Angas Bremer Irrigation Management Zone 2023 – 2024 Annual Report



Project Coordinator: Leah Hunter Angas Bremer Water Management Committee Inc

Supported by



Government of South Australia Department for Environment

Department for Environment and Water





2023-24 Annual Irrigation Report

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Angas Bremer Water Management Committee <u>Members 2023-2024</u>

Presiding Member – Barry Potts **Treasurer** – Justin Cleggett

Committee Members

James Stacey, George Borrett, Michael Clements, Tim Follett, Trevor McLean, Michael Cutting and Robyn Grey-Gardner **Non-elected members of the Committee** Secretary – Keren Stagg

Project Coordinator – Leah Hunter

Report of the Activities of the Committee 2023-2024

The Angas Bremer Water Management Committee has focussed on its core duties this year holding four committee meetings and an Annual Public Meeting during August.

Throughout the year the committee have continued to raise their concerns and advocate on behalf of irrigators and residents of the Langhorne Creek area about the flow of the Bremer River and possible impacts the developments in Mount Barker and surrounding areas is having on the quality and quantity of the water in the watercourse.

The committee is still focused on this issue and will continue to pursue the region's concerns and the steps that can be taken to improve knowledge of possible causes, and to help push solutions.

Throughout the 2023 / 2024 season, the committee has kept in contact with the EPA and Mount Barker District Council who have provided updates to the group on volumes of water released and the monitoring of water in the catchment. The committee will continue to work with these agencies to follow the progress of works to the wastewater treatment plant and the new EPA monitoring program.

The committee continued to seek a simplified explanation of the Take Rules and the posting of alerts on the Water Connect / Data SA website to assist irrigators

in determining when they can take water. This will continue to be a focus in 2024 / 2025.

The committee continue to work closely with the staff and Board from both Hills and Fleurieu and Murraylands and Riverland Landscape Boards and are very thankful for the support received so far. The Hills and Fleurieu and Murraylands and Riverland Landscape Boards have committed funding until June 2025.

The other main focus for the committee this year was the annual irrigation reporting for the Angas Bremer Irrigation Management Zone. Please read the following report that summarises the data for the 2023 / 2024 irrigation season.

Irrigation Annual Report Forms: Data Summary and Comment

Irrigation Annual Report forms (IARs) were mailed to 133 irrigators within the Angas Bremer Irrigation Management Zone. The 126 irrigators who returned their completed forms to the Angas Bremer Water Management Committee on time have achieved "Accredited Irrigator" status. Online submissions were up this year with 106 irrigators reporting online, 7 irrigators did not respond/ provide data and did not achieve accreditation. The data from 126 irrigators (95%) have been collated and are presented in the following graphs and tables.

Flooding: Flooding by diversion or pumping was reported by 5 irrigators. Flooding was recorded in July 2023 (2 events), September 2023 (1 event). 52.24 hectares of irrigated land was recorded as being flooded and 8 hectares of non-irrigated land this year.

Revegetation: The total area of revegetation reported in the Irrigation Annual Reports is around 1,890 ha. This includes 40 hectares revegetated during the Biodiversity Landcare Projects.

Red Gum Health: 84 Irrigators reported on the health of the Red Gums on their properties. Health, or otherwise, was rated from 0 to 5, with 0 being dead and 5 being healthy. This year there has been a slight increase in the number of irrigators reporting that their red gums were healthy with 29 irrigators reporting that their red gums were all 100% healthy. While most of the remainder listed the majority of their trees to be in relatively good health with no changes in health direction, four irrigators listed their red gums as getting worse. Ten irrigators listed their red gums as getting better.

Water Leasing: Table 1 below shows the amount of water leased in 2023-24 compared with water leased in the previous two years. Overall, more water was leased out by irrigators this year than last. The amount of River Murray water leased out to Outside Irrigators increased by 1660ML and the amount leased in from irrigators outside of the Angas Bremer Irrigation Management Zone (ABIMZ) decreased by 3070.77ML. The volume of River Murray water leased to other irrigators within the Angas Bremer Irrigation Management Zone is slightly higher than last year with seven leases reported.

Type of Lease	Megalitres 2021-2022	Megalitres 2022-2023	Megalitres 2023-2024
RM water leased from ABIMZ to outside ABIMZ	3833.50	682.00	2342.00
RM water leased from outside ABIMZ to inside ABIMZ	9974.05	5382	2311.23
RM water leased from inside ABIMZ to inside ABIMZ	484	283.28	293.00

Table 1: Water Leasing







Figure 2: River Murray Water Site Use Approval and Extraction 2017-2024: The River Murray Site Use Approval (RivM SUA) is the maximum quantity of River Murray water that can be used for irrigation on land identified as being in the Angas Bremer Irrigation Management Zone. Extraction (RivM Ext) is the volume of water that was used during the irrigation year. The total Site Use Approval volume for 2023-24 volume has increased to 35549.86ML, and the recorded use was 17238.78, 1046.2ML more than last year.







Figure 4: Managed Aquifer Recharge (MAR) (formerly termed Aquifer Storage and Recovery (ASR):

This chart shows the total volume of water artificially recharged to the aquifer from 1992 to 2024. The <u>719 ML</u> recharged from the Angas, Bremer and Murray Rivers in 2023-2024 was lower than last year's volume but substantially lower than the record levels achieved in 2010.



Figure 5: Total volume of water used 2023-2024: The total volume of water extracted from all sources within the region over the 2023-24 year was <u>18,551ML</u>, higher than the previous year, 2022-2023 = 17,897ML.







Figure 7: Number of Irrigators for Each Crop Type: The number of irrigators growing each crop type in the region appears to have changed slightly with most crops increasing or staying the same except for grapes, dropping from 85 to 82 growers this year. Lucerne, Cereal and Fodder Pasture all increasing.



Figure 8: Area Irrigated by Crop Type: The area of each crop irrigated is shown in hectares. The total area represented in the graph is 1749 ha. The area of grapes irrigated in 2023-24 was 5,443 ha, greater than the 5,195 ha recorded last year (not shown in graph). The total area under irrigation in 2023-24 was 7,192 ha, which is greater than the 6,894 ha recorded last year. There is a significant increase in other vegetables, and Lucerne and Fodder Pasture have returned to similar numbers as 2022.



Figure 9: Average total irrigation rate for the year by crop type: Irrigation is shown in mm for 2021-22, 2022-23 and 2023-24.



Figure 10: Average mm of water applied per irrigation for each crop type for the last three years.

Figures 11-15: These charts show the irrigation rate per property for the more common crops. For each crop one chart shows (a) the mm per year and (b) the mm per irrigation.



11a)







Figure 16: Number of growers using Soil Moisture Monitoring devices in 2023-24: "Resistance" includes Gypsum Blocks. "Capacitance" includes Agwise soil moisture probes, Agrilink C probe, Dataflow Gopher, Sentek Diviner and Sentek EnviroSCAN. "Dig hole" includes Dig stick, spade, auger and post hole digger.

Table 2: Average ML/ha per crop per year: This table shows the average ML/ha of irrigation water applied to different crop types and compares 2024 with previous years. This information is also displayed in the following Figure 17. Note: 1ML/ha is equivalent to 100mm of irrigation.

Year	Grape	Lucerne	Vegetable	Potato	Fodder	Almond	All Crops
2023-2024	2.19	6.42	4.25	3.37	1.39	4.58	2.40
2022-2023	2.30	2.75	3.27	2.81	1.16	6.76	2.38
2021-2022	2.78	3.62	5.68	2.65	1.4	5.81	2.98
2020-2021	2.88	1.96	4.25	4.35	1.6	3.88	3
2019-2020	2.82	2.43	2.84	3.51	1.8	5.56	2.8
2018-2019	2.79	2.9	6.46	3.4	1.3	5.33	2.95
2017-2018	2.74	3.14	4.78	4.33	0.9	3.61	2.99
2016-2017	1.85	2.92	4.71	4.86	1.3	3.18	2.23
2015-2016	2.82	3.38	4.96	4.66	1.02	5.79	2.99
2014-2015	2.68	3.8	5.39	5.41	3.03	4.15	3.13
2013-2014	2.26	4.24	4.02	4.92	1.98	4.56	2.51
2012-2013	2.62	4.53	6.35	4.01	1.58	3.91	2.62
2011-2012	2.25	4.52	7.76	4.13	1.22	4.37	2.55
2010-2011	1.9	2.2	2.4	3.1	0.5	3.4	2
2009-2010	2.3	4.32	3.6	3.72	1.2	5.11	2.47
2008-2009	1.73	2.99	4.38	1.74	1.24	1.04	1.78
2007-2008	1.97	4.36	7.8	2.51	2.36	5.24	2.07
2006-2007	2.04	5.13	6.43	4.12	1.7	5.23	3.67
2005-2006	1.8	4.23	5.04	2.99	1	4.06	2.95
2004-2005	1.99	5.22	5.18	3.67	2.74	4.79	2.25
2003-2004	1.97	4.5	8.8	3.5	2.7	4.2	2.28
2002-2003	2.2	6.8	6	3.8	4.3	4	2.61
2001-2002	2.1	4.4	5.1	4	3.3	4.5	2.5



Figure 17: Average ML / ha used for each crop type

	2023- 2024	2022- 2023	2021- 2022	2020- 2021	2019- 2020	2018- 2019	2017- 2018	2016- 2017	2015- 2016	2014- 2015	2013- 2014	2012- 2013	2011- 2012	2010- 2011	2009- 2010	2008- 2009	2007- 2008	2006- 2007	2005- 2006	2004- 2005	2003- 2004	2002- 2003
Total ML	17,267	16,419	21,652	22,456	19,839	22,125	20,279	14,772	20,932	20,408	18,605	18,617	17,056	13,346	16,241	12,001	14,743	20,911	15,811	17,719	17,154	20,715
Total ha	7,191	6,894	7,212	7,479	7,085	7,489	6,792	6,637	7,011	7,380	7,406	7,107	6,687	6,687	6,578	6,748	7,049	8,370	7,739	7,869	7,509	7,934
Grape ML	11,903	11,943	16,118	16,767	16,702	16,418	14,819	9,998	15,961	15,972	13,230	13,129	11,990	11,275	13,718	10,738	12,330	12,827	11,293	11,688	11,927	13,165
Grape ha	5,443	5,195	5,799	5,821	5,920	5,892	5,407	5,391	5,658	5,954	5,850	5,641	5,323	5,965	5,971	6,199	6,245	6,271	6,170	5,876	6,059	6,059
Lucerne ML	641	384	719	751	608	1,352	1,236	1,013	1,300	1,668	1,446	1,820	1,477	376	657	326	675	1,437	1,378	1,791	1,608	2,560
Lucerne ha	192	140	200	383	251	466	393	348	384	439	341	402	327	170	152	109	155	280	325	343	354	376
Veg ML	1,661	975	1,679	1,161	468	1,194	559	856	963	964	580	610	877	193	36	57	179	373	363	638	605	647
Veg ha	391	298	296	273	165	185	117	182	194	179	144	96	113	81	10	13	23	58	72	123	69	108
Potato ML	1,285	1,167	617	1,079	485	717	758	1,156	947	1,238	1,073	1,232	1,283	555	320	131	136	1,200	1,171	1,278	1,280	1,504
Potato ha	381	415	233	248	138	211	175	238	203	229	218	307	311	179	86	75	54	291	392	348	360	394
Fodder ML	199	105	173	165	120	141	79	21	76	109	107	90	78	22	47	32	53	222	144	505	399	752
Fodder ha	143	90	124	103	67	108	84	16	74	36	54	57	64	43	39	26	23	130	144	184	146	173
Almond ML	60	88	75	136	195	202	65	57	104	166	187	180	188	148	225	193	231	251	195	230	203	188
Almond ha	13	13	13	35	35	38	18	18	18	40	41	46	43	43	44	44	44	48	48	48	48	47
Other crops ML	1,518	1,757	2,271	2,397	1,261	2,100	2,763	1,671	1,581	2,069	1,935	1,556	1,094	777	1,238	524	795	2,004	900	1,589	1,132	1,899
Other crops ha	628	743	547	616	509	589	598	444	480	503	573	558.5	501	206	276	282	505	906	588	936	443	777

Table 3: ML used and ha irrigated comparison chart:

Angas Bremer Groundwater Resources 2024 Current status and historical trends

December 2024

Murray Group Limestone aquifer water levels (2020–2024)

The main aquifer used in the Angas Bremer PWA is the confined Murray Group Limestone (MGL) aquifer which is up to 100 m thickness. For the period 2020–24, 28 out of 32 monitoring wells show five-year trends of rising groundwater pressure levels, at rates between 0.03–0.67 m/year (median rise of 0.12 m/year).

DEW uses a ranking system as a way of evaluating current groundwater levels in comparison to historic data. In 2024, seasonally recovered pressure levels are classified 'Above average' or higher in 88% of wells.



Figure 18: Murray Group Limestone aquifer water level trend 2020 to 2024

The hydrographs presented below were selected to illustrate important and/or representative trends. Hydrographs show a long-term rising trend across the region – groundwater pressure levels are currently close to the highest levels recorded since monitoring began in the 1970s. The increases in pressure levels that occurred during the 1990s are mainly attributed to a reduction in groundwater extraction resulting from increased availability of River Murray water for irrigation. In more recent years, managed aquifer recharge schemes that inject River Murray and ephemeral surface water flows into the MGL aquifer have also contributed to rising pressure levels.



Figure 19: Selected hydrographs for the Murray Group Limestone aquifer

Quaternary aquifer water levels (current)

The shallow Quaternary aquifer consists of a sequence of clays, silts and sands of around 10–20 m thickness. This aquifer is generally highly saline with low yields and, consequently has limited use. Groundwater level monitoring in August and September 2024 shows that the water table is deeper than 3 metres across most of the area, with the exception of adjacent Lake Alexandrina, where the water table is naturally shallower than 3 metres.



Figure 20: Quaternary aquifer water levels 2024

MGL aquifer salinity (current)

In 2024, irrigators provided groundwater samples from 28 wells. Of these, 54% of wells have salinity in the range 1,500–3,000 mg/L while 28% of wells have salinity less than 1,500 mg/L. The salinity distribution in the MGL aquifer shows low-salinity groundwater is available in limited areas, traditionally within narrow zones parallel the Angas and Bremer Rivers. Groundwater salinity greater than 1,500 mg/L is typical of the MGL aquifer, which is generally greater than the salinity tolerance threshold for wine grapes.



Figure 21: Murray Group Limestone aquifer salinity 2024

MGL aquifer salinity (2020–2024)

Salinity monitoring for the period 2020–24 shows variable 5-year trends – 6 wells have an increasing trend; 9 wells have a stable trend and 2 wells have a decreasing trend. Wells with a salinity record of at least five years' length are generally located adjacent to the Bremer River where most of the groundwater extraction occurs. Short-term fluctuations in groundwater salinity are mainly due to managed aquifer recharge operations.

Irrigators from across the area are actively encouraged to participate in the Department for Environment and Water's (DEW's) annual groundwater sampling program. Groundwater data submitted by irrigators helps to augment data from DEW's groundwater monitoring network, enabling a more informative presentation of salinity trends to support planning and management of the region's water resources.



Figure 22: Murray Group Limestone aquifer salinity trend 2020 to 2024

<u>The Twenty Sixth Annual Public Meeting of the</u> <u>Angas Bremer Water Management Committee</u> <u>Incorporated</u>

Wednesday 28th August, 2024 at 7:00pm.

The Langhorne Creek Bowling Club, Langhorne Creek.

Attendees: Barry Potts, Justin Cleggett, James Stacey, Tim Follett, Trevor McClean, George Borrett, Andrew Smith, Sam Borrett, Paul Wainwright, Robyn Grey-Gardiner, Lauren Nicholson (Guest Speaker), Dr Tiffany Nay (Guest Speaker), Tim Gubbin (Guest Speaker) Leah Hunter, Keren Stagg

Apologies: Sarah Keough, Jenny Venus, Rob Cranwell, Nick Whiterod, Michael Cutting, Nicole Clarke.

1. Opening Address

The meeting was opened at 7:17pm by Barry Potts, Presiding Member who welcomed all attendees and guest speakers Dr Tiffany Nay, Tim Gubbin and Lauren Nicholson to the meeting.

Barry then thanked the Committee for their contribution over the past year.

2. Minutes of the last Annual Public Meeting

A motion was raised that the minutes from the 2023 APM be accepted.

Moved: George Borrett Seconded: Trevor McLean All were in favour.

3. Presiding Member Annual Report

The 2023-24 Annual Presiding Member Report was presented by Barry Potts which included the following:

- Landscape Hills & Fleurieu and the Murraylands & Riverland Landscape Board continued to support the ABWMC and IAR with a combined total of \$64,518 in funding (\$29,324 for 2023-24 and \$30,194 for 2024-25). The Murraylands & Riverland Landscape Board also offered an additional \$5,000 for future website and IAR database upgrades. Barry thanked both Landscape Boards for their ongoing support.
- Several ABWMC members met with Lian Jaensch, Tom Mowbray, and Warren Jacobs to discuss the EMLR WAP review. The consultation and community engagement phase took place in early 2024, and the WAP amendment process

commenced in March 2024. The ABWMC has requested continued involvement in the WAP amendment process.

- Throughout 2023-24, the ABWMC also continued their work on the following:
 - Liaising with the EPA and Mt Barker Council regarding concerns about water quality from the Mt Barker WTP and the timing and capacity of its proposed upgrade.
 - Seeking a simplified explanation of the Take Rules, including an alert system for when water can be taken.
 - Continuing to monitor revegetation requirements for the ABIRA landholders until the EMLR WAP review is complete.

4. Summary of 2023/2024 Irrigation Annual Report - Leah Hunter

Leah Hunter presented a summary of the 2023/2024 IAR data received to date, noting that reports were still being submitted in both online and paper formats. She also highlighted that the graphs shown during her presentation were based on the online reporting data received so far.

Reported data as of 28 August 2024 showed:

- 126 reports (95% of the total reports due) had been received. Of these, 106
 reports (80% of the total reports due) were submitted online vs 103 online reports
 last year. Leah thanked everyone who submitted their reports online and on time
 and mentioned that she will be following up on any outstanding reports.
- Interim data showed a slight drop in total water use which was the lowest since 2017. Ground water dropped by 67ML, Surface water dropped by 118ML and recharge dropped by 357ML. River Murray water increased by 494ML.
- There were 3 records of flooding during 2023-24, 2 in July 2023, 1 in September 2023, with a total of 48 Ha flooded.
- Data received so far is showing an increase in the number of people irrigating lucerne, cereal, and fodder pasture, as well as an increase in those irrigating grapes. However, the numbers have not yet returned to the levels seen in 2022. The area of grapes under irrigation is currently 5,339 hectares, which is an increase from 4,969 hectares at the same time last year.

The final IAR is due for completion in December 2024. Once finalised it will be posted on the ABWMC website, and a link will be sent to all irrigators.

Leah thanked all members for their contribution and for staying on the committee. She also thanked Landscape Hills and Fleurieu and Murraylands and Riverland Landscape Board for continuing to fund the group.

Barry thanked Leah for her presentation.

5. Financial Report – Justin Cleggett, Treasurer

The Annual Financial Report of the ABWMC Committee 2023-24 was presented by Justin Cleggett.

Moved: George Borrett Seconded: Barry Potts All were in favour. Justin thanked Keren and Leah for their efforts. Barry thanked Justin for delivering the Treasurer's report.

6. Introducing the CLLMM Research Centre, Dr Tiffany Nay, Communication and Engagement Coordinator, CLLMM research centre

Barry introduced Dr Tiffany Nay who delivered a presentation on the new CLLMM Research Centre which opened in July 2023.

Barry thanked Tiffany for her presentation.

7. EPA Monitoring Presentation, Tim Gubbin, Senior Environment Protection Officer, Environment Protection Authority

Barry introduced Tim Gubbin who delivered a presentation on Ammonia Toxicity Testing on behalf of Peter Goonan, Principal Scientific Officer, Aquatic Biology, EPA.

Bivalves will be introduced into the Mt Barker Creek during 2024-25 to monitor the effects of high ammonia levels upstream and downstream from the Mt Barker Council Wastewater Treatment Plant.

Barry thanked Tim for his presentation.

8. Review of the Eastern Mount Lofty Ranges Water Allocation Plan, Lauren Nicholson, Senior Water Planner, Landscapes Hills & Fleurieu

Barry introduced Lauren Nicholson who delivered a presentation on the EMLR WAP review.

The EMLR WAP review will include specific issues such as Angas Bremer Flood Take Rules, ABIRA policies, Redgum swamp health and salinity management.

There will be a staged amendment approach with Stage 1 due 2027 and Stage 2 due 2029. An EMLR WAP review advisory committee will be set up some time during 2025 and the ABWMC has indicated that they would like to have a seat on this committee.

Barry thanked Lauren for her presentation.

9. Election of ABWMC members

The Angas Bremer Water Management Committee constitution requires 5 to 10 elected members. Three positions were carried over from the previous committee, and nominations were called for up to six positions.

Members mid-way through their term and continuing are: Barry Potts, George Borrett and Tim Follett.

Members renominating are: Michael Clements, Trevor McLean, Justin Cleggett, Robyn Grey-Gardiner (HFLB representative).

A motion was raised to accept the renominating members.

Moved: Barry Potts Seconded: George Borrett

All were in favour.

Retiring committee members James Stacey and Michael Cutting were thanked by Barry for their service.

No new written nominations were received prior to the APM.

Two nominations were received from the floor: Sam Borrett (nominated by James Stacey, seconded by Justin Cleggett) and Andrew Smith (nominated by Barry Potts, seconded by George Borrett). Both were accepted unanimously.

Barry congratulated both Sam and Andrew and welcomed them to the committee.

10. General Business

None recorded.

11. Meeting Close

Barry thanked all for attending the meeting which closed at 9:46pm. All who were present were invited to stay for a light supper.

Financial Accounts 2023-24

ANGAS BREMER WATER MANAGEMENT COMMITTEE INC.

FINANCIAL STATEMENTS

FOR THE YEAR ENDED JUNE 30, 2024

"STATEMENT OF PROFIT OR LOSS"

STATEMENT OF FINANCIAL POSITION

NOTES TO THE FINANCIAL STATEMENTS

STATEMENT BY THE MANAGEMENT COMMITTEE

REPORT BY THE MANAGEMENT COMMITTEE

SUMMARY OF PROJECT FINANCIAL PERFORMANCE

ANGAS BREMER WATER MANAGEMENT COMMITTEE INC.

STATEMENT OF PROFIT OR LOSS

FOR THE YEAR ENDED JUNE 30, 2024

	202	4	2023	2			
	202	•	2020				
INCOME	\$	\$	\$	\$			
Grants							
Grants (State) Op-Non Rec	29,324.01		27,609.00				
Total Grants		29,324.01		27,609.00			
Interest-Unrestricted		225.08	_	98.84			
Total Income		29,549.09		27,707.84			
EXPENSES							
Advertising & Promotion		232.91		263.64			
Assets Purchased		0.00		0.00			
Client Support Services							
CSS Project Co-ord/Manag	26,993.66		25,783.25				
Total Client Support Services		26,993.66		25,783.25			
Computer Expenses		546.49		327.45			
Insurance		699.37		623.41			
Meetings Expense		390.72		349.54			
Postage, Freight & Courier		233.82		97.68			
Printing & Stationery		0.00		12.27			
Telephone, Fax & Internet Exp		227.04		151.76			
Total Expenses		29,324.01		27,609.00			
Net Surplus / (Deficit)		225.08		98.84			

ANGAS BREMER WATER MANAGEMENT COMMITTEE INC.

STATEMENT OF FINANCIAL POSITION

FOR THE YEAR ENDED JUNE 30, 2024

	2024	2023
CURRENT ASSETS	\$	\$
Cash at Bank (Unrestricted)	12,810.08	10,345.38
Accounts Receivable	3,225.64	25,616.48
Prepayments	421.86	196.76
TOTAL CURRENT ASSETS	16,457.58	36,158.62
TOTAL ASSETS	16,457.58	36,158.62
CURRENT LIABILITIES		
Accounts Payable	8,857.19	6,024.55
Deferred Revenue	0.00	20,526.81
Accrued Expenses	30.00	60.00
GST Payable	293.24	2,329.00
Less GST Receivable	(805.87)	(547.68)
GST Clearing	(793.00)	(885.00)
TOTAL CURRENT LIABILITES	7,581.56	27,507.68
NET ASSETS	8,876.02	8,650.94
EQUITY		
Unexpended Funds as at July 1, 2023	8,650.94	8,552.10
Current Year Surplus (Deficit)	225.08	98.84
Unexpended Funds as at June 30, 2024 _	8,876.02	8,650.94

ANGAS BREMER WATER MANAGEMENT COMMITTEE INC.

NOTES TO THE FINANCIAL STATEMENTS

FOR THE YEAR ENDED JUNE 30, 2024

NOTE 1: STATEMENT OF SIGNIFICANT ACCOUNTING POLICIES

This financial report is a special purpose financial report prepared in order to satisfy the financial reporting requirements of the Associations Incorporation Act 1985 (SA). The Committee have determined that the Association is not a reporting entity.

This financial report has been prepared in accordance with the requirements of the Associations Incorporation Act 1985 (SA) and the following Australian Accounting Standards:

AASB 1	01 - Presentation of Financial Statements
AASB 1	07 - Statement of Cash Flows
AASB 1	08 - Accounting Policies, changes in accounting estimates and errors
AASB 1	048 - Interpretation and application of Standards
AASB 1	058 - Income of Not for profit entities

No other applicable Accounting Standards, Urgent Issues Group Consensus Views or other authoritative pronouncements of the Australian Accounting Standards Board have been applied.

The following material accounting policies, which are consistent with the previous period unless otherwise stated, have been adopted in the preparation of this financial report.

- a) Accounting Method Accrual Accounting
- b) Currency All values are presented in Australian Dollars
- c) Measurement Basis The financial report is based on historical costs. It does not take into account changing money values, or, except where specifically stated, current valuations of non-current assets
- d) Goods & Services Tax Revenue and expenses are recognised exclusive of the amount of GST
- e) Plant & Equipment Plant and equipment is recorded as an expense for the reporting period.

STATEMENT OF THE MANAGEMENT COMMITTEE OF

ANGAS BREMER WATER MANAGEMENT COMMITTEE

In accordance with Section 35(2)(c) of the Associations Incorporations Act 1985, it is the opinion of the Members of the Committee that,

(a) The accompanying Statement of Financial Performance is drawn up so as to give a true and fair view of the operations of the Association for the year ended 30/6/24;

The accompanying Statement of Financial Position is drawn up so as to give a true and fair view of the state of affairs of the Association as at 30/6/24;

(c) At the date of this Statement there are reasonable grounds to believe that the Association will be able to pay its debts as and when they fall due.

Signed in accordance with a resolution of the Committee

Signed:

Signed: <u>AR (Myph</u> Justin Cleggett, Treasurer Date: <u>22/7/24</u>

Barry Potts, Chairperson

Date: 22/7/24

REPORT OF THE MANAGEMENT COMMITTEE OF

ANGAS BREMER WATER MANAGEMENT COMMITTEE

In accordance with section 35 (5) of the Associations Incorporations Act, 1985 the Committee hereby states that during the financial year ended June 30, 2024:

- (a) (1) no officer of the association;
 - (2) no firm of which an officer is a member; and
 - (3) no body corporate in which an officer has a substantial interest,

has received or become entitled to receive a benefit as a result of a contract between the officer, firm or body corporate and the association.

(b) no officer of the association has received directly or indirectly from the association any payment or other benefit of a pecuniary nature.

Signed in accordance with a resolution of the Committee.

Signed:

Barry Potts, Chairperson

Date: 22/7/24

Signed:

Justin Cleggett, Treasurer

Date: 22/7/24

ANGAS BREMER WATER MANAGEMENT COMMITTEE INC.

PROJECT INCOME, EXPENDITURE AND BALANCES

FOR THE YEAR ENDED JUNE 30, 2024

Project Name	Balance at June 30, 2022 Total Income		Total Expenses	Balance at June 30, 2023		
ABIRA funds	7,570.30	0.00	0.00	7,570.30		
Angas Bremer Water Management Committee Funds	1,080.64	225.08	0.00	1,305.72		
Irrigation Annual Reporting Project - 2023-24 funding	0.00	29,324.01	29,324.01	0.00		
Totals	8,650.94	29,549.09	29,324.01	8,876.02		

Appendix A – Angas Bremer Irrigation Management Zone 2023-2024 Interim Annual Report, Leah Hunter.







<u>Appendix B</u> – Introducing the CLLMM Research Centre, Dr Tiffany Nay, Communication and Engagement

CLLMM RESEARCH CENTRE

Coordinator, CLLMM research centre

GOYDER



Acknowledgementof Country

Aboriginal people are the First Peoples and Nations of South Australia. The Coorong, connected waters and surrounding lands have sustained unique First Nations cultures since time immemorial.

The Goyder Institute for Water Research acknowledges the range of First Nations' rights, interests and obligations for the Coorong and connected waterways and the cultural connections that exist between Ngarrindjeri Nations and First Nations of the South-East peoples across the region and seeks to support their equitable engagement.

Aboriginal peoples' spiritual, social, cultural and economic practices come from their lands and waters, and they continue to maintain their cultural heritage, economies, languages and laws which are of ongoing importance.

www.cllmmresearchcentre.org



The Goyder Institute for Water Research is a research partnership of the South Australian Government through the Department for Environment and Water, CSIRO, Flinders University, the University of Adelaide and the University of South Australia

The Institute facilitates governments, industries, and leading researchers to collaboratively identify, develop and adopt innovative solutions for complex water management challenges to ensure a sustainable future



www.cllmmresearchcentre.org

Introducing the CLLMM Research Centre

- The Australian Government has committed \$8 million over 4 years from 2022–23 to work with communities to investigate the impacts of climate change on the Coorong, Lower Lakes and Murray Mouth (CLLMM) region.
- Announced by Federal Minister for the Environment and Water, the Honourable Tanya Plibersek, in October 2022, following the advocacy of Rebekha Sharkie MP, Deputy Premier Susan Close and local community.
- The CLLMM Research Centre entered its establishment phase on 1st July 2023



CLLMM Research Centre Purpose and Vision

"An important part of the Goyder Institute's work will be to develop relationships with First Nations, communities and industries to harness ideas to improve management of this ecologically important area." Minister Plibersek, 6 October 20.

 The Centre will provide a base for the team and researchers, as well as a central point to host community discussions and forums, education events for all ages and provide an immersive experience through virtual and augmented reality to deepen connections with the local environment to create and share knowledge



CLLMM Research Centre Objectives

- Establishing locally-driven, innovative, and impactful knowledge creation and exchange
- Bring together our First Nations, local community, government and scientists
- Support our well-informed and engaged community
- Empower our future generations to be part of the solution
- Showcase the region as a leader of locally driven knowledge creation and exchange that informs management.

www.cllmmresearchcentre.org

The team



Jane French Centre Manager



Nick Whiterod

Science Program

Manager

Tiffany Nay Communications & Engagement Coordinator Kyla McHughes First Nations Engagement Officer



CLLMM

Immersive experience as a platform to convey changes across the region

• Aim: establishing an immersive platform is a novel way to showcase the region and the research of the CLLMM Research Centre









Delivering the research

- Currently, 24 projects with social, ecological, economic and cultural focus
- Collaborative approach by multi-disciplinary teams
 - 96 world-leading & committed scientists (15 from the region)
 - More than 10 regional organisations (currently) as partners & 15 regional organisations on Research Centre Advisory Forum
 - Embedded community and First Nations expertise
- Varied opportunities for participation in all projects









Ecosystem responses and sociocultural perspectives on CLLMM landscape revegetation

• Aim: evaluate the ecosystem responses to historical landscape revegetation, assess the sociocultural perspectives of landscape revegetation and future recommendations

Reconnecting the waters: exploring barrage transparency as a mechanism to improve ecosystem health and climate resilience

• Aim: explore benefits and risks associated with more flexible barrage operation to promote improved connection

CLLMM

Hydrology of freshwater soaks on the Younghusband Peninsula in a changing climate

• Aim: establishing a water balance for freshwater soaks, and understanding hydrologic change under future climate

Coastal beach-dune dynamics and management in the CLLMM under future climate change

• Aim: understanding beach-coastal dune conditions, the future rates of dune migration, and the mitigation strategies

CLLMM

CLLMM

Ocean beach ecology and threats: a stakeholder perspective

• Aim: understanding the values & potential conflicts and threats from human activities & climate threats

Coorong

Conserving waterbird populations of the CLLMM and broader landscape under climate change

• Aim: integrating field research of movement, modelling and citizen science to inform the waterbird management under climate change

Horizon scanning for emerging research topics to guide future management

• Aim: engaging stakeholders to identify emerging challenges, and opportunities that will shape management into the future

• Aim: documenting the outbreak, raising awareness and collectively exploring management responses whilst building research capacity

<u>Appendix C</u> – EPA Monitoring Presentation - Tim Gubbin, Senior Environment Protection Officer, Environment Protection Authority

<u>Appendix D</u> – Review of the Eastern Mount Lofty Ranges Water Allocation Plan - Lauren Nicholson, Senior Water Planner, Landscapes Hills & Fleurieu

Purpose of the WAP Evaluation

- **Key question 1:** Has the WAP been successful in achieving the outcomes it set out to achieve?
- **Key question 2:** Does the WAP remain appropriate going forward, or does it require amendment?

NANY LANDSCAPE SOUTH AUSTRALIA

Purpose of the WAP Evaluation

• **Key question 1:** Has the WAP been successful in achieving the outcomes it set out to achieve?

Partly- has not achieved environmental objectives

• **Key question 2:** Does the WAP remain appropriate going forward, or does it require amendment?

Amendments required- address gaps, update science

NANY LANDSCAPE SOUTH AUSTRALIA HILLS AND FLEURIEU

Review of the Water Allocation Plan for the Eastern Mount Lofty Ranges May 2024

Amendment Focus Areas

- New information, policies, approaches.
- Full report lists ~3 pages of Focus Areas.
- Available on our website

SOUTH AUSTRALIA

Amendment Focus Areas

- Resource Capacity, baseline climate periods
- Revised environmental objectives
- First Nations water values
- Address over-allocation
- Non-licensed water use (stock and domestic, forestry)

NANY LANDSCAPE

