



Teys Australia Wagga Wagga
Dampier Street
Wagga Wagga
NSW 2650

**Teys Australia Southern Property Pty Ltd
(Teys Australia Wagga Wagga)**

Environmental Monitoring Data Summary

Environmental Protection Licence number 2262

Executive Summary

Teys Australia Wagga Wagga is the holder of Environmental Protection Licence (EPL) 2262. This Licence is administered by the *NSW Environmental Protection Authority (EPA)*, and includes conditions relevant to the site's operation, including environmental monitoring, as is outlined in this report. All environmental monitoring results required under EPL 2262 are submitted to the *EPA* each year in a formal annual return, and interpreted, and submitted to the *NSW Department of Planning and Environment* in an Annual Environmental Management Review (AEMR).

All monitoring specified under EPL 2262 was completed in the 2018/2019 annual reporting period, which covered the period between 6 December 2018 and 5 December 2019. Monitoring has commenced for the 2019/2020 period.

Nil instances of non – compliance with any of the conditions in EPL 2262 occurred during the reporting period.

Further information is available by contacting the Teys Corporate Environmental team on (07) 3198 9000.

A full copy of EPL 2262 can be obtained on the EPA website from the following URL using the search function for licence number “2262”:

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

EPA Monitoring Point 1: Effluent quality discharge to irrigation areas

	<i>Unit of Measure</i>	<i>Monitoring frequency required by licence</i>	<i>Date of sampling</i>	<i>Date data obtained</i>	<i>Sample result</i>
Biochemical Oxygen Demand	(mg/L)	Monthly	3/1/19	30/1/19	5
			6/2/19	27/2/19	6
			6/3/19	29/3/19	14
			3/4/19	17/4/19	13
			2/5/19	24/5/19	9
			6/6/19	2/7/19	16
			3/7/19	29/7/19	7
			7/8/19	21/8/19	12
			4/9/19	24/9/19	5
			2/10/19	24/10/19	6
			6/11/19	9/12/19	4
			4/12/19	24/12/19	7
			8/01/20	24/01/20	77
			6/2/20	27/2/20	10
			4/3/20	9/4/20	12
1/4/20	23/4/20	11			

EPA Monitoring Point 4 - CFA High Irrigation Soil Monitoring Results Summary

	<i>Unit of Measure</i>	<i>Monitoring frequency required by licence</i>	<i>Date of Sampling</i>	<i>Date data obtained</i>	<i>Minimum Value</i>	<i>Mean Value</i>	<i>Maximum Value</i>
Conductivity	(dS/m)	Yearly	22/11/2019	24/01/2020	0.0152	0.14	0.28
Exchangeable Calcium	(mg/kg)	Yearly	22/11/2019	24/01/2020	226	617.40	1334
Exchangeable Magnesium	(mg/kg)	Yearly	22/11/2019	24/01/2020	64.4	178	325.62
Exchangeable Potassium	(mg/kg)	Yearly	22/11/2019	24/01/2020	132.94	265.9	543.5
Exchangeable Sodium	(mg/kg)	Yearly	22/11/2019	24/01/2020	82.8	448.5	906.2
Exchangeable Sodium Percentage	Percentage	Yearly	22/11/2019	24/01/2020	20	38.8	145
Extractable Phosphorus	(mg/kg)	Yearly	22/11/2019	24/01/2020	46	223.8	461
Nitrate	(mg/kg)	Yearly	22/11/2019	24/01/2020	1	3.1	6
Nitrogen (total)	(mg/kg)	Yearly	22/11/2019	24/01/2020	14	380.40	891
pH	pH	Yearly	22/11/2019	24/01/2020	7.1	7.58	8.00
Phosphorus (total)	(mg/kg)	Yearly	22/11/2019	24/01/2020	38	133	244
Phosphorus Sorption Capacity	(mg/kg)	Yearly	22/11/2019	24/01/2020	25	187.9	356
Total Organic Carbon	(mg/kg)	Yearly	22/11/2019	24/01/2020	1380	3895	9210

EPA Monitoring Point 6 - CFA Low Irrigation Soil Monitoring Results Summary

	<i>Unit of Measure</i>	<i>Monitoring frequency required by licence</i>	<i>Date of Sampling</i>	<i>Date data obtained</i>	<i>Minimum Value</i>	<i>Mean Value</i>	<i>Maximum Value</i>
Conductivity	(dS/m)	Yearly	22/11/2019	24/01/2020	0.132	0.29	0.77
Exchangeable Calcium	(mg/kg)	Yearly	22/11/2019	24/01/2020	470	1063.6	2040
Exchangeable Magnesium	(mg/kg)	Yearly	22/11/2019	24/01/2020	183.47	819.5	1324.4
Exchangeable Potassium	(mg/kg)	Yearly	22/11/2019	24/01/2020	183.77	254.15	453.6
Exchangeable Sodium	(mg/kg)	Yearly	22/11/2019	24/01/2020	106.95	2297.8	5014
Exchangeable Sodium Percentage	Percentage	Yearly	22/11/2019	24/01/2020	7.1	37.2	55
Extractable Phosphorus	(mg/kg)	Yearly	22/11/2019	24/01/2020	19	98.7	369
Nitrate	(mg/kg)	Yearly	22/11/2019	24/01/2020	2	19.9	111
Nitrogen (total)	(mg/kg)	Yearly	22/11/2019	24/01/2020	196	716.4	2000
pH	pH	Yearly	22/11/2019	24/01/2020	6.4	8.28	9.8
Phosphorus (total)	(mg/kg)	Yearly	22/11/2019	24/01/2020	41	95.6	216
Phosphorus Sorption Capacity	(mg/kg)	Yearly	22/11/2019	24/01/2020	78	225.4	416
Total Organic Carbon	(mg/kg)	Yearly	22/11/2019	24/01/2020	3700	8801	27000

EPA Monitoring Point 7 (Effluent discharge to 59 Hillary St, Wagga Wagga)

No data available as no discharge to this area

EPA Monitoring Point 9 Piezometer 1 CFA High Irrigation Area

	<i>Unit of Measure</i>	<i>Frequency</i>	<i>Date of sample</i>	<i>Date data received</i>	<i>Result</i>
Electrical Conductivity	(μ S/cm)	Yearly during discharge	22/11/2019	24/01/2020	1470
Nitrate	(mg/L)	Yearly during discharge	22/11/2019	24/01/2020	22
pH	pH	Yearly during discharge	22/11/2019	24/01/2020	7.3
Standing Water Level*	m (Australian Height Datum)	Yearly during discharge	22/11/2019	24/01/2020	10.3

*all levels below ground level

EPA Monitoring Point 10 - Piezometer 5 CFA High Irrigation Area

	<i>Unit of Measure</i>	<i>Frequency</i>	<i>Date of sample</i>	<i>Date data received</i>	<i>Result</i>
Electrical Conductivity	(μ S/cm)	Yearly during discharge	22/11/2019	24/01/2020	645
Nitrate	(mg/L)	Yearly during discharge	22/11/2019	24/01/2020	24
pH	pH	Yearly during discharge	22/11/2019	24/01/2020	7.3
Standing Water Level*	m (Australian Height Datum)	Yearly during discharge	22/11/2019	24/01/2020	6.5

*all levels below ground level

EPA Monitoring Point 11 - Piezometer 7 CFA Low Irrigation Area

	<i>Unit of Measure</i>	<i>Frequency</i>	<i>Date of sample</i>	<i>Date data received</i>	<i>Result</i>
Electrical Conductivity	(μ S/cm)	Yearly during discharge	22/11/2019	24/01/2020	2380
Nitrate	(mg/L)	Yearly during discharge	22/11/2019	24/01/2020	<1
pH	pH	Yearly during discharge	22/11/2019	24/01/2020	7.8
Standing Water Level*	m (Australian Height Datum)	Yearly during discharge	22/11/2019	24/01/2020	8.0

*all levels below ground level

EPA Monitoring Point 12 - Piezometer 8 CFA Low Irrigation Area

	<i>Unit of Measure</i>	<i>Frequency</i>	<i>Date of sample</i>	<i>Date data received</i>	<i>Result</i>
Electrical Conductivity	(μ S/cm)	Yearly during discharge	22/11/2019	24/01/2020	888
Nitrate	(mg/L)	Yearly during discharge	22/11/2019	24/01/2020	<1
pH	pH	Yearly during discharge	22/11/2019	24/01/2020	7.5
Standing Water Level*	m (Australian Height Datum)	Yearly during discharge	22/11/2019	24/01/2020	8.0

*all levels below ground level

EPA Monitoring Point 14 - Piezometer 9 CFA Low Irrigation Area

	<i>Unit of Measure</i>	<i>Frequency</i>	<i>Date of sample</i>	<i>Date data received</i>	<i>Result</i>
Electrical Conductivity	(μ S/cm)	Yearly during discharge	22/11/2019	24/01/2020	2160
Nitrate	(mg/L)	Yearly during discharge	22/11/2019	24/01/2020	7
pH	pH	Yearly during discharge	22/11/2019	24/01/2020	7.8
Standing Water Level*	m (Australian Height Datum)	Yearly during discharge	22/11/2019	24/01/2020	8.0

*all levels below ground level