6.5-8.5
Phosphorus (total)	mg/L	0.26	0.16	0.08	0.18	0.15	10
Total suspended solids	mg/L	67	18	34	107	34	50
Exceedance Yes / No		Y	N	N	y	N	

Reason for exceedance:

## Monitoring Point 9 – Belubula River 500m upstream of Discharge Point 1 at Fisherman’s Bend

Reporting Period 1/5/2020-30/4/2021

Monitoring Results – Monthly when discharging

Pollutant	Units of Measure	July 2020 Sample WN2006766	August 2020 Sample WN2007114	September 2020 Sample WN2008347	October 2020 Sample WN2009907	November 2020 Sample WN2010637	Limits
BOD	mg/L	8	5	<2	4	3	30
Conductivity	mS/cm	280	440	666	444	991	
Faecal Coliforms	CFU/100 ml	15000	550	91	690	~730	600
Nitrate+ Nitrite (oxidised nitrogen)	mg/L	1.10	0.46	-	-	-	
Nitrite	mg/L	-	-	<0.05	<0.05	<0.05	
Nitrate	mg/L	-	-	0.11	0.31	0.39	
Nitrogen (ammonia)	mg/L	0.29	0.07	<0.05	<0.05	0.9	
Nitrogen (total)	mg/L	3.2	1.4	0.6	1.3	0.9	30
Oil and Grease	mg/L	2	<5	<2	3	<2	10
pH	pH	7.59	7.91	8.02	7.98	8	6.5-8.5

### B3 VOLUME OR MASS MONITORING SUMMARY

Reporting Period 1/5/2020-30/4/2021

#### Discharge & Monitoring Point 1

Discharge to waters Discharge quality monitoring – Daily during discharge

Unit of Measure	July 2020	August 2020	September 2020	October 2020	November 2020
Total Kl per month	5129		3476	3955	4119

Reason for exceedance:

#### Discharge & Monitoring Point 2

Volume monitoring – Downstream of humus tank - Daily during discharge

Month	No of measurements	Low (KL)	Mean (KL)	High (KL)
May	31	212	330	954
June	30	231	314	469
July	31	256	474	2026
August	N/A			
September	29	288	377	589
October	31	285	423	1074
November	30	223	426	1409

#### Discharge & Monitoring Point 4

Discharge to utilisation area

Volume monitoring–Cadman Property – Daily during discharge

Month	No of measurements	Low (KL)	Mean (KL)	High (KL)
May- Nil discharge	31	0	0	0
June – Nil discharge	30	0	0	0
July -Nil discharge	31	0	0	0
August – Nil discharge	31	0	0	0



September – Nil discharge	30	0	0	0
October – Nil discharge	31	0	0	0
November – Nil discharge	30	0	0	0
December – Nil discharge	31	0	0	0
January – Nil discharge	31	0	0	0
February – Nil discharge	28	0	0	0