

RESULTS 2024-2025

EPA ID No. 1													
Pollutant	Unit	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25
pH units	units	7.9	7.8	8.1	8	8.1	9	10.2	9.8	9.8	6.5	9.3	7.9
Biochem Oxygen Demand (BOD 5)	mg/L	10	4	6	11	9	6	6.3	5	4	1000	15	27
Elec cond – EC	(uS/cm@ 25°C)	710	780	840	820	790	760	730	810	820	990	820	810
Total Phosphorus	mg P /L	6.2	6.1	7.2	8.2	8.4	8.7	1.9	22	2.3	100	6.8	6.6
Oil and grease	mg/L	<5	<5	<5	<5	<5	<5	<5	<5	<5	13	<5	<5
Suspended Solids	mg/L	16	12	5	8	11	160	44	54	58	7700	50	64
Total Nitrogen as N	mg N /L	12	16	18	18	18	20	6.4	7.3	6.4	1000	10	8.2
Sodium Adsorption Ratio SAR	N/A	4.6	4.4	4.7	4.6	5.2	5.2	7.1	7.8	8.6	3.8	6.4	4.8
Thermotolerant Coliforms	cfu/100 mL	0	19	NA	24	340	>2400	41	580	730	410	510	200

EPA ID No. 5													
Item	Unit	Jul-24	Aug-24	Sep-24	Oct-24	Nov-24	Dec-24	Jan-25	Feb-25	Mar-25	Apr-25	May-25	Jun-25
Flow	kl/day	0.1	0.1	0.1	0.1	0.05	0	0	0.05	1.5	1.25	1	1.5

Aug-24			EPA 10			EPA 8		EPA 9		EPA 11										
Murray River Council Water Monitoring Program Analysis Report August 2024	Month	May-24	Aug-24	Not sampled	May-24	Aug-24	May-24	Aug-24	May-24	Aug-24	May-24	Aug-24	May-24	Aug-24	May-24	Aug-24	May-24	Aug-24	May-24	Aug-24
ANALYSIS_COMPONENT	UNITS	STP1	STP1	STP2	STP3	STP3	STP4	STP4	SWD1	SWD1	SWD2	SWD2	SWD3	SWD3	SWD4	SWD4	SWD5	SWD5	SWD6	SWD6
Watertable depth	m	11.00	10.80	Flooded	10.60	10.50	10.70	10.40	11.20	11.00	11.40	11.30	11.80	11.70	12.30	12.40	11.90	11.80	11.60	11.4
pH	units	6.50	6.30	Not	7.30	6.80	7.70	7.30	8.00	7.6	7.60	7.10	8.70	8.50	8.20	7.20	7.90	7.10	7.80	7.5
Elec cond – EC	(uS/cm@ 250C)	30000	41000	serviceable	16000	22000	19000	28000	12000	16000	6500	8600	12000	17000	10000	15000	11000	16000	12000	18000
Chloride (Cl)	mg/L	..	15000	see SWD 1	..	7300	..	9300	4600	4800	2100	2400	5500	5800	4900	5100	5500	5400	6200	6400
Ammonia (N H ₃)	mg N /L	..	0.50	..	..	2.00	..	0.30	0.40	0.3	9.10	4.10	0.30	0.60	<0.5	0.20	0.30	0.40	0.10	0.3
Nitrate (NO ₃)	mg N/L	..	0.06	..	..	0.06	..	0.90	0.20	0.28	<0.01	<0.01	<0.01	<0.01	<0.05	<0.01	<0.01	<0.01	0.07	0.59
Calcium (Ca)	mg/L	..	170	..	..	150	..	230	140	110	80	56	140	130	110	100	120	94	310	210
Magnesium (Mg)	mg/L	..	1400	..	..	480	..	900	300	370	170	130	430	380	370	320	460	320	460	360
Potassium (K)	mg/L	..	34	..	..	22	..	26	21	18	14	11	19	17	22	19	19	14	27	20
Sodium (Na)	mg/L	..	8200	..	..	3900	..	5600	2900	3100	1900	1700	3500	3400	3400	3100	3500	2700	4000	3300
Iron (Fe)	mg/L	..	180	..	..	2.1	..	6.60	5.20	12	8.40	5.10	2.60	1.00	3.90	1.50	2.20	<0.5	44.00	27
Manganese (Mn)	mg/L	..	4.10	..	..	0.10	..	<0.1	0.30	0.3	0.44	0.30	0.60	0.50	0.90	0.90	0.44	0.30	0.30	0.2
Sulphate (SO4)	mg/L	..	4100	..	..	1500	..	3100	2200	2000	830	1100	1500	1300	1000	990	820	880	860	1200.00

August is the annual comprehensive analysis for STP samples

STP and SWD sampled: 14/08/24

Sample was analysed by NATA Certified laboratory: accreditation number 992

NOTE:	STP1	SW corner near refinery (EPA ID No 10)	
	STP2	N of pondage, 50 m outside fence	Not serviceable replaced by SWD 1
	STP3	N of pondage inside fence (EPA ID No 8)	
	STP4	W of pondage (EPA ID No 9)	
	SWD1	West of waste depot towards eastern side of sewage ponds (EPA ID No 11)	
	SWD2	Immediately behind waste depot	
	SWD3	North side tip - SWD North	
	SWD4	East side tip - SWD South Hillside Road	
	SWD5	South side tip - SWD South Hillside Road	
	SWD6	West side tip - 150 m from road - SWD West	

		EPA 10			EPA 8		EPA 9		EPA 11											
Murray River Council Water Monitoring Program Analysis Report November 2024	Month	Aug-24	Nov-24	Not sampled	Aug-24	Nov-24	Aug-24	Nov-24	Aug-24	Nov-24	Aug-24	Nov-24	Aug-24	Nov-24	Aug-24	Nov-24	Aug-24	Nov-24	Aug-24	Nov-24
ANALYSIS_COMPONENT	UNITS	STP1	STP1	STP2	STP3	STP3	STP4	STP4	SWD1	SWD1	SWD2	SWD2	SWD3	SWD3	SWD4	SWD4	SWD5	SWD5	SWD6	SWD6
Watertable depth	m	10.80	10.90	Flooded	10.50	10.30	10.40	10.40	11.00	11.00	11.3	11.4	11.7	11.6	12.4	12.4	11.8	11.8	11.4	11.2
pH	units	6.30	6.60	Not	6.80	7.40	7.30	7.60	7.6	7.9	7.10	7.60	8.50	8.40	7.20	7.70	7.10	7.60	7.5	7.8
Elec cond – EC	(uS/cm@ 250C)	41000	38000	serviceable	22000	20000	28000	25000	16000	15000	8600	8700	17000	16000	15000	14000	16000	15000	18000	10000
Chloride (Cl)	mg/L	15000		see SWD 1	7300		9300		4800	4500	2400	2300	5800	6100	5100	5200	5400	5700	6400	6600
Ammonia (NH ₃)	mg N /L	0.50			2.00		0.30		0.3	4.10	4.10	4.50	0.60	0.50	0.20	0.10	0.40	1.90	0.3	0.4
Nitrate (NO ₃)	mg N /L	0.06			0.06		0.90		0.28	0.2	<0.01	0.03	<0.01	0.02	<0.01	0.02	<0.01	0.02	0.59	0.14
Calcium (Ca)	mg/L	170			150		230		110	140	56	70	130	130	100	110	94	120	210	210
Magnesium (Mg)	mg/L	1400			480		900		370	190	130	190	380	180	320	410	320	460	360	520
Potassium (K)	mg/L	34			22		26		18	19	11	13	17	18	19	20	14	17	20	20
Sodium (Na)	mg/L	8200			3900		5600		3100	2300	1700	2300	3400	1500	3100	3700	2700	3600	3300	4200
Iron (Fe)	mg/L	180			2.1		6.60		12	3.7	5.10	3.80	1.00	0.63	1.50	1.40	<0.5	2.10	27	17
Manganese (Mn)	mg/L	4.10			0.10		<0.1		0.3	0.28	0.30	0.35	0.50	0.46	0.90	0.98	0.30	0.54	0.2	0.15
Sulphate (SO4)	mg/L	4100			1500		3100		2000	1600	1100	1400	1300	1400	990	1200	880	1100	1200	1400

August is the annual comprehensive analysis for STP samples Other months Depth, pH and EC only

STP and SWD sampled: 19/11/24

Sample was analysed by NATA Certified laboratory: accreditation number 992

NOTE:	STP1	SW corner near refinery (EPA ID No 10)	
	STP2	N of pondage, 50 m outside fence	Not serviceable replaced by SWD 1

- STP3

N of pondage inside fence (EPA ID No 8)
- STP4

W of pondage (EPA ID No 9)
- SWD1

West of waste depot towards eastern side of sewage ponds (EPA ID No 11)
- SWD2

Immediately behind waste depot
- SWD3

North side tip - SWD North
- SWD4

East side tip - SWD South Hillside Road
- SWD5

South side tip - SWD South Hillside Road
- SWD6

West side tip - 150 m from road - SWD West

Murray River Council Water Monitoring Program Analysis Report February 2025	Month	Nov-24	Feb-25	Not sampled	Nov-24	Feb-25	Nov-24	Feb-25	Nov-24	Feb-25	Nov-24	Feb-25	Nov-24	Feb-25	Nov-24	Feb-25	Nov-24	Feb-25	Nov-24	Feb-25
ANALYSIS COMPONENT	UNITS	STP1	STP 1	STP2	STP3	STP3	STP4	STP 4	SWD1	SWD1	SWD2	SWD2	SWD3	SWD3	SWD4	SWD4	SWD5	SWD5	SWD6	SWD6
Watertable depth	m	10.9	11.0	Flooded	10.30	10.5	10.40	10.4	11.00	11.00	11.4	11.3	11.6	11.6	12.4	12.3	11.8	11.7	11.2	11.6
pH	units	6.6	6.6	Not	7.40	7.5	7.60	7.5	7.9	7.9	7.60	7.5	8.40	7.8	7.70	7.9	7.60	7.7	7.8	7.7
Elec cond – EC	(uS/cm@ 250C)	38000	40000	serviceable	20000	18000	25000	22000	15000	14000	8700	8700	16000	16000	14000	14000	15000	14000	LE	16000
Chloride (Cl)	mg/L			see SWD 1					4500	4800	2300	2400	6100	5700	5200	5100	5700	5600	6600	6500
Total Alkalinity (CaCO3)	mg CaCO3/L	NA	NA	NA	NA	NA	NA	NA	280	250	410	390	530	470	320	280	280	190	210	180
Ammonia (NH ₃)	mg N /L								0.3	0.3	4.50	2.8	0.50	1.1	0.10	<0.5 LINT	1.90	0.5	0.4	<0.5
Nitrate (NO ₃)	mg N /L								0.2	0.2	0.03	0.03	0.02	<0.01	0.02	0.02	0.02	0.04	0.14	0.07
Calcium (Ca)	mg/L								140	110	70	56	130	130	110	110	120	110	210	190
Magnesium (Mg)	mg/L								190	320	190	160	180	410	410	340	460	330	520	430
Potassium (K)	mg/L								19	17	13	12	18	18	20	19	17	18	20	18
Sodium (Na)	mg/L								2300	2700	2300	1900	1500	3400	3700	3100	3600	3000	4200	3700
Iron (Fe)	mg/L								3.7	6.2	3.80	7.2	0.63	2.1	1.40	4.9	2.10	1.9	17	35
Manganese (Mn)	mg/L								0.28	0.3	0.35	0.3	0.46	0.5	0.98	1.4	0.54	0.4	0.15	0.3
Sulphate (SO4)	mg/L								1600	2500	1400	1400	1400	1100	1200	1100	1100	1700	1400	1400

August is the annual comprehensive analysis for STP samples

Other months Depth, pH and EC only

STP and SWD sampled: 19/11/24

NA

Not applicable

LE

Lab reporting error

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- NOTE:
- STP1

SW corner near refinery (EPA ID No 10)
- STP2

N of pondage, 50 m outside fence

Not serviceable replaced by SWD 1
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Immediately behind waste depot
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North side tip - SWD North
- SWD4

East side tip - SWD South Hillside Road
- SWD5

South side tip - SWD South Hillside Road
- SWD6

West side tip - 150 m from road - SWD West

Murray River Council Water Monitoring Program Analysis Report May 2025	Month	Feb-25	May-25	Not sampled	Feb-25	May-25	Feb-25	May-25	Nov-24	May-25	Nov-24	May-25	Nov-24	May-25	Nov-24	May-25	Nov-24	May-25	Nov-24	May-25
ANALYSIS COMPONENT	UNITS	STP1	STP 1	STP2	STP3	STP3	STP4	STP 4	SWD1	SWD1	SWD2	SWD2	SWD3	SWD3	SWD4	SWD4	SWD5	SWD5	SWD6	SWD6
Watertable depth	m	11.0	11.0	Flooded	10.5	10.7	10.4	10.7	11.00	11.0	11.3	11.6	11.6	11.6	12.3	12.3	11.7	11.7	11.6	11.6
pH	units	6.6	6.6	Not	7.5	7.5	7.5	7.6	7.9	7.9	7.5	7.3	7.8	7.6	7.9	7.8	7.7	7.7	7.7	7.5
Elec cond – EC	(uS/cm@ 250C)	40000	40,000	serviceable	18000	17,000	22,000	21,000	14,000	12,000	8,700	7,500	16,000	14,000	14,000	12,000	14,000	12,000	16,000	14,000
Chloride (Cl)	mg/L			see SWD 1					4,800	4,200	2,400	2,400	5,700	5,200	5,100	4,400	5,600	4,900	6,500	5,700
Total Alkalinity (CaCO3)	mg CaCO3/L	NA	NA	NA	NA	NA	NA	NA	250	310	390	310	470	360	280	280	190	170	180	170
Ammonia (NH ₃)	mg N /L								0.3	0.2	2.8	0.1	1.1	1.3	<0.5 LINT	<0.1	0.5	0.3	<0.5	0.3
Nitrate (NO ₃)	mg N /L								0.2	0.26	0.03	0.46	<0.01	<0.01	0.02	<0.01	0.04	0.17	0.07	0.03
Calcium (Ca)	mg/L								110	120	56	37	130	120	110	90	110	100	190	190
Magnesium (Mg)	mg/L								320	390	160	130	410	410	340	330	330	380	430	440
Potassium (K)	mg/L								17	16	12	8	18	17	19	17	18	15	18	19
Sodium (Na)	mg/L								2,700	3,100	1,900	1,700	3,400	3,300	3,100	3,100	3,000	3,000	3,700	3,700
Iron (Fe)	mg/L								6.2	2.8	7.2	3.2	2.1	0.42	4.9	3.6	1.9	3	35	28
Manganese (Mn)	mg/L								0.3	0.1	0.3	<0.1	0.5	0.42	1.4	0.96	0.4	0.39	0.3	0.3
Sulphate (SO4)	mg/L								2,500	2,700	1,400	1,200	1,100	1,500	1,100	990	1,700	1,000	1,400	1,400

August is the annual comprehensive analysis for STP samples

Other months Depth, pH and EC only

STP and SWD sampled: 14/05/24

NA

Not applicable

LE

Lab reporting error

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- NOTE:
- STP1

SW corner near refinery (EPA ID No 10)
- STP2

N of pondage, 50 m outside fence

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West side tip - 150 m from road - SWD West