

# Great Artesian Basin Sustainability Initiative: Phase 3 - State of New South Wales Implementation Plan 2010-2011

## NATIONAL PARTNERSHIP AGREEMENT ON THE GREAT ARTESIAN BASIN SUSTAINABILITY INITIATIVE

### PRELIMINARIES

1. This Implementation Plan is created subject to the provisions of the Intergovernmental Agreement on Federal Financial Relations and the National Partnership Agreement on the Great Artesian Basin Sustainability Initiative ('the NPA') and should be read in conjunction with those agreements.
2. The Commonwealth has agreed to provide up to \$30 million to the State of New South Wales ('the State') under the third phase of the Great Artesian Basin Sustainability Initiative ('the Program') to assist in the capping and piping of all Great Artesian Basin bores legally operating in an uncontrolled state and related activities ('Projects').
3. The State is committed to the capping and piping of all Great Artesian Basin bores legally operating in an uncontrolled manner and has nominally allocated matching funds to Projects approved and funded under the NPA.
4. Should the funding referred to in Clauses 2 and 3 likely be insufficient to cap and pipe all such bores in the State, the State shall ensure such funding meets agreed selection criteria that have the primary aims of maximising water savings and providing the greatest protection to natural springs in the Basin.

### ENFORCEABILITY OF THIS IMPLEMENTATION PLAN

5. The Parties do not intend any of the provisions of this Implementation Plan to be legally enforceable. However, that does not lessen the Parties' commitment to this Implementation Plan.

### PERFORMANCE BENCHMARKS AND MILESTONES

6. The State agrees to meet the performance benchmarks, indicators and/or milestones identified in the Projects Submission found at Annexure 1 to this Implementation Plan.

## ROLES AND RESPONSIBILITIES OF EACH PARTY

### The Commonwealth

- (a) Having completed an assessment of proposed Projects in accordance with the Assessment Guidelines and Project Eligibility Criteria contained in Schedule A to the NPA, the Commonwealth will provide a financial contribution of up to \$3.347 million (GST exclusive) to New South Wales for new Projects specified in the Projects Submission and \$ 1.914 million to New South Wales for previously agreed Projects carried forward, as specified in the Projects Submission.

### 7. The State will:

- (b) ensure that Projects specified in the Projects Submission are undertaken efficiently with fair, equitable and transparent processes and in conformity with the State's best technical, environmental and financial practices;
- (c) deliver each approved Project in accordance with the Projects Submission;
- (d) prepare an Annual Performance Report by 30 September 2011 on achievements against performance benchmarks, indicators and milestones specified for all Project activities in the annexed Projects Submission, in a form similar to that outlined in Annexure 2 below;
- (e) ensure to the fullest extent possible that at least 70 per cent of the water saved under the Great Artesian Basin Sustainability Initiative will be directed to restoring pressure in the Basin and not be reallocated for consumptive purposes, and
- (f) ensure that funding will not be used for increasing the watered area of a property. (The watered area of a property will be determined by the application of a formula described in the Projects Submission to the current network of open bore drains. If the geographical location of the watered area on the property supported by the new controlled watering system is altered by a Project, the State will ensure that:
  - i the overall area served by that system is no greater than the watered area served by the current uncontrolled system;
  - ii it is no more costly than the cost that would have been incurred to water the original geographical area with a controlled watering system; and
  - iii water remote areas are protected.)

## FUNDING, MILESTONES AND PAYMENTS

8. The Commonwealth will provide to the State funding in accordance with the following Milestone Funding Schedule:

Milestone	Performance benchmark	Performance indicator	Date for payment on completion of performance benchmark	Payment	
1	Approval of the Implementation Plan	Implementation Plan submitted by New South Wales agreed to by Commonwealth Minister	Within 60 days of Commonwealth's Minister's agreement	Previously agreed Projects carried forward	New Projects  33 1/3 % of the total cost as specified in the 'Total Planned GABSI funding C'wealth \$' column in the Project Submission will be paid
2	New South Wales completes agreed milestones for a Project contained in the agreed Projects Submission	Authorised New South Wales official certifies that agreed milestone or milestones have been completed in accordance with the agreed Projects Submission	By 7 October 2011, subject to such certification being made by the authorised official by 20 September 2011.	Should it be certified that only midpoint milestone has been completed 50% of the total cost of the Project as specified in the 'Total Planned GABSI funding C'wealth \$ carried forward' column in the Project Submission will be paid, or should it be certified that only the completion milestone (with no midpoint) or both the midpoint and competition milestones have been completed 100% of the total cost of the Project as specified in the 'Total Planned GABSI funding	Should it be certified that the midpoint milestone has been completed 33 1/3 % of the total cost of the Project as specified in the 'Total Planned GABSI funding C'wealth \$' column in the Project Submission will be paid, or should it be certified that only the completion milestone (with no midpoint) or both the midpoint and competition milestones have been completed 66 2/3% of the total cost of the Project as

C'wealth \$ carried forward' column in the Project Submission will be paid , specified in the 'Total Planned GABSI funding C'wealth \$' column in the Project Submission will be paid

3	New South Wales completes agreed milestones for a Project contained in the agreed Projects Submission	Authorised New South Wales official certifies that agreed milestone or milestones have been completed in accordance with the agreed Projects Submission	By 7 October 2011, subject to such certification being made by the authorised official by 20 September 2011.	Should it be certified that only midpoint milestone has been completed 50% of the total cost of the Project as specified in the 'Total Planned GABSI funding C'wealth \$ carried forward' column in the Project Submission will be paid , or should it be certified that only the completion milestone (with no midpoint) or both the midpoint and competition milestones have been completed 100% of the total cost of the Project as specified in the 'Total Planned GABSI funding C'wealth \$ carried forward' column in the Project Submission will be paid ,	Should it be certified that the midpoint milestone has been completed 33 1/3 % of the total cost of the Project as specified in the 'Total Planned GABSI funding C'wealth \$' column in the Project Submission will be paid, or should it be certified that only the completion milestone (with no midpoint) or both the midpoint and competition milestones have been completed 66 2/3% of the total cost of the Project as specified in the 'Total Planned GABSI funding C'wealth \$' column in the Project Submission will be paid
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9. Payment will be provided by the Commonwealth Treasury to the New South Wales Treasury in accordance with the above Funding Schedule arrangements.

## VARIATION OF PROJECTS SUBMISSION

10. Where either the Commonwealth or the State considers the performance of a Project will not meet the performance benchmarks or indicators specified in the Projects Submission, the Parties will immediately:
  - a) review the Project with a view to reaching agreement on how best to meet those benchmarks or indicators (such as through varying the Project's activities, or estimated date of completion of those activities); and
  - b) if agreement cannot be reached, either Party may thereafter terminate the Project at a subsequent date notified in writing to the other Party.
11. If the Project activities are varied under Clause 10, the Commonwealth's contribution will, in the absence of agreement to the contrary, change proportionately to the variation.
12. If a Project is terminated under Clause 10, the Commonwealth will contribute only for activities completed before the date that the Project is terminated.
13. If a Project is varied or terminated under Clause 10, any such change will be recorded as a variation to the Projects Submission.

## VARIATION OR TERMINATION OF IMPLEMENTATION PLAN

14. This Implementation Plan may be varied or terminated at any time by agreement in writing by the Ministers or their delegates and under the terms and conditions as agreed by the Ministers or their delegates.

## NOTICE OF DETAILS FOR THIS PROGRAM

15. A notice relating to this Implementation Plan and relevant Projects, rather than the NPA generally, is to be in writing and dealt with as follows:
  - a) *if given by the State to the Commonwealth:*

Assistant Secretary  
Aquatic Systems Health Branch  
Water Resource Division  
Department of Sustainability, Environment, Water, Population and Communities  
GPO Box 787  
Canberra ACT 2600

Contact number 02 6274 2223, fax number 02 6274 2186;  
email address: [tanja.cvijanovic@environment.gov.au](mailto:tanja.cvijanovic@environment.gov.au)

*b) if given by the Commonwealth to the State:*

Mr David Harriss  
Commissioner, NSW Office of Water  
GPO Box 3889  
SYDNEY NSW 2001

# Projects Submission for 2010-2011

NATIONAL PARTNERSHIP AGREEMENT  
ON THE GREAT ARTESIAN BASIN SUSTAINABILITY INITIATIVE

## Summary and duration of Projects

- A1 All pipeline projects involve the replacement of existing bore drains with piped reticulation systems (piping) and the rehabilitation, replacement (redrill & plug) or refit (new headworks) of an existing uncontrolled bore. Two projects aim to install new headworks to bores that have recommenced flowing due to pressure gains induced by recently installed GABSI infrastructure. This will allow flows from these bores to be controlled, saving water and avoiding land degradation and costly repairs that would occur if not addressed.
- A2 Extensive rain and flooding have occurred this year across the NSW portion of the Great Artesian Basin. This has caused significant delays in delivering 2010-2011 projects. Adding these delays to the usual long lead times inherent in these projects, it is anticipated that only some projects included in this submission will be completed in the 2010-2011 financial year. The remaining projects are expected to be completed in the 2011/12 financial year.
- A3 One large project is proposed to be funded over two years. Stage 1 of the 3MB Project is proposed to draw on 2010-2011 grants, while stage 2 is proposed to draw on 2011-12 grants. This project is planned to be completed in the 2011-12 financial year.

## Aim of Projects

- A4 The aim of the submitted projects is to achieve water savings and aid in recovering pressure in the Great Artesian Basin (GAB). This will be achieved through replacing or rehabilitating old bores, legally operating in an uncontrolled state, and replacing legally operating bore drains with efficient, controlled water reticulation systems.

## Project Requirements

- A5 All projects will contribute to the achievement of the Outcomes of the NPA by:
- achieving water savings and pressure recovery in the GAB by replacing legally operating old bores, in an uncontrolled state, with controlled and efficient water distribution infrastructure;
  - promoting sustainable water and land management practices in the GAB through education and training of participating landholders in the planning, operation and maintenance of the proposed infrastructure; and
  - implementing partnerships between government, industry and the community in the sustainable management and use of the groundwater resources of the GAB.

## Project Details

- A6 Projects details are:
- Tables 1a and 1b give details of the proposed projects for 2010-2011. For all piping projects, the project midpoint can be considered as when all pipe is delivered onsite. At this point approximately 50% of the cost for a piping project has been incurred. The average cost of bore rehabilitation/replacement works has increased slightly from last year, due to ongoing increases in the cost of materials and drilling contractors. The number of projects proposed for 2010/11 has increased from last year, as GABSI2 projects have been completed and NSW funding contribution has increased.

- Bangate (Private) - includes plugging an existing privately owned bore and drilling a new replacement bore. A pipeline will supply two properties, using residual bore pressure only. The project area is 32,500 ha, located approximately 50km northwest of Lightning Ridge.
- Dumble – Dumble Bore Trust is located 20km southeast of Goodooga and covers 26,800 ha. 5 properties are watered by the existing 100 year old bore. This bore will be plugged and a new replacement bore drilled. A pipeline will supply all properties, using residual bore pressure.
- Three B's – Three B's Bore Trust is located 50km east of Walgett and covers 15,900 ha. 7 properties are watered by the existing bore, which is over 100 years old. This bore will be plugged and a new replacement bore drilled. A pipeline will supply all properties, using bore pressure boosted by a pumping system.
- Kulkyne – is a privately owned bore watering Kulkyne Station and small portions of two adjacent properties. It is located 50km west of Goodooga in the Warrego groundwater zone of the GAB. The existing bore is sound and suitable for capping. A new pipeline will supply the currently watered area, utilising residual bore pressure. Modelling shows that capping this bore will increase artesian pressure by more than 1m at 30 GAB springs. This project has a very high priority.
- 3MB – This project combines 4 bores and 24 properties and is located 25km northwest of Collarenebri. It includes both high and low flowing bores. All 4 bores have been combined into one project, as some drains from these bores are connected and cross many different properties. Some properties watered by high priority bores cannot be isolated from bore drains supplied by lower priority bores.

NSW Office of Water design engineers have analysed several options for capping and piping these bores. The most efficient and cost effective solution is to combine them into one project, including 3 new strategically located bores with new pipe systems, using residual bore pressure only. This proposed project will also cap most of the remaining bores in this area and is anticipated to provide a significant contribution to GAB pressure gain, as many surrounding bores have already been capped through GABSI. This project will complete another significant piece of the capped "jigsaw puzzle" in this zone.

Due to the size and cost of combining these bores into one project, it will be necessary to stage its implementation over two funding years.

- § *Stage one* of this project, drawing on 2010-2011 grants, includes the plugging of 3 old bores and replacing them with 2 new bores and piped delivery systems.
- § *Stage two* of this project, drawing on 2011-2012 grants, includes the plugging one old bore and replacing it with a new bore and a piped delivery system.



- Nedgera – Nedgera is a privately owned bore which stopped flowing in 1928. It has recommenced flowing in recent years due to artesian pressure gains in the area. This bore requires new headworks to contain the uncontrolled flow. These works will prevent degradation of the surrounding land, provide additional artesian pressure recovery, avoid future costly repairs and provide a useable water supply.
- Boolooroo – Boolooroo is a privately owned bore which stopped flowing in 1994. It has recommenced flowing in recent years due to artesian pressure gains in the area. This bore requires logging and new headworks to contain the uncontrolled flow and ensure the bore is sound. These works will prevent degradation of the surrounding land, provide additional artesian pressure recovery, avoid future costly repairs and provide a useable water supply.
- Table 1c outlines the cost of managing, monitoring and reporting against the entire program. These costs also include coordination, planning and design for projects to be undertaken in following years. Many new applications have been received for design and planning this year. As a result, NSW has increased the number of projects being planned and designed this year.

#### Additional Information

- A7 Table 1d includes additional information about NSW processes for determining project eligibility, prioritising projects, water savings estimates, selection criteria, funding formulas, quality assurance and project implementation.

Table 1a: GAB - Infrastructure projects (excluding springs)

New Projects																																		
Zone	Scheme Name	Land owner name	Old Bore Name	Project	Old Bore ID	Lat.	Long.	GWM Zone	Priority	Original Discharge (L/s)	Original Pressure (m)	1990 Free Flow (L/s)	1990 Pressure (m)	Design Flow (kL/day)	Estimated Water Saved (ML/yr)	Estimated Drain Shutdown (km)	Estimated Piping (km)	Will bore piping extend outside the geographic boundaries of the current watered area (Y/N)	If so, have measures been implemented to protect water remote areas (Y/N/NA)	Logged Inter-aquifer leakage (Y/N)	Activity <sup>1</sup>	Estimated Financial Year for Completion	Estimated Milestones to be completed in 2010-2011	Planned GABSI funding NSW \$	Total Planned GABSI funding C'wealth \$	Planned GABSI funding C'wealth \$ 2010-2011	Estimated Landholder Contribution	Critical Infrastructure Failure (Y/N) ###	Estimated \$ of government funding per ML/yr of water saved	Total Project Cost	Notes			
West Surat	Bangate (Private)	Caley, DJ & PS Alston, DP	Bangate No.1	3	4004	29.219	147.618	Surat	high	42	52	19	32.5	169	538	84	110	N	n/a	Y	1, 2, 5, 7	2011/12	Start: Formal funding agreements with landholder(s) signed. Midpoint: Construction Contracts signed and all pipes delivered onsite. Completion: Certified Practical Completion of piping works.	\$ 497,735	\$ 497,735	\$ 328,505	\$ 754,019	N	\$ 1,850	\$ 1,749,489				
West Surat	Dumble	Alston, DP Currey, DJ Darling LHPA Loughrey, RL McCumstie, WD	Dumble No.2	4	4135	29.17	147.561	Surat	high	57	52	27	20	95.5	758	54	112	N	n/a	Y	1, 2, 5, 7	2010/11	Start: Formal funding agreements with landholder(s) signed. Midpoint: Construction Contracts signed and all pipes delivered onsite. Completion: Certified Practical Completion of piping works.	\$ 478,491	\$ 478,491	\$ 239,245	\$ 754,019	N	\$ 1,263	\$ 1,711,000				
East Surat	Three B's	Ball, DG Dempsey, PJ Stump, KH & JH Marshall, MG & Yugalbar P/L Marshall, RJ & SJ	3B's Gorian No. 2	5	4483	30.022	148.768	Surat	high	41	43.5	12	7.14	234	308	68	128	N	n/a		1, 2, 5, 7	2010/11	Start: Formal funding agreements with landholder(s) signed. Midpoint: Construction Contracts signed and all pipes delivered onsite. Completion: Certified Practical Completion of piping works.	\$ 395,187	\$ 395,187	\$ 197,594	\$ 623,653	N	\$ 2,566	\$ 1,414,027				
West Surat	3MB Project	Burey, J & L	8 Mile	7a	4406	29.367	148.6	Surat	high	32	85.4	9	20	284	45			N	n/a		1,2,5,7	2011/12	Stage 1 Start: Formal funding agreements with landholder(s) signed. Midpoint: Construction Contracts signed and all pipes delivered onsite. Completion: Certified Practical Completion of piping works.	\$ 1,221,575	\$ 1,221,575	\$ 403,120	\$ 1,597,134	N	\$ 2,463	\$ 4,040,284	4 bores are combined in this project to enable efficient placement of new bores and piping systems. Drains from multiple bores intersect several of the properties involved. Therefore both high and low flowing bores have been caulked in this project to enable landholders to proceed and not fund works on properties where bore drains might otherwise be left to flow.			
	Stage 1	Coleman, R & G Cutler, S & C Greenaway, D & Z Norris, A & P Radford, P & D Crawford, R Smith, D Cutler, S & C Fletcher, R Wilson, D & A Wilson, W & R Lambert, B & B Barton, J & S Grant, D, T Grant, F	Milton Moongulla		4224 4357	29.256 29.435	148.439 148.384	Surat Surat	high high	19.6 105	35 120	3.81 2.33	7 5	234.4 0	35 74	37 24			N N	n/a n/a		1,2,5,7 6		Start: Formal funding agreements with landholder(s) signed. Midpoint: Construction Contracts signed and all pipes delivered onsite. Completion: Certified Practical Completion of piping works.								Note: funding amounts are for Stage 1 only	This project is divided into 2 stages: stage 1 is planned to draw on 10/11 grants with construction this year, while stage 2 will draw on 11/12 grants and be constructed next year.	
	3MB Project	Doran, R & L	Boqibel	7b	12215			Surat	high	41		36		238	1049	136					1,2,5,7	2011/12	Stage 2 (To be included in next year's Implementation Plan)									Funds shown are for Stage 1 only. Funding estimates for Stage 2 are approx. \$685,000 for Commonwealth, \$685,000 for NSW and \$1,130,000 for landholders.		
	Stage 2	Gibbons, B & K R Young, R Crawford Fletcher, R Smith, D & J																																
East Surat	Nedgera	L Parsons & LHPA	Nedgera	8	3W00438	31.025	148.201	Surat	med.	59.4	>22.5	0.7	?	35	9	1	0	N	N/A	N	4	2010/11	Start: Formal agreements with landholder(s) signed. Midpoint: Construction Contracts signed. Completion: Bore works completed.	\$ 6,000	\$ 6,000	\$ 6,000	\$ 3,000	N	\$ 1,289	\$15,000	Bore ceased to flow in 1928. Has started flowing again - headworks uncontrolled. Needs logging and new headworks.			
East Surat	Booloroo	Dewar, S	Booloroo	9	3W00402	29.341	149.948	Surat	med.	>25	>25	3.5	1.5 (2009)	35	98	1	0	N	N/A	N	4	2011/12	Start: Formal agreements with landholder(s) signed. Midpoint: Construction Contracts signed. Completion: Bore works completed.	\$ 6,000	\$ 6,000	\$ -	\$ 3,000	N	\$ 123	\$15,000	Bore ceased to flow in 1994 and has recommenced flowing in last few years. Headworks partially controlled by landholder. Needs logging and new headworks.			
<b>(Total)</b>										<b>397</b>	<b>388</b>	<b>113</b>	<b>92</b>	<b>1,041</b>	<b>3,152</b>	<b>450</b>	<b>350</b>								<b>\$ 2,604,988</b>	<b>\$ 2,604,988</b>	<b>\$ 1,174,464</b>	<b>\$ 3,734,825</b>			<b>\$ 8,944,800</b>			
<b>Legend</b>																																		
1. Project Management				7. Pipe <sup>##</sup>																														
2. Design				8. Drill Only																														
3. Cap only				* Bore Rehabilitation means recondition or repair of existing bore.																														
4. Bore Rehabilitation <sup>#</sup>				** Pipe means water delivery infrastructure such as piping, relief valves, tanks and troughs																														
5. Redrill & Plug				*** Identify which activity approximates the mid-point of the Project																														
6. Plug only				**** A Water savings target is not required for Critical Infrastructure Projects																														

Table 1b: GAB Springs - Infrastructure projects

Zone	Scheme Name	Landholder Name	Old Bore Name	Project	Old Bore ID	Lat.	Long.	GWM Zone	Priority	Original Discharge (L/s)	Original Pressure (m)	1990 Free Flow (L/s)	1990 Pressure (m)	Design Flow (kL/day)	Estimated Water Saved (ML/yr)	Estimated Drain Shutdown (km)	Estimated Piping (km)	Will bore piping extend outside the geographic boundaries of the current watered area (Y/N)	If so, have measures been implemented to protect water remote areas (Y/N/NA)	Logged Inter-aquifer leakage (Y/N)	Activity <sup>1</sup>	Estimated Financial Year for Completion	Estimated Milestones to be completed in 2010-2011	Planned GABSI funding NSW \$	Total Planned GABSI funding C'wealth \$	Planned GABSI funding C'wealth 2010-2011 \$	Estimated Landholder Contribution	Critical Infrastructure Failure (Y/N) ###	Estimated \$ of government funding per ML/yr of water saved	Total Project Cost \$	Notes	
Warrego	Kulkyne	Fessey, E Davis, L	Kulkyne	10	12314	29.16	146.913	Warrego	V.High	36.9	73.44	26.6	51	87.4	815	12	99	Y	Y	n/a	1,2,3,7	2011/12	Start: Formal agreements with landholder(s) for construction signed. Midpoint: Construction Contracts signed and all pipes delivered onsite. Completion: Certified Practical Completion of piping works.	\$ 116,241	\$ 116,241	\$ 38,360	\$ 106,188	N	\$ 285	\$ 338,670		
<b>(Total)</b>										37		27		87	815	12	99							\$ 116,241	\$ 116,241	\$ 38,360	\$ 106,188				\$ 338,670	
<p><b>Legend</b></p> <p>1. Project Management                  2. Design                  3. Cap only                  4. Bore Rehabilitation<sup>#</sup>                  5. Redrill &amp; Plug                  6. Plug only                  7. Pipe<sup>**</sup>                  8. Drill Only</p> <p><sup>#</sup> Bore Rehabilitation means recondition or repair of existing bore.  <sup>**</sup> Pipe means water delivery infrastructure such as piping, relief valves, tanks and troughs  <sup>###</sup> Identify which activity approximates the mid-point of the Project  <sup>####</sup> A Water savings target is not required for Critical Infrastructure Projects</p>																																



Table 1b – GAB Springs: Infrastructure projects

Zone	Scheme Name	Landholder Name	Old Bore Name	Project	Old Bore ID	Lat.	Long.	GWM Zone	Priority	Original Discharge (L/s)	Original Pressure (m)	1990 Free Flow (L/s)	1990 Pressure (m)	Design Flow (KL/day)	Estimated Water Saved (ML/yr)	Estimated Drain Shutdown (km)	Estimated Piping (km)	Will bore piping extend outside the geographic boundaries of the current watered area (Y/N)	If so, have measures been implemented to protect water remote areas (Y/N/NA)	Logged Inter-aquifer leakage (Y/N)	Activity <sup>1</sup>	Estimated Financial Year for Completion	Estimated Milestones to be completed in 2010-2011	Planned GABSI funding NSW \$	Total Planned GABSI funding C'wealth \$	Planned GABSI funding C'wealth 2010-2011 \$	Estimated Landholder Contribution	Critical Infrastructure Failure (Y/N) ****	Estimated \$ of government funding per ML/yr of water saved	Total Project Cost \$	Notes
Warrego	Kulkyne	Fessey, E Davis, L	Kulkyne	10	12314	29.16	146.913	Warrego	V.High	36.9	73.44	26.6	51	87.4	815	12	99	Y	Y	n/a	1,2,3,7	2011/12	Start: Formal agreements with landholder(s) for construction signed. Midpoint: Construction Contracts signed and all pipes delivered onsite. Completion: Certified Practical Completion of piping works.	\$ 116,241	\$ 116,241	\$ 38,360	\$ 106,188	N	\$ 285	\$ 338,670	
<b>(Total)</b>										<b>37</b>		<b>27</b>		<b>87</b>	<b>815</b>	<b>12</b>	<b>99</b>							<b>\$ 116,241</b>	<b>\$ 116,241</b>	<b>\$ 38,360</b>	<b>\$ 106,188</b>			<b>\$ 338,670</b>	

**Legend**

- 1. Project Management
- 2. Design
- 3. Cap only
- 4. Bore Rehabilitation<sup>†</sup>
- 5. Redrill & Plug
- 6. Plug only
- 7. Pipe<sup>\*\*</sup>
- 8. Drill Only

<sup>†</sup> Bore Rehabilitation means recondition or repair of existing bore.

<sup>\*\*</sup> Pipe means water delivery infrastructure such as piping, relief valves, tanks and troughs

<sup>\*\*\*</sup> Identify which activity approximates the mid-point of the Project

<sup>\*\*\*\*</sup> A Water savings target is not required for Critical Infrastructure Projects

Table 1c -Proposed other projects

Project	Zone	Performance Target(s)	Proposed GABSI funding NSW \$	Proposed GABSI funding C'wealth \$	Estimated Financial Year for Completion
GABSI 2010/11 Program Management, Monitoring and Reporting	All	Milestone 3: Delivery of Report 21 May 2011	\$ 625,974	\$ 625,974	2010/11
	<p><b>Sub-tasks</b></p> <p>Program management - overall coordination and leadership of GABSI implementation in NSW. (E)</p> <p>Promotion and extension - including advertising, promotional literature, community engagement initiatives, etc. (A,C)</p> <p>Program coordination within NSW Office of Water and with other agencies such as Catchment Management Authorities, LHPA's, DECC, etc. (E)</p> <p>Strategic input to and coordination with State and Commonwealth Ministerial advisory bodies. (C,E)</p> <p>Planning - coordination, investigation, planning and design of new project applications. Prioritisation and cost estimation for allocation of future GABSI funding. Providing advice and information to applicants. (A,E)</p> <p>Maintaining and improving internal systems, procedures and guidelines to ensure efficient delivery of GABSI program and to ensure high quality on-ground results. (F)</p> <p>Delivery of milestone reports and annual performance reports to the Australian government under the 2010/11 NSW Implementation Plan.(E)</p>				
<b>TOTAL</b>			\$ 625,974	\$ 625,974	

**Legend**

- A. Education and Extension
- B. Basin Monitoring Network (may wish to delete this clause if not applicable)
- C. Involvement of community in resourcing, development and implementation of projects
- D. Best practice infrastructure maintenance
- E. GABSI Program Mgt, Monitoring and Reporting
- F. Best practice design procedures and infrastructure standards

Table 1d -Additional Required Data

<b>Process for Determining Voluntary interest</b>	
Details on selection and assessment process to determine eligible bore owners, for example only infrastructure constructed prior to prohibitive state legislation be considered	<p>New applications have been sort for 2010/11. The following criteria will be applied to determine eligible bores:</p> <ul style="list-style-type: none"> <li>- Bores sunk pre 1965 (after this date all bores were required to install an enclosed pipe delivery system, as a licence condition).</li> <li>- Stock &amp; domestic licenced bores only.</li> </ul> <p>The following selection process will be adopted to obtain voluntary interest from eligible bores:</p> <ul style="list-style-type: none"> <li>- A letter and Expression Of Interest (EOI) form sent to all landholders with an eligible bore, presenting the GABSI program, outlining its benefits and inviting them to return an EOI.</li> <li>- Landholders returning an EOI will be contacted to confirm correct data and EOI's will then be prioritised. Bores will be prioritised based on preliminary estimates of water savings and likely costs (\$ Grant/ML saved). High ranking EOI's will be invited to proceed with planning and design, based on cost estimates and available funding estimates. EOI's not invited to proceed with planning and design will be rolled over into future years.</li> </ul>
<b>Selection Criteria Used to Determine Successful Applicants</b>	
Details on selection criteria:	<p>Accepted EOI's will proceed with planning and production of a detailed project design and cost estimate. These will be ranked on the basis of estimated \$Grant/ML saved. This will be calculated using:</p> <ul style="list-style-type: none"> <li>- a detailed hydraulic design, generated from computer modelling of pipelines and CAD plans, to produce accurate quantity/cost estimates based on recent prices for similiar materials and works.</li> <li>- estimates of water savings will be made by calculating the maximum design stock water demands, subtracted from the free flow of bores, prior to capping. These estimates will be expressed in annual figures. Estimates of water savings are expected to be conservative, as the demand assumptions are for maximum stocking rates and peak daily demands.</li> </ul>
<b>If public funding is unlikely to be sufficient to cover all infrastructure, the proposed criteria for prioritisation of projects is to be provided, such as:</b>	
a) <i>The ratio of water saved per \$ of public funds expended</i>	For new projects in 2010/11 the average ratio of public funds per ML/yr of water saved is \$1,374 (\$/ML water saved)
b) <i>An estimate of the projects impact of pressure recovery at a high value natural spring</i>	No specific estimate of pressure recovery is currently available, however Project No.10 "Kulkyne" is predicted to increase GAB pressure levels by >1m at 30 identified GAB Springs.

Table 1d -Additional Required Data (cont'd.)

<b>Funding Formulae Proposed</b>	
<p>Identify the form and level of government funding provided to eligible bore owners to undertake approved activities.</p>	<p><b>Bore Works</b></p> <p>Each bore will be logged to assess whether or not it is suitable to be reconditioned.</p> <p>If a bore cannot be reconditioned, grant funding for eligible projects will be available for the cost of sinking a new bore, to equivalent depth of the old bore, up to a maximum of 80% (40% Commonwealth, 40% NSW). This grant level applies to replacement bores, bore logging, plugging old bores and headworks.</p> <p>If a bore can be reconditioned, grant funding for eligible projects will be available for the cost of rehabilitating the old bore, up to a maximum of 80% (40% Commonwealth, 40% NSW). This may be used for rehabilitating the old bore or to contribute towards the cost of a new bore.</p> <p><b>Piping Works</b></p> <p>Grant funding for eligible projects will be available for all other infrastructure as follows:</p> <p>Central Zone 70% (35% Commonwealth, 35% NSW)          Warrego Zone 60% (30% Commonwealth, 30% NSW)          Surat Zone (Western Lands Lease) 50% (25% Commonwealth, 25% NSW)          Surat Zone 40% (20% Commonwealth, 20% NSW)</p> <p>An additional 10% grant funding (5% Commonwealth, 5% NSW) will also be offered across all zones to any bore identified as having &gt;1m modelled pressure recovery impact on a GAB spring.</p> <p>NSW Office of Water hydrogeologists have conducted groundwater modelling to identify a list of bores that are expected to meet this criteria.</p> <p>The balance of costs will be met by cash contributions by landholders. No in-kind contributions made by landholders.</p>
<p>Identify if a bore owners contribution towards approved activities will be capped at the level existing at the time of commitment to contractual arrangements.</p>	<p>A cap will be placed on the level of grant funding for each Project at the time of a landholder's commitment to contractual arrangements for construction. This will be established by an Agreement between the NSW Office of Water and the landholder(s), specifying both an upper limit to the amount of grant money available and a date by which grant money must be spent.</p>
<p>Where forms of assistance differ between zones reasons are to be documented and transparent</p>	<p>The unique social, environmental and economic circumstances of the western regions of NSW have led to the adoption of increasing grant levels for piping works, through the western division of NSW.</p> <p>These varying grant levels are documented in the NSW Cap &amp; Pipe the Bores Implementation Guidelines and in publicly available brochures and advertising.</p> <p>These grants levels for landholders remain the same as those adopted in NSW for GABSI 1 &amp; 2. These levels were reviewed for GABSI 3 and submitted to the NSW GAB Ministerial Advisory Group for consideration.</p> <p>This group recommended these grant levels be continued and provided this advice to the NSW Minister for Water.</p>



Table 1d -Additional Required Data (cont'd.)

<b>Additional information</b>	
<p>Description of the proposed methods to be used to design and implement projects, including a description of the standards and quality assurance processes it intends to implement to ensures maintenance of design quality and standards</p>	<ul style="list-style-type: none"> <li>-Initial engagement and presentation of project processes, conditions and timeframes delivered by NSW Office of Water staff.</li> <li>-Property Management Planning offered to all participating landholders. PMP modules tailored to suit specific landholder requirements. This process will ensure optimal land and property management outcomes, as well as the design and implementation of efficient and effective water delivery infrastructure.</li> <li>-Projects facilitated, planned and designed by NSW Office of Water using qualified planners, engineers, surveyors etc. This process involves extensive landholder consultation, the gathering of field data using state of the art GPS survey and satellite imagery, hydraulic computer modelling, CAD drafting and designing.</li> <li>-All designs based on relevant Australian Standards for materials and work (eg. polyethylene pipe, pipelaying, polyethylene tanks, concrete, etc.) and where no relevant standard exists, best industry practice as determined by NSW Office of Water.</li> <li>-All designs signed off by a qualified engineer.</li> <li>-Final design and cost estimates produced - these projects will be prioritised annually for allocation of available grant funding. Projects offered grant funding will be asked to sign formal Agreement with NSW for limited amount of grant funding.</li> <li>-Pre-construction surveys are conducted to assess possible detrimental environmental or heritage impacts. These include a Review of Environmental Factors, which examines all relevant State and Commonwealth legislative requirements and ensures no significant environmental impact, and an Aboriginal Heritage survey which assess the possibility of disturbing any Aboriginal heritage relics in the landscape. These surveys are contracted to professionally qualified people.</li> <li>-Office of Water staff are also trained in Aboriginal Cultural Awareness and environmental assessment.</li> <li>-Projects put out to competitive tender to private contractors for construction.</li> <li>-Contracts are established based on AS4000 documents and construction is supervised by qualified professionals (NSW gov. or private). This supervision includes field inspections, contractual responsibilities such as OH&amp;S, delays, certifying works for payment, etc.. Contracts include Quality Assurance provisions to be met by contractors.</li> <li>-Grant funding paid on works inspection and approval by NSW Office of Water.</li> </ul>
<p>Constant used to calculate watered area from a bore drain?</p>	<p>The method adopted by NSW to calculate watered area from a bore drain is the standard used by Bore Trusts in NSW. This is the area within 5km of a bore drain. This has been adopted subject to restrictions such as no increase in watered area under piping, watered area must be within property boundaries, etc.</p>

## Schedule A – NSW Implementation Plan 2009 - 2014

### GABSI 3 - Proposed works (excluding springs impact)

Zone	Activities	Targets		
		No. of bores	Water saved (ML/yr)	Drains shutdown (km)
Surat East	Bore rehabilitation/replacement	35	7000	800
	Piping	30		
Surat West	Bore rehabilitation/replacement	20	5000	600
	Piping	15		
Warrego	Bore rehabilitation/replacement	30	3000	400
	Piping	24		
Central	Bore rehabilitation/replacement	10	300	50
	Piping	6		
<b>Sub Total</b>	Bore Rehabilitation/replacement <sup>#</sup>	<b>95</b>	<b>15300</b>	<b>1850</b>
	Piping <sup>##</sup>	<b>75</b>		

### GABSI 3 Proposed works (including springs impact)

Zone	Activities	Targets		
		No. of bores	Water saved (ML/yr)	Drains shutdown (km)
Surat East	Bore rehabilitation/replacement			
	Piping			
Surat West	Bore rehabilitation/replacement			
	Piping			
Warrego	Bore rehabilitation/replacement	30	3000	400
	Piping	24		
Central	Bore rehabilitation/replacement			
	Piping			
<b>Sub Total</b>	Bore Rehabilitation/replacement <sup>#</sup>	<b>30</b>	<b>3000</b>	<b>400</b>
	Piping <sup>##</sup>	<b>24</b>		

<sup>#</sup> Defined as works completed to bring the bores into a controlled state (i.e. redrill & plug, recondition, repair, plug, etc.)

<sup>##</sup> Defined as works installed to replace bore drains, i.e. an efficient, enclosed water delivery system.

NOTE: All numbers are estimates only

# Performance Report for 2010-2011

NATIONAL PARTNERSHIP AGREEMENT  
ON THE GREAT ARTESIAN BASIN SUSTAINABILITY INITIATIVE

1. The State will prepare the Performance Report in a form similar to that outlined at Table 2a, 2b and 2c below.
2. The Performance Report will be used by the Commonwealth to assess Project performance under this Implementation Plan and to inform itself in relation to its assessment of subsequent Implementation Plans.

Table 2a - GAB – Performance Report - Infrastructure Projects (excluding springs)

Project 1	Land holder name	Lat.	Long.	Zone	Priority	Dis- charge prior	Design Flow	Actual Water Saved (ML/ann)	Actual Drain shutd own (klms)	Actual Piping Installed (klms)	Activity 1	Estimated Financial Year for Completion	Actual GABSI funding State \$	Actual GABSI funding C'wealth \$	Actual GABSI funding landholders \$	Actual in- kind contribution from landholders \$	Actual ML/annum of water saved per \$ of government funding	Are Activities on schedule 3	
											1								
											2								
											3								
											4								
											5								
											6								
											7								
											Total								

Project 2	Land holder name	Lat.	Long.	Zone	Priority	Dis- charge prior	Design Flow	Actual Water Saved (ML/a)	Actual Drain shutd own (km)	Actual Piping Installed (km)	Activity 1	Estimated Financial Year for Completion	Actual GABSI funding State \$	Actual GABSI funding C'wealth \$	Actual GABSI funding landholders \$	Actual in- kind contribution from landholders \$	Actual ML/annum of water saved per \$ of government funding	Are Activities on schedule 3		
[Redacted]											1									
											2									
											3									
											4									
											5									
											6									
											7									
[Redacted]											Total									

**Legend**

**<sup>1</sup> Itemise for each specific activity for each Project**

- 1. Design
- 2. Cap only
- 3. Bore Rehabilitation<sup>#</sup>
- 4. Redrill & plug
- 5. Plug only
- 6. Pipe<sup>##</sup>
- 7. Other (please specify)

<sup>#</sup> Bore Rehabilitation means recondition or repair of existing bore.

<sup>##</sup> Pipe means water delivery infrastructure such as piping, relief valves, tanks and troughs

**<sup>3</sup> Itemise for each specific Project**

- I. Yes, completed (YC)
- II. Yes, on track (YT)
- III. No (please specify)

Table 2b – GAB – Performance Report - Springs

Project 1	Land holder name	Lat.	Long.	Zone	Priority	Dis-charge prior	Design Flow	Actual Water Saved (ML/a)	Actual Drain shutd own (km)	Actual Piping Installed (km)	Activity <sup>1</sup>	Estimated Financial Year for Completion	Actual GABSI funding State \$	Actual GABSI funding C'wealth \$	Actual GABSI funding landholders \$	Actual in-kind contribution from landholders \$	Actual ML/annum of water saved per \$ of government funding	Are Activities on schedule <sup>3</sup>	
											1								
											2								
											3								
											4								
											5								
											6								
											7								
											Total								
Project 2	Land holder name	Lat.	Long.	Zone	Priority	Dis-charge prior	Design Flow	Actual Water Saved (ML/a)	Actual Drain shutd own (km)	Actual Piping Installed (km)	Activity <sup>1</sup>	Estimated Financial Year for Completion	Actual GABSI funding State \$	Actual GABSI funding C'wealth \$	Actual GABSI funding landholders \$	Actual in-kind contribution from landholders \$	Actual ML/annum of water saved per \$ of government funding	Are Activities on schedule <sup>3</sup>	



Table 2c -Proposed other Projects

Project <sup>2</sup>	Zone	Performance Target(s)	Actual GABSI funding State \$	Actual GABSI funding C'wealth \$	Estimated and/or Actual Financial Year for Completion
TOTAL					

Legend

<sup>2</sup> Itemise for each specific Project

- A. Education and Extension
- B. Basin Monitoring Network (may wish to delete this clause if not applicable)
- C. Involvement of community in resourcing, development and implementation of Projects
- D. Best practice infrastructure maintenance
- E. GABSI Program Mgt, Monitoring and Reporting
- F. Other (please specify)

**ADDITIONAL REQUIRED INFORMATION**

Volume and location of unallocated GAB Water allocated during last financial year