

Blantyre Farms, Murringo Rd, Young NSW 2594
 EPA public register: <http://www.epa.nsw.gov.au/publicregister/>

EPL 1643

Effluent Volume Monitoring - Monitoring Point 2

Year	2020-2021	2021-2022	2022-2023	2023-2024
Unit of Measure	kL/day	kL/day	kL/day	kL/day
Frequency	Daily	Daily	Daily	Daily
No. of measurements	365	365	365	365
Lowest result	0	0	0	0
Mean result	46.91	50.3	29.3	35.82
Highest result	135	120	206	225

EPL 11468

Effluent Quality Monitoring - Point 3 - Yearly frequency

Date		2020-2021	2021-2022	2022-2023	2023-2024
Conductivity	µS/cm	19600	15900	13900	18500
Nitrogen - total	mg/L	1750	1340	1390	1630
pH	pH	8.08	8.07	8.15	8.16
Phosphorus - total	mg/L	32.8	32.6	17.5	19.8
Sodium Adsorption Ratio		32.1	10.1	20.8	16.8

SEP's Waste Monitoring - Point 5 - Yearly frequency

Date		2020-2021	2021-2022	2022-2023	2023-2024
Nitrogen - total	mg/kg	16300	25500	12800	34800
Phosphorus - total	mg/kg	24900	42300	34100	115000
Potassium	mg/kg	4150	2450	5540	8930
Sodium	mg/kg	1270	375	2800	4020

Groundwater monitoring - Yearly frequency

Point 7 (DHG2)

Date		2020-2021	2021-2022	2022-2023	2023-2024
Ammonia	mg/L	0.06	<0.01	<0.01	0.14
Conductivity	µS/cm	3800	3600	3500	3700
Nitrate	mg/L	1.8	1.7	1.9	1.6
pH	pH	7.8	7.8	7.1	7.8
Standing Water Level	M	28	24	20	25

Point 10 (DHG5)

Date		2020-2021	2021-2022	2022-2023	2023-2024
Ammonia	mg/L		0.1	<0.01	0.02
Conductivity	µS/cm		2700	4100	3700
Nitrate	mg/L		2.7	0.35	0.04
pH	pH		7.4	7.4	6.9
Standing Water Level	M	Dry	35	34	40

Point 11 (DHG6)

Date		2020-2021	2021-2022	2022-2023	2023-2024
Ammonia	mg/L				
Conductivity	µS/cm				
Nitrate	mg/L				
pH	pH				
Standing Water Level	M	Dry	Dry	Dry	Dry

Soils monitoring - Yearly frequency

Point 16 (YP)

Date		2020-2021	2021-2022	2022-2023	2023-2024
Aluminium	cmol(+)	<0.1	<0.1	<0.1	0.05
Available Phosphorus	mg/kg	33	40	31	29
Calcium	cmol(+)	2.9	2.9	2.7	2.9
Cation Exchange Capacity	cmol(+)	4.7	4.5	4.3	4.4
Chloride	mg/kg	23	12	21	6
Conductivity	dS/m	0.09	0.07	0.11	0.05
Magnesium	cmol(+)	0.8	0.7	0.7	0.7
Nitrate	mg/kg	15	6.7	11	7.3
Nitrogen - total	mg/kg	1900	1900	1500	1700
Organic Carbon	%	2.2	2.2	2	2.13
pH	pH	5.8	6.1	5.9	4.7
Potassium	cmol(+)	0.99	0.83	0.88	0.66
Sodium	cmol(+)	0.05	0.03	0.03	0.03

Point 17 (YS)

Date		2020-2021	2021-2022	2022-2023	2023-2024
Aluminium	cmol(+)	<0.1	<0.1	<0.1	0.1
Available Phosphorus	mg/kg	66	54	66	47
Calcium	cmol(+)	3.7	3.2	3	3.04
Cation Exchange Capacity	cmol(+)	5.3	4.6	4.1	3.99
Chloride	mg/kg	<10	12	17	<5
Conductivity	dS/m	0.07	0.08	0.08	0.04
Magnesium	cmol(+)	0.8	0.8	0.7	0.54
Nitrate	mg/kg	7.4	11	11	6.6
Nitrogen - total	mg/kg	1700	1600	1200	1300
Organic Carbon	%	1.8	1.8	1.5	1.64
pH	pH	6.5	6.5	6.3	5.12
Potassium	cmol(+)	0.65	0.55	0.41	0.365
Sodium	cmol(+)	0.05	<0.02	<0.02	<0.02

Point 18 (RP)

Date		2020-2021	2021-2022	2022-2023	2023-2024
Aluminium	cmol(+)	<0.1	<0.1	<0.1	<0.02
Available Phosphorus	mg/kg	98	75	46	53
Calcium	cmol(+)	5.9	5.4	4.6	3.67
Cation Exchange Capacity	cmol(+)	8.1	7.4	6.4	4.99
Chloride	mg/kg	<10	13	17	<5
Conductivity	dS/m	0.26	0.09	0.1	0.051
Magnesium	cmol(+)	1.1	1.1	0.9	0.633
Nitrate	mg/kg	16	6	9.4	8.7
Nitrogen - total	mg/kg	2000	2000	1300	1400
Organic Carbon	%	2.2	2	1.8	1.74
pH	pH	6.3	6.9	6.5	4.97
Potassium	cmol(+)	1	0.91	0.88	0.62
Sodium	cmol(+)	0.05	0.03	0.02	0.02

Point 19 (RE)

Date		2020-2021	2021-2022	2022-2023	2023-2024
Aluminium	cmol(+)	<0.1	<0.1	<0.1	<0.02
Available Phosphorus	mg/kg	62	7	22	19
Calcium	cmol(+)	7.5	6.7	5.9	8.21
Cation Exchange Capacity	cmol(+)	11.1	9.8	8.4	11.2
Chloride	mg/kg	12	10	24	8
Conductivity	dS/m	0.09	0.10	0.07	0.06
Magnesium	cmol(+)	2	1.8	1.4	1.6
Nitrate	mg/kg	8.1	16	7	7.6
Nitrogen - total	mg/kg	1800	1900	1400	2000
Organic Carbon	%	2.3	2.2	1.9	2.5
pH	pH	6.5	6.7	6.4	5.53
Potassium	cmol(+)	1.6	1.3	1.1	1.3
Sodium	cmol(+)	0.03	0.03	0.03	0.02

Point 20 (LI)

Date		2020-2021	2021-2022	2022-2023	2023-2024
Aluminium	cmol(+)	<0.1	<0.1	<0.1	<0.02
Available Phosphorus	mg/kg	65	35	46	39
Calcium	cmol(+)	5.6	4.4	5.3	4.19
Cation Exchange Capacity	cmol(+)	7.3	5.9	6.9	5.36
Chloride	mg/kg	<10	48	27	<5
Conductivity	dS/m	0.10	0.11	0.09	0.05
Magnesium	cmol(+)	1.0	0.7	0.9	0.6
Nitrate	mg/kg	34	20	13	6.9
Nitrogen - total	mg/kg	2500	2200	1800	1400
Organic Carbon	%	2.7	2.1	2.1	1.76
pH	pH	5.9	6.2	6.4	5.53
Potassium	cmol(+)	0.73	0.64	0.59	0.56
Sodium	cmol(+)	<0.02	0.13	0.06	<0.02

Soils monitoring - 3 yearly frequency

Point 21 (YP)

Date		2021-2022
Aluminium	cmol(+)	<0.1
Available Phosphorus	mg/kg	7
Calcium	cmol(+)	4.6
Cation Exchange Capacity	cmol(+)	8.5
Chloride	mg/kg	<10
Conductivity	dS/m	0.04
Magnesium	cmol(+)	3.2
Nitrate	mg/kg	2.6
Nitrogen - total	mg/kg	<500
Organic Carbon	%	0.2
pH	pH	7.4
Potassium	cmol(+)	0.42
Sodium	cmol(+)	0.32

Point 22 (YS)

Date		2021-2022
Aluminium	cmol(+)	<0.1
Available Phosphorus	mg/kg	11
Calcium	cmol(+)	3.0
Cation Exchange Capacity	cmol(+)	5.2
Chloride	mg/kg	<10
Conductivity	dS/m	0.04
Magnesium	cmol(+)	1.8
Nitrate	mg/kg	2
Nitrogen - total	mg/kg	<500

Organic Carbon	%	0.2
pH	pH	7.3
Potassium	cmol(+)	0.18
Sodium	cmol(+)	0.15

Point 23 (RP)

Date		2021-2022
Aluminium	cmol(+)	<0.1
Available Phosphorus	mg/kg	5
Calcium	cmol(+)	3.5
Cation Exchange Capacity	cmol(+)	6.4
Chloride	mg/kg	<10
Conductivity	dS/m	0.03
Magnesium	cmol(+)	2.5
Nitrate	mg/kg	2
Nitrogen - total	mg/kg	<500
Organic Carbon	%	0.3
pH	pH	7.4
Potassium	cmol(+)	0.20
Sodium	cmol(+)	0.17

Point 24 (RE)

Date		2021-2022
Aluminium	cmol(+)	<0.1
Available Phosphorus	mg/kg	8
Calcium	cmol(+)	5.9
Cation Exchange Capacity	cmol(+)	11.4
Chloride	mg/kg	<10
Conductivity	dS/m	0.04
Magnesium	cmol(+)	4.8
Nitrate	mg/kg	4
Nitrogen - total	mg/kg	<500
Organic Carbon	%	0.4
pH	pH	7.4
Potassium	cmol(+)	0.45
Sodium	cmol(+)	0.28

Point 25 (LI)

Date		2021-2022
Aluminium	cmol(+)	<0.1
Available Phosphorus	mg/kg	13
Calcium	cmol(+)	2.3
Cation Exchange Capacity	cmol(+)	3.1
Chloride	mg/kg	<10
Conductivity	dS/m	0.02
Magnesium	cmol(+)	0.6
Nitrate	mg/kg	1.8
Nitrogen - total	mg/kg	<500
Organic Carbon	%	<0.2
pH	pH	7.2
Potassium	cmol(+)	0.12
Sodium	cmol(+)	0.04

Effluent Volume Monitoring - Monitoring Point 2

Year	2020-2021	2021-2022	2022-2023	2023-2024
Unit of Measure	kL/day	kL/day	kL/day	kL/day
Frequency	Daily	Daily	Daily	Daily
No. of measurements	365	365	365	365
Lowest result	0	0	0	0
Mean result	49.8	103	66.9	53.2
Highest result	500	375	387	350

SEPS Waste Monitoring - Monitoring Point 5

Year	2020-2021	2021-2022	2022-2023	2023-2024
Unit of Measure	tonnes	tonnes	tonnes	tonnes
Frequency	Yearly	Yearly	Yearly	Yearly
No. of measurements	1	1	1	1
Lowest result	0	0	0	0
Mean result	180	0	330	0
High result	0	0	0	0