

# Stage 3 WMMP Commitments Table

- Commitments completed
- Commitments work in progress
- △ Evergreen Commitments
- Firm deliverables for that month

#	Department Conditions		Commitments	Completion Date as at Dec 2013	Revised Completion Date as at Oct 2014	Key	Appendix
	Pre-Dec 2012	Post-Dec 2012					
<b>Groundwater and springs</b>							
1	52c i	53B d	Completion of Stage 2 Monitoring Bore and VWP conversion programs (as outlined in this Plan)	March 2014	June 2015	<span style="color: green;">○</span>	
2	52c i		Incorporation of potential additional UWIR groundwater monitoring requirements into Stage 2 Bore Construction Program	February 2013		<span style="color: green;">●</span>	E
3	52c i	53B d	Construction of additional UWIR monitoring bores	March 2014		<span style="color: green;">●</span>	
4	52c iv	53B d	Completion of bore baseline assessments and data analysis	October 2013		<span style="color: green;">●</span>	C
5	52c v		Completion of first groundwater level trend analysis assessment	April 2013		<span style="color: green;">●</span>	G
6	49b		Completion and reporting on GEN3 model build	April 2013		<span style="color: green;">●</span>	H
7	49b		Submission of aquifer connectivity studies progress report	April 2013		<span style="color: green;">●</span>	I
8	49b	53B a	Submission of Infrastructure Connectivity Report	October 2013		<span style="color: green;">●</span>	I
9	49b	53B a	Submission of consolidated Surat Basin Hydrogeological Model and recalibration of GEN3 model. Commitment to ongoing model recalibration and reporting with annual report. Reporting of connectivity studies	October 2014	April 2015	<span style="color: green;">○</span>	
10	49b		Completion of preliminary hydrochemistry conceptual model. Justification of water quality trend indicators	April 2013		<span style="color: green;">●</span>	K
11	49b		Completion of Isotope studies	April 2013 / April 2014		<span style="color: green;">●</span>	K
12	49b, 52d ii		Submission of integrated hydrochemistry report. Commitment to provide baseline definition of groundwater quality in the Northern Gas Fields.	October 2014	April 2015	<span style="color: green;">○</span>	
13	52c	53B d	Completion of interim Groundwater Monitoring Plan.	April 2013		<span style="color: green;">●</span>	D
14	62f, 52c		Collation of groundwater monitoring results. Publication of data on a website.	April 2014 and six-monthly thereafter		<span style="color: green;">△</span>	D, F
15	52ci		Collection and analysis of six-monthly groundwater quality samples	Biannually		<span style="color: green;">△</span>	
16	52ci		Implementation of the telemetry system for continuous groundwater level monitoring	April 2014		<span style="color: green;">●</span>	
17	52cvi		Confirmation of threshold draw down values at early warning monitoring bores and draw down time series	April 2013 or when available from QWC		<span style="color: green;">●</span>	J
18	52d III	53B eci	Implementation of agreed collaborative industry approach to springs monitoring and management. Derivation of trigger thresholds and finalisation of response actions.	October 2013		<span style="color: green;">●</span>	J
19	68,69		Completion of preliminary Springs Monitoring Plan incorporating findings of UWIR, Santos Regional Springs Survey and the collaborative industry proposed EPBC Spring Monitoring Scheme	April 2013		<span style="color: green;">●</span>	J
20	69 b ii		Submission of report on Baseline Spring Program	April 2014		<span style="color: green;">●</span>	
21	69 b		Completion of Springs Monitoring Plan incorporating input from connectivity studies	October 2014		<span style="color: green;">○</span>	
22	65,67		Completion of Ground Motion Monitoring and Management Plan	April 2013		<span style="color: green;">●</span>	L
23	65a		Completion of Baseline Data Review Report	April 2013		<span style="color: green;">●</span>	L
24	65b		Assessment of hydrological implications of ground motion	April 2014		<span style="color: green;">●</span>	
25	66		Submission of ground motion progress reports. October 2013 report will include ground motion modelling using the outputs of the QWC cumulative groundwater model	October 2013 and annually thereafter		<span style="color: green;">△</span>	
26	66		Ground motion revised predictive deformation, trigger evaluation and evaluation of mitigation options	April 2016 and thereafter at three-yearly intervals		<span style="color: red;">●</span>	
<b>Reinjection</b>							
27			Completion of first Injection Management Plan (Precipice Water)	February 2013		<span style="color: green;">●</span>	N
28			Construction of investigation, monitoring and trial injection production bore	April 2013		<span style="color: green;">●</span>	D, N
29	49c		Update for Stage 3 WMMP – Progress Report on IMP. Drilling of injection well WCK_INJIP	June 2013		<span style="color: green;">●</span>	Chapter 12
30			Injection Feasibility Study Report (part 1 and part 2)	April 2014 / April 2015	August 2014 / April 2015	<span style="color: green;">○</span>	

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	Pre-Dec 2012	Post-Dec 2012					
<b>Response plans</b>							
31	49c and d, 52di I and II; 52d ii	53B d, 53B e	Finalisation of groundwater drawdown response plan	April 2013		●	O
32			Confirmation of early warning and threshold monitoring bore construction	October 2014		●	
33			Finalisation of groundwater quality response plan	April 2014		●	
34	52c viii, 52d i III	53B e	Development of environmental risk management and response plan and an upgrade of exceedance response plans	April 2013		●	O
35	52d iv		Completion of upgraded emergency response plans to cover all regulated water and waste storage facilities	April 2014	August 2014	●	
36	49h, 52d i IV	53B c	Develop Emergency Discharge Management Plan	July 2013		●	Chapter 16
<b>Hydraulic stimulation</b>							
37	49e	53B c	Annual update of bores to be stimulated	October 2013 and annually thereafter		△	T
38			Submission of reports to Queensland regulatory agencies	As required		△	
39			Ecotoxicity Work Program Development	April 2013		●	M
40	49f	53B c	Toxicity and Ecotoxicity Profiles for new chemicals. Completion of total toxicity and ecotoxicity testing. Ecotoxicity testing to be carried out in accordance with the 2000 NWQMS Australian and New Zealand Guidelines for Fresh and Marine Water Quality.	December 2013	December 2014	○	
41			Collection of representative samples of flow back water immediately post-stimulation and analysis	Ongoing		△	
<b>CSG water management</b>							
42	49g vii, 52a and 60a		Affirmation that treatment plants are operational and producing water quality suitable for discharge to the Kenya to Chinchilla Pipeline and Woleebee Creek to Glebe Weir Pipeline in line with SunWater's respective BUA's	October 2014	April 2015	○	
43			Affirmation that Central Gas Fields beneficial reuse scheme is operational	April 2013		●	P
44			Confirmation of Northern Gas Fields beneficial reuse scheme approval	April 2013		●	Q
45	49g i to ix		Affirmation that Northern Gas Fields beneficial reuse scheme is operational	October 2014	April 2015	○	
46			Provision of Northern Gas Fields interim baseline data analysis report	October 2014		○	
47			Completion of Northern Treatment Plant and Northern Gas Fields Emergency Response Procedure and Dam Safety Emergency Response Plan	October 2014		○	
<b>Brine management</b>							
48	49 x		Confirmation that salt regulated waste facility is approved	October 2014	May 2015	○	
49			Construction of the first regulated waste facility cell	October 2015	December 2017	○	
<b>Reporting</b>							
50	49i		Submission of Annual Report including (from October 2013) reporting results of ongoing GEN3 model recalibration	October 2013 and annually thereafter		△	K
51a	59		Submission of Stage 3 WMMP	July 2013		●	
51b	59		Submission of Stage 4 WMMP	July 2016		●	
<b>New Commitments – Stage 3 WMMP</b>							
52		52c i	Implementation of landholder bore monitoring – land access negotiations	October 2013		●	
53		62f	Commencement of monitoring of Landholder Bores	April 2014		●	
54			Development of an aquifer surveillance workflow	April 2014		●	
55		53B d	Development of methodology for establishing a baseline	April 2014		●	
56			Derivation of baseline for wells with sufficient record	October 2014		○	
57		53B a	Submission of updated aquifer connectivity studies progress report	April 2014		●	
58		53B d	First application of Trend Analysis to Springs Monitoring Bore data	October 2014		○	
59		53B e	Development of springs conceptual models	April 2015		○	
60		53B b	Preparation of Stimulation Fluids Risk Assessment incorporating results of Hazard Characterisation (DTA)	February 2014	December 2014	○	
61	49b		Detailed baseline evaluation incorporating landholder and dedicated groundwater monitoring bores	April 2014		●	
62	49b		Review and update of water quality trend indicators	April 2016 and thereafter at three yearly intervals		●	