

**\* AGENDA \***

Page

**1. APOLOGIES**

**2. DECLARATION OF PECUNIARY & NON-PECUNIARY INTEREST**

**3. CONFIRMATION OF MINUTES OF MEETING  
HELD ON 11<sup>TH</sup> DECEMBER 2009**

**4. CORRESPONDENCE**

**5. GENERAL MANAGER'S REPORT**

- |   |    |
|---|----|
| 1. Financial Statements – List of Investments                               | 1  |
| 2. Financial Statement – Fund Position as at 31 <sup>st</sup> December 2009 | 2  |
| 3. Management Plan – Performance Targets                                    | 13 |
| 4. Shires Association of NSW – Annual Conference                            | 20 |
| 5. Compulsory Acquisition Easements   | 20 |

**6. WORKS REPORTS**

- |   |    |
|---|----|
| 1. Director of Engineering's Report for December 2009 | 22 |
| 2. Director of Engineering's Report for January 2010  | 29 |

**7. QUESTIONS & STATEMENTS**

**8. COMMITTEE-OF-THE-WHOLE**

1. General Manager's Contract

**GENERAL MANAGER'S REPORT  
TO THE COUNCIL**

17<sup>th</sup> February 2010

The Chairperson and Councillors:

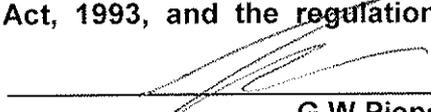
**1. FINANCIAL STATEMENTS – LIST OF INVESTMENTS**

In accordance with the provisions of Clause 19(3) of the Local Government (Financial Management) Regulation 1993, I report details of the Council's external investments as at:

FINANCIAL INSTITUTION	ORIGINAL INVESTMENT	
	Face Value	Interest Rate
	\$	%
<b>(i) 31<sup>st</sup> December 2009:</b>		
<u>NSW Treasury</u> at Call	\$ 757,212	4.7 %
<u>Local Government Financial Service</u> I.B. Deposit maturing 31/1/2010	\$2,402,089	4.37%
<u>Wagga Mutual Credit Union Ltd</u> I.B. Deposit maturing 18/6/2010	\$1,000,000	5.5 %
<u>Westpac Banking Corporation</u> I.B. Deposit maturing 15/12/2010	\$1,000,000	6.8 %
<b>(ii) 31<sup>st</sup> January 2010:</b>		
<u>NSW Treasury</u> at Call	\$1,431,590	4.56 %
<u>Local Government Financial Service</u> I.B. Deposit maturing 28/2/2010	\$2,411,436	4.68 %
<u>Wagga Mutual Credit Union Ltd</u> I.B. Deposit maturing 18/6/2010	\$1,000,000	5.5 %
<u>Westpac Banking Corporation</u> I.B. Deposit maturing 15/12/2010	\$1,000,000	6.8 %

**CERTIFICATE**

I hereby certify that all the above investments have been made in accordance with the provision of Section 625 of the Local Government Act, 1993, and the regulations thereunder.

  
**G W Pieper**  
**GENERAL MANAGER**

**RECOMMENDED** that the report detailing Council's external investments for the months of December 2009 and January 2010 be received.

## 2. FINANCIAL STATEMENT - FUND POSITION AS AT 31<sup>ST</sup> DECEMBER 2009

The Statement of the Financial Position as at 31<sup>st</sup> December 2009 is presented (refer pages 3 - 12) for examination by the Council.

The anticipated operating result for 2009/2010 is a surplus of \$3,800,000. The original estimate operating result was for surplus of \$3,317,000.

### Notes on Operating Statements:

#### Revenue:

##### User Charges

- Reduction in water usage as a result of water target campaign.

##### Contribution

- Increase in urban residential subdivision and increase of rural mains extensions.

**RECOMMENDED** that the Statement of the Financial Position as at 31<sup>st</sup> December 2009 be received.

AS AT 30TH JUNE, 2010

**RIVERINA WATER COUNTY COUNCIL**

**OPERATIONS STATEMENT- A. Expenses & Revenues**

OPERATIONS			\$'000	\$'000	\$'000	\$'000	\$'000
A. EXPENSES & REVENUES			Budget	Actual	Anticipated	Forecast	Variance
Expenses	Notes		2009/2010	31st Dec'09	Remainder of Year	2009/2010	
Management			2,660	1,358	1,371	2,729	69
- Administration	1		1,905	994	945	1,939	34
- Engineering & Supervision			755	364	426	790	35
Operations			5,950	2,571	3,217	5,788	(162)
- Purchase of Water			60	28	32	60	0
- Working Exp & Maintenance	2		3,530	1,565	1,923	3,488	(42)
- Energy Costs			1,710	750	870	1,620	(90)
- Chemical Costs			650	228	392	620	(30)
Depreciation			4,337	2,169	2,168	4,337	0
- System Assets			3,482	1,741	1,741	3,482	0
- Plant & Equipment			855	428	427	855	0
Miscellaneous			1,732	815	815	1,630	(102)
- Interest on loans			0	0	0	0	0
- Other			1,732	815	815	1,630	(102)
<b>Total Expenses</b>			<b>14,679</b>	<b>6,913</b>	<b>7,571</b>	<b>14,484</b>	<b>(195)</b>
<b>Revenues</b>							
Rates & Service Avail Charges			2,698	1,340	1,358	2,698	0
- Residential			2,384	1,183	1,201	2,384	0
- Commercial			254	127	127	254	0
- Industrial							
- Other			60	30	30	60	0
User Charges			13,871	4,606	8,614	13,220	(651)
- Sales of Water : Residential			8,765	3,408	4,977	8,385	(380)
- Sales of Water : Commercial			4,628	968	3,410	4,378	(250)
- Sales of Water : Industrial							
- Sales of Water : Other			478	230	227	457	(21)
Interest			100	110	32	142	42
Other Revenues			490	277	175	452	(38)
Grants			210	105	105	210	0
- Acquisition of Assets			0	0	0	0	0
- Other			210	105	105	210	0
Contributions			600	1,210	325	1,535	935
- Developer Charges			600	1,210	325	1,535	935
- Developer Provided Assets			0	0	0	0	0
<b>Total Revenues</b>			<b>17,969</b>	<b>7,648</b>	<b>10,609</b>	<b>18,257</b>	<b>288</b>
<b>Gain or Loss on Assets Disposal</b>			<b>27</b>	<b>0</b>	<b>27</b>	<b>27</b>	<b>0</b>
<b>Operating Result</b>			<b>3,317</b>	<b>735</b>	<b>3,065</b>	<b>3,800</b>	<b>483</b>
<b>Operating Result (less Grants for Acq of Assets)</b>			<b>3,317</b>	<b>735</b>	<b>3,065</b>	<b>3,800</b>	<b>483</b>
<b>Ave Residential Bills</b>			<b>412</b>			<b>398</b>	
<b>No of Residential Assessments</b>			<b>27,077</b>			<b>27,077</b>	

**RIVERINA WATER COUNTY COUNCIL**  
**OPERATIONS STATEMENT- A. Expenses & Revenues**

**NOTES TO THE ACCOUNTS**

<b>Note 1</b>	\$'000	\$'000	\$'000	\$'000	\$'000
<b>Management - Administration</b>	Budget 2009/2010	Actual 31st Dec'09	Anticipated Remainder of Year	Forecast 2009/2010	Variance
Depot & Waterworks Administration	150	122	48	170	20
Admin, Expenses, Salaries	550	238	302	540	(10)
Meter Reading	155	73	80	153	(2)
Bank Charges	30	12	16	28	(2)
Councillor's Fees	72	32	40	72	0
Audit Fees	30	0	30	30	0
Consulting Fees	50	32	18	50	0
Rates	55	52	3	55	0
Sundries	362	139	223	362	0
Insurances (Unallocable)	120	110	10	120	0
Printing & Stationery	80	42	42	84	4
Telephones	87	41	44	85	(2)
Postage	69	36	33	69	0
IT Costs	75	59	42	101	26
Training & Administration	20	6	14	20	0
<b>TOTAL ADMINISTRATION</b>	<b>1,905</b>	<b>994</b>	<b>945</b>	<b>1,939</b>	<b>34</b>

<b>Note 2</b>	\$'000	\$'000	\$'000	\$'000	\$'000
<b>Operations - Working Exp &amp; Maintenance</b>	Budget 2009/2010	Actual 31st Dec'09	Anticipated Remainder of Year	Forecast 2009/2010	Variance
Services & Meters M & R	408	175	208	383	(25)
Tools & Equipment M & R	70	20	40	60	(10)
Sundries	48	22	25	47	(1)
Stand-down Time - award allowances	90	49	51	100	10
Pumping Stations M & R	562	227	298	525	(37)
Reservoirs M & R	70	33	37	70	0
Systems Operations	1,035	516	519	1,035	0
Mains M & R	600	322	299	621	21
Residences M & R	8	2	6	8	0
Building & Ground Maintenance	310	137	173	310	0
Training	329	62	267	329	0
<b>TOTAL WORKING EXP &amp; MAINTENANCE</b>	<b>3,530</b>	<b>1,565</b>	<b>1,923</b>	<b>3,488</b>	<b>(42)</b>

**RIVERINA WATER COUNTY COUNCIL  
STATEMENT OF FINANCIAL POSITION  
as at 30 June 2010**

	Budget 2009/2010 \$'000	Forecast 2009/2010 \$'000
<b>CURRENT ASSETS</b>		
Cash on hand and at bank	50	50
Investments	1,325	1,427
Receivables	1,630	2,292
Inventories	1,095	1,133
Other - Prepayments		
<b>TOTAL CURRENT ASSETS</b>	4,100	4,902
<b>CURRENT LIABILITIES</b>		
Bank overdraft		
Creditors	260	260
Provisions	929	929
Borrowings	0	0
<b>TOTAL CURRENT LIABILITIES</b>	1,189	1,189
<b>NET CURRENT ASSETS</b>	2,911	3,713
<b>NON-CURRENT ASSETS</b>		
Property, Plant and Equipment	164,168	157,835
Intangibles	3,479	3,608
<b>TOTAL NON-CURRENT ASSETS</b>	167,647	161,443
<b>NON-CURRENT LIABILITIES</b>		
Provisions	1,260	1,260
Borrowings		
<b>TOTAL NON-CURRENT LIABILITIES</b>	1,260	1,260
<b>NET ASSETS</b>	169,298	163,896
<b>EQUITY</b>		
Accumulated surplus	62,933	64,264
Asset revaluation reserve	106,365	99,632
<b>TOTAL EQUITY</b>	169,298	163,896
<b>Note: Cash &amp; Investments is comprised of :</b>		
Mains Replacement		
Sales Fluctuation		
Sinking Fund		
Employee Leave Entitlements	656	656
Water Purchase	500	
Unallocated Cash & Investments	219	821
<b>Cash and Investments</b>	1,375	1,477

AS AT 30TH JUNE, 2009

RIVERINA WATER COUNTY COUNCIL

OPERATIONS STATEMENT- B. Capital Transactions

OPERATIONS	\$'000	\$'000
B. CAPITAL TRANSACTIONS	Budget	Forecast
Non-Operating Expenditures	2009/2010	2009/2010
Acquisition of Fixed Assets	12045	12893
- Subsidised Capital Works	0	0
- Other Infrastructure	9470	10108
- Plant & Equipment	2575	2785
Repayment of Debt	0	0
Transfer to Sinking Fund		
<b>Total Non-Operating Expenditures</b>	<b>12045</b>	<b>12893</b>
<b>Non-Operating Funds Employed</b>		
Plant & Equipment Sold	364	364
Borrowing Utilised		
Transfer from Sinking Fund		
<b>Total Non-Operating Income</b>	<b>364</b>	<b>364</b>

**RIVERINA WATER COUNTY COUNCIL**  
**STATEMENT OF CASH FLOWS**  
for the year ended 30th June, 2010

		\$'000	\$'000
		Budget	Forecast
		2009/2010	2009/2010
<b>CASHFLOWS FROM OPERATING ACTIVITIES</b>	Notes		
Receipts from user charges & rates		16,569	15,918
Interest received		100	142
Grants provided by Government		210	210
Contributions and donations		600	1,535
Other receipts		490	452
Payments to employees		(5,172)	(5,172)
Payment for materials/contracts		(362)	(362)
Payments of Interest		0	0
Other payments		(5,829)	(6,217)
<b>Net cash provided by (or used in) operating activities</b>	(b)	<u>6,606</u>	<u>6,506</u>
<b>CASH FLOWS FROM INVESTING ACTIVITIES</b>			
Proceeds from sale of investments			(172)
Proceeds from sale of property, plant and equipment		365	365
Purchase of investments			
Purchase of property, plant and equipment		(12,045)	(12,893)
<b>Net cash provided by (or used in) investing activities</b>		<u>(11,680)</u>	<u>(12,700)</u>
<b>CASHFLOWS FROM FINANCING ACTIVITIES</b>			
Proceeds from loans			
Proceeds from advances			
Reduction of loan liabilities		0	0
Reduction of liabilities for advances			
Reduction of finance lease liabilities			
Payment of Contract			
<b>Net cash provided by (or used in) financing activities</b>		<u>0</u>	<u>0</u>
Net increase/(decrease) in cash held		(5,074)	(6,194)
Cash at beginning of reporting period		6,449	7,671
<b>Cash at end of reporting period</b>	(a)	<u>1,375</u>	<u>1,477</u>

## NOTES TO CASH FLOW STATEMENT

### (a) Reconciliation of Cash

For the purposes of the statement of cash flows, cash includes cash on hand and "at call" deposits with other financial institutions. Term deposits of 90 days or less are also included. Cash at the end of the financial year as shown in the statement of cash flows is reconciled to the related items in the balance sheet as follows:

	\$'000 Budget 2009/2010	\$'000 Forecast 2009/2010
Cash on Hand and at Bank	50	50
Deposits at Call	1,325	1,427
Less Bank Overdraft		
Balances as per statement of cash flows	1,375	1,477

### (b) Reconciliation of Change in Net Assets to Cash Inflow/Outflow from Operating Activities

	\$'000 Budget 2009/2010	\$'000 Forecast 2009/2010
Change in net assets after operations	3,317	3,800
Add: Depreciation and amortisation	4,337	4,337
Provision for doubtful debts		
Increase in leave employee entitlements		
Decrease in receivables		
Decrease in inventories		
Decrease in other current assets		46
Increase in creditors		
Increase in accrued interest payable		
Increase in other current liabilities		
Loss on sale of assets		
Less: Decrease in Employee Leave Entitlement	1,021	1,046
Increase in receivables		
Increase in inventories		
Increase in other current assets		
Decrease in creditors		604
Decrease in accrued interest payable		
Gain on sale of assets	27	27
Net Cash provided by (used in) operating activities	6,606	6,506

AS AT 30TH JUNE, 2010

**RIVERINA WATER URBAN  
OPERATIONS STATEMENT- A. Expenses & Revenues**

OPERATIONS		\$'000	\$'000	\$'000	\$'000	\$'000
A. EXPENSES & REVENUES		Budget	Actual	Anticipated	Forecast	Variance
Expenses	Notes	2009/2010	31st Dec'09	Remainder of Year	2009/2010	
Management		1,980	990	1,040	2,030	50
- Administration	1	1,452	735	742	1,477	25
- Engineering & Supervision		528	255	298	553	25
Operations		4,308	1,795	2,377	4,172	(136)
- Purchase of Water		0	0	0	0	0
- Working Exp & Maintenance	2	2,440	1,035	1,361	2,396	(44)
- Energy Costs		1,368	600	696	1,296	(72)
- Chemical Costs		500	160	320	480	(20)
Depreciation		2,429	1,215	1,214	2,429	0
- System Assets		1,950	975	975	1,950	0
- Plant & Equipment		479	240	239	479	0
Miscellaneous		1,212	575	575	1,150	(62)
- Interest on loans		0	0	0	0	0
- Other		1,212	575	575	1,150	(62)
<b>Total Expenses</b>		<b>9,929</b>	<b>4,575</b>	<b>5,206</b>	<b>9,781</b>	<b>(148)</b>
<b>Revenues</b>						
Rates & Service Avail Charges		2,117	1,051	1,066	2,117	0
- Residential		1,895	940	955	1,895	0
- Commercial		188	94	94	188	0
- Industrial						
- Other		34	17	17	34	0
User Charges		11,103	3,525	7,076	10,601	(502)
- Sales of Water : Residential		6,760	2,605	3,877	6,482	(278)
- Sales of Water : Commercial		4,294	902	3,170	4,072	(222)
- Sales of Water : Industrial						
- Sales of Water : Other		49	18	29	47	(2)
Interest		73	80	25	105	32
Other Revenues		356	202	130	332	(24)
Grants		166	83	83	166	0
- Acquisition of Assets		0			0	0
- Other		166	83	83	166	0
Contributions		600	1,105	300	1,405	805
- Developer Charges		600	1,105	300	1,405	805
- Developer Provided Assets						
<b>Total Revenues</b>		<b>14,415</b>	<b>6,046</b>	<b>8,680</b>	<b>14,726</b>	<b>311</b>
Gain or Loss on Assets Disposal		25	0	25	25	0
<b>Operating Result</b>		<b>4,511</b>	<b>1,471</b>	<b>3,499</b>	<b>4,970</b>	<b>459</b>
<b>Operating Result (less Grants for Acq of Assets)</b>		<b>4,511</b>	<b>1,471</b>	<b>3,499</b>	<b>4,970</b>	<b>459</b>
<b>Ave Residential Bills</b>		<b>391</b>			<b>379</b>	
<b>No of Residential Assessments</b>		<b>22,132</b>			<b>22,132</b>	
<b>Ave Residential Consumption</b>		<b>330</b>			<b>320</b>	

**RIVERINA WATER URBAN**  
**OPERATIONS STATEMENT- A. Expenses & Revenues**

**NOTES TO THE ACCOUNTS**

<b>Note 1</b>	\$'000	\$'000	\$'000	\$'000	\$'000
<b>Management - Administration</b>	Budget 2009/2010	Actual 31st Dec'09	Anticipated Remainder of Year	Forecast 2009/2010	Variance
Depot & Waterworks Administration	119	96	38	134	15
Admin, Expenses, Salaries	434	188	238	426	(8)
Meter Reading	122	58	63	121	(1)
Bank Charges	22	9	12	21	(1)
Councillor's Fees	57	27	30	57	0
Audit Fees	24	0	24	24	0
Consulting Fees	39	27	12	39	0
Rates	28	26	2	28	0
Sundries	286	102	184	286	0
Insurances (Unallocable)	60	55	5	60	0
Printing & Stationery	63	34	32	66	3
Telephones	69	33	35	68	(1)
Postage	54	28	26	54	0
IT Costs	59	47	30	77	18
Training & Administration	16	5	11	16	0
<b>TOTAL ADMINISTRATION</b>	<b>1,452</b>	<b>735</b>	<b>742</b>	<b>1,477</b>	<b>25</b>

<b>Note 2</b>	\$'000	\$'000	\$'000	\$'000	\$'000
<b>Operations - Working Exp &amp; Maintenance</b>	Budget 2009/2010	Actual 31st Dec'09	Anticipated Remainder of Year	Forecast 2009/2010	Variance
Services & Meters M & R	322	138	166	304	(18)
Tools & Equipment M & R	51	10	31	41	(10)
Sundries	44	20	23	43	(1)
Stand-down Time - award allowances	83	45	46	91	8
Pumping Stations M & R	415	165	218	383	(32)
Reservoirs M & R	30	14	16	30	0
Systems Operations	631	310	321	631	0
Mains M & R	306	170	145	315	9
Residences M & R	2	1	1	2	0
Building & Ground Maintenance	254	115	139	254	0
Training	302	47	255	302	0
<b>TOTAL WORKING EXP &amp; MAINTENANCE</b>	<b>2,440</b>	<b>1,035</b>	<b>1,361</b>	<b>2,396</b>	<b>(44)</b>

AS AT 30TH JUNE, 2010

**RIVERINA WATER NON URBAN  
OPERATIONS STATEMENT- A. Expenses & Revenues**

OPERATIONS		\$'000	\$'000	\$'000	\$'000	\$'000
A. EXPENSES & REVENUES		Budget	Actual	Anticipated	Forecast	Variance
Expenses	Notes	2009/2010	31st Dec'09	Remainder of Year	2009/2010	
Management		680	368	331	699	19
- Administration	1	453	259	203	462	9
- Engineering & Supervision		227	109	128	237	10
Operations		1,642	776	840	1,616	(26)
- Purchase of Water		60	28	32	60	0
- Working Exp & Maintenance	2	1,090	530	562	1,092	2
- Energy Costs		342	150	174	324	(18)
- Chemical Costs		150	68	72	140	(10)
Depreciation		1,908	954	954	1,908	0
- System Assets		1,532	766	766	1,532	0
- Plant & Equipment		376	188	188	376	0
Miscellaneous		520	240	240	480	(40)
- Interest on loans		0	0	0	0	0
- Other		520	240	240	480	(40)
<b>Total Expenses</b>		<b>4,750</b>	<b>2,338</b>	<b>2,365</b>	<b>4,703</b>	<b>(47)</b>
<b>Revenues</b>						
Rates & Service Avail Charges		581	289	292	581	0
- Residential		489	243	246	489	0
- Commercial		66	33	33	66	0
- Industrial						
- Other		26	13	13	26	0
User Charges		2,768	1,081	1,538	2,619	(149)
- Sales of Water : Residential		2,005	803	1,100	1,903	(102)
- Sales of Water : Commercial		334	66	240	306	(28)
- Sales of Water : Industrial						
- Sales of Water : Other		429	212	198	410	(19)
Interest		27	30	7	37	10
Other Revenues		134	75	45	120	(14)
Grants		44	22	22	44	0
- Acquisition of Assets		0			0	0
- Other		44	22	22	44	0
Contributions		0	105	25	130	130
- Developer Charges		0	105	25	130	130
- Developer Provided Assets						
<b>Total Revenues</b>		<b>3,554</b>	<b>1,602</b>	<b>1,929</b>	<b>3,531</b>	<b>(23)</b>
<b>Gain or Loss on Assets Disposal</b>		<b>2</b>	<b>0</b>	<b>2</b>	<b>2</b>	<b>0</b>
<b>Operating Result</b>		<b>(1,194)</b>	<b>(736)</b>	<b>(434)</b>	<b>(1,170)</b>	<b>24</b>
<b>Operating Result (less Grants for Acq of Assets)</b>		<b>(1,194)</b>	<b>(736)</b>	<b>(434)</b>	<b>(1,170)</b>	<b>24</b>
<b>Ave Residential Bills</b>		<b>504</b>			<b>484</b>	
<b>No of Residential Assessments</b>		<b>4,945</b>			<b>4,945</b>	
<b>Ave Residential Consumption</b>		<b>409</b>			<b>400</b>	

**RIVERINA WATER NON URBAN**  
**OPERATIONS STATEMENT- A. Expenses & Revenues**

**NOTES TO THE ACCOUNTS**

<b>Note 1</b>	\$'000	\$'000	\$'000	\$'000	\$'000
<b>Management - Administration</b>	Budget 2009/2010	Actual 31st Dec'09	Anticipated Remainder of Year	Forecast 2009/2010	Variance
Depot & Waterworks Administration	31	26	10	36	5
Admin, Expenses, Salaries	116	50	64	114	(2)
Meter Reading	33	15	17	32	(1)
Bank Charges	8	3	4	7	(1)
Councillor's Fees	15	5	10	15	0
Audit Fees	6	0	6	6	0
Consulting Fees	11	5	6	11	0
Rates	27	26	1	27	0
Sundries	76	37	39	76	0
Insurances (Unallocable)	60	55	5	60	0
Printing & Stationery	17	8	10	18	1
Telephones	18	8	9	17	(1)
Postage	15	8	7	15	0
IT Costs	16	12	12	24	8
Training & Administration	4	1	3	4	0
<b>TOTAL ADMINISTRATION</b>	<b>453</b>	<b>259</b>	<b>203</b>	<b>462</b>	<b>9</b>

<b>Note 2</b>	\$'000	\$'000	\$'000	\$'000	\$'000
<b>Operations - Working Exp &amp; Maintenance</b>	Budget 2009/2010	Actual 31st Dec'09	Anticipated Remainder of Year	Forecast 2009/2010	Variance
Services & Meters M & R	86	37	42	79	(7)
Tools & Equipment M & R	19	10	9	19	0
Sundries	4	2	2	4	0
Stand-down Time - award allowances	7	4	5	9	2
Pumping Stations M & R	147	62	80	142	(5)
Reservoirs M & R	40	19	21	40	0
Systems Operations	404	206	198	404	0
Mains M & R	294	152	154	306	12
Residences M & R	6	1	5	6	0
Building & Ground Maintenance	56	22	34	56	0
Training	27	15	12	27	0
<b>TOTAL WORKING EXP &amp; MAINTENANCE</b>	<b>1,090</b>	<b>530</b>	<b>562</b>	<b>1,092</b>	<b>2</b>

### 3. MANAGEMENT PLAN – PERFORMANCE TARGETS

In accordance with the provisions of Section 407 of the Local Government Act 1993. I report to Council the progress achieved in the year for the various objectives set out in the 2009/2010 Management Plan:

	2009/2010		Exp to date \$'000	Progress as at 31 <sup>st</sup> December 2009
	Wagga Urban \$'000	Townships & Rural \$'000		
<b>LAND AND BUILDINGS</b>				
Administration Office	60		0	Not commenced
Depot buildings	60	25	45	Mezzanine floor at Builders Workshop (Wagga) and The Rock Depot Shed are completed. Work on The Rock pipe fittings yard in progress.
West Wagga - Bulk Chlorine Storage	30		0	Not commenced (awaiting Master plan of site)
Waterworks, new workshops	700		0	Not commenced, subject to revision of site. Master plan revised with workshop positioned south of building/welding/mechanics workshop (in triangle) Future power supply options currently being investigated.
Access, parking, landscaping	55	35	0	As required.
Environmental works (incl. Marshalls Creek)	38		84	Continued environmental improvements of Marshalls Creek Removal and replacement of fuel tanks at The Rock & Wagga Depot New tank purchased and are to be installed.
Depot Residence	5		0	As required
<b>Sub-total Land and Buildings</b>	<b>948</b>	<b>60</b>	<b>129</b>	
<b>MAINS AND SERVICES</b>				
Hydrants & valves refurbish	60	20	45	As required – With further specific work planned for April and May.
System improvements	310	70	18	As required. (non-specific)
Reticulation Mains extensions	100	30	187	Improvements completed in Dobney Avenue (re Bunnings), and on Olympic Hwy for Kapooka.
Reticulation etc for developers	310	20	163	Extensions completed at Bourkelands, Boorooma, Estella and Hilltop.
Trunk mains extensions	1280		74	Awaiting Hydraulic model and design. (Red Hill Rd)
Piping Urana Channel		700	125	Approvals for abstraction works in progress. Tenders for power connection in progress.
Service connections, new	300	30	153	On target.
<b>TOTAL NEW WORKS</b>	<b>2360</b>	<b>870</b>	<b>763</b>	
Renew reticulation mains	300	150	576	Replacement in Hammond Avenue completed. (Norton to Nesbit) & (Stuart to Bakers Lane)
Renew trunk mains	500	100	118	Field monitoring and network modelling well advanced.

	2009/2010		Exp to date \$'000	Progress as at 31 <sup>st</sup> December 2009
	Wagga Urban \$'000	Townships & Rural \$'000		
New Services	120	30	55	On target.
Renew services	120	30	67	On target.
<b>TOTAL RENEWALS</b>	<b>1040</b>	<b>310</b>	<b>816</b>	
<b>Sub-total Mains and Services</b>	<b>3400</b>	<b>1180</b>	<b>1579</b>	
<b>RESERVOIRS</b>				
Other New reservoirs (Red Hill, Springvale, Forest Hill, Shires)	1280	445	0	Earthworks tenders closed, reservoir specification well advanced and consultation undertaken.
Reservoirs, protective treatments	20	70	0	Not commenced
Reservoirs, refurbish		30	0	Not commenced
Reservoirs, upgrade ladders and access	35	40	6	Access upgrade for The Rock Reservoir completed including new ladder, gantry and platform.
Reservoirs, control valves and systems	15	45	5	Completed Henty Balance Tank control valve replacement
<b>Sub-total Reservoirs</b>	<b>1350</b>	<b>630</b>	<b>11</b>	
<b>PUMP STATIONS AND BORES</b>				
Pump stations, General Improvements	35		10	Completed switchboard air-conditioning systems at West Wagga Bores 2&4
Pump stations, flow recorders	55	50	16	Completed Gregadoo Reservoir solar magflow installation Completed remote SMS water metering of Wagga Wagga urban area for Demand Mgt
Renew Pumps, Motors & Switchboards	190	145	118	Completed upgrade of West Wagga High Lift pumps soft starters. Installed magflows at Collingullie Bores 1 & 2. Replaced Ralvona Bore 1 switchboard. Completed North Wagga Bore 3 switchboard replacement. Inspected and repaired North Wagga Bore 1 Motor.
Upgrade pumps/additional pumps	470	40	0	On going
Refurbish pipework/fittings/structures	50		0	On going
Bores renew/refurbish/Decommission	255	205	226	Ralvona Bore 1 – Redrill completed, new pump and motor installed and commissioned
<b>Sub-total Pump Stations and Bores</b>	<b>1055</b>	<b>440</b>	<b>370</b>	
<b>TREATMENT PLANTS</b>				
Treatment plants, general improvements, Wagga	160	70	78	Completed North Wagga aeration basin cover. Replaced Waterworks raw water No.7 pipework and control valve. Commenced repairs to Waterworks raw suction main between well and river jetty. Commenced upgrade to The Rock chlorination plant.

	2009/2010		Exp to date \$'000	Progress as at 31 <sup>st</sup> December 2009
	Wagga Urban \$'000	Townships & Rural \$'000		
Treatment plants, Safety Equipment	20	5	20	Continuing 12 month trial Lone-Worker system
Specific Treatment Plant Improvements		200	112	Tarcutta WTP fully commissioned. Aeration Towers and scaffolding removed from site.
Treatment plants, refurbish (incl. Urana, Morundah)	30	210	0	On going – Waterworks DAF trial. Flocculator ordered for DAF pilot plant. Woomargama WTP upgrade not commenced
<b>Sub-total Treatment Plants</b>	<b>410</b>	<b>485</b>	<b>210</b>	
<b>SOURCE WORKS</b>				
IWCM	150		107	Evaluation Study 90% completed.
<b>Sub-total Source Works</b>	<b>150</b>		<b>107</b>	
<b>METERS</b>				
Water meters, replacement/upgrade	100	45	7	On target.
Water meters, routine replacements	100	20	173	Increased resources in 2009/10 to achieve the meter replacement program.
Water meters, additional (new services)	20	5	15	As required
Remote metering	10	40	56	As required.
<b>Sub-total Meters</b>	<b>230</b>	<b>110</b>	<b>251</b>	
<b>PLANT &amp; EQUIPMENT</b>				
Information Technology, upgrade	280		79	Ongoing - Routine PC replacements, and Authority Managed services
Office furniture and equipment	25	5	0	As required
Working plant and vehicles-purchases-GROSS	1690		178	Backhoe and excavator tenders closed and awarded.
Fixed plant/ tools/ equipment	100	10	17	As required – sundry signs, apprentices tools, 4T vehicle hoist
SCADA system, upgrades	175		62	Completed SCADA Strategy Report  Commenced upgrade to North Wagga telemetry and pump control systems.
CAD/GIS/Asset management system	100		13	As required
Communications equipment	40		3	Ongoing
Laboratory Equipment	10	10	8	Ongoing
<b>Sub-total Plant &amp; Equipment</b>	<b>2420</b>	<b>25</b>	<b>360</b>	
<b>TOTALS</b>	<b>9963</b>	<b>2930</b>	<b>3017</b>	
<b>GRAND TOTALS - WAGGA &amp; RURAL</b>	<b>12893</b>			

## Services

Strategies / Actions	Progress to 31 <sup>st</sup> December 2009
- Regularly monitor urban and village growth, and augment supply as required in line with ten year plan, and current needs	Customer needs met
- Maintain network analysis of Wagga urban water system	Model calibrated and being run.
- Maintain the water supply infrastructure in good working order.	Some but infrequent breakdowns.
- Monitor the operation of the water supply system to ensure continuity of supply.	Continuity of supply maintained.
- Reinforce throughout the organisation that we are customer orientated. - Maintain a request and complaint handling system that ensures both attention to the request and advice of action taken or to be taken.	Responses have been timely.
- Use customer news sheets to disseminate information to customers. - Utilise the local media when appropriate to increase awareness within the community. - Meet with sectional or interest groups or invite them to meet with us to communicate and receive feedback on relevant issues.	Numerous media outlets used to advise customers on demand management and other issues and is ongoing.
- Increase inspection and documentation of consumer pipework where there is potential for contamination from backflow.	Required protection devices in use.

## Asset Replacement

Strategies / Actions	Progress to 31 <sup>st</sup> December 2009
Develop and maintain a rolling replacement plan for all assets with review every 3 years.	Replacement program documented and is being executed.
Identify potential system capacity deficiencies and incorporate in capital works programme.	Ongoing monitoring and pressure testing.
Maintain water network analysis programme to identify timetable of system improvements and extensions.	Network model calibrated and run.
Utilise Asset Register and associated technology and pipeline breakage history to determine the timing of mains replacement to minimise over all costs.	Pipe break definitions improved in reports.

## Human Resources

### Goals

Riverina Water's OH&S goal for 2009/2010 is **ZERO HARM AT WORK – to be achieved through eliminating unsafe behaviours and/or conditions** which will result in providing a safe workplace and systems of work. Our aim over the period 1<sup>st</sup> July 2009 to 30<sup>th</sup> June 2010 is to implement the following strategies to achieve the overall objective / goal for this 12-month period.

Objectives	Means of achieving	Target / Measure
Continue promotion of responsibilities within the OHS Management System	<ul style="list-style-type: none"> <li>Promote OHS responsibilities to Management, Supervisors &amp; employees through utilisation of "Expectation checklists" during face-to-face discussion groups.</li> </ul>	All individuals within the organisation fully aware of their responsibilities in relation to safety & actively undertaking their safety role.
Provide effective staff support	<ul style="list-style-type: none"> <li>Provide on-going promotion of Riverina Water's 'Employee Assistance Program' that provides free professional counselling to staff and their immediate families</li> <li>Promote usage of Progressive Disciplinary &amp; Grievance Procedure</li> </ul>	<p>In house promotion in Safety Newsflash articles Self referral to counselling service (verified by quarterly report from provider)</p> <p>More timely &amp; effective resolution of conflict. Use Work Improvement Notice (WIN) for non compliance issues if direct contact with employee does not resolve unacceptable behaviour or actions.</p>
Improve Communication and Consultation	<ul style="list-style-type: none"> <li>Continue promotion of "Take &amp; Break &amp; Talk Safety" &amp; incentive by way of rewards (i.e. Kit Kats / Fruit / Luncheon) to teams who engage the OHS Coordinator during their team discussion</li> <li>OHS Coordinator to receive &amp; record team meeting sheets</li> <li>Quarterly meetings involving Dept. Managers and their respective work teams.</li> </ul>	<p>Monthly meetings held with all work teams with documented evidence being provided by Supervisors.</p> <p>Outstanding issues raised discussed with management &amp; outcomes reached with feedback directly to the work team within a reasonable time frame.</p> <p>Diary or other appropriate recording of meetings with timely feedback to employees on raised issues.</p>
Develop a Rewards Program to improve Safety Culture & increase active participation by all work teams	<ul style="list-style-type: none"> <li>Develop, implement, review &amp; monitor a rewards program. Focus on safe behaviours, reward &amp; encourage attendance at meetings etc.</li> </ul>	<p>Improved morale. Improved safety culture. Reduction in unsafe behaviours or conditions which in turn will result in a reduction in the number of injuries.</p>
Continue on-going OHS training of new & existing staff	<ul style="list-style-type: none"> <li>Undertake inductions of new staff.</li> </ul>	Induction & review of all new staff (evidence available through completion of Individual Induction Booklets).

	<ul style="list-style-type: none"> <li>• Continue internal and external training programs for staff.</li> <li>• As procedures/SWMS are released, appropriate training or instruction is given.</li> </ul>	<p>Annual training plan in place and skills gap analysis.</p> <p>Training record sheets received &amp; skills database updated.</p>
Continue to monitor OH&S compliance	<ul style="list-style-type: none"> <li>• OH&amp;S Coordinator to undertake onsite work visits, provide advice and feedback.</li> <li>• Accident investigation &amp; reporting, ergonomics, manual handling &amp; risk management monitoring</li> </ul>	<p>Areas in need of improvement &amp; areas for recognition reported to Management.</p> <p>Management to act and communicate outcomes and feedback back to staff.</p>
Develop & Review Safe Work Procedures	<ul style="list-style-type: none"> <li>• Review, reformat &amp; consolidate existing SWMS</li> <li>• Ongoing review of OHS Policies &amp; procedures with a view to their effectiveness and legal compliance</li> </ul>	<p>Up to date supervisor manuals.</p> <p>Review all current policies/procedures within 12 months</p>
Develop & complete an annual CIAP (Continuous Improvement Action Plan)	<ul style="list-style-type: none"> <li>• Develop CIAP in consultation with Senior Management following annual OHS audits <ul style="list-style-type: none"> <li>- Internal audits</li> <li>- StateCover Self Evaluation Tool</li> </ul> </li> </ul>	<p>CIAP developed &amp; progress made on required actions. All outstanding CIAP items addressed.</p> <p>&gt;95% evaluation result</p>
Identification of hazards & elimination/reduction of risks	<ul style="list-style-type: none"> <li>• Workplace inspections to be undertaken every 4-6 months</li> <li>• Timely reporting of accident/incidents/near misses</li> <li>• Hazard register in place</li> </ul>	<p>Inspection schedules up to date. Identified issues controlled within an appropriate time frame.</p> <p>All reports received within the required timeframes</p> <p>Interim controls in place immediately, permanent controls considered, reviewed 6 monthly by management. Feedback to be given to staff.</p>

### Environmental Protection

Strategies / Actions	Progress to 31 <sup>st</sup> December 2009
<p>Water returned to the environment from the filtration plant will be monitored for quality.</p> <p>All field work-sites will be protected and restored to eliminate degradation.</p> <p>Soiled water from Urban field site works will be returned for proper disposal.</p> <p>Electrical efficiency will be considered in infrastructure design.</p>	<p>EPA standards achieved.</p> <p>No soil loss or siltation. Vegetation restored.</p> <p>No soiled water entering town drainage systems.</p> <p>Electrical efficiency taken into account.</p>
<p>Marshalls Creek environmental project to restore native vegetation and protect creek bed.</p> <p>Unaccounted for water measured wherever possible, and identified losses reduced. Early detection and repair of leaks.</p>	<p>Native vegetation restored. Stable creek bed.</p> <p>Percentage of water unaccounted for is low. Sign up to LGSA Water Loss program.</p>
<p>Participation in joint activities.</p> <p>Co-operation with other Councils in effluent re-use.</p> <p>Water pricing that gives incentive to avoid waste, coupled with customer education and information.</p> <p>Encourage and advise on possible water saving devices.</p> <p>Decommission of Bores</p>	<p>Group outcomes.</p> <p>Increased re-use where appropriate.</p> <p>Two part tariff achieved.</p> <p>Consumption being monitored.</p> <p>Promotions in progress..</p> <p>Decommissioned as per DWE guidelines.</p>

### Financial Revenue

Strategies / Actions	Progress to 31 <sup>st</sup> December 2009
<p>Stepped tariff, with a differential applying between Wagga Wagga &amp; Rural, subject to some concession for large year round users.</p>	<p>Stepped pricing applied.</p>
<p>New capital works are to continue to require capital contributions from developers. Specific works will be at full cost to the developer while headworks will be partly developer and partly water sales funded, as per the Development Servicing Plan</p>	<p>Funding balance achieved.</p>

**RECOMMENDED** that the report detailing the progress achieved towards the various objectives set out in the 2009/2010 Management Plan be noted and received.

#### **4. SHIRES ASSOCIATION OF NSW - ANNUAL CONFERENCE**

The Shires Association has advised that the 2010 Annual Conference of the Shires Association will be held at the Wentworth Hotel, Sydney, from Monday 31<sup>st</sup> May 2010 to Wednesday, 2<sup>nd</sup> June 2010. The closing date for nomination of delegates and observers is 9<sup>th</sup> April 2010. The Council was represented at the 2009 conference by Ctrs. Kendall and Vidler and General Manager (observer).

In conjunction with the Shires Associations of NSW Annual Conference the Local Government Managers Australia will be holding their annual one-day forum on Monday 31<sup>st</sup> May 2010.

**RECOMMENDED** that:

- (i) Council be represented at the Shires Association of NSW, 2010 Annual Conference;
- (ii) Council's delegate be the Chairman and the General Manager attend as an observer;
- (iii) The Chairman and General Manager be authorised to attend the Local Government Managers Australia Annual one-day Forum on 31st May 2010; and
- (iv) Nomination from any other Councillor as an observer.

#### **5. COMPULSORY ACQUISITION EASEMENTS**

Council's Solicitor has advised that Council's resolutions for the purpose of Application to the Department of Local Government for the compulsory acquisition for easements at Walbundrie and Oaklands need to include additional information.

It is recommended that the following be adopted as Council's resolution:

**RECOMMENDED** that:

**Walbundrie:**

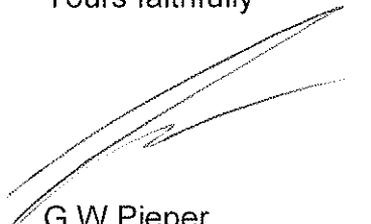
- a) The Council resolves to acquire an easement at Walbundrie 5 metres wide within part reserve 9579, Parish of Walbundrie, County of Hume, Part Lot 25 DP 753763, Parish of Walbundrie, County of Hume; Part Lot 7004, DP 1023952, Parish of Walbundrie, County of Hume; Part Lot 7005 DP 1024197, Parish of Walbundrie, County of Hume, and within travelling stock reserve 84211, Parish of Bulgandry, County of Hume by compulsory acquisition for the purpose of constructing, extending, controlling and managing works for its water supply activities under the Local Government Act;
- b) The Council resolves to authorise the necessary application for compulsory acquisition to the Minister for Local Government and the Governor of New South Wales;
- c) The Council resolves that all minerals on the land be excluded from the compulsory acquisition;

- d) The Council resolves that the Valuer General be engaged to value the land for compensation purposes for the compulsory acquisition and compensation be paid in accordance with this valuation; and
- e) Authority be and is hereby given to affix the Council's Seal on any documentation required for the acquisition process.

**Oaklands:**

- a) The Council resolves to acquire an easement at Oaklands 5 metres wide within Lot 7005 Deposited Plan 1021549 and Crown Land R31478 Deposited Plan 1064561, parish Clear Hill County Urana by compulsory acquisition for the purpose of constructing, extending, controlling and managing works for its water supply activities under the Local Government Act;
- b) The Council resolves to authorise the necessary application for compulsory acquisition to the Minister for Local Government and the Governor of New South Wales;
- c) The Council resolves that all minerals on the land be excluded from the compulsory acquisition;
- d) The Council resolves that the Valuer General be engaged to value the land for compensation purposes for the compulsory acquisition and compensation be paid in accordance with this valuation; and
- e) Authority be and is hereby given to affix the Council's Seal on any documentation required for the acquisition process.

Yours faithfully



G W Pieper  
GENERAL MANAGER

**DIRECTOR OF ENGINEERING'S REPORT  
TO THE GENERAL MANAGER**

**FOR DISTRIBUTION TO COUNCILLORS**

5<sup>th</sup> January 2010

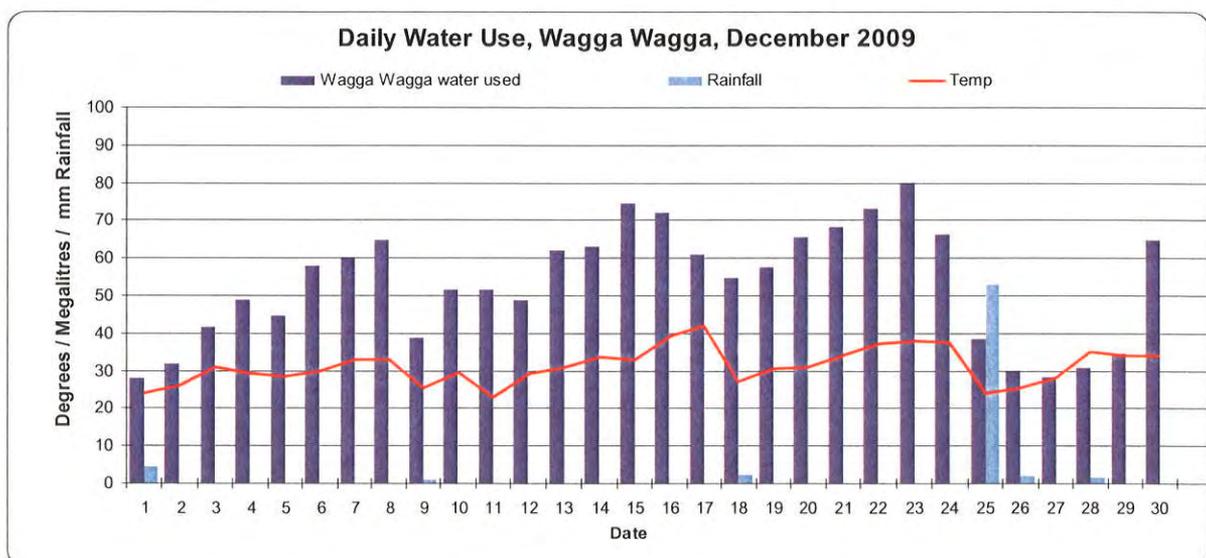
**THE WORKS REPORT COVERING DECEMBER 2009**

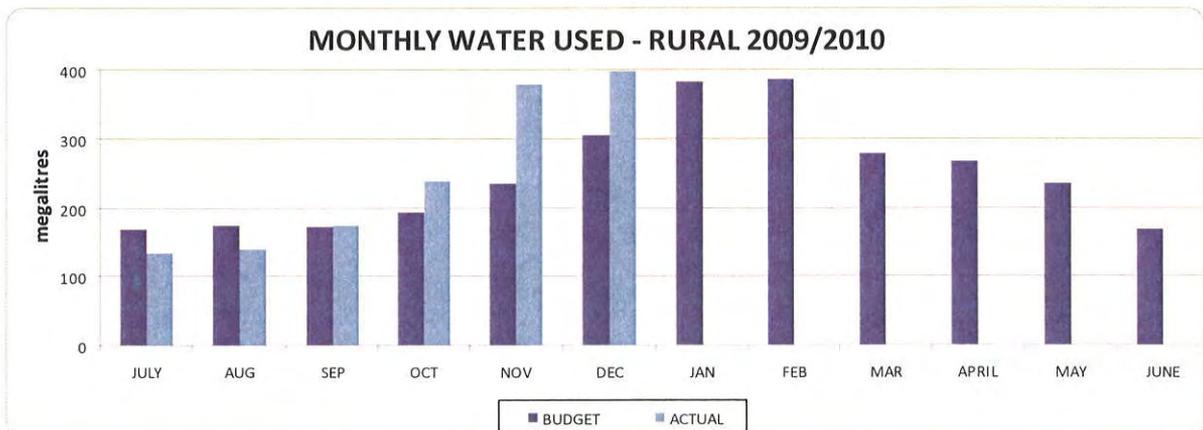
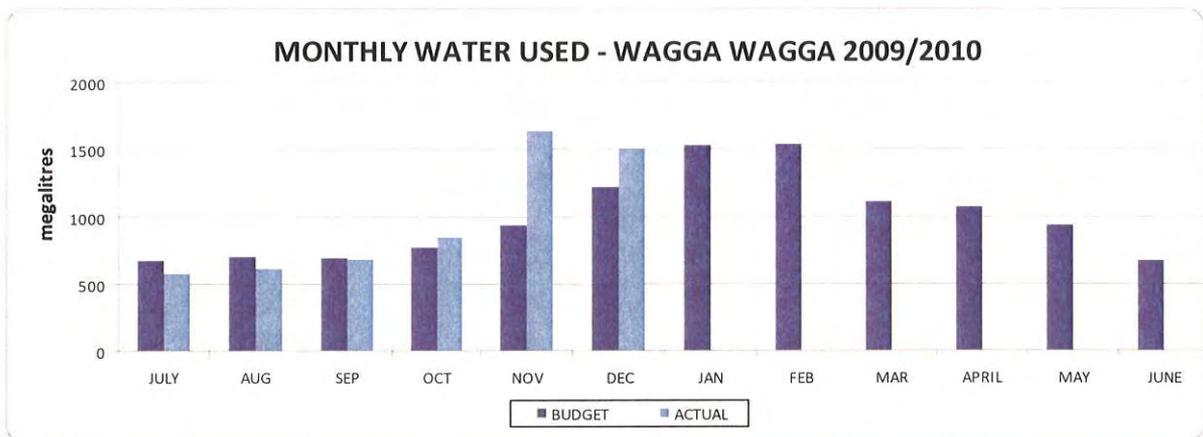
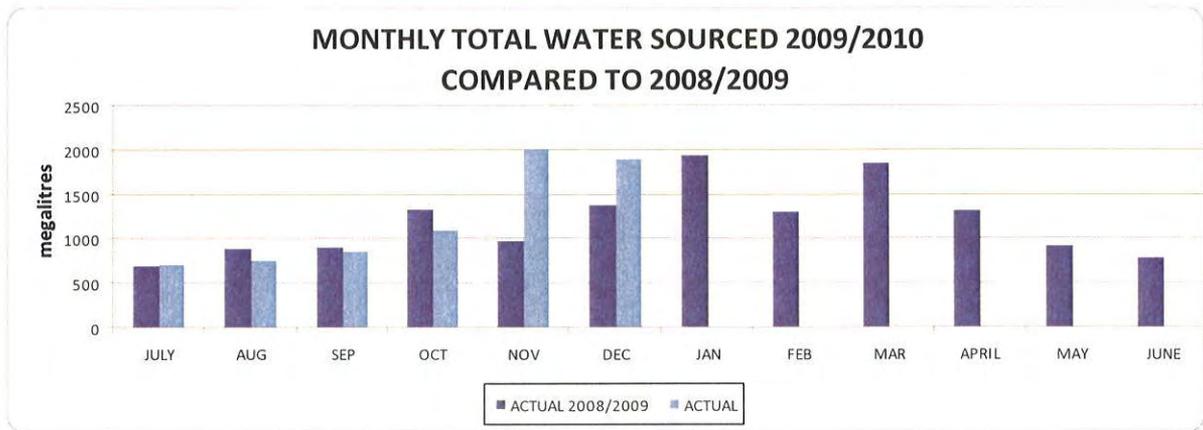
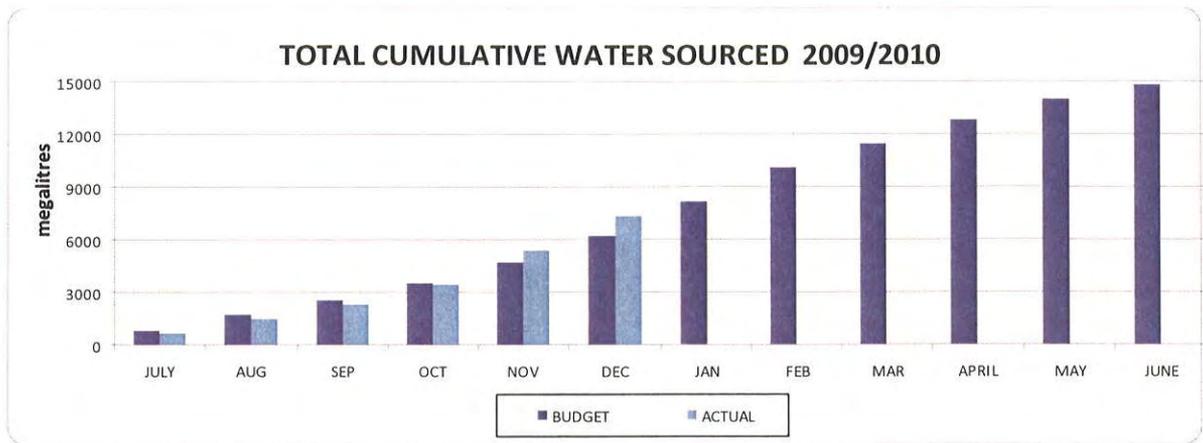
**1. WATER SOURCED AND USED**

	<b>2007</b>	<b>2008</b>	<b>2009</b>
Rainfall - mm	75.0	48.4	65.1
Wet Days	9	6	6
<b>WATER SOURCED FOR DECEMBER – MEGALITRES</b>			
North Wagga bores	202.74	232.66	248.40
West Wagga bores	391.43	433.80	461.37
East Wagga bores	267.89	265.66	290.53
Murrumbidgee River	413.72	625.74	731.57
<b>SUB-TOTAL</b>	<b>1275.78</b>	<b>1557.86</b>	<b>1731.87</b>
Bulgary Bores	43.96	50.53	61.36
Urana Channel	6.83	6.35	9.47
Ralvona Bores	20.40	30.50	35.03
Walla Walla Bores	20.66	27.07	31.47
Goldenfields Water Supply System	1.97	2.34	3.98
<b>SUB-TOTAL</b>	<b>93.82</b>	<b>116.79</b>	<b>141.31</b>
Woomargama	1.18	1.68	1.96
Humula	0.89	1.19	1.60
Tarcutta	5.87	4.68	5.17
Oura	3.41	5.68	5.90
Walbundrie	3.90	3.48	3.89
Morundah	0.50	1.01	1.17
Collingullie	6.49	8.15	8.37
<b>SUB-TOTAL</b>	<b>22.24</b>	<b>25.87</b>	<b>28.06</b>
<b>TOTALS</b>	<b>1391.84</b>	<b>1700.52</b>	<b>1901.24</b>

## WATER USED FOR DECEMBER – MEGALITRES

	2007	2008	2009
East Bomen	24.67	21.41	23.02
Estella	85.05	93.15	98.32
North Wagga & Bomen	58.28	86.87	85.27
Wagga Wagga – Low Level	206.69	320.68	239.29
Wagga Wagga – High Level	677.46	813.85	950.57
Wagga Wagga – Bellevue Level	71.28	90.56	104.67
<b>SUB-TOTAL</b>	<b>1123.43</b>	<b>1426.52</b>	<b>1501.14</b>
Ladysmith	6.10	5.87	7.92
Brucedale	23.04	25.20	29.10
Currawarna	13.90	17.17	18.29
Rural south from Wagga Wagga	119.78	126.40	181.02
Rural from Walla Walla Bore	0	0	31.47
Milbrulong, Lockhart and Boree Creek	27.80	30.73	35.52
Urana and Oaklands	22.48	25.89	32.24
Holbrook	20.40	30.50	35.03
<b>SUB-TOTAL</b>	<b>233.50</b>	<b>261.76</b>	<b>370.59</b>
Woomargama	1.18	1.68	1.96
Humula	0.89	1.19	1.60
Tarcutta	5.87	4.68	5.17
Oura	3.41	5.68	5.90
Walbundrie/Rand	3.90	3.48	3.89
Morundah	0.50	1.01	1.17
Collingullie	6.49	8.15	8.37
<b>SUB-TOTAL</b>	<b>22.24</b>	<b>25.87</b>	<b>28.06</b>
<b>TOTAL</b>	<b>1379.17</b>	<b>1714.15</b>	<b>1899.79</b>





## 2. NEW SERVICE CONNECTIONS, REPAIRS, METERS, LOCATIONS & COMPLAINTS FOR THE MONTH OF DECEMBER 2009

Location	New Connect., residential	New connect., Not-resident.	Services Renewed	Services Repaired	Quality Complaints	Supply Complaints	Customer dealings complaints	Other Complaints	Frost damage	Meter or Metercock fault	Leaking valves or	Locations
Wagga Wagga	20	2	12	4	2	33		13		29	12	3
Brucedale												
Currawarna												
Euberta												
Humula						1						
Ladysmith	1							1			1	
Oura												
San Isidore										1		
Tarcutta					4	3	1			1		
The Gap						2						
Bulgary												
Collingullie												
French Park												
Lockhart												
Mangoplah												
Milbrulong												
Pleasant Hills												
Bidgeemia												
The Rock				1						1	1	
Uranquinty	1			1	1			4				
Yerong Creek												
Culcairn												
Henty	1										1	
Holbrook	1											
Morven												
Walbundrie												
Walla Walla												
Woomargama												
Boree Creek												
Morundah												
Oaklands												
Rand												
Urana												
Bidgeemia												
<b>TOTAL</b>	24	2	12	6	7	39	1	18	0	32	15	3

## 3. WATER SYSTEM REPAIRS

WAGGA WAGGA								
Date	Location	Main Type	Cause	Time			No. of Customers	Water Lost Kl
				Off	On	Out		
1	71 Fernleigh Rd	100 AC	Pipe failure	2100	1230	3.30	0	0
1	71 Fernleigh Rd	100 AC	Pipe failure	1330	1600	2.30	0	0
9	33 Kurrajong Ave	200 AC	Pipe failure	0900	1000	1.00	0	0
12	Glenfield Rd, Jason Nissan	100 CI	Pipe failure	1330	1430	1.00	0	0
20	Urana St, rear of RTA	200 CI	Pipe failure	0600	1030	3.30	0	3
28	1 Jeremy Pl	100 AC	Pipe failure	0930	1100	1.30	14	0
<b>TOTALS</b>						13.00	14	3
Total Breaks – 6			Breaks needing shut off – 6			Breaks affecting customers – 1		

RURAL								
Date	Location	Main Type	Cause	Time			No. of Customers	Water Lost KI
				Off	On	Out		
8	O'Connell St	100 AC	Ground movement – Cracked back	0850	0950	1.00	5	5
9	Mountain View, Walla	100 AC	Tree roots	0715	1330	6.15	1	0
9	Uranquinty St	100 AC	Pipe failure -long split	2330	4.00	4.30	8	500
9	Uranquinty St	100 AC	Pipe failure- long split	1630	1930	3.00	1	500
23	Mitchells Rd	150 AC	Ground movement – cracked back	1.30	3.00	1.30	10	3600
27	Taber St	100 AC	Ground movement – cracked back	0930	1230	3.00	20	300
27	Henty Pumphouse	200 AC	Ground movement – cracked back	1900	23.55	4.55	5	3000
30	Olympic Highway	200 AC	No burst – valve did not shut					
<b>TOTALS</b>						233	50	7905
Total Breaks – 8			Breaks needing shut off – 8			Breaks affecting customers – 7		

#### 4. WATER QUALITY COMPLAINTS

Water quality complaints received during December 2009 were:

Date	Location	Problem	Action Taken
25/11	94 Crampton St, wagga	Cloudy water, customer told to flush house by opening back tap. Customer will call back if still cloudy. Visited site 9/12/09 to check	House flushed, all turbidity <1
2	75 Dobney Ave, Wagga (Ingram Automotive)	Water tasting bad & cloudy for the last week	Flushed all taps until turbidity 1 NTU. Chlorine = 0.15mg/L. Air & dirt from new mains in Bunnings
4	2 College St, Tarcutta	Dirty water	Removed meter and flushed service
13	Williams St, Urana	Dirty water	Cleaned candy tank, backwashed filters
9	Bye St, Wagga	Dirty water at TEK's Electrical located n Bye St	Sample of water analysed – ADWG met. Mains flushed 11/12/09
21	40 Gilmore St, Mt Austin	Foul taste, cloudy & particulate mater	Flushed house. Problem with kitchen tap strainer deposits. All turbs <1NTU. Taste good. Chlorine – 0.90
21	34 Centenary Ave, Tarcutta	Dirty water	Flushed service, get samples
19	Connorton St, Uranquinty	Sand in water	Sand from sandpit someone washed a toy car or truck
23	34 Centenary Ave, Tarcutta	Dirty water	Service air scoured
31	Halfway Motel, Tarcutta	dirty water	Flushed main

## 5. MAINS CONSTRUCTIONS

### 5.1 NEW WORK, EXTENSIONS ETC.

New water mains laid during December 2009 include:

LOCATION	PROJECT	100	150	200	
		DICL	DICL	OPVC	DICL
Bourkelands Stage 21	Mains extension	5.5	27.5		
Barooma Stage 1	Mains extension		22		22
Hammond Ave	Mains extension		33	44	
<b>TOTAL</b>		5.5	82.5	44	22

### 5.2 REPLACEMENT OF EXISTING MAINS

Replacement of existing mains during December 2009 include:

LOCATION	PROJECT	100	150
		DICL	DICL
Forsyth & Berry St RAB	Mains replacement	79	
Hammond Ave	Mains replacement		24
Dobney Ave	Mains replacement	14	253
<b>TOTAL</b>		93	277

## 6. OTHER CONSTRUCTION

Other construction works during December 2009 include:

Location or Project	Work Done
The Rock	Start installing new chlorination plant
Raivona Bore No. 1	Commissioning of new bore - dirty water - air scour main
Collingullie Bores No. 1 & 2	Install new magflow meters & commission - connect to SCADA
Coorabin	Install electric valve
Dobney Ave	Commission new Pressure Reducing Valve - reconfigure pipework and adjust settings
Cheshire St	Setup Pressure Reducing Valve (part of Dobney Ave mains replacement)
Bomen Reservoir	Start preparation for SCADA upgrade
West Wagga Pump Station	Locate all conduits, cables & pipes
Uranquinty Power Station	Upgrade Existing 40mm Service to 80mm Connection
Yarragundry St, Uranquinty	Cut in 100mm Valves either side of 100mm main feeding the Uranquinty Power Station
West Wagga Pump Station	Construct 120M of 100mm oPVC Main for Service Water inside West Wagga

## 7. MAJOR REPAIRS / OVERHAULS

Major repairs/overhauls during December 2009 include:

Location or Project	Work Done
Water Works Raw Water Suction Line	Crack found in No1,3&4 suction main - remove some existing pipework ready to insert new liner
10mill Reservoir	Overhaul chlorinator auto change over units
Mangoplah	Check operations & adjust level control and pressure sustaining valve
Watson Road Pump Station	Replace Magflow meter signal convertor after power surge
Watson Road Pump Station	Check operations & adjust pressure control setting - check operations of 8000 series SCADA unit
Urana Filtration Plant	Replace Alum Pump motor
Humula Well Plant	Replace Hypo Pump
Bulgary Fluoride Plant	Overhaul
Mountain View	Start electrical modifications to control system
Oura Aeration Plant	Adjust overflow alarm & overhaul chlorinator solenoid
Woomargama Reservoir	Recalibrate level transducer
No1 Bore Bulgary	Reconfigure Hydrovar motor starter after power surge
Wagga Switchboards	Check all switch boards for hot connections using Thermal Image equipment
Welders Workshop	Overhead Crane - redirect electrical supply mains
Holbrook SCADA	Failing to reply - replace faulty connection on antenna
Pleasant Hills Pump Station	Check operations of 8000 series SCADA unit
Water Works Pump Test Bay	Replace electrical mains and upsize them from main switchboard

## 8. STAFF TRAINING & SAFETY

The following training and/or safety activities were undertaken during December 2009:

Training or Programme	No. of Staff
First Aid Refresher	1

**RECOMMENDED** that the Director of Engineering's Report covering the month of December 2009 be accepted and the contents noted.

Greg Finlayson  
DIRECTOR OF ENGINEERING

**DIRECTOR OF ENGINEERING'S REPORT  
TO THE GENERAL MANAGER**

**FOR FEBRUARY 2010 COUNCIL MEETING**

8th February 2010

**1. THE WORKS REPORT COVERING JANUARY 2010**

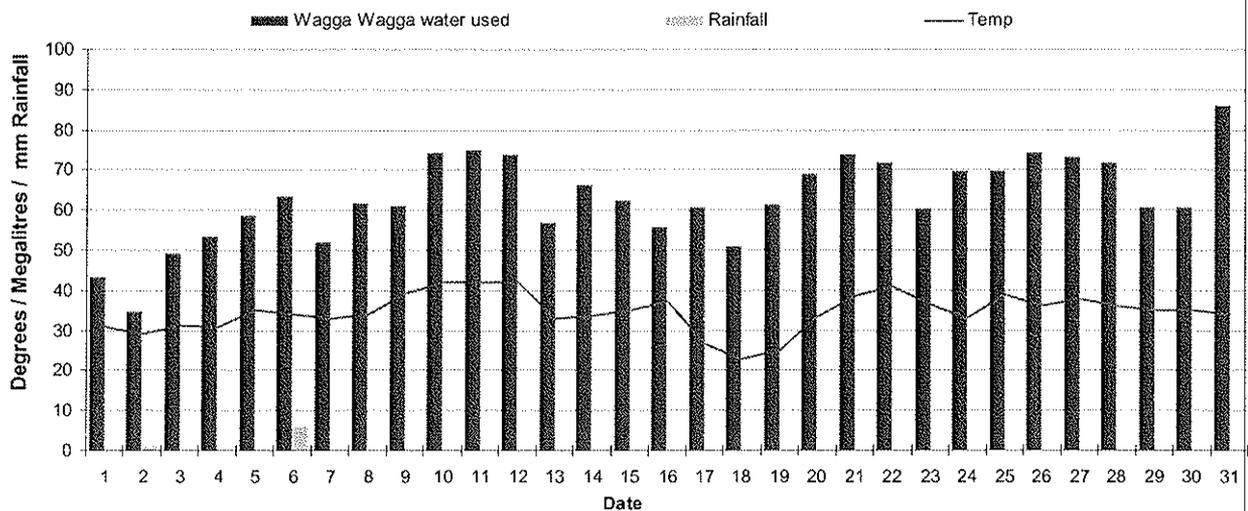
**1.1 WATER SOURCED AND USED**

	<b>2008</b>	<b>2009</b>	<b>2010</b>
Month rainfall (mm)	75	28.8	7.0
Wet Days	6	3	2
<b>WATER SOURCED FOR JANUARY – MEGALITRES</b>			
North Wagga bores	263.71	309.21	294.10
West Wagga bores	405.50	552.99	486.18
East Wagga bores	321.60	308.03	360.81
Murrumbidgee River	815.84	1065.44	1062.10
<b>SUB-TOTAL</b>	<b>1806.65</b>	<b>2235.67</b>	<b>2203.19</b>
Bulgary Bores	60.85	73.55	83.06
Urana Channel	11.18	15.96	15.46
Ralvona Bores	35.86	43.25	43.36
Walla Walla Bores	26.20	39.39	35.52
Goldenfields Water Supply System	4.73	3.62	3.46
<b>SUB-TOTAL</b>	<b>138.82</b>	<b>175.77</b>	<b>180.86</b>
Woomargama	2.22	3.00	2.32
Humula	1.37	1.97	2.05
Tarcutta	8.48	7.60	6.69
Oura	5.83	7.18	7.89
Walbundrie	4.26	5.65	5.92
Morundah	1.00	1.70	1.52
Collingullie	7.76	11.84	10.00
<b>SUB-TOTAL</b>	<b>30.92</b>	<b>38.94</b>	<b>36.39</b>
<b>TOTALS</b>	<b>1976.39</b>	<b>2450.38</b>	<b>2420.44</b>

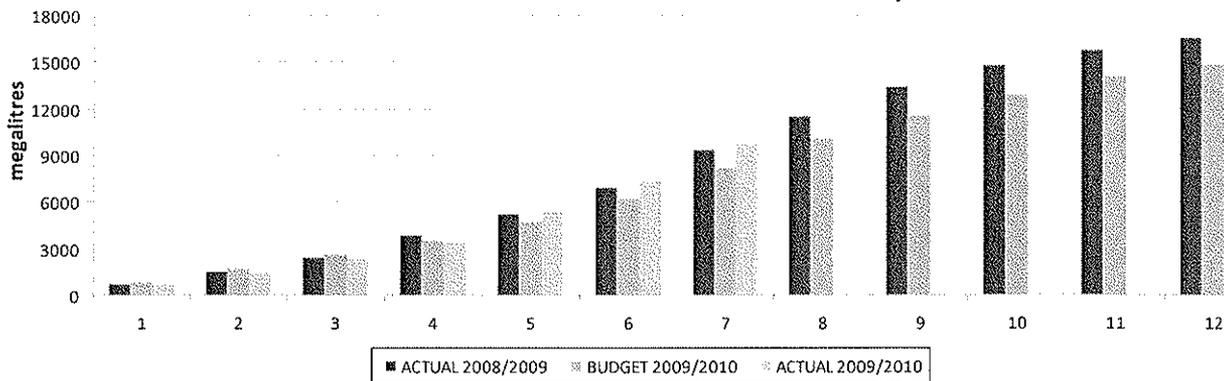
## WATER USED FOR JANUARY – MEGALITRES

	2008	2009	2010
East Bomen	29.16	29.01	21.52
Estella	109.33	117.5	107.01
North Wagga & Bomen	75.59	93.49	107.78
Wagga Wagga – Low Level	278.49	311.80	280.14
Wagga Wagga – High Level	972.53	1245.89	1247.31
Wagga Wagga – Bellevue Level	110.95	141.92	147.73
<b>SUB-TOTAL</b>	<b>1576.05</b>	<b>1939.61</b>	<b>1911.49</b>
Ladysmith	10.03	13.92	9.91
Brucedale	35.99	39.52	39.12
Currawarna	19.13	22.52	23.97
Rural south from Wagga Wagga	164.68	222.59	233.63
Rural from Walla Walla Bore	0	0	35.52
Milbrulong, Lockhart and Boree Creek	39.70	46.44	52.16
Urana and Oaklands	31.10	42.18	42.27
Holbrook	35.86	43.25	43.36
<b>SUB-TOTAL</b>	<b>336.49</b>	<b>430.42</b>	<b>479.94</b>
Woomargama	2.22	3.00	2.32
Humula	1.37	1.97	2.05
Tarcutta	8.48	7.60	6.69
Oura	5.83	7.18	7.89
Walbundrie/Rand	4.26	5.65	5.92
Morundah	1.00	1.70	1.52
Collingullie	7.76	11.84	10.00
<b>SUB-TOTAL</b>	<b>30.92</b>	<b>38.94</b>	<b>36.39</b>
<b>TOTAL</b>	<b>1943.46</b>	<b>2408.97</b>	<b>2427.82</b>

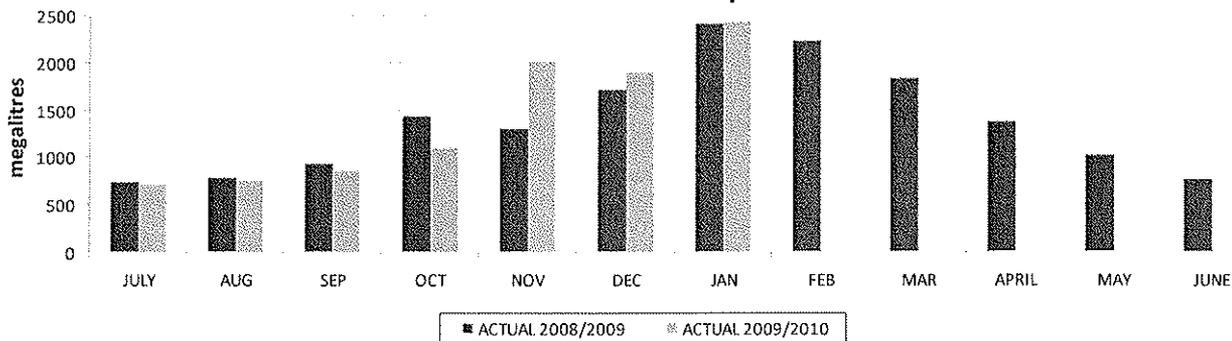
**Daily Water Use, Wagga Wagga, January 2010**



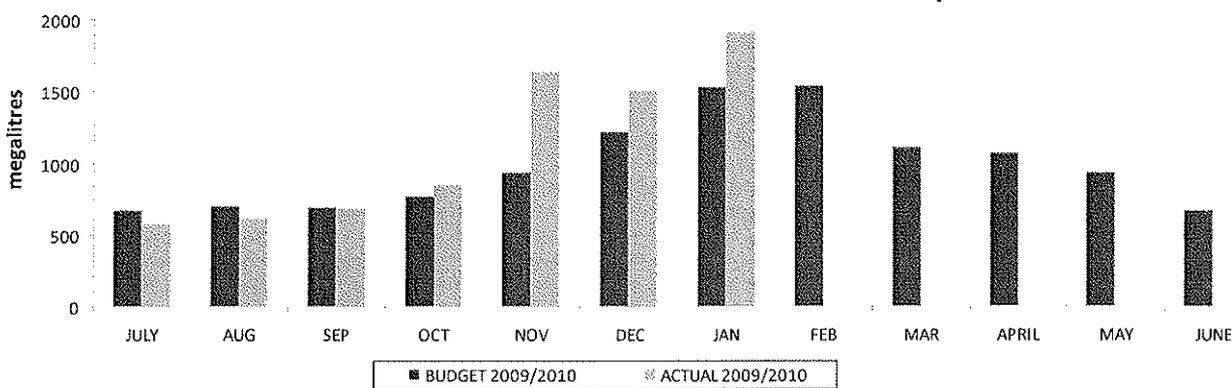
### TOTAL CUMULATIVE WATER SOURCED 2009/2010



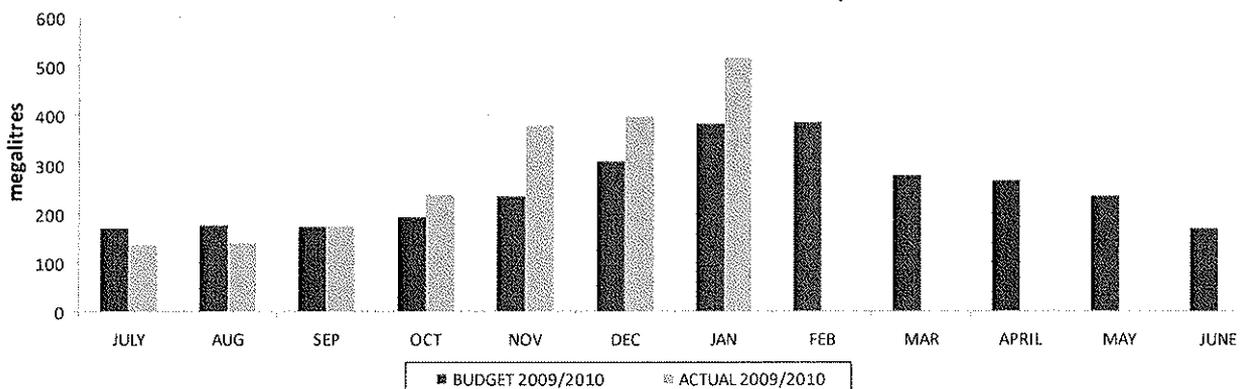
### MONTHLY TOTAL WATER SOURCED 2009/2010 COMPARED TO 2008/2009



### MONTHLY WATER USED - WAGGA WAGGA 2009/2010



### MONTHLY WATER USED - RURAL 2009/2010



## 1.2 NEW SERVICE CONNECTIONS, REPAIRS, METERS, LOCATIONS & COMPLAINTS FOR THE MONTH OF JANUARY 2010

Location	New Connect., residential	New connect., Not-resident.	Services Renewed	Services Repaired	Quality Complaints	Supply Complaints *	Customer dealings complaints	Other Complaints	Frost damage	Meter or Metercock fault	Leaking valves or hydrants	Locations
Wagga Wagga	23	2	1		4	30	1	22		51	7	3
Forest Hill												
Brucedale												
Currawarna						2				2	2	
Euberta												
Humula										2		
Ladysmith						1						
Oura												
San Isidore										1		
Tarcutta					1	1	1			2		
The Gap						8						
Bulgary				1								
Collingullie								2				
French Park												
Lockhart					4	2						
Mangoplah												
Milbrulong						3		1		1		
Pleasant Hills				2		2		1				
The Rock						1						
Uranquinty							1			1		
Yerong Creek				2		1				1		
Culcairn						1		1				
Henty								1		1		
Holbrook				2								
Morven				1								
Walbundrie				1		1	1					
Walla Walla				2		1						
Woomargama										1		
Boree Creek				2								
Morundah												
Oaklands												
Rand												
Urana				2		2						
<b>TOTAL</b>	<b>23</b>	<b>2</b>	<b>1</b>	<b>15</b>	<b>9</b>	<b>56</b>	<b>4</b>	<b>28</b>	<b>0</b>	<b>63</b>	<b>9</b>	<b>3</b>

\* Note: Supply complaints is made up of mains bursts, flow & pressure details

## 1.3 WATER SYSTEM REPAIRS

WAGGA WAGGA									
Date	Location	Main Type	Cause	Time			No. of Customers	Water Lost Kl	
				Off	On	Out			
1	14 McDonough Ave	150 AC	Pipe failure	1800	2030	2.30	0	0	
3	2 McDonough Ave	150 AC	Pipe failure	0630	0900	2.70	0	0	
6	Gap Hall-Downside Rd	100 WPVC	Pipe failure	Live	Rep	0	0	0	
8	Becks Lane	100 WPVC	Pipe failure	2030	2230	2.00	16	0	
9	Maier St	150 AC	Tapping band broken/leaking	0200	0530	3.30	34	30	
9	Cochrane St	100 AC	Pipe failure	0700	0730	0.30	57	10	
10	Gap – Hall	100 WPVC	Pipe failure	2200	2300	1.00	0	0	
12	120 Tarcutta St	100 AC	Pipe failure	1115	1315	2.00	25	0	
12	Urana St	100 DICL	Pipe failure	1730	1930	2.00	20	0	
13	Riverview Dr		Tapping band broken/leaking	Live	Rep	0	0	0	
14	50 Hodson Ave	100 AC	Pipe failure	1730	2000	2.70	3	4	
25	35 Bluett Cr		Pipe failure	Live	Rep	0	0	0	
<b>TOTALS</b>						<b>18.30</b>	<b>155</b>	<b>44</b>	
Total Breaks – 12				Breaks needing shut off – 9			Breaks affecting Customers -6		

RURAL								
Date	Location	Main Type	Cause	Time			No. of Customers	Water Lost Kl
				Off	On	Out		
3	Oaklands Road	100 WPVC	Pipe failure	Live	Rep	0	0	150
7	Mountain View P'house	100 AC	Ground movement	0500	0745	2.45	0	0
9	Urana St	100 AC	Tree root	0730	1100	3.70	8	20
31	Reid St	100 AC	Ground movement	Live	Rep	0	0	150
<b>TOTALS</b>						6.15	8	320
Total Breaks –4		Breaks needing shut off – 2			Breaks affecting customers – 1			

#### 1.4 WATER QUALITY COMPLAINTS

Water quality complaints received during January 2010 were:

Date	Location	Problem	Action Taken
4	4/23 Tucker St, Turvey Park	Water smells and is brown, been like this for months	Front tap turbidity 0.6, back 0.47, laundry 0.21. Units 1 & 2 are OK
12	148 Tarcutta St	Dirty water	Flushed main – service
8	27 Gresham St, Tarcutta	Dirty water	Water at residence checked and main flushed
15	11 The Boulevard, Kooringal	Dirty water	Flushed service
20	Unit 1, 4 Vestey St, Wagga	Water tastes and smells bad for last 3 days	Empty unit found to be problem, all garden taps flushed. Turbidity 0.31, Chlorine 0.45
25	24 Brunskill Ave, Forest Hill	Dirty water	Water tested through home, problem at back tap not used much, flushed till turbidity <1NTU
25	24 Brunskill Ave, Forest Hill	Dirty water in bathroom and kitchen	
22	Lot 102 Day St, Lockhart	Dirty water in house. Issues with reporting to officer.	Long weekend, response delayed. Customer asked to use 608 number for complaint. Findings – refer below
27	Lot 102 Day St, Lockhart	Dirty water in house again	All dead ends sampled in Lockhart. All clear including Lot 102 Day St
27	Lot 102 Day St, Lockhart	Dirty water in house	Operator visited site 1 hour after call. Water at meter was clean, bath water dirty. Samples taken.
28	Lot 102 Day St, Lockhart	Dirty water in house problem, customer quite abusive	No evidence of water quality problem. Appears to be in house.
29	13 The Boulevard, Kooringal	Dirty water	Flushed service

## 1.5 MAINS CONSTRUCTIONS

### 1.5.1 MAINS EXTENSIONS AND NEW WORKS.

New mains extensions during January 2010:

LOCATION	PROJECT	100		150		200	250
		OPVC	DICL	OPVC	DICL	OPVC	OPVC
Barooma Stage 1	Mains extensions	6		101.5		87	
Estella Stage 6	Mans extension				22		
Estella Stage 7	Mains extension		16.5				
Estella Stage 8	Mains extension		16.5				
Plunkett Dr Subdivision	Mains extension			200			
<b>TOTAL METRES CONSTRUCTED</b>		6	33	321.5	22	87	87

### 1.5.2 REPLACEMENT OF EXISTING MAINS

Replacement of mains during January 2010:

LOCATION	PROJECT	100	150
		DICL	DICL
Cullen Rd road crossing	Mains replacement	44	
Dobney Ave	Mains replacement		116.5
<b>TOTAL METERS CONSTRUCTED</b>		44	116.5

## 1.6 OTHER CONSTRUCTION

Construction undertaken during January 2010:

Location or Project	Work Done
Mt Austin High School	80mm live tapping on 300mm main for School irrigation connection
Cnr Plumpton Rd & Cochrane St	Replace broken 100mm valve and install hydrant
Mountain View	Start upgrading of control system
Bomen Reservoir	Construct and position shed ready for SCADA upgrade
Raw Water Suction Pipeline	Relining in progress

## 1.7 MAJOR REPAIRS / OVERHAULS

Major repairs/overhauls undertaken during January 2010:

Location or Project	Work Done
Tarcutta No. 5 Bore	Pump tripping -replace motor starter
Mangoplah	Low level pump tripped - reset breaker
Wagga High Level No1 Pump	Isolation coil failure – replace with new contactor
Uranquinty Reservoir	SCADA failing to respond - raise aerial 3metres
Raw Water No 5 Pump	Motor failure - rewind motor (In Progress)
Gardeners Crossing	Relay vibrated out of socket - refit into position
Gardeners Crossing	Repair line between chlorine analyser
Sludge Plant	Install vibrator on poly batching plant
Sludge Plant	Clean and service centrifuge
Sludge Plant No1 Thickner Pump	Overhaul
The Rock No1 Pump	Overhaul sliprings and brushes
Ralvona No 1 Bore	Fire in Metering Board - cause incorrect LV links on pole and Country Energy connection on fuses - replace metering point
Administration Building	Replace outside fluoro light fitting
Watson Rd	Replace SCADA push buttons
West Wagga	Locate & identify all services, pipes, conduits and irrigation system pipes & control cables

Location or Project	Work Done
Water Works Buildings	Inspect all emergency lighting and exit signs
North Wagga No 2 High Lift	Replace starter with soft starter
North Wagga No 1 Bore	Problems with HV & LV supply - replace VSD drive
North Wagga Fluoride	Replace "Pulse Duration Unit"
Tarcutta	Rearrange Hypo Dosing plant
Tarcutta Iron Filter	Make up fitting to enable air scouring of Iron filter
Tarcutta	Start removal of Old Filters
Morundah	Repair Alum dosing lines
Bulgary High Lift Pump	Realign pump and motor

## 1.8 STAFF TRAINING & SAFETY

Training and/or safety activities were undertaken during January 2010:

Training or Programme	Number
First Aid Refresher	5

## 1.9 COMMENTS ON CONSUMPTION

Water consumption in January 2010 was almost identical to that in January 2009. This is a good outcome as there was only 7mm of rainfall whereas in January 2009 there was 28.8mm. With well above average rainfall in recent weeks, we can be optimistic that water consumption for February 2009 will be well down.

**RECOMMENDATION:** That the Director of Engineering's Report covering the month of January 2010 be accepted and the contents noted.

## 2. DEMAND MANAGEMENT AND RESTRICTIONS

At the December Council Meeting it was resolved that motions be put to the G Division Shires Association Annual Conference concerning water allocations and restrictions. These motions were drafted jointly with Goldenfields Water. The four motions were seeking commitments from the Minister for Water and the NSW Government to change the local management of water allocations and restrictions.

To progress these issues a meeting was convened by the General Manager with the Commissioner of the NSW Office of Water, David Harriss, in Albury on the 3<sup>rd</sup> February 2010. The motions and related issues were discussed in depth and Mr Harriss was very receptive to the matters raised.

The main matters discussed were as follows.

- Riverina Water customers need consistency to allow them to progressively introduce demand management measures, not transient restrictions.
- Riverina Water needs an interim measure of water availability for planning purposes including making an IWCM plan with a 30 year planning horizon.
- Restrictions regimes in our region are conflicting, complicated and confusing for customers.

The outcomes of the meeting were very positive. The agreed way forward included the following:

- a) The Commissioner offered to hold back requests to LWU's to impose restrictions until September, when the High Security allocation is usually back up to 60% and restrictions unnecessary.
- b) Agreed to work towards standardising water restriction terms and offered the cooperation of his senior staff to investigate this. Consultation with senior NOW staff has commenced. It has been mentioned that this has been attempted before without much success.
- c) Investigate the scope for a pilot scheme which will estimate an interim sustainable supply capacity for our local valley, including Goldenfields Water. The Commissioner again offered assistance and Goldenfields Water have indicated they will be a party to investigating this pilot scheme.

The need for "interim" measures refers to the many years we may have to wait for this drought to end, for the Murray-Darling Basin Plan to achieve meaningful outcomes and to have in place an effective and working Water Sharing Plan.

The pilot scheme would aim to use existing aquifer models to estimate the sustainable yield from the local aquifer, being some 20 kilometres in length. In addition, a similar estimate may be determined for surface water. This may introduce more local ownership and management of the source and what is abstracted from it sustainably. The need for it to be a pilot is that it would be outside the existing state management criteria and thus would need special concessions. One aim is to produce meaningful results that can be incorporated with IWCM planning.

Work is proceeding now on the matters discussed with the Commissioner and will compliment the motions directed to the Shires Association and the Minister.

The 2010/11 Management Plan will need to allocate significant funds for profound demand management in conjunction with the pilot scheme and IWCM. Most will agree per capita demands in our area are generally very high. The pilot scheme is aimed to calculate how much too high, taking into account future growth.

The big picture for demand management depends on managing end uses. There are many end-uses in the Riverina Water distribution system, including about 50,000 toilets. In December 2009 expressions of interest were invited to provide Council with a toilet rebate scheme. Prime Industries in partnership with Coroma Dorf were the successful bid and the details of the scheme are being finalised. The program for 2009/10 is by agreement and the cost to Council is estimated to be \$20,000.

This toilet rebate program is almost identical to that being run by a number of other NSW Councils. Prime Industries do most of the work and Council's main contribution is a \$100 rebate per toilet retrofitted and assistance with promotion of the scheme. A meeting with members of the Master Plumbers Association was held on 17<sup>th</sup> February to plan the work.

**RECOMMENDATION:** That the report on demand management and restrictions be received and noted.

### 3. PORTABLE METERED STANDPIPES

In December 2009 Council resolved to withdraw portable standpipes following consultation with the users regarding alternative means for them to get access to water. There have been a number of letters received on the subject. Some of these letters were from farm operators who were not on our books as having a portable standpipe and in fact borrowed a standpipe. The consultation period has been extended to allow further investigations and discussions about how the water is currently used and what are the alternatives.

A NSW Government subsidy exists for fixed standpipes which offer potable water for drought relief. In our review of fixed standpipes, we have taken into account travelling distances, flow capacity, traffic issues, custodians and other aspects and developed a program. The program has accelerated the installation of new and replacement fixed standpipes to offer drought relief to existing water carriers, improve access for future emergency and drought relief and to take advantage of the subsidy available. The subsidy funds the first \$15,000 of the installation cost. The plan is to install nine standpipes in 2009/10, of which seven may be subsidized. The cost of each installation is approximately \$22,000.

The irregularities discovered during consultation to date are many and need action. Backflow risks are a major concern. The Council's conditions that apply to portable standpipes are summarized below. These conditions are dated 2002.

- Use of only nominated hydrants and advice to the Works Depot or Rural Supervisor in advance of water being draw.
- Special approval for long term use.
- Regular monthly reading and submitting usage details to the Wagga office of Riverina Water.
- Responsibility for damage or loss to the main, hydrant and standpipe.
- The requirement for backflow prevention or an air gap.
- Correct procedures for standpipe operation.
- Not leaving standpipes unattended.
- Withdrawal of permission to use if conditions not complied with.

These conditions are to minimise the impact on flows and pressures, on water quality, on disruption to customers and damage to mains and hydrants. Generally we have confirmed that compliance with these conditions is not good.

The biggest concern is that the portable standpipes, due to drought stresses, have become, to an extent, de facto water connections. Many of the users were found to be adjacent to our mains. In the development of the Pleasant Hills scheme farms were connected at costs ranging between \$6,000 and \$90,000. It is inconsistent and inequitable for their neighbours to attain the same water security without a connection. I am pleased to report that due to our recent consultation two portable standpipe users applied and were connected with a regular metered service in early February.

I propose to defer the withdrawal of the portable standpipes until the hot and dry weather is past and the fixed standpipe access improvements are progressed. The existing users will have to travel further but this is inevitable and no different to the circumstances within the areas of other water utilities such as Goldenfields Water.

**RECOMMENDATION:** That the report on portable metered standpipes be received and noted.

## **4. WATERWORKS MASTER PLAN**

### **4.1 Introduction**

The draft 2010/11 Management Plan which will go before Council in April 2010 will contain items which are part of the future development of the Waterworks site in Hammond Avenue, Wagga Wagga. Various works at this site will progressively follow a masterplan which has been developed recently following investigations over many years. One of the key items is the replacement and augmentation of the water treatment plant. It is appropriate that the key elements of the Waterworks Masterplan be adopted now to facilitate an integrated outcome over the next five years of development of the site.

The process for developing the Masterplan has been to compile all the related decisions and ideas of the past years and evaluate them. This evaluation and confirmation was carried out in a workshop by senior staff. The criteria for adopting the future site for these operations was mostly of an absolute nature and does not require NPV evaluations. The adopted Masterplan will still allow a degree of flexibility to optimize the various components.

### **4.2 Water Treatment Plant**

The water treatment plant referred to here is that which treats surface water from the Murrumbidgee River. The treatment facilities at Hammond Ave for treating East Wagga bore water are relatively new and will remain as they are.

The existing water treatment plant, including the pumping facilities, has components constructed in the 19<sup>th</sup> century for steam driven pumps. The water treatment plant was constructed in two stages, each consisting mainly of a circular upflow clarifier and banks of pressure filters. Plant No. 1 was constructed during 1938 and 1939 and Plant No. 2 was constructed in the period 1953 to 1962. The raw water pumping wells date back to the mid 1880's.

The rated capacity of the existing surface water treatment plant is 44 ML per day. It is proposed to replace this plant in two stages. The first is a 40 ML per day plant replacing the existing capacity. This would be designed to accommodate a further 40 ML per day extension when demand requires the additional treated surface water. This may be around the year 2025.

The specifications for this plant will be based on investigation work currently underway. This work includes IWCM planning, network modeling, groundwater yield investigations, pilot plant trials and demand management. All these investigations will influence the size, type and staging of the water treatment plant to some extent. However the main driver for the first stage is the replacement of very old assets.

There are many components of the plant that are well below modern standards and unreliable. The recent failure of the raw water suction main through the river bank and into the pumping well not only compromised our production capacity but has confirmed that the whole raw water suction system requires replacement to ensure we don't have further failures.

The filter underdrain system for both plants has been an issue for many years. The filters have been nurtured and repaired at great cost over recent years. It is a credit to staff that they continue to produce high quality water. Repairs in 2009 by specialist contractors to the structural concrete on filter bank 4a (constructed in 1962) has not stopped leaks underneath the filters.

The plant is manually operated for up to 24 hours per day in shifts over summer with a very low level of automation. The flow adjustment, chemical dosing, and laboratory facilities are not of the modern era. The layout of the whole plant, including buildings and pipework, is the result of 130 years of add-ons, adjustment and compromise.

The alternative sites previously considered for Wagga's surface water treatment plant are Pomingalana and Copland Street. Both these sites were reviewed in the workshop but do not justify any relocation. Any site downstream of Wagga's treated wastewater returns into the Murrumbidgee River from the Koorinal and Narrung St plants add an unnecessary risk. Also the cost of a new power supply and relocating trunk mains is substantial. The Hammond Avenue site is well located for distributing water in all direction via existing and future trunk mains. The recent development of the sludge treatment facility at a cost of \$1.9m, including licensing, would disadvantage any move from the current site.

### **4.3 Depot and Workshop Facilities**

Council has already constructed a new workshop for fleet, mechanics, welders and builders. The 2009/10 Budget has allocated \$750,000 for a new workshop for electrical and mechanical fitters. These buildings are set out as key items of the Masterplan.

The existing depot and store building has office accommodation to a reasonable standard but the ancillary buildings consist of an array of tin sheds and a demountable office for team leaders. The main deficiency is roofed housing for PVC pipes. These pipes are currently stored in the yard, exposed to UV light which degrades the pipe over a short period.

The Masterplan includes a new depot and store building. This sets out the office and storage in a configuration that matches our structure and operations. This building is proposed to be constructed in 2011/12 at an estimated cost of \$2.5m.

The existing brick buildings currently used as the depot will remain fully functional with little change to the training, meter reading, plumbing and storage activities. One spare room may be dedicated to treatment operations associated with the new WTP.

### **4.4 Pump Housing**

The space currently occupied by fitters is the large brick and iron shed next to the river. Once vacated this space will be available for future high-lift pumps. The Wagga Low Level pumps, installed in 1938, are currently cramped in the original 1880's building and are not to a modern standard. These will eventually be relocated or replaced.

The Wagga High Level pumps and their more modern brick building, including the main switch-room, will remain as they are but will need a degree of duplication in the future. The adjoining Shires pumps station will be demolished and new pumps relocated.

A completely new Raw Water pumping station will be constructed adjacent to the new WTP. The old suction piers will be demolished.

### **4.5 Clear Water Storage**

Clear water storage is the treated water stored for later pumping as demand requires. Currently the clear water storage consists of two below-ground tanks, one being under No.2 Clarifier. Because these are low, they provide poor suction pressure to high-lift pumps. In fact we can only effectively use the top 52% of the clear water storage before priming of pumps becomes an issue. This makes the treatment plant operation more manually intensive in the process of balancing incoming and outgoing flows.

The Masterplan proposes to convert the two existing clarifiers to clear water storage reservoirs. These are both higher and larger than the existing arrangement. The clarifiers will be stripped of all the superfluous treatment hardware, including the floc tank and wooden baffles in No.2 Clarifier.

#### 4.6 Heritage Buildings

There is an historical aspect to some of the buildings and although none have a preservation order it is important that we preserve some of the rich history of the site. However there should be clear demarcation between what is retained for historical purposes and what is used for operational purposes.

The old buildings which are retained in the Masterplan are as follows:

- The 1880's Wagga pumping station building.
- The large waterworks shed.
- The old riverside residence.
- The round and oval wells
- The chimney

#### 4.7 Flooding and Access

The existing plant has buildings which are not protected from a flood of 1974 magnitude. Any new development must comply with flood protection criteria. This may or may not include a levee bank or raising the effective floor level of any new building.

Vehicle access to and from Hammond Ave is an issue for any business in the street, but is exacerbated for Riverina Water due to the narrowing of two lanes to one for the Marshalls Creek Bridge. It appears the RTA have no plans to remove this hazard. The Masterplan allows for alternative access options.

#### 4.8 Masterplan Layout

The attached plan shows the developments under the Masterplan. At this stage it is not the detail which is being adopted, but the overall strategic positioning of key facilities.

The items are colour-coded with respect to their status. This plan, and it's variations, constitutes the Masterplan.

#### 4.9 Program and Costs

The preliminary program for construction of the main elements of the Masterplan are set out below. This includes budget estimates of cost.

	<u>Cost \$m</u>	<u>Masterplan Expenditure to 2014/15 - \$m</u>					
		<u>09/10</u>	<u>10/11</u>	<u>11/12</u>	<u>12/13</u>	<u>13/14</u>	<u>14/15</u>
<u>Item</u>							
Fitters/Electrical workshop	0.750	0.750					
Powerline relocation	1.900		1.500				
Store Building	2.500			2.500			
WTP - stage 1 (40ML)	17.000		1.300	4.000	9.000	2.700	
WTP ancillary work	1.100		0.500	0.500	0.500		
Highlift Pump station	0.200		0.200				
Access & flood proofing	2.000						2.000
WTP - stage 2 (80ML, 2025)	10.000						
<b>Total Expenditure</b>		<b>0.750</b>	<b>3.500</b>	<b>7.000</b>	<b>9.500</b>	<b>2.700</b>	<b>2.000</b>

The cost over the next five years for work on the components of the Masterplan will be incorporated in the five-year rolling plan of the Management Plan. The largest expenditure is in 2012/13 due to construction of the Water Treatment Plant.

At present we are negotiating with Country Energy who are also developing a Masterplan for their operations in Hammond Ave. Together we have identified pipes, powerlines and land matters which were not fully rationalized when the two entities separated in the 1990's. The items which have the most impact on our Masterplan are the three high voltage overhead powerlines which pass right through our site. It is proposed that these be placed underground. Country Energy are also planning to replace the outdated substation at the Waterworks. We are negotiating with them to ensure our future needs are accommodated.

**RECOMMENDATION:**

- a) That the Wagga Wagga Waterworks Masterplan be adopted as a guiding document comprised of this report and drawing 10-3059.
- b) That, the existing Hammond Avenue site be further developed to include a new surface water treatment plant, new depot and store building, and ancillary works in accordance with the Masterplan.

**5. RED HILL RESERVOIR AND TRUNK MAIN PROGRESS**

**5.1 Red Hill Road Reservoir**

Work on the new 10 ML Red Hill Reservoir is progressing well. A public meeting was held in December 2009 as part of the consultation and planning process. This meeting was addressed by the Chairman and staff who outlined the various aspects of the proposal. It is fair to say that the small attendance and the feedback received were indicators of a reasonable degree of acceptance of the proposal.

There have been some delays to finalising the land lease due to the need to construct a site fence that crosses the fire trail and walking track. Staff have met with Wagga Wagga City Council and agreed on a fence alignment that will allow walking tracks to remain open by re-directing pedestrians around the worksite.

Tenders were called for earthworks and the earthworks contract is currently being let.

The specification for the design and construction of the reservoir is now completed and provides for either a concrete or steel reservoir. The tender will be advertised in late February.

Staff have met with Wagga Wagga City Council regarding vehicular access onto Red Hill Road and the need for left-turn-only and stop signs. This will be dealt with at that Council's next Traffic Committee meeting.

## 5.2 Red Hill Road Rising Main

The 600mm ductile iron pipe has been pre-purchased and is ready for delivery to site. The current field work being undertaken is on the route details and particularly with regard to avoiding other utility infrastructure and services.

Work on the construction drawings will be completed by early March.

This pipe project is a critical connection which not only serves growth in the southern areas of Wagga Wagga, but also allows more flexibility to attain the balance between water sourced from Hammond Ave and that sourced from the West Wagga sources. This balance is effectively the balance between surface and groundwater.

**RECOMMENDATION:** That the report on progress on the construction of the Red Hill Reservoir and Trunk main be received and noted.

## 6. TENDER W141 - DESIGN AND CONSTRUCTION OF RURAL OVERHEAD ELECTRICAL SUPPLY TO COLOMBO CREEK PUMP STATION

Tenders were called to design and construct a 9 km extension of 22 kV power line to supply the new Colombo Creek pumping station. Tenders closed on the 27th January 2010. The work is programmed in parallel with the construction of the new pumping station. This will allow full use of the new Urana raw water pipeline next summer.

Five tenders were received and are summarised below:

Tenderer	NJ Construction Pty Ltd	Cowell Electric Pty Ltd	Great Southern Electrical	Powerserve Australia Pty Ltd	Poles & Underground Pty Ltd
Price (ex GST)	\$281,454.55	\$346,000.00	\$373,863.02	\$494,981.86	\$475,985.00

Cowell Electric and Poles & Underground both failed to submit the 1% tender deposit required in the specification.

The only tenderer who conformed to the eight week completion period specified in the schedule was NJ Construction. Other tender schedule durations ranged from 13 weeks to 19 weeks.

All tenderers have submitted similar designs that utilise 12.5m timber poles at 140m to 190m pole spacings with 7/3.00 Fluorine wires. The designs all follow Country Energy's design criteria.

The evaluation was based on a range of criteria including price, experience, compliance, quality of materials, design and program.

NJ Construction Pty Ltd is a Grade A Accredited Service Provider on the Department of Fair Tradings database and are recommended predominantly on the basis of the price tendered.

**RECOMMENDATION:** That the tender for construction of electrical supply to the Combo Creek Pump Station be awarded to NJ Construction Pty Ltd for an amount of \$281,454.55 (excluding GST).

## 7. INTEGRATED WATER CYCLE MANAGEMENT

Work on the Joint Integrated Water Cycle Management Evaluation Study has proceeded well and is almost completed. The Draft Evaluation Study report was reviewed by the Project Committee on the 12<sup>th</sup> February. The Evaluation study recommends that Riverina Water will be required to do a detailed IWCM strategy. This is no surprise as we have many substantial projects before us.

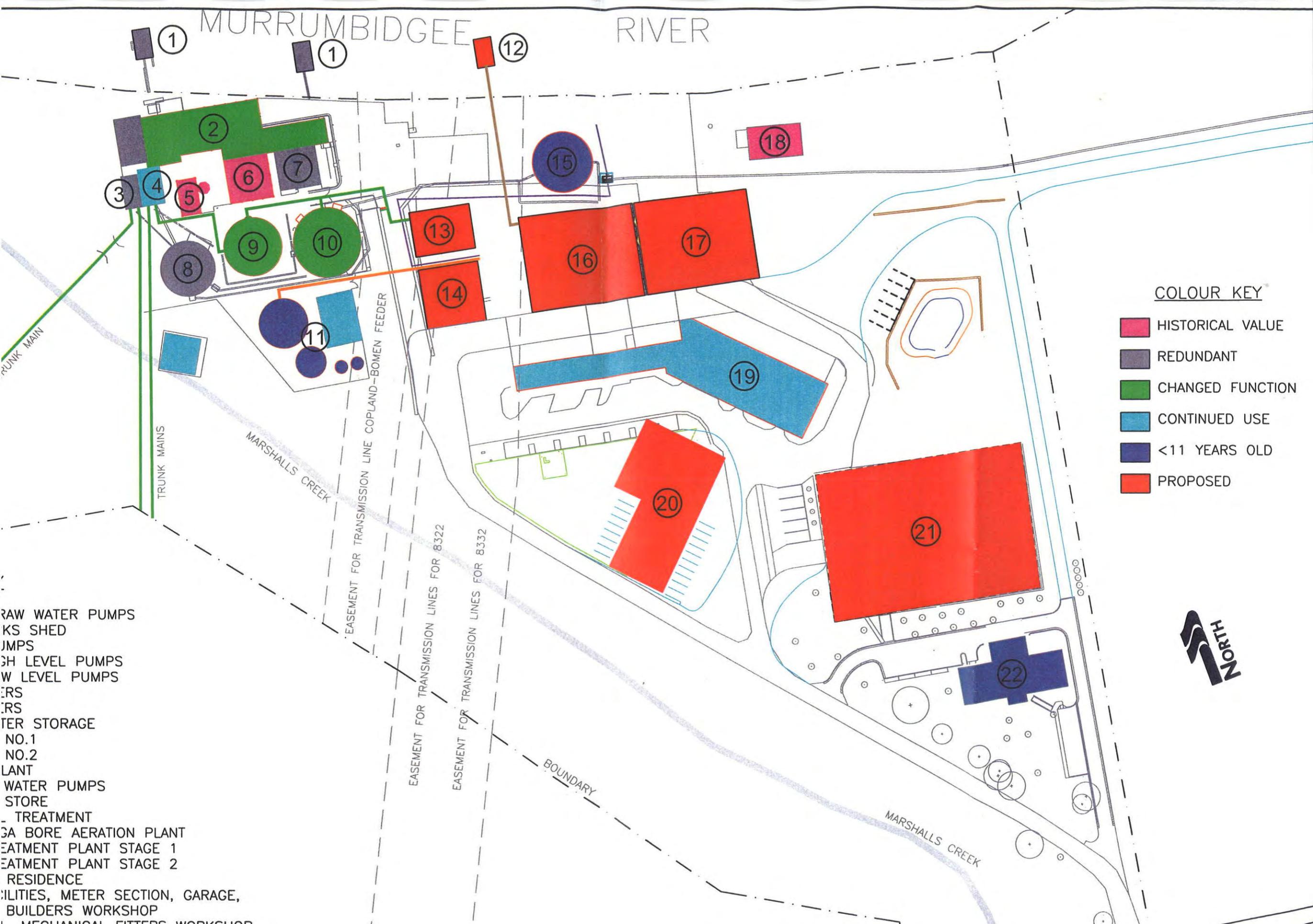
The final report will be available at the end of March 2010. The Project Committee will meet to determine how the respective Councils conduct the strategy stage of IWCM. It is likely that this will again be undertaken using one consultant, but possibly with separate briefs and accounting. Not all the Councils require a detailed strategy.

**RECOMMENDATION:** That the report on Integrated Water Cycle Management be received and noted.



Greg Finlayson  
DIRECTOR OF ENGINEERING

# MURRUMBIDGEE RIVER



## COLOUR KEY

- HISTORICAL VALUE
- REDUNDANT
- CHANGED FUNCTION
- CONTINUED USE
- <11 YEARS OLD
- PROPOSED

- RAW WATER PUMPS
- WORKS SHED
- PUMPS
- HIGH LEVEL PUMPS
- LOW LEVEL PUMPS
- OFFICES
- OFFICES
- WATER STORAGE
- NO.1
- NO.2
- PLANT
- WATER PUMPS
- STORE
- TREATMENT
- WIND BORE AERATION PLANT
- TREATMENT PLANT STAGE 1
- TREATMENT PLANT STAGE 2
- RESIDENCE
- UTILITIES, METER SECTION, GARAGE,
- BUILDERS WORKSHOP
- MECHANICAL FITTERS WORKSHOP

