Annual Review

Rocglen Coal Mine

Name of operation	Rocglen Coal Mine
Name of operator	Whitehaven Coal Mining Pty Ltd
Development consent/project approval number	PA 10_0015
Name of holder of development consent/project approval	Whitehaven Coal Mining Pty Ltd
Mining lease number	ML 1620, ML 1662
Name of holder of mining lease	Whitehaven Coal Mining Pty Ltd
Water licence number	WAL29461 and WAL 36758
Name of holder of water licence	Whitehaven Coal Mining Pty Ltd
MOP start date	1st November 2015
MOP end date	31st October 2020
Annual review start date [1]	1st August 2015
Annual review end date	31st July 2016

I, Nigel Wood, certify that this audit report is a true and accurate record of the compliance status of Rocglen Coal Mine for the period 1st August 2015 to 31st July 2016, and that I am authorised to make this statement on behalf of Whitehaven Coal Mining Pty Ltd.

Note. a) The Annual Review is an 'environmental audit' for the purposes of section 122B (2) of the Environmental Planning and Assessment Act 1979. Section 122E provides that a person must not include false or misleading information (or provide information for inclusion in) an audit report produced to the Minister in connection with an environmental audit if the person knows that the information is false or misleading in a material respect. The maximum penalty is, in the case of a corporation, $1 million and for an individual, $250,000.

b) The Crimes Act 1900 contains other offences relating to false and misleading information: section 192G (Intention to defraud by false or misleading statement—maximum penalty 5 years imprisonment); sections 307A, 307B and 307C (False or misleading applications/information/documents—maximum penalty 2 years imprisonment or $22,000, or both).

Name of authorised reporting officer	Nigel Wood
Title of authorised reporting officer	Director – Whitehaven Coal Mining Pty Ltd
Signature of authorised reporting officer	BWood
Date	28.10.2016

[1] NSW Annual Review Guideline was released in October 2015

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1 STATEMENT OF COMPLIANCE

The compliance status of the Rocglen Coal Mine (RCM) as at 31st July 2016 is summarised in Table 1. Table 2 notes non-compliances that occurred during the reporting period, and non-compliances from previous reporting periods that still require management action.

Table 1 - Statement of Compliance

Were all conditions of the relevant approval(s) complied with?	
PA 10_0015	No
EPL 12870	No
ML 1620	Yes
ML 1622	Yes
WAL 29461	No
WAL 36758	No

Table 2 - Non-compliances

Relevant Approval	Condition Schedule and Number	Condition Description (summary)	Compliance status	Comment	Where Addressed in Annual Review
PA 10_0015	Schedule 2(2)	Works carried out in accordance with EA, approval, and statement of commitments.	NC	Non-compliances with licence detailed below.	Section 11.2
	Schedule 2(8)	Prior to the surrender of project approval 06_0198 the conditions of that approval will prevail to the extent of any inconsistency between the two approvals.	NC	Project Approval surrender has been submitted, but not finalised. To be completed during next reporting period.	Section 11.2
	Schedule 3(3)	Implement all reasonable and feasible best practice noise mitigation measures;	NC	Annual Sound Power testing not undertaken during period. Due to be undertaken during the next reporting period.	Section 11.2
	Schedule 3(4)	Prepare and implement a Noise Management Plan	NC	Annual Sound Power testing not undertaken during period. Due to be undertaken during the next reporting period.	Section 11.2
	Schedule 3(10)	Operate a suitable system to enable the public to get up-to-date information on the proposed blasting schedule on site, to the	NC	Not completed during period. The onsite blasting notice boards will be utilised during the next reporting	Section 11.2

		satisfaction of the Secretary.		period.	
	Schedule 3(18)	Requirement for continuous meteorological monitoring.	NC	Continuous monitoring was not achieved. An EPL variation has been submitted to relocate the monitor to address communication issues.	Section 11.2
	Schedule 3(31)	Establish and maintain an effective vegetative screen along the boundary of the site that adjoins public roads;	NC	Visual screen not adequate. Additional planting will be undertaken along the eastern boundary.	Section 11
	Schedule 5(4)	Reviews of strategies, plans or programs.	NC	All plans not reviewed during reporting period. All Environmental Management Plans will be reviewed during the next reporting period.	Section 11
EPL 12870	A3.1	Works carried out in accordance with licence.	NC	Non-compliances with licence detailed below.	Section 11.2
	M2.1, M2.2	Requirement to monitor pollution.	NC	Instances of non-monitoring at point 17 during reporting period, following power outages.	Section 11.2
	M4.1, M4.2	Requirement for continuous meteorological monitoring.	NC	Continuous monitoring was not achieved. An EPL variation has been submitted to relocate the monitor to address communication issues	Section 11.2
WAL 29461	MW0635-00001	The licence holder must record the following in the logbook: (vii) the volume of water taken in any water year from 1 July 2011, by comparison to the maximum volume of water permitted to be taken in that water year.	NC	Logbook not maintained during reporting period. A logbook will be developed and implemented during the next reporting period.	Section 11.2
	MW0633-00001	The licence holder must record the following in the logbook: (I) each date and period of time during which water is taken under this licence; (ii) the volume of water taken on that date; (iii) the water supply work approval number of the water supply work used to take the water on that date; (iv) the purpose or purposes for which the water taken on that date.	NC	Logbook not maintained during reporting period. A logbook will be developed and implemented during the next reporting period.	Section 11.2

	MW0632-00001	The licence holder must keep a log book, except where the access licence nominates only a metered work with a data logger. A "logbook" means a written record, kept in hard copy or electronic form, which accurately records all information required to be kept for this licence.	NC	Logbook not maintained during reporting period. A logbook will be developed and implemented during the next reporting period.	Section 11.2
	MW0637-00001	The licence holder must retain the information required to be recorded in the logbook for 5 years from the date to which that information relates.	NC	Logbook not maintained during reporting period. A logbook will be developed and implemented during the next reporting period.	Section 11.2
	MW0831-00001	The licence holder must notify the Minister, in writing, immediately upon becoming aware of a breach of any condition of this licence. Note: a notification does not authorise a breach, or continuing breach, of a condition of this licence.	NC	Notification made within this Annual Review.	Section 11.2
WAL 36758	MW0635-00001	The licence holder must record the following in the logbook: (vii) the volume of water taken in any water year from 1 July 2011, by comparison to the maximum volume of water permitted to be taken in that water year.	NC	Logbook not maintained during reporting period. A logbook will be developed and implemented during the next reporting period.	Section 11.2
	MW0633-00001	The licence holder must record the following in the logbook: (i) each date and period of time during which water is taken under this licence; (ii) the volume of water taken on that date; (iii) the water supply work approval number of the water supply work used to take the water on that date; (iv) the purpose or purposes for which the water taken on that date.	NC	Logbook not maintained during reporting period. A logbook will be developed and implemented during the next reporting period.	Section 11.2
	MW0632-00001	The licence holder must keep a log book, except where the access licence nominates only a metered work with a data logger. A	NC	Logbook not maintained during reporting period. A logbook will be developed and	Section 11.2

		"logbook" means a written record, kept in hard copy or electronic form, which accurately records all information required to be kept for this licence.		implemented during the next reporting period.	
	MW0637-00001	The licence holder must retain the information required to be recorded in the logbook for 5 years from the date to which that information relates.	NC	Logbook not maintained during reporting period. A logbook will be developed and implemented during the next reporting period.	Section 11.2
	W0831-00001	The licence holder must notify the Minister, in writing, immediately upon becoming aware of a breach of any condition of this licence. Note: a notification does not authorise a breach, or continuing breach, of a condition of this licence.	NC	Notification made within this Annual Review.	Section 11.2

Compliance status key for Table 2

Risk level	Colour code	Description
High	Non-compliant	Non-compliance with potential for significant environmental consequences, regardless of the likelihood of occurrence
Medium	Non-compliant	Non-compliance with: • potential for serious environmental consequences, but is unlikely to occur; or • potential for moderate environmental consequences, but is likely to occur
Low	Non-compliant	Non-compliance with: • potential for moderate environmental consequences, but is unlikely to occur; or • potential for low environmental consequences, but is likely to occur
Administrative non-compliance	Non-compliant	Only to be applied where the non-compliance does not result in any risk of environmental harm (e.g. submitting a report to government later than required under approval conditions)

2 INTRODUCTION

This is the seventh Annual Review (AR), previously Annual Environmental Management Report, produced for the RCM, and it has been prepared in accordance with Conditions 4 and 5 of Mining Lease (ML 1620) (Mining Act 1992), Condition 4 of Mining Lease (ML 1662) and Condition 3 Schedule 5 of PA 10_0015, as modified. The AR follows the format required by the NSW Government Annual Review Guideline (October, 2015).

The RCM is located approximately 28km north of Gunnedah (Refer Figure 1). The RCM is owned by Whitehaven Coal Limited (WCL) and operated by Whitehaven Coal Mining Pty Ltd (WCMPL).

The RCM was initially approved on the 15th April 2008 under PA 06_0198 with a minor modification (PA 06_0198 MOD 1) granted in May 2010 to address highwall stability issues. Whitehaven submitted a Project Application, and accompanying Environmental Assessment, under Part 3A of the *Environmental Planning and Assessment Act 1979* in March 2010. PA 10_0015 was issued on the 27th September 2011 and allows for additional extraction of up to 5 million tonnes of coal at a maximum recovery rate of 1.5 million tonnes per annum (i.e. increased projected life of the operation for coal extraction by up to four years).

PA 10_0015 was modified (PA 10_0015 MOD 1) on the 10th November 2014, to condition cumulative coal haulage from the Tarrawonga/Vickery/RCM mines, with a further modification (PA 10_0015 MOD 2) approved on the 24th August 2015 allowing changes to coal reject haulage to the site.

2.1 Mine Contacts

The management personnel responsible for operational and environmental performance at the RCM and their relevant contact details are as follows:

- Mr Blair Meyers, Manager Mining Engineering - statutory responsibility for mining activities at the site. Contact: (02) 6740 7000.
- Mr Nigel Wood, General Manager, Open Cut Operations - oversees Open Cut Operations for the Whitehaven Group. Contact: (02) 6741 9309.
- Mrs Madeline Whitten – Graduate Environment – oversees day to day environmental and rehabilitation performance across the site. Contact: (02) 6741 9324.

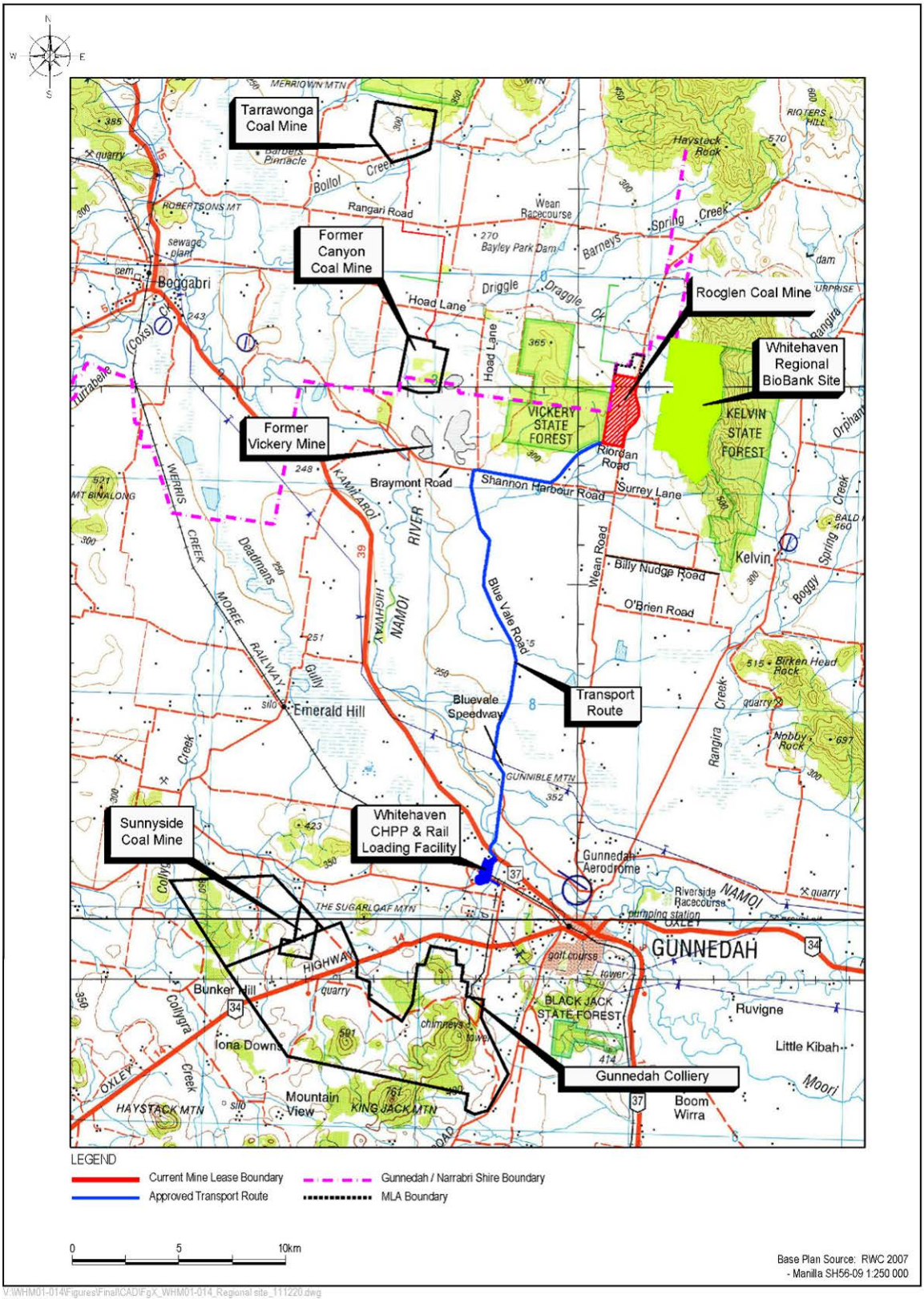


Figure 1 Locality Plan

3 APPROVALS

3.1 Tenements, Licences, and Approvals

Table 3 identifies the approvals in place for the RCM at the end of the reporting period, the issuing / responsible Authority, dates of issue, expiry date and relevant comments.

Table 3 - Tenements, Licences and Approvals

Issuing / Responsible Authority	Type of Lease, Licence, Approval	Date of Issue	Expiry	Comments
Department of Planning and Environment	Project Approval PA 10_0015 MOD 2	24th August 2015	31st December 2022	Modification allowing changes in coal reject haulage to the site.
Environment Protection Authority	Environment Protection Licence No. 12870	31st July 2008	N/A Anniversary date 31st July	Variation submitted in March 2016 for relocation of met station still pending.
Department of Primary Industries – Division of Resources and Energy	ML 1620	10th June 2008	10th June 2029	-
Department of Primary Industries – Division of Resources and Energy	ML 1662	9th January 2012	9th January 2033	-
Department of Primary Industries - Water	WAL 29461	25th October 2012	In perpetuity	-
Department of Primary Industries - Water	WAL 36758	4th September 2014	In perpetuity	-

4 OPERATIONS SUMMARY

4.1 Mining Operations

Table 4 – Production Summary

Material	Approved Limit (t)	Previous Reporting Period (t) (actual)	This Reporting Period (t) (actual)	Next Reporting Period (t) (forecast)
Waste Rock/Overburden	N/A	5,648,356	5,080,179	4,803,748
ROM Coal/Ore	1,500,000	1,170,755	1,260,349	1,231,673
Reject Material	700,000	387,333	322,707	287,244
Saleable Product	N/A	834,814	936,457	767,156

4.2 Other Operations

4.2.1 Hours of Operations

RCM hours of operation during the reporting period were within Project Approval limits, which permit mining 24 hours per day Monday to Saturday, with the exclusion of public holidays, except for blasting, which is restricted to 9:00am – 5:00pm Monday to Saturday. Currently the mine has two production shifts on weekdays which are day shift (7:00am to 3:00pm) and afternoon shift (3:00pm to 11:00pm). A Saturday shift is not currently rostered for RCM, although they are occasionally undertaken if required. Other ancillary tasks and maintenance activities continued 24 hours per day, seven days per week.

4.2.2 Coal Haulage

For the reporting period there were 29,651 trucks movements to transport 1,259,586t of along the approved haulage route from RCM to the Whitehaven Gunnedah CHPP. Combined haulage of ROM coal from RCM and Tarrawonga Coal Mine was 3,449,616t. There was also an additional 12,705 truck movements to transport 488,738t of chitter from the CHPP back to RCM.

Transport of coal from the site or receipt of coal reject from the Whitehaven CHPP by truck has only occurred during the approved hours of:

(a) 7 am to 9.15 pm Monday to Friday;

(b) 7 am to 5.15 pm Saturday; and

(c) at no time on Sundays or public holidays.

4.2.3 Exploration

No exploration was undertaken during the reporting period.

4.3 Next Reporting Period

The mine production rates are planned for approximately 1.2Mt of ROM coal and approximately 4.9 million bank cubic metres (Mbcm) of overburden during the next reporting period.

Vegetation clearing activities in mining areas over the next reporting period will be conducted in accordance with the approved MOP.

5 ACTIONS REQUIRED FROM PREVIOUS ANNUAL REVIEW

Actions from the previous Annual Review are noted in Table 5.

Table 5 - Actions Required from the Previous Annual Review

Action Required from Previous Annual Review	Requested By	Action Taken by the Operator	Where Discussed in Annual Review
Discussion of trends for each environmental issue	Department of Planning & Environment	Included within this Annual Review	Section 6 Environmental Performance, and Section 7 Water Management
Include a statement of compliance for each environmental issue	Department of Planning & Environment	Included within this Annual Review	Section 6.10 Environmental Performance Summary
Document the status of actions from any audits undertaken during AR period.	Department of Planning & Environment	Independent Environment Audit undertaken by ERM during the reporting period.	Section 10 Independent Audit

Further to the above actions, DP&E requested advice regarding the status of the Traffic Management Plan (TMP) for the Project, and the placement of the Plan on the Company website. The TMP, that is shared with Tarrawonga Coal Mine, was revised and approved within the reporting period, and is available on the WHC website.

6 ENVIRONMENTAL PERFORMANCE

The following sub-sections document the implementation and effectiveness of the various control strategies adopted at the RCM, together with monitoring data for the reporting period. Life of mine monitoring data is included as Appendices in this AR, where relevant, to allow for discussion on longer-term trends.

6.1 Air Quality

6.1.1 Criteria

The air quality criteria applicable to the RCM are specified in PA 10_0015, and are summarised below.

- Acceptable mean annual increase in deposited dust – 2 g/m^2/month.
- Mean annual dust deposition (all sources) – 4 g/m^2/month.
- Mean annual Total Suspended Particulate (TSP) matter (all sources) concentration – 90 $\mu g/m^3$.
- Mean annual PM_{10} particulate level – 30 $\mu g/m^3$.
- 24 hour average PM_{10} particulate level – 50 $\mu g/m^3$.

6.1.2 Environmental Management Measures

Monitoring of deposited dust is undertaken on a monthly basis whilst PM_{10} levels are monitored every 6 days.

Table 6 presents a summary of the deposited dust monitoring data.

Table 6 - Deposited Dust Monitoring Data Summary 2015-16

Site	EPL ID no.	Property Name	Annual Mean Total Insoluble Solids (g/m^2/month)	Annual Mean Ash (g/m^2/month)	Long term Insoluble Solids Average (g/m^2/month)
BD 3		Belah	1.8	0.6	1.2
BD4	4	Surrey	1.1	0.5	1.1
BD5		Stratford	0.8	0.5	1.1
BD6	6	Roseberry	0.9	0.4	1.2
BD7	7	Roseglass	0.6	0.3	1.0
BD8		Yarrawonga	0.7	0.4	1.1
BD2-A		Penryn	1.4	0.7	3.1

A review of Table 6 shows that the annual average limit for deposited dust was not exceeded at any location during the reporting period.

Whitehaven has two High Volume Air Samplers (PM_{10}). One is located at the project related property “Costa Vale”, to the north of the mine site. The other PM_{10} monitoring location is

licensed (EPL ID – 10), and is located on the privately owned (under private agreement) "Roseberry" property to the south-east of the mine site. The PM_{10} results for the reporting period show compliance with the annual average criteria, with annual averages of 15.74µg/m^3 at Costa Vale, and 12.35µg/m^3 at Roseberry, and comparable to results of 12.4µg/m^3 and 10.5 µg/m^3 respectively for the previous reporting period.

The 24 hour average PM_{10} particulate level of 50µg/m^3 was exceeded on one occasion during the reporting period, and occurred on the 29th April 2016 with a result of 81.7µg/m^3. Notification was provided to the EPA on the 12th May 2016, and a follow up report provided on the 20th May. The report stated that given both the RCM weather station and Costa Vale HVAS are located to the north of operations and that recorded data indicated that there were no abnormal operations or dust observations to the north of the mine site, it is likely that the elevated PM_{10} reading was not related to mining activity.

In accordance with Schedule 3 Condition 16 of PA 10_0015, RCM also operated a continuous real time dust monitor, or Tapered Element Oscillating Microbalance (TEOM) monitor (PM_{10}), at the "Roseberry" property during the period. Data is generated every 15 minutes and correlated against current weather conditions, with alarms notifying site personnel of elevated PM_{10} results when wind conditions and direction is indicative of mining influence on the monitor. The monitor is used as a management tool for assessing dust levels on a real time basis through its web based platform.

The 24hr PM_{10} criteria of 50 µg/m^3 was exceeded once during the period, with notification provided to the EPA. This notification specified that prevailing wind conditions during the period of elevated results were from the south/south-east towards the mine site. The elevated PM_{10} result was clearly not mine related, and the TEOM is not used as a compliance tool, but notification has been provided in accordance with the Rocglen Air Quality and Greenhouse Gas Management Plan.

6.1.3 Long term trends

A review of the life-of-mine data set for deposited dust shows that the results for this period are consistent with the long term average. BD3 was the only site which received a higher reading for the period than the long term average. The results are also consistent with predictions from the Environmental Assessment (EA) undertaken by PAE Holmes Pty Ltd, which forecast that dust deposition levels at all receptors would be well below the relevant criteria.

6.1.4 Key Environmental Performance/Management Issues

No key environmental performance/management issues were raised during the period. Compliant monitoring results for both deposited dust and PM_{10} levels were maintained throughout the reporting period, notably being sustained through a very dry summer season. The only non-compliance with the 24 hour average PM_{10} particulate level of 50µg/m^3 was deemed to be non-mine related.

6.1.5 Proposed Improvements to Environmental Management

The HVAS unit currently located on the Roseberry property is proposed to be relocated to a privately owned neighbouring property which is not under agreement with RCM. Discussions with relevant landholders have commenced, and it is intended that the monitor will be relocated within the next reporting period.

6.2 Biodiversity

6.2.1 Threatened Flora

Whitehaven has prepared a Rehabilitation Management Plan (RMP) in accordance with Schedule 3 Condition 36 of PA 10_0015 which was approved by the Division of Resources and Energy in April 2012. The plan includes requirements for flora monitoring on rehabilitated areas. Rehabilitation monitoring was undertaken at RCM April 2015, and in accordance with the Rehabilitation Management Plan will be due again during the next reporting period. It is intended that in future the RCM Mining Operations Plan (MOP) will meet the requirements of Schedule 3 Condition 36 of PA 10_0015.

To address and offset vegetation impacts of the RCM, a Biodiversity Offset Strategy was prepared as part of the Rocglen Extension Project. The area of offset required was calculated using the NSW BioBanking Assessment Methodology, which calculates the number of "credits" required at the impact site based on the area and condition of each vegetation type impacted, and the number of credits generated at a BioBank Site based on the improvement in biodiversity values via conservation management. On the 28th June 2012, the Whitehaven Regional BioBank site was formally established under BioBank Agreement 43. This BioBank site, which includes the "Yarrari" and "Belah" properties, now accounts for the RCM offset requirements. The BioBank credits required to be retired for these approvals

occurred on the 17th April 2013, and the area is now subject to active management in accordance with the Management Plan for the Regional BioBank site.

A BioBank Management Plan has been prepared for the site, with active management required to commence on release of the first years management costs from the BioBank Trust Fund. Management actions undertaken during the period are reported in the Biobank Annual Report, included in Appendix 1.

6.2.2 Threatened Fauna

Whitehaven engaged RPS Harper Somers O'Sullivan to undertake a Flora and Fauna Assessment to support the application for the Extension Approval. Further to Countrywide Ecological Service investigations in 2007, RPS recorded a total of 100 fauna species, including one additional threatened species, the Speckled Warbler *(Pyrrholaemus sagittatus),* present within the project area.

As discussed in Section 6.2.1, Whitehaven developed a Rehabilitation Management Plan (RMP), which includes detail on monitoring, and where fauna monitoring will be undertaken biennially. Fauna monitoring plots were established during spring 2009 in areas adjacent to the site.

No threatened fauna or active nests were identified during the reporting period. It is anticipated that the biennial fauna monitoring will continue in the next reporting period.

It has been found that due to RCM's proximity to Vickery State Forest, much of the fauna species richness can still be expected to continue to exist on the mine site throughout the life of the mine. It has also been noted that the abundance of water located at the RCM site has attracted many animals to congregate on the rehabilitation and in the woodlands around the mine.

6.2.3 Weeds

Weed management within the project area involves targeted monthly inspections to determine levels of weed infestation, followed by targeted campaign spraying of identified areas of concern. Weed control is undertaken by Whitehaven's own qualified personnel; all persons involved with weed control hold the required chemical handling certificates.

Minor ongoing weed management comprised general weed spraying on six occasions during the reporting period, in January, February, March, and July 2016. No major weed infestations were identified on rehabilitation areas.

6.2.4 Feral Animal Control

Feral animals are not a significant land management issue on RCM's landholding and are limited to isolated occurrences of pigs, foxes, hares and rabbits. In view of the low frequency of occurrence, and in the absence of an extensive programme by all surrounding landowners, no broad scale feral animal control programme was considered warranted during the reporting period. In accordance with prior commitments, mine personnel will continue to monitor feral animal occurrences and implement necessary control programmes if and when necessary.

6.2.5 Key Environmental Performance/Management Issues

African Boxthorn has been identified on site in previous years, and was targeted again during the period along the northern boundary of the site. Spot spraying has been effective at limiting the population on site, and ongoing management continues to address new plants regrowth.

6.2.6 Proposed Improvements to Environmental Management

No improvements are proposed within the next reporting period.

6.3 Blasting

6.3.1 Criteria

Blasting criteria for the RCM are noted in PA 10_0015, and included below:

The overpressure level from blasting operations must not:

- exceed 115dB (Lin Peak) for more than 5% of the total number of blasts over each reporting period; and
- exceed 120dB (Lin Peak) at any time, at any residence on privately-owned land.

Ground vibration peak particle velocity from the blasting operations must not:

- exceed 5mm/s for more than 5% of the total number of blasts during each reporting period; and
- exceed 10mm/s at any time, at any residence on privately-owned land.

6.3.2 Key Environmental Performance/Management Issues

RCM had two exceedances of the 95th%tile limit of 115dB during the period, one of which was also an exceedance of the 120db 100%tile limit. This exceedance occurred on the 26th

May 2016 at the Roseberry property, with a result of 123.6dB. The Roseberry property is currently under private agreement, and as such compliance with PA 10_0015 is considered to have been maintained. Whitehaven are currently working with the NSW EPA and DP&E to select an alternate blast monitoring location on privately owned land that is not under private agreement.

Table 7 below summarises the blast monitoring results during the period.

Table 7 Blast Monitoring Results

Location	Parameter	100%tile limit	Average	Max	95th%tile limit	>95th%tile
Roseberry	Air blast overpressure (dB(Lin Peak))	120	102.2	123.6	115	4.7%
	Vibration (mm/s)	10	0.29	1.01	5	0
Retreat	Air blast overpressure (dB(Lin Peak))	120	97.6	111.8	115	0
	Vibration (mm/s)	10	0.12	0.73	5	0

Post blast inspections of flyrock have demonstrated that current blast procedures are sufficient in ensuring that blasting carried out within 500 metres of privately owned land is not compromising the safety of the people or livestock, or damaging the buildings and/or structures, on that land.

6.3.3 Proposed Improvements to Environmental Management

Given that the Roseberry property is currently under private agreement, RCM intends to relocate the blast monitor located on that property to alternate privately owned land which is not under private agreement. Discussions with relevant landholders and regulators have commenced, and it is intended that the monitor will be relocated within the next reporting period.

6.4 Operational Noise

6.4.1 Criteria

The operational noise criteria specified in PA 10_0015 and EPL 12870 are as follows:

Noise Criteria dB(A)

Location	***Day***	***Evening***	***Night***	
	$L_{Aeq\ (15\ min)}$	$L_{Aeq\ (15\ min)}$	$L_{Aeq\ (15\ min)}$	$L_{A1\ (1\ min)}$
All privately-owned land	*35*	*35*	*35*	*45*

The cumulative road noise criteria specified in PA 10_0015 (RCM) and PA 11_0047 MOD1 (Tarrawonga) is:

Road Traffic Noise Criteria dB(A)

Location	***Day*** $L_{Aeq\ (15\ hour)}$	***Evening*** $L_{Aeq\ (15\ hour)}$	***Night*** $L_{Aeq\ (9\ hour)}$
All privately-owned residences	*60*	*60*	*55*

6.4.2 Environmental Management Measures

Control of noise generation and propagation at the mine is by a combination of general source and propagation path methods including:

- Where operationally feasible, scheduling activities to minimise operation of equipment in exposed locations when winds are blowing towards residences and elevated locations when temperature inversions are present;
- Equipment removal or replacement;
- Changing operational procedures;
- Restricting hours of operations;
- Enclosure of fixed items of plant, e.g. generators;
- Bunding close to noise sources to create obstructions to the propagation path;
- On-going site road maintenance using the mine-based grader; and
- Regular equipment maintenance.

6.4.3 Key Environmental Performance/Management Issues

In accordance with the Condition 3(c) of Schedule 3 of PA 10_0015 RCM is required to regularly assess real-time noise levels and meteorological forecasting data to ensure compliance with the operational noise criteria. RCM utilises a mobile real time noise monitor which is used to actively monitor noise at surrounding properties which are likely to receive the greatest impact from operations. The unit monitors operational noise levels in comparison with compliance levels and when noise levels approach criteria an alarm system is triggered to operations personnel. Operations and environmental personnel are able to log on to a web based platform where real time noise and weather data is viewable. The web based platform may also be used to live stream from the monitor to identify specific sources of noise which will be used to confirm if the source is mining related.

Attended noise monitoring was undertaken on a quarterly basis during the reporting period (September 2015, December 2015, March 2016 and June 2016). Cumulative road noise monitoring occurred in December 2015 and June 2016, as required under the Road Traffic Noise Management Plan.

No exceedances of either operational or road transport noise criteria were noted during the reporting period, nor were any noise related complaints received during the period.

6.4.4 Long term trends

The road noise monitoring results are consistent with the predictions of the Whitehaven ROM Coal Haulage Modification Environmental Assessment for the southern section of the approval transport route, and show consistent trends within compliance limits. Mine noise trends continue to show improvement following a number of exceedances during the early years of production, with no non-compliances recorded in the previous two reporting periods.

6.4.5 Proposed Improvements to Environmental Management

No improvements are proposed within the next reporting period.

6.5 Aboriginal Heritage Management

6.5.1 Environmental Management Measures

In 2010, RPS archaeologists conducted an assessment and field survey of the potential impact of the Rocglen Extension on Aboriginal heritage. The archaeological field survey,

which covered the area proposed to be disturbed by the expansion of the Northern Emplacement Area, was undertaken with members of four local Aboriginal Stakeholder groups. In summary, three stone artefact sites were located comprising of one isolated find (IF1) and two artefacts scatters (AS1 and AS2). To date, the measures in place to protect Aboriginal Cultural Heritage are considered satisfactory, with all measures identified in the EA and consent criteria in place.

6.5.2 Consultation

No further stripping or clearing was undertaken during the reporting period, and as such no consultation has been undertaken.

6.5.3 Key Environmental Performance/Management Issues

No key environmental performance/management issues were identified during the reporting period.

6.5.4 Proposed Improvements to Environmental Management

A review of the Heritage Management Plan is proposed to be undertaken during the next reporting period.

6.6 Natural Heritage

There are no features of natural heritage within the Project Approval area and hence, no specific management procedures are required.

6.7 Bushfire Management

6.7.1 Environmental Management Measures

The mine maintains firebreaks around both its landholding and the mine area and maintains firefighting equipment as well as earthmoving equipment, a water truck and fire tender which would be used in the control of fires. RCM personnel also liaise with the local (Nandewar) Rural Fire Service and the Regional Fire Control, as required.

6.7.2 Key Environmental Performance/Management Issues

No key environmental performance/management issues were identified during the reporting period, with no fires occurring on site or on project-related mine owned land.

6.7.3 Proposed Improvements to Environmental Management

No improvements are proposed within the next reporting period.

6.8 Waste

6.8.1 Environmental Management Measures

Waste oils from maintenance activities were pumped from equipment to bulk storage tanks bunded in accordance with EPA requirements. When breakdown maintenance was undertaken away from the workshop, oil was pumped from the equipment to a tank on the service truck and subsequently transferred to the bulk storage tank.

Waste oil and filters stored at the maintenance workshop were collected and disposed of by a licensed contractor.

Runoff from the concrete vehicle and equipment wash pad was directed to an oil separator and containment system for subsequent pump out and disposal.

RCM also continues to record waste streams such as general domestic-type waste and recycling, overburden and interburden, mine reject waste, and mine equipment tyres.

No incidents relating to waste management occurred during the reporting period.

6.8.2 Key Environmental Performance/Management Issues

No key environmental performance/management issues were identified during the reporting period.

6.8.3 Proposed Improvements to Environmental Management

No improvements are proposed within the next reporting period.

6.9 Public Safety

The mine is located wholly on Whitehaven owned land in a rural area, with a private access road entering the site on the south-western boundary and the Wean Road positioned adjacent to the eastern side of the mine boundary. The site is fenced with lockable access gates and visible signs installed.

Visitors to the mine are required to report to the mine office and unauthorised personnel are not permitted to move around the mine area unaccompanied. Procedures are in place

with respect to blasting to ensure the area around each blast site (exclusion zone) is clear of personnel and that all surrounding residents are advised in advance of proposed blasts.

6.9.1 Environmental Management Measures

No key environmental performance/management issues were identified during the reporting period.

6.9.2 Proposed Improvements to Environmental Management

No improvements are proposed within the next reporting period.

6.10 Environmental Performance Summary

An environmental performance summary for RCM is presented in Table 8 below.

Table 8 Environmental Performance Summary

Aspect	Approval Criteria / EIS Prediction	Performance during the reporting period	Trend / Key Management Implications	Implemented / proposed management actions
Air Quality	Refer section 6.1	One exceedance of HVAS criteria on Roseberry property (under private agreement), determined to be non-mine related.	Nil	Nil
Biodiversity	Refer section 6.2	Approval criteria met.	Nil	Nil
Blasting	Refer section 6.3	Two exceedances of approval criteria occurred on land under agreement with RCM.	Nil	Relocate blast monitor to privately owned land which is not under agreement with RCM.
Noise	Refer section 6.4	Approval criteria met.	Nil	Nil
Heritage	Refer section 6.5	Approval criteria met.	Nil	Nil
Bushfire Management	Refer section 6.7	No bushfires on site or in biobank site during reporting period.	Nil	Nil
Rehabilitation	Refer	Section 240 Notice issued	Nil	Earth works

	section 11.3	by DRE requiring earth works to address failed contour drainage in rehabilitation area.		undertaken in accordance with notice, with report submitted by due date.

7 WATER MANAGEMENT

7.1.1 Surface Water Management

The mine lies within the catchment of the Namoi River, and in close proximity to Driggle Draggle Creek. The design of sediment detention basins on site aims to limit the opportunity of discharge of runoff from mine-disturbed areas, until such time as the licenced discharge criteria are met. All sediment basins, storage dams and associated banks and drains have been designed and constructed in accordance with the Managing Urban Stormwater: Soils and Construction Vol 2E Mines and Quarries (DECC, 2008) in conjunction with the references to Volume 1 (Landcom, 2004). At the end of the reporting period onsite water levels were at 63.6 ML, down considerably from 246.9ML recorded at the end of the previous reporting period, as a result of a very hot and dry summer season.

7.1.2 Surface Water Monitoring Results

RCM has a requirement to undertake surface water monitoring on a quarterly basis, in addition to any monitoring required during discharge events. Whilst there are no criteria or concentration limits specified for the quarterly surface water samples, the results do provide an indication as to the quality of waters on-site. The assessment of sediment load, salinity, pH, oil and grease and other monitoring parameters during these quarterly water monitoring events also provides an indication of the capacity for those storages to meet water quality criteria should a wet weather discharge occur, and if additional treatment methods would be warranted to minimise potential for a non-compliant discharge. The quarterly surface water testing includes the void water dam (Void), 3 additional out of pit surface water storages, (SD3, SB19, Dam B), and one offsite upstream dam (SD7).

Overall, samples taken throughout the reporting period indicate relative consistency across all monitoring parameters, with the exception of Total Organic Carbon (TOC) which showed slight fluctuations for some sites. SD3 showed results returning to normal levels following high results for pH and Total Organic Carbon in early 2015. Long term trends continue to show a slight rise in Electrical Conductivity (EC).

7.1.3 Long term trends

The surface water assessment carried out by GSS Environmental for the Extension EA predicted that there would be minimal impact on flow regimes downstream of the Project

Site due to the RCM, which has proven to be generally correct over the long term operations of the site.

Soil and water assessments for the site suggested that Total Suspended Solids (TSS) is likely to be the key water quality parameter requiring management during the life of the Project to ensure the water quality in downstream watercourses is not impacted. During the period TSS has not been as problematic in surface water at RCM, compared to previous years due to a high focus on water management. A number of surface water management recommendations were made in the surface water assessment for the Extension Project including the installation of sediment basins, targeting final discharge dams for water use and using flocculants to settle suspended solids. These measures have been implemented throughout the reporting period, and ensured that, as predicted in EA investigations, downstream water courses were minimally impacted by TSS, ensuring continuing long-term adherence to the EA predictions.

7.1.4 Discharges

There are two licenced wet weather discharge points nominated in the current EPL 12870: LDP11 to the south or the site, and LDP12 to the north of the site.

During the reporting period there were no controlled or wet weather discharges of water from the site.

7.1.5 Water Take

The water taken by the operation is summarised in Table 9, and shows compliance with licence entitlements.

Table 9 Water Take

Water Licence Number	Water Sharing Plan, Source and Management Zone (as applicable)	Entitlement	Passive take/ inflows	Active Pumping	TOTAL
WAL 29461	Gunnedah - Oxley Basin Mdb Groundwater Source	120 units	0	27,000L	27,000L
WAL 36758	Gunnedah - Oxley Basin Mdb Groundwater Source	700 units	0	133.17ML[1]	133.17ML

[1] Includes incidental pit surface water runoff

7.2 Groundwater Management

7.2.1 Environmental Performance/Management

The mine's performance with respect to groundwater performance/management, the prevention of pollution, and the assessment of impacts on groundwater availability to other surrounding users, has been assessed through groundwater level and chemistry monitoring undertaken at a series of bores within the Project Area and adjacent properties.

7.2.2 Groundwater Monitoring

The details of the groundwater monitoring program utilised throughout the reporting period are listed below in Table 10.

Groundwater sampling and analysis was undertaken by ALS Acirl Pty Ltd during the reporting period.

Table 10 Groundwater Monitoring Program

Site (See Figure 3)	Registered Bore No. / Licence No	Property / Location	Frequency		Purpose
			SWL*2, EC*3 and pH	Representative Metals and Ions*4	
MP-2	GW968534 90BL254856	Mine site	Quarterly	Six monthly	To determine existing status and any impacts
MP-2a	90BL256103	Mine site	Quarterly	Six monthly	To determine existing status and any impacts
MP-3	GW968535 90BL254857	"Stratford"	Quarterly	Six monthly	To determine existing status and any impacts
MP-3a	90BL256108	"Stratford"	Quarterly	Six monthly	To determine existing status and any impacts
MP-4*1	GW968536 90BL254858	Surrey Lane	Quarterly	Six monthly	To determine existing status and any impacts
MP-4a*1	90BL256140	Surrey Lane	Quarterly	Six monthly	To determine existing status and any impacts
MP-4b*1	90BL256141	Surrey Lane	Quarterly	Six monthly	To determine existing status and any impacts
MP-5	GW968537 90BL254859	"Yarrawonga"	Quarterly	Six monthly	To determine existing status and any impacts
MP-5a	90BL256106	"Yarrawonga"	Quarterly	Six monthly	To determine existing status and any impacts
MP-6	90BL256105	"Costa Vale"	Quarterly	Six Monthly	To determine existing status and any impacts
MP-7	90BL256104	Mine site	Quarterly	Six Monthly	To determine existing status and any impacts

Site (See Figure 3)	Registered Bore No. / Licence No	Property / Location	Frequency		Purpose
			SWL*2, EC*3 and pH	Representative Metals and Ions*4	
MP-8	90BL256102	Mine site	Quarterly	Six Monthly	To determine existing status and any impacts
WB-1*1	GW000743	"Costa Vale"	Quarterly	Six monthly	To determine existing status and any impacts
WB-2*1	GW050395 90BL111536	"Roseberry"	Quarterly	Six monthly	To determine existing status and any impacts
WB-3	GW050166 90BL110883	"Glenroc"	Quarterly	Six monthly	To determine existing status and any impacts
WB-4	GW045621 90BL104367	"Yarrawonga"	Quarterly	Six monthly	To determine existing status and any impacts
WB-5*1	GW011066 90BL004169	"Roseberry"	Quarterly	Six monthly	To determine existing status and any impacts
WB-6	GW044068 90BL102845	"Yarrari"	Quarterly	Six monthly	To determine existing status and any impacts
WB-7*1	GW022319 90BL013922	"Roseberry"	Quarterly	Six monthly	To determine existing status and any impacts
WB-8*1	GW052958 90BL107181	"Surrey"	Quarterly	Six monthly	To determine existing status and any impacts
WB-9*1	N/A	"Carlton"	Quarterly	Six monthly	To determine existing status and any impacts
WB-10*1	N/A	"Brolga"	Quarterly	Six monthly	To determine existing status and any impacts
WB-11*1	N/A	"Brolga"	Quarterly	Six monthly	To determine existing status and any impacts
WB-12*1	N/A	"Brolga"	Quarterly	Six monthly	To determine existing status and any impacts
WB-13*1	N/A	"Carlton"	Quarterly	Six monthly	To determine existing status and any impacts
WB-14*1	N/A	"Barock"	Quarterly	Six monthly	To determine existing status and any impacts
WB-15*1	N/A	"Kahana"	Quarterly	Six monthly	To determine existing status and any impacts
Yarrari	N/A	"Yarrari"	Quarterly	Six monthly	To determine existing status and any impacts
Surrey No.2*1	N/A	"Surrey"	Quarterly	Six monthly	To determine existing status and any impacts

*1 Non-Company owned bore

*2 SWL – Standing Water Level

*3 EC = Electrical Conductivity

*4 As specified in SWMP

Groundwater levels

Groundwater levels have remained relatively consistent at the majority of monitoring sites during the reporting periods, with limited exceptions detailed below.

- WB5, located on the Roseberry property, and WB13 continue to show fluctuating levels associated with non-mining influences.
- MP-5a is a piezometer installed directly adjacent to MP-5. Since monitoring commenced in March 2013, it showed a reasonably consistent SWL until September 2013, where the SWL dropped 4.4m to 71.25m. The SWL dropped a further 5.3m in November 2013, where it remained consistent at around 76.6m. For the previous reporting period and this reporting period the bore has remained relatively consistent, dropping only 1.66m since the beginning of 2014. There remains insufficient data at this point to verify any ongoing trend, however being in relatively close proximity to the open cut pit (within 1km), drawdown is not unexpected.

The pressure transducers/loggers installed in monitoring bores on site in accordance with the EA show consistent groundwater levels at all 5 recording sites. These results are generally consistent with the results of quarterly monitoring undertaken in the reporting period for these monitoring bores. A summary of the pressure transducer monitoring data is provided in Figure 2.

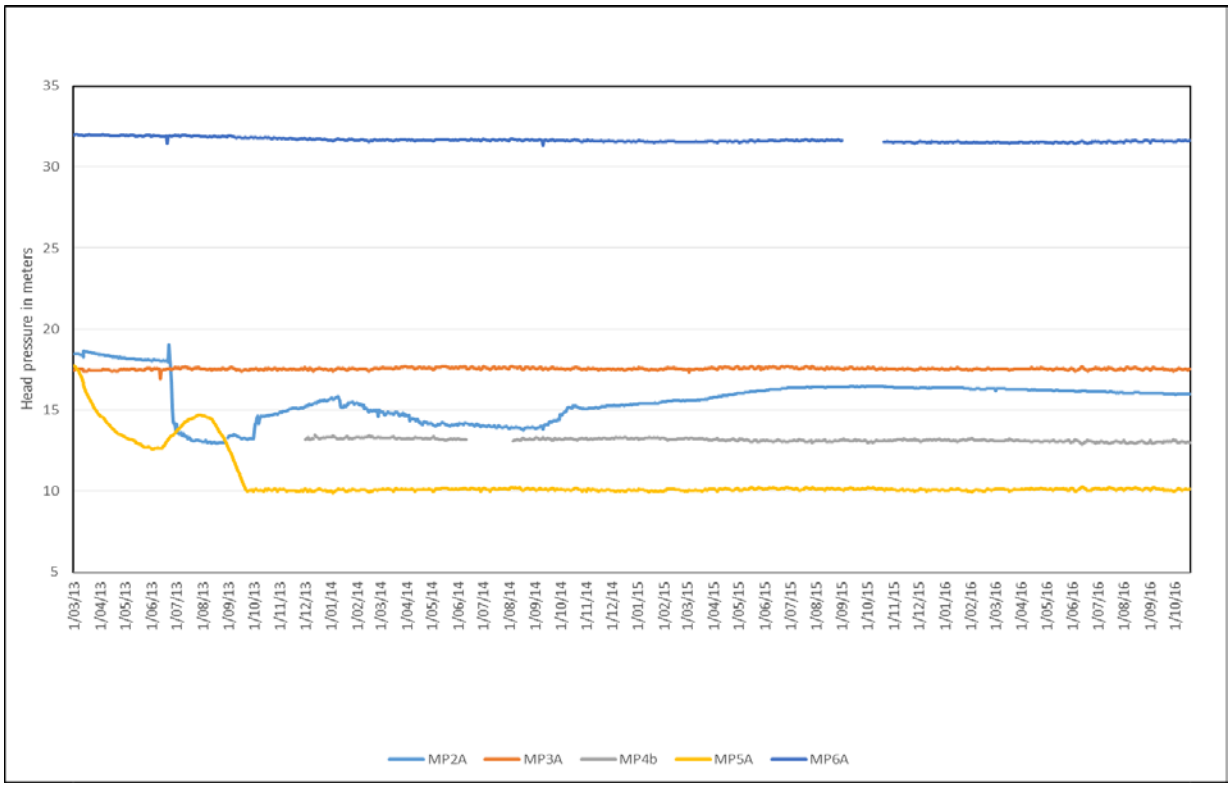


Figure 2 Rocglen VW Piezometers Ground Water Head Pressure

Groundwater quality

With the exception of fuels and oils, no materials occur, or are retained on the mine sites which are likely to be a source of groundwater pollution.

Analysis of samples taken during the reporting period has shown that groundwater quality has remained generally in line with historical data at all locations monitored. Water quality has been compared to the Australian and New Zealand Guidelines for Fresh and Marine Water Quality (2000) (ANZECC) guidelines for stock watering (cattle).

Previous monitoring has shown that after unusually elevated results, analyte concentrations usually return to more typical levels and it is expected that this trend will continue.

7.2.3 Long term trends

The hydrogeological assessment undertaken by Douglas Partners for the Extension EA concluded that drawdown on the surrounding groundwater system as a result of the expanded mining operation would be limited during the operation of the mine. This is due to faulting in the vicinity of the mine and generally low permeability of the Maules Creek Formation strata, with hydraulic connectivity within the alluvium at the north and south of the site considered to be limited. As found during the reporting period, standing water levels generally have not lowered at the monitoring and groundwater bores surrounding the mine, with the exception of MP-5a. Douglas Partners predicted that at the end of the northern phase of mining during the extension of the pit, MP-5 / MP-5a could be drawn down by up to 13.4m. Results indicate that the actual drop of approximately 15.26m in SWL is slightly higher than this prediction.

7.2.4 Groundwater Management

At the end of the reporting period an there was no water held in the pit. Inflows into the open cut at other times during the period result from a combination of:

- Direct rainfall runoff and infiltration through the emplaced overburden which flows down to the open cut; and
- Inflows from the exposed coal seam.

Contamination of groundwater is controlled by the management of chemical, oil and grease spills and storage, with:

- Vehicle maintenance carried out in designated areas;

- Any spills being cleaned up, with contaminated soil placed in designated bioremediation areas; and
- Fuels, oil, and grease being stored within a bunded area, constructed in accordance with EPA requirements.

Groundwater from surrounding bores is monitored on a regular basis to detect and assess any changes in groundwater quality or level that may be attributable to the mine.

8 REHABILITATION

8.1 Rehabilitation Performance during the Reporting Period

8.1.1 Status of Mining and Rehabilitation

The status of mining and rehabilitation at the completion of the reporting period is presented in Table 11 and Figure 3.

Table 11 Rehabilitation Status

Mine Area Type [1]	Previous Reporting Period (Actual)	This Reporting Period (Actual)	Next Reporting Period (Forecast)
	2014/15 (ha)	2015/16 (ha)	2016/17 (ha)
A. Total Mine Footprint	360	360	360
B. Total Active Disturbance	NA	231.4	217.6
C. Land Being Prepared for Rehabilitation	NA	12.4	26.2
D. Land Under Active Rehabilitation	NA	116	116
E. Completed Rehabilitation	0	0	0

[1] Refer Annual Review Guideline (p.11) for description of mine area types.

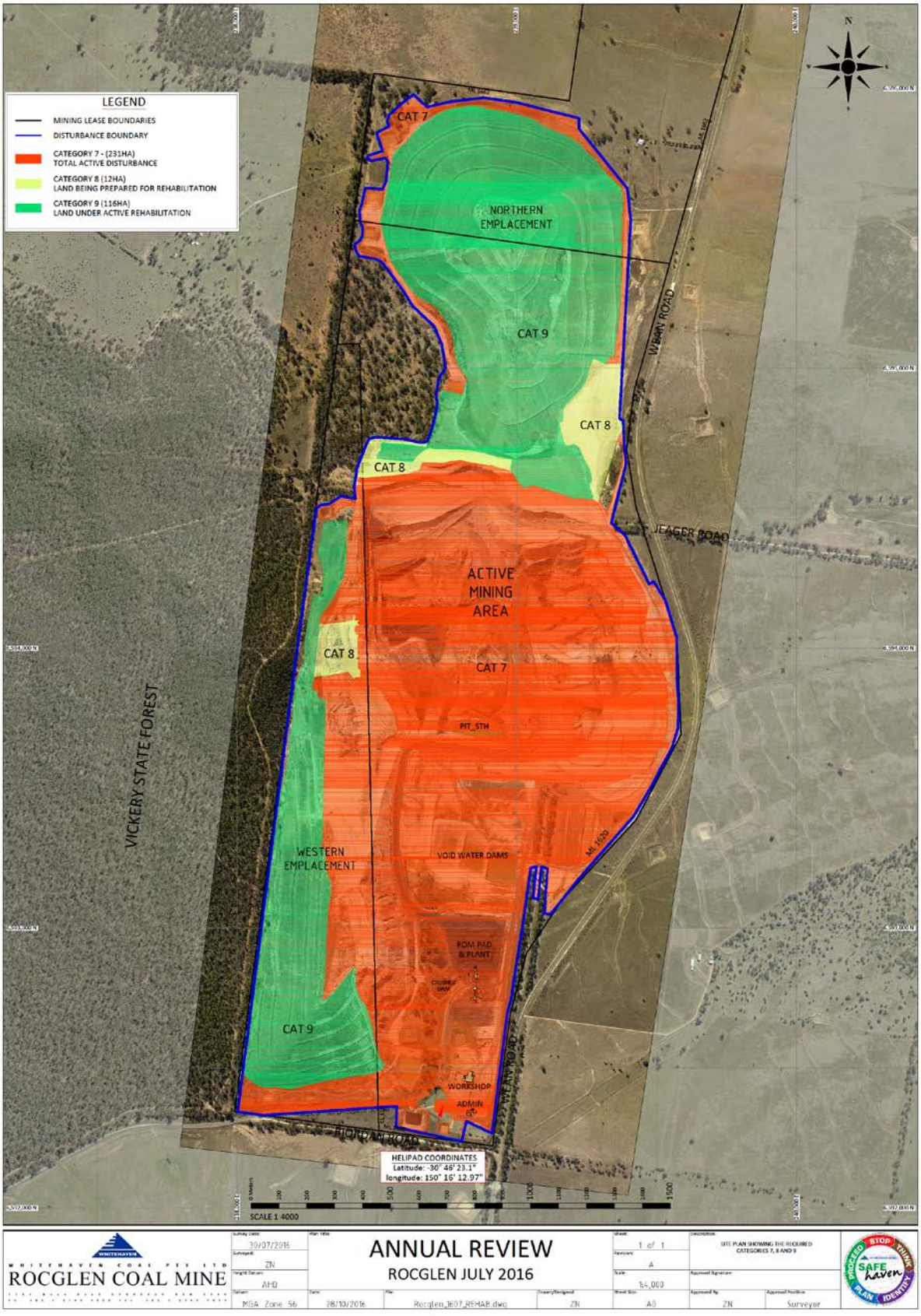


Figure 3 Rehabilitation and Mining Status

8.1.2 Post Rehabilitation Land Uses

The disturbed area within the Project Site will be restored to either rehabilitated bushland or rehabilitated pasture, with approximately 5 hectares (1 percent) remaining as a stabilised highwall of the final void.

8.1.3 Rehabilitation Monitoring

As stated in Section 6.2, monitoring required under the Rehabilitation Management Plan is undertaken biennially, and is due to occur again in the next reporting period. This monitoring is planned to be undertaken in late spring, and will cover flora, fauna, and soil monitoring commitments.

8.1.4 Renovation or Removal of Buildings

No renovation or removal of buildings occurred during the reporting period.

8.1.5 Other Rehabilitation Undertaken

No additional rehabilitation of explorations areas, infrastructure, shafts, adits, dams, fence lines or bunds occurred during the reporting period.

8.1.6 Departmental Sign-off of Rehabilitated Areas

Departmental sign-off has not been requested for any rehabilitated areas.

8.1.7 Variations in Activities against MOP (RMP)

Operations and activities during the reporting period were undertaken in accordance with the 2015 MOP, with no rehabilitation activities proposed for the Year 1 MOP period, covering November 2015-October 2016. A Closure MOP will be developed for the RCM within the next reporting period.

8.1.8 Trials, Research Projects and Initiatives

No rehabilitation trials, research projects or other initiatives were undertaken during the reporting period.

8.1.9 Key Issues to Achieving Successful Rehabilitation

There are four key issues in achieving successful rehabilitation, including:

- Poor vegetation establishment and growth due to poor soils/lack or nutrient;

- Weed and feral animal infestation;
- Excessive erosion and sedimentation resulting in land stability and vegetation growth issues; and
- Harsh weather conditions limiting growth, i.e. extended periods of drought.

In cases where performance is sub-optimal, additional management measures will be implemented (e.g. replanting, repairing landform and water management features, application of mulch/fertilisers, feral animal and weed control etc.) Advice may also be sought form the Whitehaven Biodiversity Specialist to determine best course of action.

8.2 Actions for Next Reporting Period

Rehabilitation is undertaken on site in accordance with the MOP. RCM have committed to rehabilitating 21.2ha during the next MOP year (November 2016-October 2017). This will consist of a section of the northern active pit, and the western section of the northern overburden emplacement area. Additional planting will also be undertaken on the northern emplacement area following poor vegetation establishment previously.

Rehabilitation monitoring will be undertaken in spring and reported in the next AR.

9 COMMUNITY

9.1 Community Consultation

In accordance with Condition 5 of Schedule 5 of PA 10_0015 a Community Consultative Committee (CCC) continues to be operated for RCM. The committee comprises representatives of Gunnedah Shire Council, RCM and the community.

Since its inception, the CCC has met on a regular basis, moving from quarterly to six-monthly meetings in March 2015. During the reporting period meetings were held on 9th September 2015 and 15th June 2016. The June meeting was originally scheduled during March, in line with the six-monthly program, but had to be delayed due to availability of committee members.

9.2 Community Complaints

RCM has a designated complaints line advertised on the Whitehaven Coal website and, in the event of a complaint, details pertaining to the complainant, complaint, and action taken are recorded. A complaints register is maintained on Whitehaven's website.

There were 3 complaints received during the reporting period, all pertaining to blasting activities. One of these complaints included a request for a structural inspection, which was undertaken and the subsequent report provided to the complainant. Each complaint was investigated and documented, with feedback provided to the Complainant.

10 INDEPENDENT AUDIT

RCM had one independent environmental audit (IEA) during the reporting period, undertaken by Environmental Resource Management Australia Pty Ltd (ERM). The IEA was undertaken in May 2016, and covered the period beginning April 2013 until 6 May 2016 (the date of the site inspection). Numerous IEA actions relating to water management and Environmental Management Plan content were addressed during the reporting period. IEA actions scheduled for the 2016/17 reporting period are noted below in Table 10.

Table 12 2016 Independent Environmental Audit (IEA) – 2016/17 Actions

Condition/Plan	IEA Proposed Action	IEA Action Plan Timing
PA 10_0015	Consider formally completing the surrender of PA 06_0198.	31/10/2016
	The AEMR should also report the maximum daily results from the TEOM for comparison to the 24hour criteria rather than using monthly averages which is not a recognised averaging timeframe in the Approved Methods for the Sampling and Analysis of Air Pollutants in New South Wales (DEC 2007)).	28/02/2017
	Consider including following in the Road Traffic Noise Management Plan: • protocol for maximising the backfilling of haul trucks with coarse and/or fine rejects from the Whitehaven CHPP • arrangements to comply with cumulative coal haulage limits • description of a monitoring program to audit vehicle movements, including the origin and destination of employees, against predictions in the EA	31/10/2016
	Consider reporting all exceedances of criteria to the affected landholder to fulfil the requirement of this MCoA.	Ongoing
Minister's Conditions of Approval 06_0198	Consider the surrender of this approval or advertise the complaints/information line annually in the local newspaper.	31/10/2016
	Consider the surrender of this approval or include number of total truck movements into Figure 2 of the Annual Reviews.	31/10/2016
Statement of Commitments	Consider sending link to plans on website to relevant agencies and requesting comment.	Ongoing.
	Consider diverting water to the newly constructed eastern channel in the northern emplacement area to prevent further scouring alongside this channel. In addition, consider installing a batter shoot where water is ponding in the recently repaired tunnel erosion area or complete works to divert water to the rock lined drain on the western face of the northern emplacement area.	31/12/2016
	Consider the requirement to test equipment prior to being brought on site. Consider developing a list of equipment and their sound power levels (design and measured) with comparison to previous	31/12/2016

	assessments as a record of conformance.	
	Consider fitting all mobile mining equipment with mid-high frequency reverse beepers.	30/11/2016
	Consider using the blast notice boards prior to blasting.	31/08/2016
	Consider removing erosion and sediment control structures that are damaged/no longer required. Consider installing additional controls where erosion is evident to prevent the need for extensive rework/repairs.	31/12/16
	Continue to investigate alternative rehabilitation methods to increase success.	Ongoing
	Consider downloading data every two months as stated in the commitment.	9/09/2016
	Consider installing bund along Wean Rd to provide a visual screen. Focus to be on additional tree planting to establish long term visual screen.	31/03/2017
ML1662	Consider the review of compliance tracking and reporting procedures to ensure DRE is informed of any environmental incidents.	31/12/2016
EPL12870	Consider including in a separate file of all discharges from the licensed discharge points and report both active and passive discharges (both points are included in EPL as discharge points)	31/12/2016
	The EPL lists N3 as a monitoring location and therefore monitoring should be completed at this location. Alternatively consider submitting an amendment to the EPL to reflect actual monitoring locations if N3 is not considered necessary to confirm compliance with noise limits.	Ongoing
	Consider reviewing compliance tracking procedures/methods to improve reporting times.	31/12/2016

11 INCIDENTS AND NON-COMPLIANCES DURING THE REPORTING PERIOD

11.1 Reportable Incidents

RCM reported the following incidents during the reporting period:

- Notification provided following overpressure exceedances detailed in Section 6.3. These exceedances were not deemed to be non-compliant, given that they were recorded on land under agreement with RCM.
- Notification provided following an exceedance of the 24 hour average PM_{10} particulate level of 50µg/m^3 on the 29th April 2016 on the mine owned property "Costa Vale". The report stated that it is likely that the elevated PM_{10} reading was not related to mining activity, see section 6.1.3.
- Notification of an exceedance of the 24 hour average PM_{10} particulate level of 50µg/m^3 from the TEOM monitor at the "Roseberry" property. The report stated that the results were not considered to be mine related, and further the TEOM is not used for compliance purposes (see section 6.1.3).

11.2 Non-compliances

All of the non-compliances with relevant approvals have been ranked as either administrative or low, with very limited potential for significant environmental harm, and are addressed below.

- Schedule 2 Condition 8 of PA 10_0015 refers to the surrender of project approval 06_0198. WHC has made application to surrender this approval, but has not finalised the process, and therefore is still subject to the approval conditions. RCM is non-compliant with two conditions of PA 06_0198, being the advertising of the complaints number annually in the local newspaper, and the inclusion of truck movements records in the Annual Review. The surrender of PA 06_0198 is intended to be completed in the next reporting period.
- Schedule 3(3) of PA 10_0015 requires that all reasonable and feasible best practice noise mitigation measures are implemented on site, and Schedule 3(4) requires that a Noise Management Plan be implemented on site. Both of these conditions require

that sound power level testing is carried out on site annually, which did not occur during this reporting period. This testing is scheduled to be undertaken during the next reporting period, and before the end of the 2016 calendar year, as per the IEA actions listed in Table 9.

- Schedule 3 Condition 10 of PA 10_0015 requires that the site operate a suitable system to enable the public to get up to date information on the proposed blasting schedule on site, however the IEA identified that the blasting notice boards on the public road were not being utilised by operations. RCM has accepted an IEA recommended action to address this issue in the next reporting period.
- Schedule 3 Condition 18 of PA 10_0015 and conditions M4.1 and M4.2 of EPL 12870 all refer to the requirement of continuous real time meteorological monitoring. Periodic connection failure and equipment malfunction resulted in minor data gaps during the reporting period. Regular maintenance is performed on the meteorological station, with several repairs undertaken during the reporting period, including rebuilding the antenna cables and replacing the battery, however the meteorological station continues to suffer connectivity problems. An EPL Variation Application has been submitted to relocate the meteorological station to the mine site in an attempt to address these connectivity issues.
- Schedule 3 Condition 31 of PA 10_0015 requires that RCM establishes and maintains an effective vegetative screen along the boundaries of the site that adjoin public roads. This condition was found to be non-compliant in the IEA, and RCM have agreed to undertake additional planting along the eastern boundary within the next reporting period.
- Schedule 5 Condition 4 requires that all strategies, plans and programs are reviewed following the submission of an annual review, an incident report, an audit report, or any modifications to the conditions of the approval. Not all management plans for RCM were reviewed during the reporting period, but are scheduled to be undertaken throughout the next reporting period, following the submission of the IEA and this Annual Review.
- Conditions M2.1 and M2.2 require the continuous monitoring of PM_{10} at the Roseberry property, however instances of non-monitoring occurred during the reporting period, following power outages beyond RCM control.
- Non compliances with WAL 29461 and WAL 36758 will be addressed during the next reporting period with the implementation of logbooks on site.

11.3 Regulatory Actions

Following a site inspection, RCM received an s.240 Notice on 4th April2016 from the DRE directing RCM to undertake specified measures in relation to failed contour drainage, and associated rill erosion, on the western emplacement area. The required works were undertaken as per the notice, and a report containing photographic evidence of completion was proved by the due date. No further actions have been requested of RCM.

Further to the above, RCM also received a Show Cause notice from DP&E during the reporting period, in relation to the overpressure exceedances detailed in Section 6.3. A response was provided by RCM to the DP&E within the required time frame, and following an evaluation against the Department's Compliance Policy, an Official Caution was issued, together with a request for undertaking to mitigate the breaches. It should be noted that the Official Cation was received on 21st September 2016, which does not fall within the reporting period.

12 ACTIVITIES TO BE COMPLETED IN THE NEXT REPORTING PERIOD

The following measures will be continued, or implemented, in the next reporting period:

- Undertake rehabilitation and mining activities in accordance the MOP;
- The continuation of environmental monitoring and management;
- Compliance with all relevant conditions of the lease, licences and consents;
- Completion of outstanding IEA actions;
- Review and revision of various Environmental Management Plans; and
- Continued community liaison and engagement with local stakeholders.

Appendix 1

Biobank Annual Report

Whitehaven Coal Mining Pty Ltd

ABN: 65 086 426 253

Biobank Site Annual Report 2015-2016

View from top of Kelvin Range to the south, Yarrari property

Annual reporting template

Biobank Site Annual Report						
Location details						
Biobanking agreement ID: *43* Reporting date: *29th July 2016*				Name of landowner/s: *Whitehaven Coal Mining Pty Limited* Property address: *"Yarrari" & "Belah", Wean Road, Kelvin 2380*		
Records of management actions undertaken						
Management Action	**Item Reference Number**	**Required completion time and frequency**	**Action completed (Yes/No)**	**Actual completion date/s**	**Description of actions undertaken** (including where undertaken (including reference to management zones), any variations and the reasons for variation).	**Visual observations and other comments** (including reasons for non completion)
1. Management of grazing for conservation	*1.1*	*Ongoing from commencement date*	*Yes Ongoing*	*Ongoing*	*Grazing excluded from all areas of biobank during Year 4, except for introduction of stock to reduce bulk of Lovegrass prior to Spring.*	*Grazing excluded across the biobank with good groundcover % retained across the site as a consequence.*
	1.2	*Ongoing from first payment date (i.e. Year 1) until end of Year 4*	*Yes Ongoing*	*Ongoing*	*Stock grazing was used within fenced paddocks of MZ1.*	*As per 1.1*
	1.3	*Ongoing from first payment date*	*NA in this period*	*Ongoing*	*As per 1.1*	*As per 1.1*

	1.4	*Ongoing from commencement date*	*Yes Ongoing*	*Ongoing*	*As per 1.1*	*As per 1.1*
2. Weed control	*2.1*	*Ongoing from first payment date*	*Yes*	*Various*	*Weed spraying (including African Boxthorn, Noogoora Burr, Horehound and Bathurst Burr) as required, weather/season dependent.*	*Biobank site generally retains minor areas of weeds, with active management ongoing.*
	2.2	*Ongoing from first payment date*	*NA in this period*	*Ongoing*	*NA in this reporting period.*	*NA in this reporting period.*
3. Management of fire for conservation	*3.1*	*Ongoing from commencement date*	*Not yet required*	*Not yet required*	*Ecological burns not required during early years of active management.*	*Ecological burns not required under management plan at this stage.*
	3.2	*Ongoing from first payment date*	*Yes*	*Ongoing*	*NA in this reporting period.*	*NA in this reporting period.*
	3.3	*Ongoing from commencement date*	*Yes*	*Ongoing*	*NA in this reporting period.*	*NA in this reporting period.*
4. Management of human disturbance	*4.1*	*Ongoing from commencement date*	*Yes Ongoing*	*Ongoing*	*The biobank site has generally been off-limits to the public, with only the property manager permitted on site.*	*No additional human disturbance has been undertaken on the site other than through general site management activities such as fence line repairs, track maintenance, and feral animal control.*

	4.2	*Ongoing from commencement date*	*Ongoing*	*Ongoing*	*As per 4.1*	*As per 4.1*
	4.4	*Ongoing from commencement date*	*Ongoing*	*Ongoing*	*As per 4.1*	*As per 4.1*
	4.5	*Ongoing from commencement date*	*Ongoing*	*Ongoing*	*As per 4.1*	*As per 4.1*
	4.6	*Ongoing from commencement date*	*Yes Ongoing*	*Ongoing*	*As per 4.1*	*As per 4.1*
5. Retention of native vegetation	*5.1*	*Ongoing from commencement date*	*Yes Ongoing*	*Ongoing*	*No vegetation removal during Year 4.*	*No activities have been undertaken on site that have resulted in vegetation removal.*
	5.2	*Ongoing from commencement date*	*Ongoing*	*Ongoing*	*There have been no requirements to burn native vegetation under the fire management plan.*	*NA in this reporting period.*
6. Planting or seeding	*6.1*	*Commence from first payment date*	*No – from Year 4 onwards*	*Commenced Planting in 2014-2015*	*No planting or seeding during Year 4.*	*Planting commenced in 2014-2015 of 9 plots with approximately 1180 trees planted.*

	6.3	*Conduct the first survey 24 months after the completion of planting or seeding in each area of planting or seeding and then every 12 months thereafter.*	*As per 6.1*	*As per 6.1*	*As per 6.1*	*As per 6.1*
	6.4	*As required; from the date that planting or seeding areas are established*	*As per 6.1*	*As per 6.1*	*As per 6.1*	*As per 6.1*
	6.5	*As required (from commence ment date if relevant to prepare for future planting)*	*Ongoing*	*Ongoing*	*During 2015-2016, seed collection was undertaken on Yarrari & Belah.*	*In April 2016, seed was collected from White Box, Narrow-leaf Ironbark, Wilga, Rosewood, Belah and Senna.*

	6.6	*From the start of Year 4 until the end of Year 6. Enhancement planting start of Year 7 until end of Year 10*	*As per 6.1*	*As per 6.1*	*As per 6.1*	*As per 6.1*
7. Retention of dead timber	*7.1*	*Ongoing from commencement date*	*Yes Ongoing*	*Ongoing*	*No dead timber removed during Year 4.*	*Dead timber is retained on site in accordance with the management plan.*
	7.2	*When required*	*Not yet required*	*Not yet required*	*NA in this reporting period.*	*NA in this reporting period.*
8. Erosion control	*8.1*	*Commence from first payment date*	*No – not yet required*	*Ongoing*	*No active erosion identified during Year 4.*	*There have been no areas of active erosion identified as a cause of concern during this reporting period.*
9. Retention of rocks	*9.1*	*Ongoing from commencement date*	*Yes Ongoing*	*Ongoing*	*No rocks have been removed during Year 4.*	*Rocks retained on site in accordance with the management plan.*
	9.2	*When required*	*Not yet required*	*Not yet required*	*NA in this reporting period.*	*NA in this reporting period.*
10. Control of feral and over abundant native herbivores	*10.1*	*Ongoing from first payment date*	*Yes*	*Ongoing*	*The resident property manager has undertaken feral animal control throughout the reporting period, removing 1,220 goats and approximately 70 rabbits from the property since 2008.*	*Feral animal control has been ongoing by the resident property manager.*

	10.2	*Ongoing from first payment date*	*NA in this reporting period.*	*Ongoing*	*NA in this reporting period.*	*NA in this reporting period.*
11. Vertebrate pest management	*11.1*	*Ongoing from first payment date*	*Yes*	*Ongoing*	*The resident property manager has undertaken vertebrate pest management, removing 376 pigs and 40 foxes from the property since 2008 by opportunistic shooting and/or trapping. Baiting for foxes occurred during the reporting period.*	*Vertebrate pest control has been ongoing by the resident property manager.*
	11.2	*Ongoing from first payment date*	*NA in this reporting period.*	*Ongoing*	*NA in this reporting period.*	*NA in this reporting period.*
12. Nutrient control	*12.1*	*Ongoing from commence ment*	*Yes Ongoing*	*Ongoing*	*No fertilisers were applied during Year 4.*	*Pesticides and herbicides may be applied to the Biobank in accordance with the management plan requirements.*
13. Control of exotic fish species	*13.1*	*Not Applicable*	*Not Applicable*	*Not Applicable*	*Not Applicable.*	*Not Applicable*
14. Maintenance or reintroduction of natural flow regimes	*14.1*	*Commence from first payment date*	*Yes Ongoing*	*Ongoing*	*Natural flow regimes maintained during Year 4.*	*All nominated dams on the bio bank site were filled and seeded in September 2014.*

	14.2	*When required from date an artificial structure is removed*	*Yes Ongoing*	*Ongoing*	*A Japanese Millet cover crop was used following original earthworks in September 2014.*	*Further revegetation of former dam sites is planned to be combined/ incorporated with the revegetation program for MZ1 and will involve a combination of native trees, shrubs and grasses commensurate with a White Box woodland.*
	14.3	*Ongoing from commence ment*	*Yes Ongoing*	*Ongoing*	*NA in this reporting period.*	*NA in this reporting period.*

Biobanking agreement

Biodiversity Banking and Offsets Scheme

ID Number 43

Incident or event that has adverse effect on biodiversity values on biobank site	
Incident or event including adverse impacts (eg. natural events)	**Action taken and proposed recommended actions**
None.	*Not required.*
Records submitted with this report	
√ Photographs taken at the photo points set in the biobanking agreement	
√ Results of the inspections required to be conducted in item 1.3 of Annexure D to the biobanking agreement	
√ Results of any monitoring, inspections or surveys required in Annexures C and D to the biobanking agreement	
Signature and certification	
I hereby declare that the information supplied in this report is accurate and complies with the reporting requirements under item 2 of the Annexure D to the biobanking agreement. Note: If the land that forms the biobank site is owned by multiple persons, each landowner must sign this annual report.	
Signed	Signed
Date 28/07/2016	Date

Biodiversity Banking and Offsets Scheme

Biobanking agreement ID Number 43

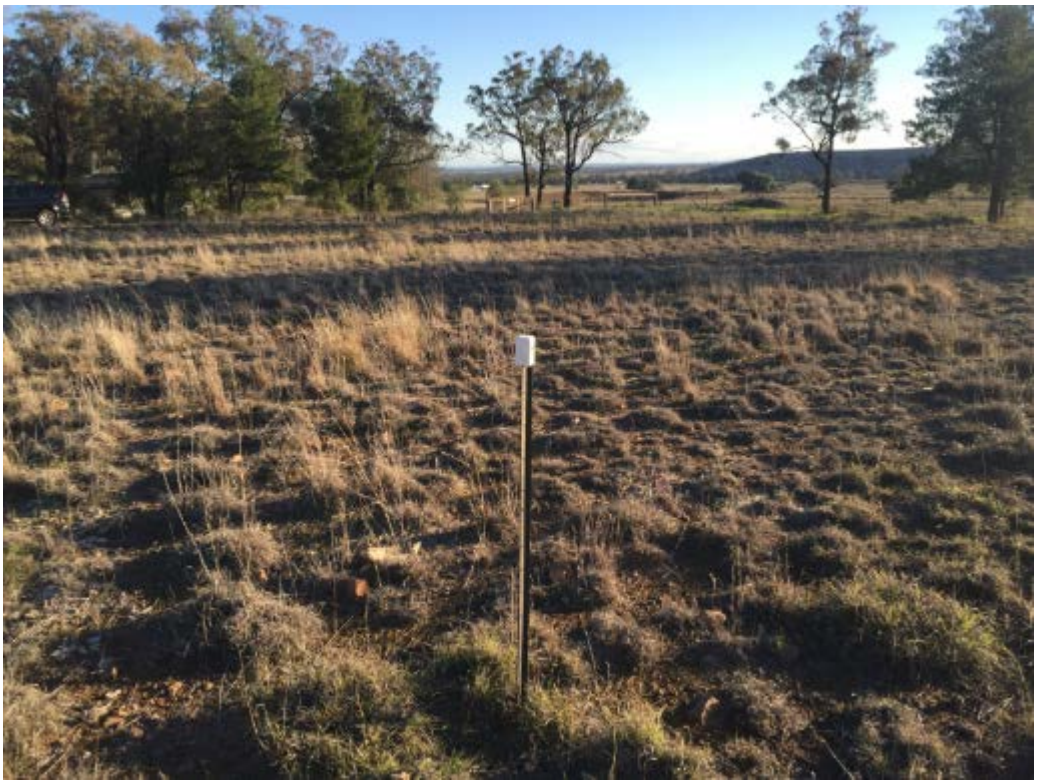
Photo Points

Photo Point 1	E 240629	N 6593772	23/07/16	4:24pm

From South West Corner

From North West Corner

From North East Corner



From South East Corner

Biodiversity Banking and Offsets Scheme

Biobanking agreement ID Number 43

Photo Point 2	E240925	N6593562	24/07/16	4:40pm

From South West Corner

From North West Corner

From North East Corner

From South East Corner

Photo Point 4	E240439	N6592054	23/07/16	4:39pm

From South West Corner

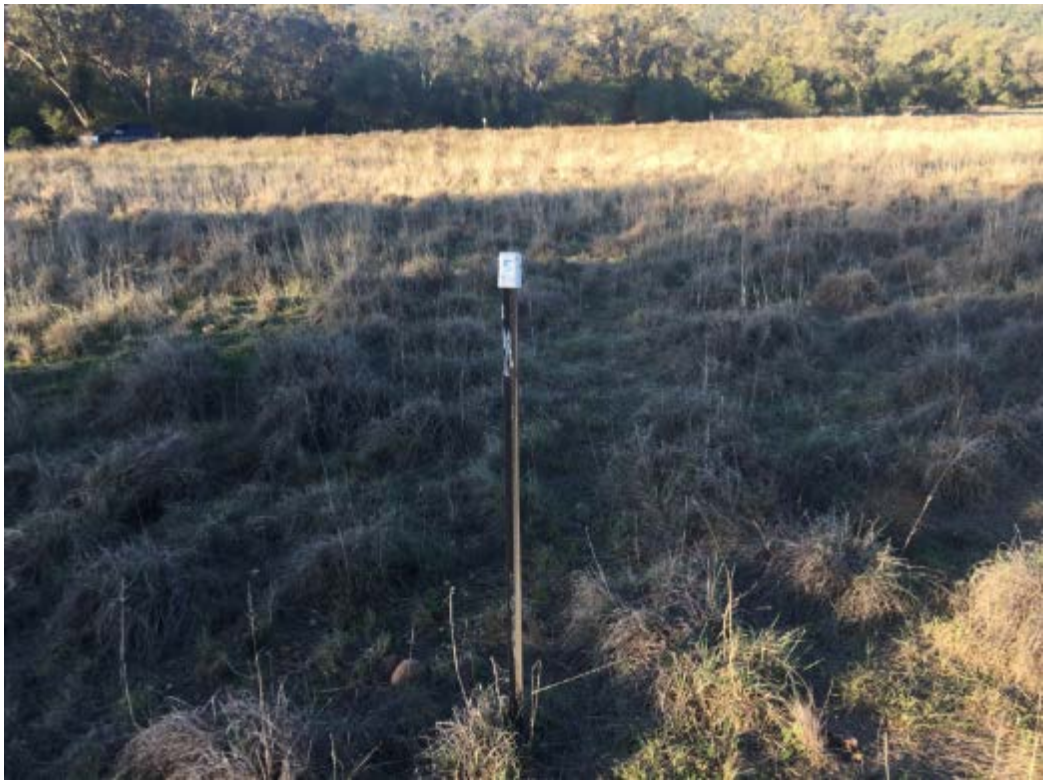
From North West Corner

From North East Corner

From South East Corner

Photo Point 5	E240595	N6593324	23/07/16	4:29pm

From South West Corner



From North West Corner

From North East Corner

From South East Corner

Photo Point 8	E241170	N6594590	24/07/16	4:20pm

From South West Corner

From North West Corner

From North East Corner

From South East Corner

Photo Point 9	E241424	N6594095	24/07/16	2:26pm

From South West Corner

From North West Corner

From North East Corner

From South East Corner

Photo Point 10	E241780	N6591054	25/07/16	7:16am

From South West Corner

From North West Corner

From North East Corner

From South East Corner

Biodiversity Banking and Offsets Scheme

Biobanking agreement ID Number 43

Photo Point 11	E241101	N6591953	23/07/16	4:51pm

From South West Corner

From North West Corner

From North East Corner

From South East Corner

Photo Point 12	E241321	N6593399	23/07/16	5:33pm

From South West Corner

From North West Corner

From North East Corner

From South East Corner

Biodiversity Banking and Offsets Scheme

Biobanking agreement ID Number 43

Photo Point 14	E241172	N6593839	24/07/16	4:29pm

From South West Corner

From North West Corner

From North East Corner

From South East Corner

Biodiversity Banking and Offsets Scheme

Biobanking agreement ID Number 43

Photo Point 15	E243373	N6594221	25/07/16	4:00pm

From South West Corner

From North West Corner

From North East Corner

From South East Corner

Photo Point 17	E243026	N6593081	25/07/16	3:36pm

From South West Corner

From North West Corner

From North East Corner

From South East Corner

Photo Point 20	E241993	N6595399	24/07/16	2:43am

From South West Corner

From North West Corner

From North East Corner

From South East Corner

Photo Point 21	E241317	N6594719	24/07/16	4:11pm

From South West Corner

From North West Corner

From North East Corner

From South East Corner

Photo Point 22	E241476	N6595059	25/06/15	8:45am

From South West Corner

From North West Corner

From North East Corner

From South East Corner

Photo Point 23	E241304	N6595199	24/07/16	3:57pm

From South West Corner

From North West Corner

From North East Corner

From South East Corner

Photo Point 24	E241672	N6597031	24/07/16	3:28pm

From South West Corner

From North West Corner

From North East Corner

From South East Corner

Photo Point 26	E241410	N6596513	26/07/16	11:48am

From South West Corner

From North West Corner

From North East Corner

From South East Corner

Photo Point 27	E241465	N6591717	25/07/16	7:38am

From South West Corner

From North West Corner

From North East Corner

From South East Corner

Biodiversity Banking and Offsets Scheme

Biobanking agreement ID Number 43

Photo Point 30	E241383	N6592453	25/07/16	7:48am

From South West Corner

From North West Corner

From North East Corner

From South East Corner

Photo Point 35	E241839	N6595941	24/07/16	2:54pm

From South West Corner

From North West Corner

From North East Corner

From South East Corner

Photo Point 38	E242139	N6596965	24/07/16	3:16pm

From South West Corner

From North West Corner

From North East Corner

From South East Corner

Biodiversity Banking and Offsets Scheme

Biobanking agreement ID Number 43

Photo Point 40	E241161	N6595487	24/07/16	3:50pm

From South West Corner

From North West Corner

From North East Corner

From South East Corner

Biodiversity Banking and Offsets Scheme

Biobanking agreement ID Number 43

Photo Point 42	E240603	N6597014	24/07/16	3:31pm

Dam site that has been in-filled

From South West Corner

From North West Corner

From North East Corner

From South East Corner

Biodiversity Banking and Offsets Scheme

Biobanking agreement ID Number 43

Photo Point 43	E240603	N6591987	23/07/16	4:44pm

From South West Corner

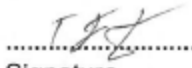
From North West Corner

From North East Corner

From South East Corner

BIOBANKING VERTEBRATE PEST MANAGEMENT ACTIVITIES FORM

MANAGEMENT ACTIVITIES FORM			
Date	**Management Zone/s**	**Description and type of activity undertaken** (This column must include details of the feral and overabundant herbivores targeted, control techniques applied and no. controlled.)	**Observations & assessment of monitoring**
2008-2015	1, 2 and 3	310 pigs removed from biobank through opportunistic trapping and shooting and 36 foxes removed by opportunistic shooting.	Pig numbers were very high when WHC acquired the property. General management by the property manager over this time has significantly reduced pig numbers.
July 2015	2 & 3	7 pigs removed by trapping and shooting	Pig numbers in decline, but there is still evidence of active pigs on site.
August 2015	2 & 3	15 pigs removed by trapping and shooting	Pig numbers in decline, but there is still evidence of active pigs on site.
September 2015	2 & 3	4 pigs removed by trapping and shooting	Pig numbers in decline, but there is still evidence of active pigs on site.
September to October 2015	1/2/3	44 fox baits laid. 12 baits were taken.	Fox numbers relatively low due to stock control on site and ongoing baiting.
October 2015	3	1 pig removed by trapping and shooting	Pig numbers in decline, but there is still evidence of active pigs on site.
October 2015	1 & 2	2 foxes removed by opportunistic shooting	Fox numbers relatively low due to stock control on site and ongoing baiting.
December 2015	2 & 3	7 pigs removed by trapping and shooting	Pig numbers in decline, but there is still evidence of active pigs on site.
April 2016	2 & 3	7 pigs removed by trapping and shooting	Pig numbers in decline, but there is still evidence of active pigs on site.
May 2016	2 & 3	19 pigs removed by trapping and shooting	Pig numbers in decline, but there is still evidence of active pigs on site.
May 2016	1	2 foxes removed by opportunistic shooting	Fox numbers relatively low due to stock control on site and ongoing baiting.
June 2016	2 & 3	6 pigs removed by trapping and shooting	Pig numbers in decline, but there is still evidence of active pigs on site.



Signature

29-7-2016

Date

BIOBANKING VERTEBRATE PEST MONITORING ACTIVITIES FORM

MONITORING ACTIVITIES FORM			
Date	**Management Zone/s**	**Current level of impact on vegetation or native fauna** (This column must record impact As Negligible, Minimal, Moderate or High)	**Minor Variations** (details/reasons)
18/1/16	1,2 & 3	Minimal - Pig numbers had generally been high within the biobank site, particularly as they have direct access to site from the adjoining Kelvin range, with thick scrub providing suitable habitat. Evidence of pig activity has been visible throughout the biobank for several years, however, the extent of ground disturbance by pigs is gradually decreasing as a consequence of the management measures in place and the removal of 376 pigs since 2008. Fox numbers have been relatively low as a consequence of no domestic stock held on the biobank site and continued 1080 baiting. There is no direct evidence of excessive fox numbers impacting on native fauna.	Opportunistic shooting and trapping of pigs and foxes will continue to be undertaken across the biobank site to reduce potential impacts on native flora and fauna.

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Signature

29-7-2016
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Date

BIOBANKING FERAL ANIMAL AND OVERABUNDANT HERBIVORE MANAGEMENT ACTIVITIES FORM

MANAGEMENT ACTIVITIES FORM			
Date	**Management Zone/s**	**Description and type of activity undertaken** (This column must include details of the feral and overabundant herbivores targeted, control techniques applied and numbers controlled.)	**Observations & assessment of monitoring**
2008-2015	1,2 & 3	1,173 feral goats and 70 rabbits have been removed from site through both trapping and opportunistic shooting.	At commencement of ownership feral goat numbers were excessive, however ongoing management by the property manager has reduced this number substantially to now only occasional sightings. The removal of large numbers of goats will provide better opportunities for native vegetation restoration.
July 2015	2 & 3	6 feral goats removed by trapping and opportunistic shooting.	Goat numbers have substantially reduced across the site and now only being infrequently sighted.
October 2015	1 & 2	41 feral goats removed by trapping and opportunistic shooting.	Goat numbers have substantially reduced across the site and now only being infrequently sighted.

T Z T ..... Signature

29-7-2016 ..... Date

BIOBANKING FERAL ANIMAL AND OVERABUNDANT HERBIVORE MONITORING ACTIVITIES FORM

MONITORING ACTIVITIES FORM			
Date	**Management Zone/s**	**Current level of impact on vegetation or native fauna** (This column must record impact As Negligible, Minimal, Moderate or High)	**Minor Variations** (details/reasons)
18/01/16	1	Negligible - No observable detrimental impact from overabundant herbivores on native vegetation or fauna. Gradual removal of goats has decreased pressure on native vegetation regeneration.	Removal of goats on an opportunistic basis will continue to enhance native vegetation regeneration opportunities. No evidence of excessive grazing by kangaroos.
18/01/16	2	Negligible - No observable detrimental impact from overabundant herbivores on native vegetation or fauna. Gradual removal of goats has decreased pressure on native vegetation regeneration.	Removal of goats on an opportunistic basis will continue to enhance native vegetation regeneration opportunities. No evidence of excessive grazing by kangaroos.
18/01/16	3	Negligible - No observable detrimental impact from overabundant herbivores on native vegetation or fauna. Gradual removal of goats has decreased pressure on native vegetation regeneration.	Removal of goats on an opportunistic basis will continue, however this can be difficult in this zone due to heavy vegetation cover and steep terrain.

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Signature

29-7-2016
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Date

REPORTING FORM – FIRE FOR CONSERVATION MANAGEMENT

Who: Trevor Jones, Property Manager **Date:** 15th July 2015

MANAGEMENT ZONES	DATE	OBSERVATIONS AND ASSESSMENT OF MONITORING
All	21st July 2016	During the Reporting Period burning for conservation purposes was not carried out within the Biobank site. It is not intended that burning for conservation purposes will be utilised for a substantial period (approximately 6 years). Monitoring for bushfire control will continue, and appropriate firebreaks maintained as much as possible in advance of the summer bushfire period.

TJ

Signature

29-7-2016

Date

BIOBANK SITE VISUAL INSPECTION PROFORMA – ANNUAL GROUNDCOVER %, AND CONDITION OF FENCING INSPECTION

Who: Trevor Jones, Property Manager **Date:** 23rd/24th June 2016

INSPECTION ITEM	PHOTO NO.	CO-ORDINATES	COMMENT	ACTION COMPLETED
Percentage of Groundcover across Biobank Site	See all Photo Monitoring Point Photo's.	As per Photo Monitoring Points	Groundcover across the Biobank site would be at approximately 90%, with excellent grasscover across the site, comparative to the initial photo points in the Biobank Management Plan.	No action required.
Physical condition of fencing to determine if they can control the movement of stock, control human disturbance, control movement of overabundant native herbivores and control vertebrate pests	N/A	N/A	General maintenance is ongoing to maintain control of stock movements. As there is no fencing between the Biobank and adjoining Kelvin Aboriginal Area, it can be difficult to control movement of goats and pigs, however ongoing pest control will improve this aspect over time.	No action required.

T J ..... Signature

29-7-2016 ..... Date

BIOBANK SITE VISUAL INSPECTION PROFORMA – 6 MONTHLY HUMAN DISTURBANCE, EROSION AND WASTE INSPECTION

Who: Trevor Jones, Property Manager **Date:** 16th July 2015

INSPECTION ITEM	PHOTO NO.	CO-ORDINATES	COMMENT	ACTION COMPLETED
Evidence of Disturbance	N/A	N/A	Biobank Site is in good condition with no evidence of active human disturbance present across the site.	No action required.
Evidence of Erosion	N/A	N/A	No evidence of active erosion occurring within the Biobank site requiring remediation activities.	No action required.
Evidence of Waste	N/A	N/A	No evidence of waste disposal occurring within the Biobank site.	No action required.

Who: Trevor Jones, Property Manager **Date:** 18th January 2016

INSPECTION ITEM	PHOTO NO.	CO-ORDINATES	COMMENT	ACTION COMPLETED
Evidence of Disturbance	N/A	N/A	Biobank Site is in good condition with no evidence of active human disturbance present across the site.	No action required.
Evidence of Erosion	N/A	N/A	No evidence of active erosion occurring within the Biobank site requiring remediation activities.	No action required.
Evidence of Waste	N/A	N/A	No evidence of waste disposal occurring within the Biobank site.	No action required.

TJF
Signature

29-7-2016
Date

INSPECTION OUTCOMES (SECTION 1.3 OF ANNEXURE D)

BIOBANK SITE VISUAL INSPECTION PROFORMA – QUARTERLY STOCK ACCESS INSPECTION

Who: Trevor Jones, Property Manager **Date:** 17th July 2015

INSPECTION ITEM	PHOTO NO.	CO-ORDINATES	COMMENT	ACTION COMPLETED
Evidence of Stock accessing the Biobank	N/A	N/A	No evidence of stock within Biobank site during this inspection.	No action required.

Who: Trevor Jones, Property Manager **Date:** 30th October 2015

INSPECTION ITEM	PHOTO NO.	CO-ORDINATES	COMMENT	ACTION COMPLETED
Evidence of Stock accessing the Biobank	N/A	N/A	60 cows put on Lovegrass to reduce growth for Spring between 5th September 2015 and 10th December 2015.	No action required.

Who: Trevor Jones, Property Manager **Date:** 18th January 2016

INSPECTION ITEM	PHOTO NO.	CO-ORDINATES	COMMENT	ACTION COMPLETED
Evidence of Stock accessing the Biobank	N/A	N/A	No evidence of stock within Biobank site during this inspection.	No action required.

Who: Trevor Jones, Property Manager **Date:** 4th April 2016

INSPECTION ITEM	PHOTO NO.	CO-ORDINATES	COMMENT	ACTION COMPLETED
Evidence of Stock accessing the Biobank	N/A	N/A	12 sheep entered from northern boundary and were removed.	Fence repaired where sheep entered.

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Signature

29-7-2016
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Date

Appendix 2

Surface Water Data

Sample No.	Date	Time	Sample Location	PH (Field)	pH	Electrical Conductivity (µS/cm) (Field)	Electrical Conductivity (µS/cm)	Total Suspended Solids (mg/L)	Total Organic Carbon (TOC) (mg/L)	Grease & Oil (mg/L)	Hydroxide Alkalinity as CaCO3 (mg/L)	Carbonate Alkalinity as CaCO3 (mg/L)	Bicarbonate Alkalinity as CaCO3 (mg/L)	Total Alkalinity as CaCO3 (mg/L)	Antimony (mg/L)	Chloride (mg/L)	Selenium (mg/L)	Sodium (mg/L)	Aluminium (mg/L)	Arsenic (mg/L)	Manganese (mg/L)	Molybdenum (mg/L)	Iron (mg/L)	Comments	Arsenious Acid (III)	Arsenic Acid (V)
31492 01	23 September 2008	1310	UNDC		7.7		150	510		<2														Non-reportable - discharge points are not licenced		
32279 01	17 December 2008	1029	SB8		7.8		295	1080		<2														Non-reportable - discharge points are not licenced		
32279 02	17 December 2008	1100	UNDC		6.6		145	21		<2																
ES0909245-001	24 June 2009	1340	DAM VOID 1		9.3		1540	216	20	<10														Limit of Reporting (LOR) was raised for Oil and Grease due to insufficient samples		
ES0909245-002	24 June 2009	1300	SB3		8.36		502	110	10	<10														Limit of Reporting (LOR) was raised for Oil and Grease due to insufficient samples		
ES0909245-003	24 June 2009	1315	SD3		8.56		354	1340	35	<10														Limit of Reporting (LOR) was raised for Oil and Grease due to insufficient samples		
ES0912984-001	27 August 2009	1335	DAM VOID 1		8.85		2260	60	3	<10														Limit of Reporting (LOR) was raised for Oil and Grease due to insufficient samples		
ES0912984-002	27 August 2009	1240	SB3		8.86		504	66	10	<10														Limit of Reporting (LOR) was raised for Oil and Grease due to insufficient samples		
ES0912984-003	27 August 2009	1255	SD3		8.34		587	71	8	<10														Limit of Reporting (LOR) was raised for Oil and Grease due to insufficient samples		
ES0918304-001	30 November 2009	1130	SB3		7.78		620	128	3	<10														Limit of Reporting (LOR) was raised for Oil and Grease due to insufficient samples		
ES0919288-001	16 December 2009	1415	Dam Void 1		9.15		4210	14	4	<10														Limit of Reporting (LOR) was raised for Oil and Grease due to insufficient samples		
ES0919290-001	16 December 2009	1205	SB7		9.38		600	18	8	<10														Limit of Reporting (LOR) was raised for Oil and Grease due to insufficient samples		
ES0919290-002	16 December 2009	1225	SB5		8.9		1440	50	7	<10														Limit of Reporting (LOR) was raised for Oil and Grease due to insufficient samples		
ES0919290-003	16 December 2009	1255	SB14		8.76		577	50	7	<10														Limit of Reporting (LOR) was raised for Oil and Grease due to insufficient samples		
ES0919733-001	29 December 2009	1530	SB19		6.85		110	444	5																	
ES1003579-001	25 February 2010	1535	SB3		8.34		423	56	15	<5														Limit of Reporting (LOR) was raised for TOC due to matrix interference		
ES1003579-002	25 February 2010	1550	SD3		8.44		374	37	<5	<5																
ES1003579-003	25 February 2010	1515	DAM VOID1		8.99		1390	106	5	<5																
ES1005718-001	25 March 2010	1550	SD3 - after floc		8.71		445	58		<5																
ES1008743-001	7 May 2010	830	SD3 - after floc		8.26		434	13		<5																
ES1008996-001	12 May 2010	1400	SB3		8.2		565	64	7	<5																
ES1008996-002	12 May 2010	1408	SD3		8.42		422	19	14	56																
ES1008996-003	12 May 2010	1315	DAM VOID 1		8.9		2470	20	3	<5																
ES1009880-001	24 May 2010	1320	SD3		8.57		412	92	4	6																
ES1014922-001	26 July 2010	840	SB8		8.34		458	17	5	<5														Sample after Floculation		
ES1015928-001	9 August 2010	1015	SB19		7.47		464	238	13	<5																
ES1015928-002	9 August 2010	955	SD3		7.62		458	239	12	<5																
ES1015928-003	9 August 2010	1055	DAM VOID 1		8.56		2330	8	2	<5			554	554		319		539	0.27	0.013	0.003		0.12			
ES1015928-004	9 August 2010	1035	SD7		7.85		92	8	9	<5																
ES1022524-001	8 November 2010	920	SB19		8.39		636	41	5	<5																
ES1022524-002	8 November 2010	905	SD3		8.42		472	107	7	<5																
ES1022524-003	8 November 2010	950	DAM VOID 1		9.12		2330	16	2	<5																
ES1022524-004	8 November 2010	1010	SD7		9.56		77	52	11	<5																
ES1104559-001	2 March 2011	920	SD3		8.43		605	210	22	<5																
ES1104559-002	2 March 2011	940	SB19		8.45		573	70	9	<5																
ES1104559-003	2 March 2011	1020	SB18		8.4		724	43	8	<5																
ES1104559-004	2 March 2011	1000	SD7		9.17		1080	236	37	<5																
ES1110300-001	17 May 2011	1030	SB19		8.75		880	76	9	<5					<0.001		<0.01			0.011		0.014				
ES1110300-002	17 May 2011	1020	SD3		8.31		709	214	15	<5					0.001		<0.01			0.012		0.023				
ES1110300-003	17 May 2011	1040	SB18		9.12		1610	3090	17	<5					<0.001		<0.01			0.018		0.002				
ES1110300-004	17 May 2011	925	SD7		7.45		159	78	23	<5					<0.001		<0.01			0.004		<0.001				
ES1110300-005	17 May 2011	1100	VOID		8.51		3320	25	2	<5																
ES1116911-001	4 August 2011	1015	SD3	8.6	8.49	411	563	124	11	<5					0.002		<0.01			0.007		0.028				
ES1116911-002	4 August 2011	1200	SB19	8.2	8.38	484	657	116	8	<5					<0.001		<0.01			0.007		0.01				
ES1116911-003	4 August 2011	1120	SB18	8.7	8.07	513	655	428	16	<5					<0.001		<0.01			0.008		<0.001				
ES1116911-004	4 August 2011	1225	SD7	8.1	7.4	135	213	290	66	5					<0.001		<0.01			0.004		<0.001				
ES1116911-005	4 August 2011	1135	VOID	8	8.16	2350	2920	78	1	<5	<1	<1	465	465		720		548	0.59	0.005	0.063		0.63			
ES1116911-001	10 November 2011	910	SD3	8.8	8.4	416	511	56	4	<5					<0.001		<0.01			0.019		0.003				
ES1116911-002	10 November 2011	845	SB19	9.1	8.33	385	466	18	4	<5					<0.001		<0.01			0.006		0.015				
ES1116911-004	10 November 2011	940	SD7	7.9	7.61	145	173	83	15	<5					<0.001		<0.01			0.005		<0.001				
ES1116911-005	10 November 2011	1040	VOID	8.7	8.42	2010	2530	8	<1	<5																
ES1127736-001	28 November 2011	1530	SD7		7.01		154	60	11	<5																
ES1200148-001	4 January 2012	1010	Bore Pump Dam		8.87		1320	6	3	<5																
ES1201040-001	16 January 2012	1530	Void		8.5		1890	6	3	<5																
ES1204082-001	21 February 2012	745	SD7		7.62		154	<5	14	<5																
ES1204082-002	21 February 2012	810	SD3		7.97		350	340	17	<5																
ES1204082-003	21 February 2012	845	UNDC		7.51		254	236	26	<5																
ES1205567-001	7 March 2012	1040	SD3	8.4	8.09	330	389	78	3	<5					<0.001		<0.01			0.005		0.004				
ES1205567-002	7 March 2012	1100	SB19	8.6	8.29	332	397	141	3	<5					<0.001		<0.01			0.008		0.002				
ES1205567-004	7 March 2012	1015	VOID	8.5	8.47	789	972	34	2	<5	<1	11	176	187		98		219	2.18	0.009	0.028		1.3			
ES1205567-005	7 March 2012	900	SD7	8	7.49	145	165	16	14	<5					<0.001		<0.01			0.002		<0.001				
ES1211330-001	7 May 2012	1040	SD3	7.9	8.55	581	692	30	5	<5					<0.001		<0.01			0.003		0.025				
ES1211330-002	7 May 2012	1100	SB19	8	8.49	409	490	14	2	<5					<0.001		<0.01			0.005		0.008				
ES1211330-003	7 May 2012	1130	SD7	7.6	7.61	167	192	34	14	<5					<0.001		<0.01			0.002		<0.001				
ES1211330-004	7 May 2012	1015	VOID	8.1	8.49	954	1150	6	<1	<5																
ES1219036-001	1 August 2012	1030	SD3	8.53	8.11	343	383	28	6	<5					<0.001		<0.01			0.005		0.007				
ES1219036-002	1 August 2012	1050	SB19	8.78	8.21	347	398	24	5	<5					<0.001		<0.01			0.005		0.005				
ES1219036-003	1 August 2012	1000	SD7	8.44	7.68	154	155	23	17	<5					<0.001		<0.01			0.002		<0.001				
ES1219036-004	1 August 2012	1130	VOID	8.73	8.5	1050	1220	12	2	<5																
ES1228239-001	28 November 2012	1040	SD3	8.98	8.84	1030	1110	100	8	<5					0.003		<0.01			0.011		0.059				
ES1228239-002	28 November 2012	950	DAM B	9.19	8.83	464	484	944	5	<5					<0.001		0.01			0.027		0.002				
ES1228239-003	28 November 2012	1020	SD7	9.81	8.99	194	199	98	20	<5					<0.001		<0.01			0.003		<0.001				
ES1228239-004	28 November 2012	930	VOID	9.08	8.94	1710	1950	12	2	<5																
ES1304443-001	26 February 2013	1130	SD3	8.16	8.01	371	373	82	4	<5					0.002		<0.01			0.005		0.043				
ES1304443-002	26 February 2013	1150	SB19	8.32	8.19	491	488	104	5	<5					<0.001		<0.01			0.007		0.006				
ES1304443-003	26 February 2013	1210	SD7	7.78	7.68	201	203	14	15	<5					<0.001		<0.01			0.003		<0.001				
ES1304443-004	26 February 2013	1110	VOID	9.24	8.98	1570	1680	12	2	<5																
ES1304443-005	26 February 2013	1050	DAM B	9.06	8.44	315	317	636	2	<5					<0.001		<0.01			0.01		0.002				
ES1311061-001	13 May 2013	1040	SD3	8.62	8.41	602	647	50	11	<5					<0.001		<0.01			0.006		0.017				
ES1311061-002	13 May 2013	1020	SB19	8.75	8.48	542	573	139	8	<5					<0.001		<0.01			0.005		0.006				
ES1311061-003	13 May 2013	920	SD7	7.99	7.86	226	233	29	21	<5					<0.001		<0.01			0.002		<0.001				
ES1311061-004	13 May 2013	1000	VOID	9.46	9.13	1710	1850	16	3	<5																
ES1317663-001	7 August 2013	1220	SD3	8.34	8.16	497	519	71	12	<5					<0.001		<0.01			0.004		0.018				
ES1317663-002	7 August 2013	1235	SB19	8.29	8.26	421	436	74	10	<5					<0.001		<0.01			0.005		0.006				
ES1317663-003	7 August 2013	1200	SD7	8.89	8.77	140	138	14	17	<5					<0.001		<0.01			0.001		<0.001				
ES1317663-004	7 August 2013	1245	VOID	8.78	8.79	1180	1250	23	4	<5																
ES1324284-001	7 November 2013	1115	SB19	9.3	8.96	1140	1300	146	21	<5					<0.001		<0.01			0.01		0.025				
ES1324284-002	7 November 2013	1010	DAM B	8.2	8.34	432	487	26	6	<5					<0.001		<0.01			0.008		0.004				
ES1324284-003	7 November 2013	930	SD 7	7.3	7.82	185	199	18	19	<5					<0.001		<0.01			0.003		<0.001				
ES1324284-004	7 November 2013	1045	VOID	9.6	9.13	1870	2160	14	9	<5	<1	104	252	356		318		439	0.44	0.011	0.018		0.22			
ES1402414-001	5 February 2014	850	VOID	9.8	8.94	2170	2450	13	3	<5					0.001		<0.01			0.012		0.045				
ES1402414-002	5 February 2014	935	SD3	10.3	9.14	1700	1900	76	24	<5					0.003		<0.01			0.037		0.174				
ES1402414-003	5 February 2014	915	SB19	10.2	9.21	3600	4100	196	75	5					0.003		<0.01			0.035		0.195				
ES1402414-004	5 February 2014	1020	Dam B	9.9	8.96	693	752	112	6	<5					<0.001		<0.01			0.016		0.016				
ES1402414-005	5 February 2014	1050	SD7	9	7.34	2150	222	52	19	<5					<0.001		<0.01			0.004		<0.01				
ES1409918-001	5 May 2014	1000	SD3	9.5	8.59	799	818	32	4	<5					0.002		<0.01			0.004		0.046				
ES1409918-002	5 May 2014	1020	SB19	8.9	8.31	425	431	19	3	<5					<0.001		<0.01			0.007		0.013				
ES1409918-003	5 May 2014	1100	DAM B	9.2	8.45	355	360	224	<1	<5					<0.001		<0.01			0.011		0.005				
ES1409918-004	5 May 2014	1140	SD7	8.9	8.14	200	200	20	12	<5					<0.001		<0.01			0.003		<0.001				
ES1409918-005	5 May 2014	940	VOID	10.1	9.06	2210	2300	12	2	<5	<1	123	309	432		404		388	0.77	0.012	0.024		0.38			
ES1417355-001	6 August 2014	930	SD3	9.1	8.78	843	889	8	6	<5					0.001		<0.01			0.003		0.036				
ES1417355-002	6 August 2014	910	SB19	8.8	8.48	521	525	61	10	<5					<0.001		<0.01			0.005	0.008					
ES1417355-003	6 August 2014	1000	DAM B	8.4	8.38	379	387	98	6	<5					<0.001		<0.01			0.008	0.005					
ES1417355-004	6 August 2014	1040	SD7	9.1	8.44	199	196	10	15	<5					<0.001		<0.01			0.003		<0.001				
ES1417355-005	6 August 2014	845	VOID	9	8.81	1740	1880	<5	3	<5																
ES1424987-001	12 November 2014	950	SD3	10.4	9.53	977	996	94	46	<5					0.002		<0.01			0.017		0.063				
ES1424987-002	12 November 2014	920	SB19	10.3	9.58	1910	1930	1510	249	<5					0.002		<0.01			0.04		0.048				
ES1424987-003	12 November 2014	1015	DAM B	9.1	8.64	482	490	28	5	<5					0.001		<0.01			0.013		0.047				
ES1424987-004	12 November 2014	1100	SD7	9.4	8.42	239	244	16	20	<5					<0.001		<0.01			0.004		<0.001				
ES1424987-005	12 November 2014	900	VOID	9.4	9	2200	2260	16	3	<5																
ES1503432-001	11 February 2015	920	SD3	10.4	9.12	678	695	31	18	<5					0.002		<0.01			0.01		0.06				
ES1503432-002	11 February 2015	935	SB19	10.5	9.43	1880	1930	228	75	<5					0.002		<0.01			0.042		0.071				
ES1503432-003	11 February 2015	1030	DAM B	9.2	8.61	360	367	85	5	<5					<0.001		<0.01			0.008		0.005				
ES1503432-004	11 February 2015	955	SD7	8.6	8.14	301	301	26	20	<5					<0.001		<0.01			0.005		0.001				
ES1503432-005	11 February 2015	900	VOID	9.9	9.15	2190	2260	46	4	<5																
ES1521696-001	11 May 2015	1045	SB19	8.2	7.96	428	444	60	6	<5					<0.001		<0.01			0.004		0.006		Could not sample SB3- no safe access.		
ES1521696-002	11 May 2015	920	DAM B	8.6	8	334	319	96	4	<5					<0.001		<0.01			0.007		0.003				
ES1521696-003	11 May 2015	1005	SD7	7.7	7.52	144	146	18	9	<5					<0.001		<0.01			0.002		<0.001				
ES1521696-004	11 May 2015	940	VOID	9.8	9.16	1860	1950	33	6	<5	<1	99	195	294		378		416	<0.01	0.008	<0.001		<0.05			
ES1528746-001	18 August 2015	900	SD3	8.9	8.65	1500	1440	66	25	6					<0.001					0.004		0.065				
ES1528746-002	18 August 2015	915	SB19	8.9	8.33	453	468	33	4	<5					<0.001					0.003		0.005				
ES1528746-003	18 August 2015	1000	DAM B	8.8	8.29	339	338	31	4	<5					<0.001					0.005		0.005				
ES1528746-004	18 August 2015	1030	SD7	9.1	7.62	136	135	5	10	<5					<0.001					<0.001		<0.001				
ES1528746-005	18 August 2015	935	VOID	9.4	8.75	1730	1700	23	3	<5																
ES1536863-001	19 November 2015	850	SD3	8.3	8.03	526	545	28	15	<5															<0.5	0.5
ES1536863-002	19 November 2015	830	SB19	9.6	9.13	683	698	8	8	<5																
ES1536863-003	19 November 2015	1030	DAM B	8.9	8.69	428	435	8	6	<5															4	2.9
ES1536863-004	19 November 2015	1140	SD7	8.9	8.05	197	200	35	15	<5																
ES1536863-005	19 November 2015	815	VOID	9	8.74	1990	2070	6	4	<5																
ES1604686-001	1 March 2016	1035	SD3	9.1	8.81	997	1190	1280	19	28					0.002					0.012		0.037		Oil and Grease being re-sampled		
ES1604686-002	1 March 2016	1020	SB19	9.1	9.2	911	1070	47	11	23					<0.001					0.01		0.017		Oil and Grease being re-sampled		
ES1604686-003	1 March 2016	1105	DAM B	8.8	8.81	592	682	38	8	14					<0.001					0.007		0.006		Oil and Grease being re-sampled		
ES1604686-004	1 March 2016	1200	SD7	7.8	7.98	227	241	29	13	8					<0.001					0.004		<0.001		Oil and Grease being re-sampled		
ES1604686-005	1 March 2016	1005	VOID	9	8.98	2460	2650	20	3	30														Oil and Grease being re-sampled		
ES1606366-001	21 March 2016	855	SB19							<5														Oil and grease re-sampled		
ES1606366-002	21 March 2016	920	DAM B							<5														Oil and grease re-sampled		
ES1606366-003	21 March 2016	935	SD7							<5														Oil and grease re-sampled		
ES1606366-004	21 March 2016	845	VOID							<5														Oil and grease re-sampled		
ES1606366-005	21 March 2016		SD3	Dry																				Dry at time of sample		
ES1610266-001	11 May 2016	9:30	VOID	9.1	8.67	3150	3240	22	20	9	<1	51	327	378					0.48	0.01	0.016		0.27			
ES1610266-002	11 May 2016	9:15	SD3	9.9	8.98	1330	1420	39	6	<5					0.002		<0.01			0.005		0.066				
ES1610266-003	11 May 2016	10:00	SB19	9.7	8.93	1070	1000	134	12	<5					<0.001		<0.01			0.006		0.012				
ES1610266-004	11 May 2016	11:00	DAM B	9.1	8.77	789	808	54	12	<5					<0.001		<0.01			0.007		0.008				
ES1610266-005	11 May 2016	9:00	SD7	8.2	8.14	297	282	38	22	<5					<0.001		<0.01			0.005		<0.001				
ES 1617597-001	9 August 2016	10:10	SD3	8	7.77	265	252	216	5	<5																
ES 1617597-002	9 August 2016	9:50	SB19	9.2	8.64	596	548	31	10	6																
ES 1617597-003	9 August 2016	10:50	DAM B	8.2	8.07	225	213	11	3	<5																
ES 1617597-004	9 August 2016	9:10	SD7	7.6	7.35	93	72	12	5	<5																
ES 1617597-005	9 August 2016	9:40	VOID	9.1	8.68	2630	2690	<5	3	<5																

Appendix 3

Groundwater Data

Site ID	Piezometer / Water Bore	Date	Time	Depth to Ground - mbgl	Depth to Stand - mbtoc	Field Parameters			Total Metals																		Mercury (Hg) - mg/L	pH - Lab	EC - Lab - µs/cm	Major Cations					Total Cations - meq/L	Major Anions						Total Anions - meq/L	Ionic Balance	Ammonia as Nitrogen (N)	Nitrite as N (mg/L)	Nitrate as N (mg/L)	NOX as N (mg/L)	Total Dissolved Solids	Comments
						pH - Field	EC - Field - µs/cm	Temp - Field - °C	Aluminium (Al) - mg/L	Arsenic (As) - mg/L	Barium (Ba) - mg/L	Beryllium (Be) - mg/L	Boron (B) - mg/L	Cadmium (Cd) - mg/L	Chromium (Cr) - mg/L	Cobalt (Co) - mg/L	Copper (Cu) - mg/L	Iron (Fe) - mg/L	Lead (Pb) - mg/L	Manganese (Mn) - mg/L	Nickel (Ni) - mg/L	Selenium (Se) - mg/L	Vanadium (V) - mg/L	Zinc (Zn) - mg/L				Calcium (Ca) - mg/L	Magnesium (Mg) - mg/L	Sodium (Na) - mg/L	Potassium (K) - mg/L		Chloride (Cl) - mg/L	Sulfate (SO4) - mg/L	Hydroxide Alkalinity as CaCO3 - mg/L	Carbonate Alkalinity as CaCO3 - mg/L	Bicarbonate Alkalinity as CaCO3 - mg/L	Alkalinity - mg/L								
MP-2		03/Sep/08	1650	13.55	14.55																																								
		13/Oct/08	1255	13.00	14.00																																									
		23/Oct/08	0930	13.58	14.58																																								
		29/Oct/08		13.22	14.22	7.35	4180	21		0.001	0.618	<0.001		0.0001	0.002	0.001	0.003	1.1	0.011	0.234	0.234		<0.01	0.042	<0.0001			174	101	529	5	40.1	926	45	<1	<1	559	559	38.2	2.37	0.02					
		23/Jan/09	1741	14.70	15.7																																								
		22/Jun/09	1200	13.80	14.8	7	5210	22.5		0.001	0.766	<0.001		<0.0001	0.01	0.003	0.008	5.01	0.007	0.145	0.011		0.01	0.095	<0.0001		4830	254	150	646	7	53.3	1490	61	<1	<1	538	538	54.1	0.74	<0.01				3040	
		15/Sep/09	1520	13.88	14.88																																								
		30/Nov/09	1030	13.90	14.9	6.91	5230	30.2	<0.01	0.002					<0.005		0.019	<0.05	<0.001	0.07	0.006			0.01	<0.0001	6.99	4560	247	161	593	7	51.6	1390	19.5	<1	<1	446	446	48.4	3.16		<0.01	0.6	0.6		
		25/Feb/10	1320	14.14	15.14																																								
		03/May/10	1130	14.00	15	7.37	5240	22.3		<0.001	0.737	<0.001		<0.0001	0.004	0.002	0.022	4.31	0.012	0.148	0.009		0.01	0.335	<0.0001		4760	237	150	584	6	49.8	1510	28.6	<1	<1	527	527	53.8	3.88	0.01				3120	
		26/Aug/10	1040	13.48	14.48	7.07	5060	Probe Broken																																					
		08/Nov/10	1355	12.04	13.04	6.72	3720	26.9																																					Water form tank
		07/Mar/11	1320	10.49	11.49	6.98	4060	25.2	0.71	<0.001					0.001		0.057	0.52	0.006	0.077	0.004			0.299	<0.0001	7	5070	247	162	611	9	52.5	1390	22	<1	<1	529	529	50.1	2.3		0.01	0.77	0.78		
		03/May/11	1210	11.10	12.1	6.95	4110	21.7																																					
		30/Aug/11	1130	11.54	12.54	6.90	3950	22.4	7.63	0.006	1.28	<0.001		0.0001	0.008	0.005	0.154	9.79	0.019	0.436	0.014		0.02	1.2	<0.0001	7.27	5320	243	152	600	7	50.9	1490	20	<1	<1	477	477	52	1.03	<0.01	<0.01	0.47	0.47	2960	
		04/Nov/11	1140	11.78	12.78	6.80	3820	23.9																																					
		21/Mar/12	0945	8.17	9.17	7.01	4330	22.3	0.26	0.003	0.867	<0.001		<0.0001	0.001	<0.001	0.037	0.12	0.003	0.028	0.003		<0.01	0.13	<0.0001	7.39	5080	272	168	639	9	55.4	1530	25	<1	<1	500	500	53.7	1.61	0.18	0.03	0.84	0.87	3770	
		23/May/12	1140	8.43	9.43	7.32	4170	15.4																																					
		27/Aug/12	1100	8.71	9.71	7.16	4670	20.7	0.62	0.002	0.86	0.001		0.0005	0.003	0.001	0.036	0.66	0.012	0.073	0.006		<0.01	0.178	<0.0001	7.54	4650	256	157	603	8	52.1	1370	23	<1	<1	548	548	50.1	2.01	0.1	0.03	2.06	2.09	3320	
		26/Nov/12	1045	9.33	10.33	7.07	4530	23.8																																					
		12/Mar/13	1040	10.00	11	7.29	4620	22.7	0.13	0.002	0.819	<0.001		<0.0001	0.004	<0.001	0.044	1.05	0.002	0.024	0.005		<0.01	0.17	<0.0001	7.48	5150	256	163	612	8	53	1350	18	<1	<1	498	498	48.4	4.55	0.01	<0.01	1.48	1.48	3750	
		20/Jun/13	1120	10.36	11.36	7.12	4710	20.5																																					
		28/Aug/13	1200	9.80	10.8	7.20	4740	21.2	0.24	<0.001	0.8	<0.001	0.09	0.0001	<0.001	<0.001	0.006	0.37	0.005	0.033	0.004	<0.01	<0.01	0.216	<0.0001	7.74	5190	254	169	583	9	52.2	1370	19	<1	<1	504	504	49.1	3.03	0.02				3140	
		11/Dec/13	1240	10.84	11.84	7.20	4870	21.8																																					
		26/Feb/14	1310	11.10	12.1	7.40	4850	22.3	0.36	0.002	0.933	<0.001	0.009	0.0001	0.006	<0.001	0.243	2.63	0.02	0.064	0.006	<0.01	0.01	0.455	<0.0001	8.06	5250	236	151	495	8	45.9	1160	15	<1	<1	475	475	42.5	3.86	0.07				3650	
		12/Jun/14	1330	11.40	12.4	7.20	4930	20.9																																					
		10/Sep/14	1050	11.50	12.5	7.2	4930	21.7	0.18	0.001	0.868	<0.001	0.07	<0.0001	<0.001	<0.001	0.024	0.29	0.002	0.033	0.004	<0.01	<0.01	0.127		7.6	5240	243	157	549	7	49.1	1300	19	<1	<1	551	551	48.1	1.06	0.01	<0.01	1.87	1.87	3270	
		28/Nov/14	835	11.68	12.68	7.4	4910	21.5																																					
		03/Mar/15	0955	11.80	12.8	7.3	4900	22.2	0.03	<0.001	0.817	<0.001	0.07	<0.0001	<0.001	<0.001	0.015	0.13	<0.001	0.028	0.005	<0.01	<0.01	0.144	<0.0001	7.7	5320	255	163	590	7	52	1480	18	<1	<1	537	537	52.8	0.83	0.02	<0.01	2.12	2.12	3890	
		29/May/15	0925	12.02	13.02	7.1	5070	20.6																																					
		02/Sep/15	1425	12.10	13.1	7.1	5060	21.6	0.05	<0.001	0.882	<0.001	0.08	<0.0001	<0.001	<0.001	0.014	0.07	<0.001	0.02	0.002	<0.01	<0.01	0.155	<0.0001	7.66	5170	271	160	631	7	54.3	1030	17	<1	<1	480	480	39	16.4	<0.01	<0.01	2.12	2.12	3390	
		07/Dec/15	1105	12.35	13.35	7.1	5090	22																																					
		02/Mar/16	1310	12.60	13.6	7.2	4970	23.3	0.24	<0.001	1.03	<0.001	0.09	<0.0001	0.001	<0.001	0.031	0.38	0.002	0.031	0.004	<0.01	<0.01	0.148	<0.0001	7.54	5340	254	174	604	7	53.4	1370	18	<1	<1	473	473	48.5	4.88	0.05	<0.01	2.06	2.06	3630	
		24/May/16	1400	12.65	13.65	7.1	5030	21.1																																					
MP-2A		12/Mar/13	1110	11.30	12.00	5.32	1340	23.9	0.38	0.011	0.351	<0.001		0.0003	0.003	0.016	0.212	3.69	0.02	0.401	0.033		<0.01	2.01	<0.0001	4.44	1380	61	29	234	21	16.2	208	20	<1	<1	<1	<1	6.28	44	0.03	0.02	0.22	0.24	2990	
		15/Apr/13	1000	11.40	12.10																																								
		27/May/13	1415	11.75	12.45																																								
		20/Jun/13	1245	11.80	12.5	6.53	4490	22.4	0.02	0.008	1.15	<0.001		<0.0001	<0.001	0.015	0.001	6.68	<0.001	4.12	0.004		<0.01	0.006	<0.0001	7.18	5060	226	140	554	8	47.1	1190	16	<1	<1	466	466	43.2	4.31	0.78	<0.01	0.01	0.01	3090	
		29/Jul/13	1410	16.74	17.44																																								
		23/Aug/13	1006	16.80	17.5																																								
		28/Aug/13	1130	16.80	17.5	5.30	2360	21.8	0.37	0.002	0.561	<0.001	0.1	0.0003	0.002	0.017	0.116	5.2	0.008	1.54	0.037	<0.01	<0.01	0.784	<0.0001	5.34	2530	112	66	312	15	25	604	<1	<1	<1	278	278	22.6	5.01	0.08				1990	
		30/Sep/13	1610	16.43	17.13																																								
		28/Nov/13	1330	14.52	15.22																																								
		11/Dec/13	1240	14.33	15.03	6.70	3140	22.6																																					
		26/Feb/14	1245	14.80	15.5	6.90	3100	22.2	0.8	0.041	0.833	<0.001	0.09	0.0016	0.046	0.01	1.19	48.8	0.074	2	0.044	<0.01	0.17	2.23	<0.0001	7.68	3250	146	79	323	13	28.2	668	5	<1	<1	489	489	28.7	0.96	0.84				1970	
		14/Mar/14	1530	14.90	15.6																																								
		12/Jun/14	1340	15.61	16.31	7.00	3180	20.7																																					
		12/Aug/14	1545	15.82	16.52																																								
		10/Sep/14	1110	15.70	16.4	7.00	3210	21.7	0.06	0.003	0.67	<0.001	0.08	0.0002	0.003	0.003	0.035	0.28	<0.001	1.75	0.02	<0.01	<0.01	0.147		7.47	3320	146	84	373	12	30.7	761	10	<1	<1	543	543	32.5	2.84	1.08	0.17	0.01	0.18	1970	
		28/Nov/14	850	14.47	15.17	7.3	3220	21.9																																					
		03/Mar/15	1015	14.10	14.8	7.3	3280	21.9	0.04	0.002	0.706	<0.001	0.1	0.0002	0.003	0.003	0.048	0.36	<0.001	1.46	0.029	<0.01	<0.01	0.158	<0.0001	7.7	3550	159	83	421	9	33.3	721	18	<1	<1	520	520	31.1	3.42	<0.01	<0.01	0.7	0.7	2150	
		29/May/15	0940	13.61	14.31	7.1	3540	20.6																																					
		02/Sep/15	1405	13.30	14	7	3470	21.8	0.12	0.002	0.796	<0.001	0.1	<0.0001	<0.001	<0.001	0.018	0.21	<0.001	0.044	0.002	<0.01	0.02	0.126	<0.0001	7.52	3500	178	77	507	4	37.4	608	46	<1	<1	566	566	29.4	11.9	0.02	<0.01	4.34	4.34	1980	
		07/Dec/15	1130	13.39	14.09	7.1	3410	22																																					
		02/Mar/16	1335	13.50	14.2	7.1	3370	23.3	0.09	0.002	0.765	<0.001	0.1	<0.0001	<0.001	<0.001	0.024	0.29	0.001	0.035	<0.001	<0.01	0.02	0.049	<0.0001	7.59	3440	137	73	478	3	33.7	750	52	<1	<1	554	554	33.3	0.59	0.02	<0.01	3.95	3.95	2120	
		24/May/16	1415	13.52	14.22	7	3321	21.6																																					
MP-3		04/Sep/08	1130	11.81	12.75																																								
		13/Oct/08	1000	9.06	10.00																																								
		23/Oct/08	0830	17.36	18.3																																								
		29/Oct/08																																											
		23/Jan/09	1800	18.3	19.24																																								
		22/Jun/09	1240		Dry																																								
		15/Sep/09	1505		Dry																																								
		30/Nov/09	1220		Dry																																								
		25/Feb/10	1140		Dry																																								
		03/May/10	1050		Dry																																								
		26/Aug/10	1000		Dry																																								
		08/Nov/10	1400		Dry																																								
		07/Mar/11	1150		Dry																																								
		03/May/11	1315		Dry																																								
		30/Aug/11	1000		Dry																																								
		04/Nov/11	1040		Dry																																								
		20/Mar/12	0950		Dry																																								
		23/May/12	1000		Dry																																								
		27/Aug/12	1010		Dry																																								
		26/Nov/12	0940		Dry																																								
		12/Mar/13	0930	18.26	19.2																																								
		12/Jun/13	1150	18.25	19.19																																								No sample
		28/Aug/13	1020	18.13	19.07																																								
		11/Dec/13	1145	18.26	19.2																																								No sample - mud at bottom
		24/Feb/14	1410		Dry																																								
		12/Jun/14	1035	18.27	19.21																																								No sample-mud at bottom
		27/Nov/14	1050		Dry																																								
		28/May/15	1030		Dry																																								
		02/Sep/15	1130		Dry																																								
		07/Dec/15	9:55		Dry																																								
		02/Mar/16	0940		Dry																																								
		24/May/16	950		Dry																																								
MP-3A		12/Mar/13	0950	22.30	22.90	7.48	1280	22.3	1.14	0.007	0.141	<0.001		<0.0001	0.004	0.001	0.051	3.82	0.006	0.087	0.005		0.05	0.24	<0.0001	7.82	1330	18	15	312	3	15.8	124	63	<1	<1	478	478	14.4	4.66	0.04	<0.01	0.28	0.28	834	
		15/Apr/13	0945	22.38	22.98																																								
		27/May/13	1315	22.38	22.98																																								
		12/Jun/13	1220	22.25	22.85	7.79	1225	22.1																																					
		29/Jul/13	1425	22.34	22.94																																								
		23/Aug/13	0953	22.32	22.92																																								
		28/Aug/13	1040	22.30	22.9	7.8	1250	22.6	2.21	0.005	0.134	<0.001	0.07	<0.0001	0.003	0.002	0.095	2.11	0.008	0.094	0.004	<0.01	0.04	0.154	<0.0001	8.12	1330	17	15	272	3	14	108	48	<1	<1	475	475	13.5	1.6	<0.01				796	
		30/Sep/13	1600	22.32	22.92																																								
		28/Nov/13	1345	22.26	22.86																																								
		11/Dec/13	1200	22.27	22.87	7.9	1305	22.1																																					
		26/Feb/14	0950	22.30	22.9	8.1	1280	22.7	0.75	0.004	0.123	<0.001	0.07	<0.0001	0.027	<0.001	0.091	0.86	0.008	0.077	0.008	<0.01	0.03	0.078	<0.0001	8.37	1340	13	12	294	2	14.5	99	44	<1	15	439	454	12.8	6.17	<0.01				761	
		14/Mar/14	1445	22.26	22.86																																								
		17/Jun/14	1050	22.28	22.88	7.8	1284	21.3																																					
		10/Sep/14	1000	22.30	22.9	7.8	1290	22.7	0.05	0.005	0.118	<0.001	0.05	<0.0001	<0.001	<0.001	0.01	0.07	<0.001	0.089	<0.001	<0.01	0.03	0.021		7.98	1330	12	11	245	1	12.2	104	42	<1	<1	529	529	14.4	8.3	<0.01	<0.01	0.77	0.77	760	
		27/Nov/14	1110	22.28	22.88	7.9	1295	23																																					
		03/Mar/15	1340	22.20	22.8	8	1310	23.4	0.04	0.005	0.085	<0.001	0.06	<0.0001	0.001	<0.001	0.008	0.09	<0.001	0.008	0.002	<0.01	0.03	0.05	<0.0001	8.13	1440	20	16	277	2	14.4	123	47	<1	<1	503	503	14.5	0.34	0.03	<0.01	0.74	0.74	806	
		28/May/15	1050	22.27	22.87	7.9	1291	21.3																																					
		02/Sep/15	1125	22.30	22.9	7.7	1290	20.5	0.08	0.005	0.088	<0.001	0.07	<0.0001	<0.001	<0.001	0.006	0.11	<0.001	0.005	<0.001	<0.01	0.03	0.063	<0.0001	8.04	1280	20	15	288	2	14.8	61	39	<1	<1	464	464	11.8	11.2	0.03	<0.01	0.8	0.8	710	
		07/Dec/15	1020	22.27	22.87	7.8	1292	22.6																																					
		02/Mar/16	1005	22.20	22.8	7.7	1280	23.2	0.05	0.005	0.1	<0.001	0.06	<0.0001	<0.001	<0.001	0.014	0.1	<0.001	0.018	<0.001	<0.01	0.03	0.029	<0.0001	8.11	1300	15	13	292	2	14.6	101	42	<1	<1	464	464	13	5.67	0.04	<0.01	0.74	0.74	685	
		24/May/16	1015	22.21	22.81	7.7	1296	21.6																																					
MP-4		03-Sep-08	1715	22.62	23.60																																								
		13/Oct/08	1045	23.02	24.00																																								
		22/Oct/08	1555	23.17	24.15																																								
		29/Oct/08																																											
		23/Jan/09	1810	24.16	25.14																																								
		22/Jun/09	1247		Dry																																								
		15/Sep/09	1455		Dry																																								
		30/Nov/09	1220		Dry																																								
		25/Feb/10	1035		Dry																																								
		03/May/10	1000		Dry																																								
		26/Aug/10	830		Dry																																								
		08/Nov/11	1415		Dry																																								
		07/Mar/11	1040	24.12	25.1																																								
		03/May/11	1330		Dry																																								
		30/Aug/11	0915		Dry																																								
		04/Nov/11	0950		Dry																																								
		20/Mar/12	0900		Dry																																								
		23/May/12	0840		Dry																																								
		27/Aug/12	915		Dry																																								
		26/Nov/12	0845		Dry																																								
		12/Jun/13	0850		Dry																																								
		28/Aug/13	0650		Dry																																								
		11/Dec/13	1130		Dry																																								
		26/Feb/14	0835		Dry																																								
		12/Jun/14	0830		Dry																																								
		27/Nov/14	840		Dry																																								
		28/May/15	0920		Dry																																								
		07/Dec/15	850		Dry																																								
		02/Mar/16	0840		Dry																																								

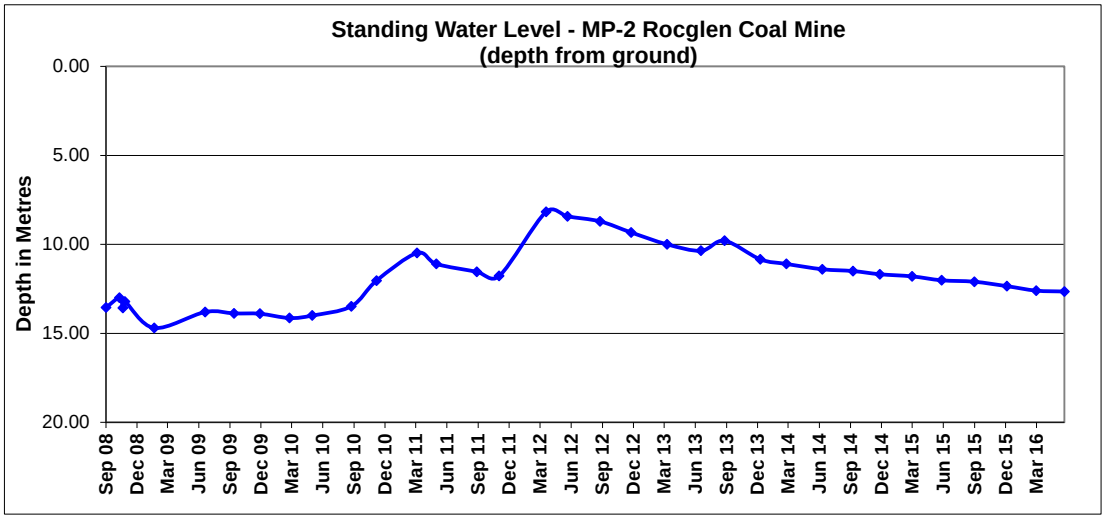
		24/May/16	850		Dry			
MP-4A		28/Nov/13	1400	29.12	29.97			
		12/Dec/13	1045	29.18	30.03	6.8	3210	28.4																																					Need Purging
		26/Feb/14	0920	29.35	30.2	7.1	3660	21.9	4.56	0.013	1.36	<0.001	0.06	<0.0001	0.014	0.008	0.067	6.7	0.009		4.64	0.016	<0.01	0.22	<0.0001	7.98	3820	52	26	829	4	40.9	629	1	<1	<1	1000	1000	37.7	3.97	0.06				2270	
		14/Mar/14	1430	29.30	30.15			
		12/Jun/14	0845	29.33	30.18	7.1	3690	20.5
		06/Aug/14	1225	29.12	29.97			
		26/Aug/14	1235	29.36	30.205			
		10/Sep/14	0900	29.35	30.2	7.2	3720	20.7	0.07	0.008	1.27	<0.001	<0.05	<0.0001	<0.001	<0.001	0.001	0.59	<0.001	<0.01	4.21	0.002	<0.01	0.015		7.66	3900	44	23	697	3	34.5	700	<1	<1	<1	1190	1190	43.5	11.6	0.01	<0.01	<0.01	<0.01	2120	
		27/Nov/14	920	29.30	30.15	7.2	3700	22.1
		04/Mar/15	1200	29.25	30.1	7.3	4420	22.6	<0.01	0.006					<0.001		0.003		<0.001		0.79	0.002		0.018	<0.0001	7.51	4580	41	28	975	4	46.9	996	45	<1	<1	919	919	47.4	0.6		<0.01	0.03	0.03		
		28/May/15	0940	29.32	30.17	7.2	3870	21.2
		03/Sep/15	925	20.05	20.9	7.3	3870	20.1	0.03	0.006	1.14	<0.001	0.05	<0.0001	0.005	<0.001	0.002	0.24	<0.001	<0.01	1.33	0.002	<0.01	0.02	<0.0001	7.65	4000	47	27	857	4	41.9	489	4	<1	<1	1150	1150	36.8	6.42	0.27	<0.01	0.33	<0.01	2130	
		07/Dec/15	935	29.21	30.06	7.4	3900	22.4
		02/Mar/16	925	29.25	30.1	7.5	3820	22.4	0.05	0.004	1.1	<0.001	<0.05	<0.0001	<0.001	<0.001	0.017	0.17	<0.001	<0.01	1.16	0.001	<0.01	0.037	<0.0001	7.86	4030	29	25	858	4	40.9	707	6	<1	<1	992	992	39.9	1.24	0.35	<0.01	<0.01	<0.01	2250	
		24/May/16	925	29.20	30.05	7.5	4010	20.3
MP-4B		28/Nov/13	1405	26.06	26.96			
		12/Dec/13	0850	25.87	26.77	7.30	2960	25.1																																					Need Purging
		26/Feb/14	0850	25.20	26.1	7.50	2890	21.7	0.3	0.007	0.215	<0.001	<0.05	<0.0001	0.012	<0.001	0.021	0.68	0.002	0.874	0.005	<0.01	<0.01	0.034	<0.0001	8.15	3050	8	8	720	2	32.4	492	145	<1	<1	640	640	29.7	4.37	0.22				1720	
		13/Mar/14	1435	25.97	26.87			
		12/Jun/14	0900	26.00	26.9	7.30	2960	20.3
		06/Aug/14	1230	25.87	26.77																																								Logger on ground
		26/Aug/14	1245	25.97	26.865			
		10/Sep/14	0920	26.00	26.9	7.4	2950	20.7	0.1	0.005	0.155	<0.001	<0.05	<0.0001	<0.001	<0.001	0.005	0.34	<0.001	0.534	0.002	<0.01	<0.01	0.016		7.96	3020	9	9	613	2	27.9	509	126	<1	<1	723	723	31.4	5.98	0.04	<0.01	0.02	0.02	1680	
		27/Nov/14	900	25.94	26.84	7.4	2960	21.5
		04/Mar/15	1225	25.90	26.8	7.6	2960	23.3	<0.01	0.005					<0.001		0.002	<0.05	<0.001	0.055	<0.001			0.005	<0.0001	7.95	3040	7	7	687	2	30.9	532	125	<1	<1	698	698	31.6	1.16		<0.01	0.03	0.03		
		02/May/15	1005	25.96	26.86			
		03/Sep/15	900	25.9	26.8	7.6	3020	20.1	0.21	0.005	0.128	<0.001	<0.05	<0.0001	0.001	<0.001	0.009	0.28	<0.001	0.356	0.001	<0.01	<0.01	0.03	<0.0001	7.6	3090	9	9	691	2	31.3	384	121	<1	<1	734	734	28	5.84	0.03	<0.01	0.02	0.02	1630	
		07/Dec/15	910	25.85	26.75	7.7	3060	22.4
		2-Mar-16	900	25.9	26.8	7.6	3010	22.5	0.04	0.005	0.116	<0.001	<0.05	<0.0001	<0.001	<0.001	0.026	0.1	<0.001	0.135	<0.001	<0.01	<0.01	0.037	<0.0001	8.11	3100	8	8	695	2	31.3	529	119	<1	<1	639	639	30.2	1.68	0.08	<0.01	0.05	0.05	1870	
		24-May-16	900	25.66	26.56	7.6	3060	20.7
MP-5		04-Sep-08	0940	53.13	54.00			
		13-Oct-08	1515	52.9	53.77			
		23-Oct-08	0900	52.96	53.83			
		29-Oct-08						
		23-Jan-09	1616	54.39	55.26			
		22-Jun-09	1020		Dry			
		15-Sep-09	1608		Dry			
		30-Nov-09	0915	54.67	55.52			
		25-Feb-10	1445	54.73	55.58			
		03-May-10	1330	54.6	55.45			
		26-Aug-10	1210	54.81	55.66			
		08-Nov-10	1140	54.88	55.73			
		02-Mar-11	1130	54.85	55.7			
		03-May-11	1000	54.8	55.65			
		30-Aug-11	1330	54.89	55.74			
		04-Nov-11	1300	54.78	55.63			
		20-Mar-12	1020	54.85	55.7			
		23-May-12	1030	54.41	55.26			
		28-Aug-12	1130	55.43	56.28			
		26-Nov-12	1125	54.95	55.8			
		12-Mar-13	1300		Dry			
		12-Jun-13	1055		Dry			
		29-Aug-13	1140		Dry			
		12-Dec-13	1335		Dry			
		27-Feb-13	1200		Dry			
		12-Jun-14	1400		Dry			
		10-Sep-14	1400		Dry			
		27-Nov-14	1200		Dry			
		28-May-15	1200		Dry			
		02-Sep-15	1155		Dry			
		08-Dec-15	1300		Dry			
		02-Mar-16	1030		Dry			
		24-May-16	1040		Dry			
MP-5A		12-Mar-13	1240	63.00	63.80	7.33	2790	24.7	0.1	0.003		0.115	<0.001	0.001	0.005	0.001	0.21	0.51	0.016	0.204	0.021		<0.01	4.94	<0.0001	7.7	3010	68	68	575	23	34.6	493	44	<1	<1	828	828	31.4	4.86	1.63	<0.01	0.13	0.13	1720	
		15-Apr-13	1400	65.78	66.58			
		27-May-13	1250	67.11	67.91			
		12-Jun-13	1115	67.03	67.83	7.12	2800	22.4
		29-Jul-13	1500	66.10	66.9			
		23-Aug-13	1018	66.20	67			
		29-Aug-13	1120	66.90	67.7	7	2710	23.2	0.46	0.001	<0.05	0.119	<0.001	<0.0001	0.002	0.001	0.05	3.44	0.007	0.312	0.006	<0.01	<0.01	0.128	<0.0001	7.44	2950	69	72	537	21	33.3	460	90	<1	<1	802	802	30.9	3.7	0.24				1540	
		30-Sep-13	1630	71.25	72.05			
		28-Nov-13	1435	76.55	77.35			
		12-Dec-13	1350	76.56	77.36	7	2770	24.8
		27-Feb-14	1130	76.60	77.4	7.2	2710	26.4	6.29	0.004	0.06	0.309	0.001	0.0002	0.02	0.012	0.323	25.4	0.05	0.963	0.034	<0.01	0.05	0.537	0.0002	7.32	3070	68	70	569	16	34.3	454	95	<1	<1	875	875	32.3	3.04	0.39				1590	
		14-Mar-14	1400	76.52	77.32			
		17-Jun-14	1410	76.63	77.43	7	3010	22
		06-Aug-14	1040	76.79	77.59			
		10-Sep-14	1415	76.90	77.7	6.9	2990	23.5	12.8	0.01	0.05	0.367	0.001	0.0002	0.02	0.018	0.086	18.8	0.024	0.679	0.037	<0.01	0.05	0.226		7.32	3150	64	67	454	16	28.9	492	76	<1	<1	1030	1030	36	11.1	0.26	<0.01	0.01	0.01	1790	
		27-Nov-14	1220	77.38	78.18	7	2890	23.7
		28-May-15	1225	78.22	79.02		Just slimy grey mud	
		02-Sep-15	1210	78.30	79.1		Just slimy grey mud	
		08-Dec-15	1310	78.32	79.12		Just slimy grey mud	
		02-Mar-16	1050	78.30	79.1		Just slimy grey mud	
		24-May-16	1105	78.26	79.06		Just slimy grey mud	
MP-6		12-Mar-13	1400	7.91	8.56	5.47	4120	24.3	1.88	0.005		1.78	<0.001	0.0002	0.006	0.015	0.067	13	0.019	1.85	0.046		0.01	1.06	<0.0001	4.89	4420	91	74	883	48	50.3	927	15	<1	<1	313	313	32.7	21.1	0.03	<0.01	0.17	0.17	5000	
		15-Apr-13	1330	7.99	8.64			
		27-May-13	1345	8.12	8.77			
		20-Jun-13	1040	8.11	8.76	6.91	3170	20.8	0.22	0.005		0.882	<0.001	<0.0001	<0.001	0.007	0.009	10.2	0.003	1.11	0.025		<0.01	0.027	<0.0001	7.43	3430	48	34	718	13	36.8	426	13	<1	<1	1080	1080	33.9	4.05	2.51	<0.01	<0.01	<0.01	1990	
		29-Jul-13	1345	8.13	8.78			
		22-Aug-13	1559	8.08	8.73			
		29-Aug-13	1030	8.14	8.79	7.1	2890	22.4	0.11	0.006	0.09	0.65	<0.001	<0.0001	<0.001	0.003	0.042	8.81	0.004	0.665	0.023	<0.01	<0.01	0.125	<0.0001	7.46	3130	34	28	741	14	36.6	423	2	<1	<1	1090	1090	33.8	3.99	1.66				1540	
		30-Sep-13	1520	8.11	8.76			
		28-Nov-13	1245	8.18	8.83			
		11-Dec-13	1430	8.17	8.82	7.2	2780	22.4
		24-Feb-14	1245	8.29	8.94	7.4	2580	22.2	0.14	0.009	0.1	0.507	<0.001	<0.0001	0.002	0.002	0.074	5.99	0.006	0.288	0.015	<0.01	<0.01	0.1	<0.0001	7.71	2660	16	15	568	10	27	293	<1	<1	<1	982	982	27.9	1.67	1.55				1490	
		12-Jun-14	1150	8.34	8.99	7.3	2360	21.4
		10-Sep-14	1330	8.33	8.98	7.4	2260	21.2	0.08	0.004	0.09	0.316	<0.001	<0.0001	<0.001	0.002	0.012	2.2	0.002	0.193	0.008	<0.01	<0.01	0.033		7.7	2330	10	9	440	6	20.5	236	<1	<1	<1	998	998	26.6	12.9	1.07	<0.01	0.04	0.04	1390	
		27-Nov-14	1320	8.37	9.02	7.5	2160	22.7
		03-Mar-15	1130	8.43	9.08	7.6	2110	22.3	0.3	0.006	0.09	0.335	<0.001	<0.0001	0.004	0.002	0.029	4.79	0.003	0.166	0.016	<0.01	<0.01	0.122	<0.0001	7.89	2240	13	10	538	6	25	191	3	<1	<1	907	907	23.6	2.94	1.16	<0.01	0.03	0.03	1400	
		28-May-15	1310	8.47	9.12	7.51	2100	21.7
		02-Sep-15	1300	8.37	9.02	7.5	2030	22	0.03	0.005	0.1	0.265	<0.001	<0.0001	<0.001	<0.001	0.004	1.57	0.001	0.136	0.004	<0.01	<0.01	0.033	<0.0001	7.89	2030	7	7	523	6	23.8	139	<1	<1	<1	811	811	20.1	8.37	0.86	<0.01	<0.01	<0.01	1150	
		07-Dec-15	1345	8.38	9.03	7.6	1958	22
		02-Mar-16	1150	8.40	9.05	7.5	1980	23.2	0.16	0.005	0.08	0.237	<0.001	<0.0001	<0.001	0.001	0.022	1.56	0.002	0.105	0.004	<0.01	<0.01	0.056	<0.0001	7.97	1990	6	6	497	6	22.6	162	<1	<1	<1	781	781	20.2	5.54	1.01	<0.01	0.02	0.02	1270	
		24-May-16	12:05	8.42	9.07	7.5	1972	21.6
MP-7		13-Mar-13	1030	15.50	16.30	6.8	3230	24.5	0.67	0.008		1.06	<0.001	<0.0001	0.002	0.008	0.031	12	0.006	5.4	0.009		<0.01	0.216	<0.0001	6.6	3520	140	71	583	8	38.4	680	5	<1	<1	780	780	34.9	4.79	0.09	<0.01	0.12	0.12	2270	
		15-Apr-13	1305	15.64	16.44			
		27-May-13	1445	15.76	16.56			
		02-Jul-13	1120	15.72	16.52	6.81	3830	21.8	0.03	0.016		2.57	<0.001	<0.0001	<0.001	0.015	<0.001	11.2	<0.001	5.25	0.007		<0.01	<0.005	<0.0001	7.06	4310	151	96	549	4	39.4	948	1	<1	<1	493	493	36.6	3.68	0.17	<0.01	0.28	0.28	2270	
		29-Jul-13	1435	15.72	16.52			
		23-Aug-13	0936	15.68	16.48			
		29-Aug-13	0900	15.70	16.5	6.81	3040	22.3	0.05	0.029	0.07	1.45	<0.001	0.0002	<0.001	<0.001	0.148	10.6	0.003	3.75	0.004		<0.01	0.49	<0.0001	7.33	3310	100	67	540	4	34.1	700	21	<1	<1	586	586	31.9	3.32	0.2				1720	
		30-Sep-13	1644	15.63	16.43			
		28-Nov-13	1600	15.60	16.4			
		18-Dec-13	1220	15.76	16.56	6.9	2970	23.3
		27-Feb-14	1915	15.70	16.5	6.9	2850	21.9	0.43	0.023	0.11	1.43	<0.001	0.0003	0.027	0.001	0.312	8.21	0.026	2.98	0.013	<0.01	<0.01	0.404	<0.0001	7.26	3200	88	55	569	2	33.7	669	27	<1	<1	595	595	31.3	3.66	0.15				1670	
		19-Jun-14	0935	15.82	16.62	7	3050	20.1
		12-Aug-14	1530	15.81	16.605			
		11-Sep-14	0910	15.80	16.6	7	3040	20.7	0.11	0.017	0.1	1.42	<0.001	<0.0001	<0.001	<0.001	0.006	5.59	0.002	2.74	0.002	<0.01	<0.01	0.03	<0.0001	7.66	3140	84	54	466	3	29	627	27	<1	<1	547	547	29.2	0.36	0.21	<0.01	0.06	0.06	1650	
		27-Nov-14	1130	15.81	16.61	7.1	3060	22.3
		03-Mar-15	0920	15.90	16.7	7.1	3010	21.8	0.02	0.004	0.1	1.03	<0.001	<0.0001	<0.001	<0.001	0.003	1.45	<0.001	1.67	0.001	<0.01	<0.01	0.036	<0.0001	7.69	3250	86	54	508	3	30.9	619	34	<1	<1	614	614	30.4	0.75	0.14	<0.01	0.02	0.02	1650	
		28-May-15	1115	16.05	16.85	7	3070	21.4
		02-Sep-15	1040	16.00	16.8	7	3080	21.2	0.03	0.002	0.1	1.08	<0.001	<0.0001	<0.001	<0.001	0.002	1.62	<0.001	1.49	<0.001	<0.01	<0.01	0.045	<0.0001	7.55	3120	99	57	529	30	32.7	513	34	<1	<1	561	561	26.4	10.7	0.08	<0.01	<0.01	<0.01	1710	
		08-Dec-15	910	16.05	16.85	7	3120	22
		03-Mar-16	1300	16.10	16.9	7	3110	23.8	0.02	0.002	0.09	1	<0.001	<0.0001	<0.001	<0.001	0.009	0.07	<0.001	1.24	0.002	<0.01	<0.01	0.171	<0.0001	7.78	3210	86	63	545	4	33.3	676	37	<1	<1	554	554	30.9	3.68	0.26	<0.01	0.05	0.05	1770	
		25-May-16	9:15	16.12	16.92	6.9	3090	20.4
MP-8		13-Mar-13	1030	15.80	16.50	4.73	1430	25.6	1.76	0.005		0.186	<0.001	0.0004	0.003	0.017	0.112	5.83	0.03	1.16	0.024		<0.01	2.37	<0.0001	4.45	1500	53	27	263	13	16.6	250	48	<1	<1	<1	<1	8.05	34.8	0.19	<0.01	0.29	0.29	1610	
		15-Apr-13	1300	15.79	16.49			
		27-May-13	1443	15.90	16.6			
		02-Jul-13	1240	16.28	16.98	6.7	4200	23.3	1.14	0.01		0.9	<0.001	<0.0001	0.002	0.018	0.005	4.54	0.002	1.43	0.011		<0.01	0.035	<0.0001	7.18	4800	179	110	593	4	43.9	1060	22	<1	<1	507	507	40.5	4.02	0.03	0.01	0.35	0.36	2720	
		29-Jul-13	1440	15.90	16.6			
		23-Aug-13	0935	15.84	16.54			
		29-Aug-13	0930	15.90	16.6	5.44	3180	22.5	0.9	0.008	0.07	0.968	<0.001	0.0001	0.002	0.015	0.091	7.06	0.008	2.63	0.013	<0.01	<0.01	0.344	<0.0001	6.28	3440	133	88	473	8	34.7	836	1	<1	<1	389	389	31.4	4.96	0.16				2220	
		30-Sep-13	1646	15.81	16.51			
		28-Nov-13	1605	15.80	16.5			
		18-Dec-13	1200	15.92	16.62	6.4	3620	22.9
		27-Feb-14	0855	16.00	16.7	6.5	3540	22.1	0.26	0.005	0.08	0.994	<0.001	0.0001	0.018	0.002	0.093	4.31	0.01	2.29	0.014	<0.01	<0.01	0.397	<0.0001	6.72	3920	153	93	590	5	41.1	968	<1	<1	<1	453	453	36.9	5.37	0.54				2280	
		19-Jun-14	0920	16.01	16.71	6.9	4010	20.1
		12-Aug-14	1540	16.07	16.765			
		11-Sep-14	0845	7.75	8.45	6.7	4170	20.8	0.62	0.004	0.08	0.949	<0.001	<0.0001	0.003	0.001	0.018	1.48	0.005	1.55	0.008	<0.01	<0.01	0.106	<0.0001	7.47	4420	164	102	526	5	39.6	982	2	<1	<1	524	524	38.2	1.76	0.42	<0.01	0.03	0.03	2620	Probable false measurement - same as the time of sampling.
		13-Nov-14	1520	15.97	16.665			
		27-Nov-14	1140	16.00	16.7	7	4130	22.9
		03-Mar-15	0905	16.10	16.8	6.9	4190	22.4	0.05	0.001	0.08	0.899	<0.001	<0.0001	0.001	<0.001	0.008	0.66	<0.001	1.64	0.006	<0.01	<0.01	0.08	<0.0001	7.53	4500	183	113	615	5	45.3	1160	4	<1	<1	578	578	44.4	1.06	0.41	<0.01	0.04	0.04	2910	
		28-May-15	1135	16.21	16.91	6.9	4210	21.2
		02-Sep-15	1020	16.20	16.9	6.9	4410	20.7	0.28	<0.001	0.08	0.905	<0.001	<0.0001	<0.001	<0.001	0.011	0.65	0.002	1.57	0.004	<0.01	<0.01	0.15	<0.0001	7.41	4480	190	114	633	5	46.5	587	2	<1	<1	536	536	34.9	14.2	0.5	<0.01	0.05	0.05	2650	

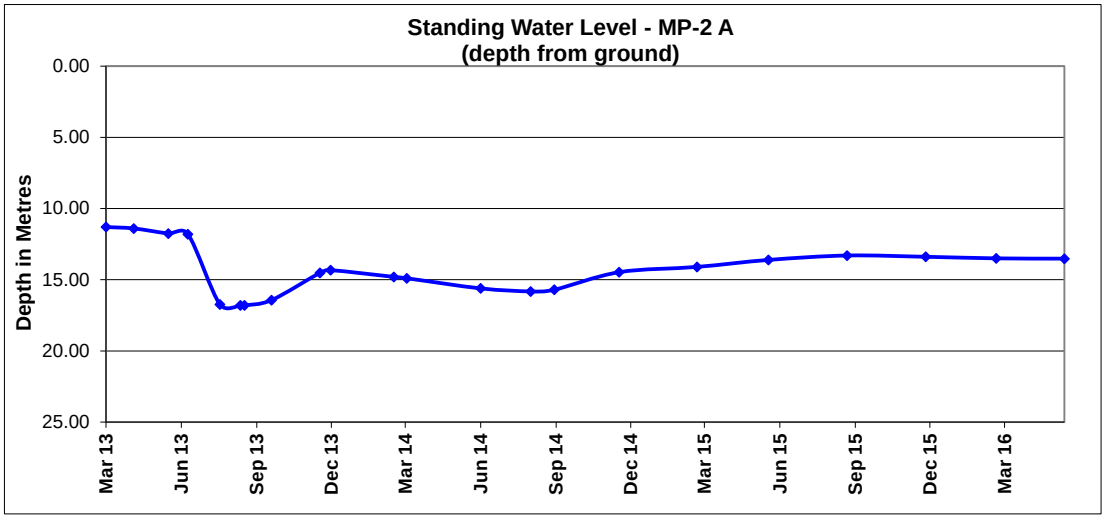
		08-Dec-15	845	16.22	16.92	6.8	4450	21.8																																						
		03-Mar-16	1240	16.30	17	7.1	4260	23.7	0.69	<0.001	0.07	0.911	<0.001	<0.0001	0.001	<0.001	0.059	1.85	0.005	1.49	0.006	<0.01	<0.01	0.156	<0.0001	7.64	4560	172	116	592	6	44	1080	3	<1	<1	524	524	41	3.56	0.65	<0.01	0.04	0.04	2940	
		25-May-16	845	16.28	16.98	6.9	4420	20.1																																						
WB-1		13-Oct-08	1640	8.95	9.35																																									
		28-Oct-08		8.85	9.25	7.93	1996	22.4		0.018	0.355	<0.001	0.0001	<0.001	<0.001	0.009	8.7	0.027	0.045	0.045	<0.01	1.19	<0.0001			9	12	388	4	18.4	286	30	<1	<1	483	483	17.8	1.57	1.23				1050			
		6-Dec-11	1230	8.64	9.04	8.08	1450	22.3																																						Windmill at Costa Vale back paddock
		21-Mar-12	1030	8.49	8.89	7.98	1640	23.6	0.1	0.022	0.386	<0.001	0.0001	<0.001	<0.001	0.015	9.31	0.006	0.039	<0.001	<0.01	0.468	<0.0001	8.1	1730	12	13	420	7	20.1	286	10	<1	<1	508	508	18.4	4.34	2.04	<0.01	0.07	0.07	932			
		24-May-12	1310	8.42	8.82	8.03	1537	22																																						
		27/Aug/12	1320	7.82	8.22																																									No sample
		26/Nov/12	1200	7.78	8.18																																									No sample
		12/Mar/13	1340	7.85	8.25																																									
		10/Jun/13	900	7.94	8.34	No sample																																								
		29/Aug/13	1100	7.99	8.39																																									
		11/Dec/13	1420	8	8.4	No sample - windmill over bore																																								
		24/Feb/14	1300	8.11	8.51	No sample - windmill over bore																																								
		12/Jun/14	1140	8.15	8.55	Wind mill over bore																																								
		10/Sep/14	1310	8.17	8.57																																									
		27/Nov/14	1330	8.22	8.62	Wind mill over bore																																								
		28/May/15	1250	8.31	8.71	Wind mill over bore																																								
		02/Sep/15	1245	8.22	8.62	Wind mill over bore																																								
		07/Dec/15	1320	8.21	8.61	Wind mill over bore																																								
		02/Mar/16	1130	8.22	8.62	Wind mill over bore																																								
		24/May/16	1145	8.24	8.64	Wind mill over bore																																								
WB-2		03-Sep-08	1400	16.87	17.25																																									
		13-Oct-08	1630	16.49	16.87																																									
		28-Oct-08		16.60	16.98	7.72	3430	22.7		<0.001	0.127	<0.001		<0.0001	<0.001	<0.001	0.011	0.15	<0.001	0.01	0.01		0.02	0.023	<0.0001			207	120	281	3	32.5	816	6	<1	<1	389	389	31.4	1.7	0.17				2310	
		23/Jan/09	1532	17	17.39																																									
		22/Jun/09	0830	16.65	17.03	7.2	3160	19.6		0.003	0.128	<0.001		<0.0001	0.001	<0.001	0.132	20.1	0.012	0.826	0.024		0.05	1.32	<0.0001		3050	205	103	274	4	30.7	798	27	<1	<1	464	464	32.3	2.52	0.08				1750	
		15/Sep/09	1552	16.45	16.83																																									
		06/Jan/10	0930	16.45	16.83	8.5	2070	24.1	<0.01	<0.001					<0.001		0.021	<0.05	<0.001	0.036	0.009			0.334	<0.0001	7.51	2010	126	62	159	7	18.5	326	13.7	<1	<1	330	330	16.7	5		0.02	8.96	8.98		
		25/Feb/10	1355	16.48	16.86																																									
		03/May/10	1250	16.56	16.94	7.84	1821	23.1		0.001	0.084	<0.001		0.0002	<0.001	<0.001	0.138	11.8	0.007	0.541	0.01		0.03	1.03	<0.0001		2190	148	73	194	7	22	505	35.5	<1	<1	364	364	22.3	0.47	2.77				1290	
		26/Aug/10	1315	19.54	19.92	7.4	3000	Probe Broken																																						From Windmill
		08/Nov/10	1050	17	17.38	7.3	2410	24.1																																						From windmill outlet
		02/Mar/11	1050	16.96	17.34	7.31	2450	27.3	<0.01	<0.001					<0.001		0.007	<0.05	<0.001	0.004	<0.001			0.009	<0.0001	7.53	2750	184	109	271	4	30	753	28	<1	<1	320	320	28.2	3.16		0.04	1.74	1.78		
		03/May/11	925	16.53	16.91	7.55	2360	15																																						
		30/Aug/11	1400	16.36	16.74	8.3	2170	21.8	<0.01	<0.001	0.083	<0.001		<0.0001	<0.001	<0.001	0.016	0.19	<0.001	0.002	<0.001		0.01	0.025	<0.0001	7.87	2880	127	103	269	3	26.6	778	32	<1	<1	290	290	28.4	3.3	<0.01	<0.01	0.5	0.5	1460	From windmill outlet
		04/Nov/11	1330	16.44	16.82	8.4	2110	25.4																																						
		20/Mar/12	1330	16.42	16.8	8.46	2410	24.5	<0.01	0.002	0.023	<0.001		<0.0001	<0.001	<0.001	0.002	0.08	<0.001	0.007	<0.001		0.01	0.007	<0.0001	8.64	2650	57	110	335	4	26.6	804	17	<1	32	114	146	26	1.18	0.07	<0.01	0.08	0.08	1540	
		23/May/12	1300	16.14	16.52	8.56	2610	15.7																																						
		27/Aug/12	1250	16.32	16.7	7.57	2240	21.8	0.04	<0.001	0.076	<0.001		<0.0001	<0.001	<0.001	0.107	1.03	0.003	0.103	0.001		<0.01	0.502	<0.0001	7.91	2480	167	84	218	5	24.9	591	34	<1	<1	414	414	25.6	1.56	<0.01	<0.01	4.8	4.8	1510	Gate No 4
		26/Nov/12	1150	16.6	16.98	7.85	2560	24.3																																						Gate No 4
		12/Mar/13	1320	16.02	16.4	7.89	2570	24.8	0.01	<0.001	0.092	<0.001		<0.0001	<0.001	<0.001	0.008	0.15	<0.001	0.006	<0.001		0.01	0.023	<0.0001	7.29	2740	110	107	282	4	26.7	692	33	<1	<1	230	230	24.8	3.62	0.05	<0.01	0.12	0.12	1420	
		12/Jun/13	1035	17.88	18.26	7.28	2620	20.6																																						
		28/Aug/13	1350	15.92	16.3	7.1	2840	22.9	0.07	<0.001	0.119	<0.001	0.08	<0.0001	<0.001	<0.001	0.042	0.84	0.002	0.02	<0.001	<0.01	0.02	0.09	<0.0001	7.61	3020	194	111	261	3	30.2	694	35	<1	<1	440	440	29.1	1.94	<0.01				1970	
		11/Dec/13	1410	15.73	16.11	No Sample - Tank Empty/Windmill broken + logs stuck in bore.																																								
		26/Feb/14	1410	16.22	16.6	7.9	2870	26	0.01	0.001	0.118	<0.001	0.11	<0.0001	<0.001	<0.001	0.004	0.08	<0.001	0.021	<0.001	<0.01	0.01	0.021	<0.0001	8.15	3070	141	112	236	4	26.6	1980	26	<1	<1	307	307	26.3	0.65	0.3				2320	
		12/Jun/14	1210	15.76	16.14	8.7	2700	14.8																																						
		10/Sep/14	1250	18.82	19.2	7.8	2090	19.3	0.02	<0.001	0.121	<0.001	0.08	<0.0001	<0.001	<0.001	0.011	<0.05	<0.001	0.004	<0.001	<0.01	0.02	0.023		7.81	3040	191	105	235	3	28.5	708	35	<1	<1	470	470	30.1	2.76	0.03	0.02	3.68	3.7	2040	
		28/Nov/14	0950	19.75	20.13	8.2	2120	22.2																																						
		03/Mar/14	1200	17.42	17.8	7.7	2960	25.3	0.01	<0.001	0.116	<0.001	0.09	<0.0001	<0.001	<0.001	0.005	0.28	<0.001	0.016	<0.001	<0.01	0.02	0.033	<0.0001	7.83	3200	187	118	283	3	31.4	689	33	<1	<1	415	415	28.4	5.04	0.61	0.03	0.79	0.82	2580	
		29/May/15	1100	15.81	16.19	8.6	2470	16.5																																						
		20/Sep/15	1325	15.62	16	8.6	2610	20.1	0.04	<0.001	0.038	<0.001	0.06	<0.0001	<0.001	<0.001	0.003	0.59	<0.001	0.025	<0.001	<0.01	<0.01	0.018	<0.0001	8.87	2620	67	111	300	4	25.6	589	1	<1	46	93	139	19.4	13.8	0.05	<0.01	<0.01	<0.01	1620	
		07/Dec/15	1300	15.68	16.06	8.6	3400	25.8																																						
		02/Mar/16	1245	16.22	16.6	7.3	2980	27.8	0.02	<0.001	0.129	<0.001	0.07	<0.0001	<0.001	<0.001	0.091	0.19	<0.001	0.008	<0.001	<0.01	0.02	0.067	<0.0001	7.44	3100	197	113	262	2	30.6	747	36	<1	<1	429	429	30.4	0.31	0.06	<0.01	4.84	4.84	2230	
		24/May/16	1230	15.74	16.12	7.6	3120	17.1																																						
WB-3		03-Sep-08	1430	8.82	9.40																																									
		13-Oct-08	1555	8.87	9.45																																									
		29-Oct-08		8.95	9.53	7.2	4480	21.7		0.002	0.012	<0.001	0.0004	0.05	0.001	0.009	0.61	0.003	0.026	0.026	0.04	0.026	<0.0001			264	196	363	2	45.1	1210	29	<1	<1	395	395	42.7	2.75	0.06							
		23/Jan/09	1545	23.72	24.3																																									
		09/Feb/09	1600	9	9.5																																									
		22/Jun/09	0905	8.99	9.57	7.5	4380	15.9		<0.001	0.005	<0.001	<0.0001	<0.001	<0.001	0.028	0.06	<0.001	0.004	0.006	0.04	0.131	<0.0001		4080	259	184	407	2	45.8	1270	22	<1	<1	434	434	44.8	1.1	0.18				2690			
		15/Sep/09	1549	8.99	9.57																																									
		30/Nov/09	0845	9.03	9.61	7.67	2900	25.6	<0.01	0.001				<0.005		0.017	<0.05	<0.001	0.003	0.005		0.078	<0.0001	7.74	3890	215	185	360	3	41.7	1220	21.2	<1	<1	324	324	41.3	0.5		<0.01	3.78	3.78				
		25/Feb/10	1410	8.92	9.5																																									
		03/May/10	1320	18.53	19.11	7.88	4290	23.5		0.001	0.006	<0.001	<0.0001	<0.001	<0.001	<0.001	<0.05	<0.001	<0.001	<0.001	0.04	<0.005	<0.0001		4000	229	168	354	2	40.7	1210	29.8	<1	<1	428	428	43.2	3.06	<0.01				2680			Sampled from tank fed by bore
		26/Aug/10	1250	8.94	9.52	8.28	3260	robe Broken																																						From tank
		08/Nov/10	1110	8.98	9.56	8.02	2360	25.8																																						From tank near WB4
		02/Mar/11	1150	17.63	18.21	7.44	3770	27.4	<0.01	0.003				<0.001		0.009	<0.05	<0.001	0.004	0.002		0.015	<0.0001	7.6	4820	274	157	498	8	48.5	1460	26	<1	<1	145	145	44.7	4.05		0.09	0.88	0.97				From Trough outlet newar WB4
		03/May/11	945	9.07	9.65	7.7	3790	14.3																																						from trough outlet near MP4
		01/Sep/11	1010	9.14	9.72	8.1	3830	16.9	<0.01	0.001	0.01	<0.001	<0.0001	<0.001	<0.001	0.006	<0.05	<0.001	0.005	<0.001	0.02	0.016	<0.0001	8.32	4860	147	191	411	3	41	1300	31	<1	3	171	174	40.8	0.27	0.11	<0.01	0.12	0.12	2480			Water from trough near MP4
		06/Dec/11	1100	9.07	9.65	7.05	3650	22.2																																						
		20/Mar/12	1300	8.71	9.29	6.95	3720	24.3	<0.01	0.001	0.002	<0.001	<0.0001	<0.001	<0.001	0.002	<0.05	0.04	<0.001	<0.001	<0.001	0.009	<0.0001	7.36	4280	256	184	393	2	45.1	1160	33	<1	<1	398	398	41.4	4.29	0.06	<0.01	3.64	3.64	2750			
		23/May/12	1255	8.49	9.07																																									Pump not working, no sample
		27/Aug/12	1350	8.32	8.9																																									
		26/Nov/12	1330	8.2	8.78																																									No sample-pump over bore-Glenrock house
		13/Mar/13	1415	7.98	8.56																																									
		20/Jun/13	1100	7.95	8.53	Pump over bore																																								
		30/Aug/13	0815	7.86	8.44																																									
		18/Dec/13	1250	7.87	8.45	Pump off & Covering Bore																																								
		27/Feb/14	1100	7.8	8.38	Pump covering bore																																								
		12/Jun/14	1225	8.05	8.63	Pump over bore																																								
		11/Sep/14	0950	8.09	8.67																																									
		28/Nov/14	1155	7.74	8.32	Pump over bore																																								
		28/May/15	1340	7.74	8.32	Pump over bore																																								
		03/Sep/15	1040	7.77	8.35	Pump over bore																																								
		08/Dec/15	1355	7.66	8.24	Pump over bore																																								
		03/Mar/16	1330	7.82	8.4	Pump over bore																																								
		24/May/16	1250	7.74	8.32	Pump over bore																																								
WB-4		03-Sep-08	casing sealed																																											casing sealed
		13-Oct-08	casing sealed																																											casing sealed
		29-Oct-08	casing sealed																																											casing sealed
		22/Jun/09	casing sealed																																											casing sealed
		15/Sep/09	asing sealed																																											casing sealed
		30/Nov/09	asing sealed																																											casing sealed
		25/Feb/10	asing sealed																																											casing sealed
		26/Aug/10	1230			7.83	3650	robe Broken																																						Bore covered by pump unable to dip-Sample taken from tank
		08/Nov/10	1205			Tank empty unable to sample																																								Bore covered by pump unable to dip
		02/Mar/11	1200			7.03	3320	29.2	<0.01	0.001				<0.001		0.005	<0.05	<0.001	0.002	<0.001		0.027	<0.0001	7.16	4010	247	183	363	2	43.2	1200	26	<1	<1	312	312	40.6	3.13		<0.01	3.79	3.79				Bore covered by pump unable to dip, Sample taken from tank
		03/May/11	1030			7.1	3160	14.5																																						Bore covered by pump unable to dip,Sample taken from tank
		01/Sep/11	1030			7.15	3650	16.8																																						Bore covered by pump unable to dip, Sample taken from tank
		06/Dec/11	1200			7.36	3590	22.3																																						
		20/Mar/12	1040			7.32	3680	21.7	<0.01	0.002	0.003	<0.001	<0.0001	<0.001	<0.001	0.028	<0.05	0.001	0.002	<0.001	0.04	0.022	<0.0001	7.61	4260	244	182	402	2	44.7	1170	33	<1	<1	378	378	41.2	4.02	0.05	0.02	3.21	3.23	2710			
		24/May/12	1330			7.91	3580	15.3																																						Bore covered by pump unable to dip, Sample taken from tank
		28/Aug/12	1200																																											From tank-no sample -tank empty
		26/Nov/12	1250	Pump over bore																																										
		12/Jun/13	1120	Pump over bore																																										
		29/Aug/13	1150	Pump over bore																																										
		12/Dec/13	1400	Pump over bore - Tank Empty																																										
		27/Feb/14	1215	Pump over bore - Tank Empty																																										
		12/Jun/14	1420	Pump over bore-Tank empty																																										
		11/Sep/14	930	Pump over bore-Tank empty																																										
		27/Nov/14	1235	Pump over bore-Tank empty																																										
		28/May/15	1240	Pump over bore																																										
		02/Sep/15	1225	Pump over bore																																										
		08/Dec/15	1330	Pump over bore																																										
		02/Mar/16	1105	Pump over bore																																										
		24/May/16	1115		Pump over bore																																									
WB-5		03-Sep-08	1540	4.23	4.65																																									
		13-Oct-08	1600	12.92	13.34																																									
		28-Oct-08		12.85	13.27	7.29	8400	22.5		<0.001	0.165	<0.001		0.0002	<0.001	<0.001	0.003	0.47	<0.001	0.267	0.267		<0.01	0.103	<0.0001			314	288	979	8	82.1	2350	89	<1	<1	505	505	78.2	2.39	0.22				5680	
		23/Jan/09	1700	13.1	13.5																																									
		22/Jun/09	1045			6.60	7930	21.3		<0.001	0.163	<0.001		<0.0001	<0.001	<0.001	0.002	2.36	<0.001	0.231	0.002		<0.01	0.045	<0.0001	7590		318	270	1080	9	85.3	2680	67	<1	<1	612	612	89.4	2.36	0.02				4580	Sampled from tank fed by bore
		15/Sep/09	1620			Bore unable to be dipped																																								Bore unable to be dipped
		30/Nov/09	0930	22.93	23.33	7.06	4880	27.9	<0.01	<0.001					<0.005		0.002	<0.05	<0.001	0.253	0.001			0.086	<0.0001	7250	7.26	282	280	965	10	79.3	2330	63.8	<1	<1	494	494	77	1.45		<0.01	2.23	2.23		
		25/Feb/10	1345	13.14	13.54																																									
		03/May/10	1215	12.97	13.37	7.43	7500	23		<0.001	0.124	<0.001		<0.0001	<0.001	<0.001	0.003	0.21	<0.001	0.124	0.001		<0.01	0.085	<0.0001	6720		217	268	1020	9	77.5	2360	91	<1	<1	415	415	76.8	0.41	<0.01				4570	
		26/Aug/10	1125	13.01	13.41	7.47	7480	robe Broken																																						From tank
		08/Nov/10	1255	14.06	14.46	7.86	5810	25.5																																						Water from tank
		02/Mar/11	1315	20.99	21.39	6.45	5590	26.2	<0.01	<0.001					<0.005		<0.001	<0.05	<0.001	0.243	<0.001			0.017	<0.0001	7540	6.67	301	259	958	10	78.3	2420	75	<1	<1	216	216	74	2.79		0.02	2.13	2.14		
		03/May/11	1150	12.7	13.1	6.80	5760	16.1																																						Water from tank
		30/Aug/11	1240	12.7	13.1	7.80	5610	19.5	0.6	0.001	0.154	<0.001		0.0002	<0.001	<0.001	0.022	1.02	0.004	0.102	0.006		<0.01	0.201	<0.0001	7780	7.85	191	266	1020	9	76	2500	70	<1	<1	328	328	78.5	1.63	<0.01	<0.01	2.1	2.1	4290	Water from tank
		04/Nov/11	1230	12.79	13.19	7.90	5550	26.1																																						
		20/Mar/12	1026	9.86	10.26	7.82	6670	24.5	<0.01	0.001	0.091	<0.001		<0.0001	0.001	<0.001	0.004	0.65	<0.001	0.044	<0.001		0.02	0.022	<0.0001	7870	7.86	176	301	1220	11	86.9	2680	95	<1	<1	258	258	82.7	2.45	<0.10	0.02	1.59	1.61	4810	
		23/May/12	1245	9.06	9.46	8.17	6360	16.8																																						
		27/Aug/12	1220	12.5	12.9	8.19	6930	18.7	0.07	<0.001	0.156	<0.001		<0.0001	<0.001	<0.001	0.006	0.78	<0.001	0.198	0.001		<0.01	0.07	<0.0001	7780	7.65	281	256	964	8	77.2	2050	93	<1	<1	600	600	71.8	3.67	<0.10	0.02	2.85	2.87	4900	
		26/Nov/12	1125	11.42	11.82	7.68	6740	27.1																																						
		12/Mar/13	1210	11.2	11.6	7.70	6890	24.1	<0.01	<0.001	0.084	<0.001		<0.0001	<0.001	<0.001	<0.001	0.41	<0.001	0.039	<0.001		<0.01	0.007	<0.0001	7750	7.81	176	289	1060	12	79	2450	71	<1	<1	288	288	76.3	1.69	0.15	0.03	0.34	0.37	5320	
		12/Jun/13	1010	10.47	10.87	7.86	6930	17.4																																						
		28/Aug/13	1310	12.1	12.5	8.20	6910	20.5	<0.01	<0.001	0.059	<0.001	0.08	<0.0001	<0.001	<0.001	0.002	0.28	<0.001	0.141	<0.001	<0.01	<0.01	0.01	<0.0001	7630	8.17	136	290	964	11	72.9	2500	57	<1	<1	230	230	76.3	2.31	0.09				5140	
		11/Dec/13	1350	12.31	12.71	7.80	7130	24.3																																						
		26/Feb/14	1340	19	19.4	7.60	7200	26.8	<0.01	<0.001	0.157	<0.001	0.09	<0.0001	<0.001	<0.001	0.002	0.78	<0.001	0.174	<0.001	<0.01	<0.01	0.014	<0.0001	7840	7.86	256	254	833	10	70.2	1980	79	<1	<1	471	471	66.9	2.38	0.14				5540	
		12/Jun/14	1240	12.56	12.96	7.90	7740	15																																						
		10/Sep/14	1220	14.5	14.9	7.6	5340	20.7	0.02	<0.001	0.209	<0.001	0.07	<0.0001	<0.001	<0.001	0.004	0.3	<0.001	0.07	<0.001	<0.01	<0.01	0.03		7940	7.71	286	269	899	10	75.8	2420	90	<1	<1	630	630	82.7	4.39	0.35	0.09	0.62	0.71	5780	
		28/Nov/14	0930	19.99	20.39	7.9	5352	20.9																																						

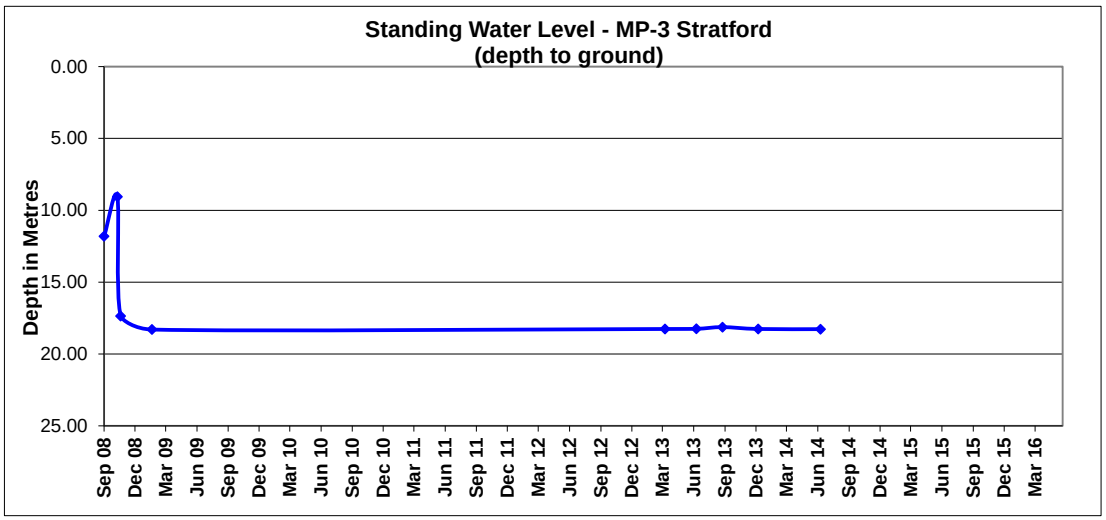
		03/Mar/15	1225	11.5	11.9	7.8	7620	24.7	<0.01	<0.001	0.093	<0.001	<0.05	<0.0001	<0.001	<0.001	<0.001	0.1	<0.001	0.029	<0.001	<0.01	<0.01	0.008	<0.0001	8360	8.16	171	282	1080	90	79	2470	86	<1	<1	261	261	76.7	1.45	0.08	0.02	0.25	0.27	6300	
		29/May/15	1040	11.58	11.98	7.4	7390	17.8																																								
		02/Sep/15	1345	10.9	11.3	7.5	7560	18.5	0.01	<0.001	0.104	<0.001	0.07	<0.0001	<0.001	<0.001	<0.001	0.23	<0.001	0.036	<0.001	<0.01	<0.01	0.014	<0.0001	7660	7.9	248	263	1020	8	78.6	1740	75	<1	<1	446	446	59.6	13.8	0.03	0.02	1.54	1.56	4890	
		07/Dec/15	1230	12.83	13.23	7.5	8926	26.7																																							
		02/Mar/16	1245	19.4	19.8	7.4	7460	29.1	<0.01	<0.001	0.154	<0.001	0.07	<0.0001	<0.001	<0.001	0.002	0.67	<0.001	0.159	<0.001	<0.01	<0.01	0.012	<0.0001	7860	7.69	248	274	955	8	76.7	2340	85	<1	<1	467	467	77.1	0.29	0.08	<0.01	2.72	2.72	5410	
WB-6		3-Sep-08	1626	23.18	23.64																																										
		13-Oct-08	1315	23.05	23.51																																										
		29-Oct-08																																													
		23/Jan/09	1720	23.84	24.3																																										
		22/Jun/09	1110	23.74	24.2																																										
		15/Sep/09	1528	23.86	24.32																																										
		30/Nov/09	1000	24.05	24.51																																										
		25/Feb/10	1335	25.08	25.54																																										
		03/May/10	1155	23.74	24.2																																										
		26/Aug/10	1055	23.47	23.96																																										
		08/Nov/10	1310	23.31	23.8																																										
		07/Mar/11	1340	22.74	23.23																																										
		03/May/11	1140	22.53	23.02																																										
		30/Aug/11	1150	22.55	23.04																																										
		04/Nov/11	1155	22.67	23.16																																										
		20/Mar/12	1140	21.72	22.21																																										
		23/May/12	1200	21.06	21.55																																										
		27/Aug/12	1130	20.62	21.11																																										
		26/Nov/12	1100	20.42	20.91																																										
		12/Mar/13	1130	20.43	20.92																																										
		12/Jun/13	0935	20.46	20.95																																										
		28/Aug/13	1230	20.59	21.08																																										
		11/Dec/13	1320	20.66	21.15	No Sample - Windmill over bore																																										
		24/Feb/14	1315	20.86	21.35	No Sample - Windmill over bore																																										
		12/Jun/14	1255	21.08	21.57	Windmill over bore																																									
		10/Sep/14	1130	21.21	21.7																																										
		28/Nov/14	1215	21.44	21.93	Windmill over bore																																									
		29/May/15	1005	21.88	22.37	Windmill over bore																																									
		03/Sep/12	1010	22.04	22.53	Windmill over bore																																									
		07/Dec/15	1210	22.38	22.87	Windmill over bore																																									
		02/Mar/16	1410	22.62	23.11	Windmill over bore																																									
		24/May/16	1335	22.80	23.29	Windmill over bore																																									
WB-7		4-Sep-08	0830	41.75	42.00																																									
		13-Oct-08	1240	19.11	19.36																																										
		28-Oct-08		18.90	19.15	7.25	2730	22.1		0.002	0.609	<0.001	<0.0001	<0.001	<0.001	0.021	0.19	<0.001	0.012	0.012	0.02	0.052	<0.0001			113	63	387	4	27.8	529	25	<1	<1	489	489	25.2	4.78	<0.001				1540				
		23/Jan/09	1752	21.18	21.43																																									
		22/Jun/09	1210			7.4	2690	18.8		0.001	0.665	<0.001	<0.0001	<0.001	<0.001	0.02	0.09	<0.001	0.012	<0.001	0.02	0.046	<0.0001		2660	117	58	417	4	28.9	604	33	<1	<1	533	533	28.4	0.92	1.4				1460			Sample from tank
		15/Sep/09	1508			Bore covered by pump																																							Bore covered by pump
		30/Nov/09	1200			7.39	2640	30.8	<0.01	0.002				<0.005		0.019	<0.05	<0.001	0.006	<0.001		0.029	<0.001	7.3	2260	102	58	367	4	25.9	571	21.7	<1	<1	497	497	26.5	1.06		0.09	5.94	6.03				Sample from tank
		25/Feb/10	1300			Sample from tank																																								Sample from tank
		03/May/10	1100	15.00	15.27	7.45	2890	21.4		0.002	0.663	<0.001	<0.0001	<0.001	<0.001	0.038	0.45	0.006	0.024	0.003	0.02	5.72	<0.0001		2470	122	58	360	3	26.6	535	28.1	<1	<1	572	572	27.1	0.84	<0.01				1320			Sampled from tank fed by bore
		26/Aug/10	1020	25.91	26.18	Windmill over bore																																								Windmill over bore, no access to water
		08/Nov/10	1340	31.53	31.8	7.24	2240	31.3																																						
		07/Mar/11	1240	25.13	25.4	7.24	2230	28.5	<0.01	0.002				<0.001		0.035	<0.05	0.001	0.008	<0.001		1.57	<0.0001	7.23	2440	126	59	378	4	27.6	535	22	<1	<1	573	573	27	1.19		<0.01	6.45	6.45				Water from tank on windmill
		03/May/11	1230	14.78	15.05	7.45	2130	18																																							water from tank on windmill
		30/Aug/11	1035	17.66	17.93	7.9	2060	18.7	55.1	0.072	2.72	0.002	0.0002	0.053	0.042	1.46	108	0.442	3.67	0.069	0.26	16.1	<0.0001	7.91	2750	122	57	382	4	27.5	585	27	<1	<1	516	516	27.4	0.21	0.04	<0.01	6.8	6.8	1470			water from tank on windmill
		04/Nov/11	1100	29.41	29.68	7.7	2080	23.8																																							
		20/Mar/12	1110	2.96	3.23	7.41	3120	23.7	0.07	0.027	1	<0.001	<0.0001	0.005	<0.001	0.35	12.3	0.149	0.067	<0.001	0.07	2.48	<0.0001	7.74	3550	203	71	475	5	36.8	845	49	<1	<1	482	482	34.5	3.19	0.06	<0.01	40.5	40.5	2420			
		23/May/12	1100	4.60	4.87	8.11	3070	14.9																																							
		27/Aug/12	1030	27.43	27.7	7.4	2840	15.5	0.03	0.004	0.694	<0.001	<0.0001	<0.001	<0.001	0.069	1.01	0.012	0.017	<0.001	0.03	0.626	<0.0001	7.79	3090	165	63	418	3	31.7	684	41	<1	<1	554	554	31.2	0.73	<0.01	<0.01	16.3	16.3	1810			
		26/Nov/12	1015	18.87	19.14	7.18	2620	24.4																																							
		12/Mar/13	1020	9.5	9.77																																										
		12/Jun/13	0915	9.83	10.1	No sample																																								
		28/Aug/13	1100	10.15	10.42																																										
		11/Dec/13	1220	10.36	10.63	No sample - windmill over bore/no pressure off taps at tank																																									
		24/Feb/14	1345	10.68	10.95	No sample - windmill over bore/no pressure off taps at tank																																									
		12/Jun/14	1340	10.87	11.14	Windmill over bore-no pressure @ taps																																									
		10/Sep/14	1020	11	11.27																																										
		28/Nov/14	0820	11.2	11.47	Windmill over bore																																								
		29/May/15	1130	11.65	11.92	Windmill over bore																																								
		02/Sep/15	1100	11.74	12.01	Windmill over bore																																								
		07/Dec/15	1045	11.92	12.19	Windmill over bore																																								
		03/Mar/16	1220	12.08	12.35	Windmill over bore																																								
		25/May/16	935	12.2	12.47	Windmill over bore																																								
WB-8		3-Sep-08				no access																																								
		13-Oct-08																																												
		29-Oct-08				no access																																								
		23/Jan/09	1840	46.4	46.9																																									
		22/Jun/09	1255	32.75	33.17	8.2	2240	18.5		0.02	0.173	<0.001	0.0004	<0.001	<0.001	0.004	0.36	0.003	0.016	<0.001	0.01	0.335	<0.0001		2190	49	38	429	7	24.4	378	37	<1	<1	554	554	22.5	4.04	0.12				1210			
		15/Sep/09	1450	43.38	43.88																																									
		30/Nov/09	1350			Dry																																								Bore covered by pump, could not sample
		25/Feb/10	1045	49.32	49.82																																								Pump covering bore
		03/May/10	1035	32.59	33.09																																								Pump over bore
		26/Aug/10	925	32.23	32.73																																								Pump over bore. Gate Locked
		09/Nov/10	1350	32.14	32.64	Unable to sample																																								No access. Gate Locked
		07/Mar/11	1050			Unable to sample																																								Pump over bore
		03/May/11				Unable to sample																																								
		01/Sep/11	1130	31.77	32.27	Unable to sample																																								
		06/Dec/11	1010	31.58	32.08	Unable to sample																																								
		21/Mar/12	1340	31.43	31.93	Unable to sample																																								
		24/May/12	1240	31.03	31.53	Unable to sample																																								
		28/Aug/12	1030	31.43	31.93																																									
		27/Nov/12	1345	31.31	31.81	Unable to sample																																								Pump over bore-Surrey house paddock
		13/Mar/13	1240	31.19	31.69																																								
		20/Jun/13	1315	30.97	31.47	Pump over bore																																								
		30/Sep/13	0855	31.19	31.69																																									
		12/Dec/13	1235	31.1	31.6	Pump over bore																																								
		27/Feb/14	1235	31.3	31.8	Pump over bore																																								
		12/Jun/14	1015	29.77	30.27	Pump over bore																																								
		11/Sep/14	1240	30.65	31.15																																									
		27/Nov/14	945	30.68	31.18	Pump over bore																																								
		03/Jun/15	1040	28.8	29.3	Pump over bore																																								
		03/Sep/15	1130	28.71	29.21	Pump over bore																																								
		08/Dec/15	1045	29.32	29.82	Pump over bore																																								
		03/Mar/16	1145			Pump over bore																																									
		25/May/16	1150	28.65	29.15	Pump over bore																																								
WB-9		3-Sep-08	1740	23.88	24.15																																									
		13-Oct-08	1100	24.09	24.36																																										
		28-Oct-08		24.50	24.77	7.53	931	23.3		0.021	0.459	<0.001		0.0008	0.001	<0.001	0.023	37.3	0.034	0.157	0.157		0.02	2.44	<0.0001			40	32	99	5	9.04	88	17	<1	<1	300	300	8.83	1.12	4.54				417			
		23/Jan/09	1816	24.30	24.57																																									
		22/Jun/09	1345	23.99	24.26	7.9	1080	20.6		0.005	0.648	<0.01		0.0017	<0.001	<0.001	0.004	11.8	0.005	0.034	0.002		<0.001	0.792	<0.0001		1040	21	27	104	8	8.03	84	<10	<1	<1	403	403	10.4	13	1.34				508			
		15/Sep/09	1443	23.94	24.25																																									
		30/Nov/09	1400	24.05	24.36	7.17	1261	25.3	<0.01	<0.001				<0.005		<0.001	0.33	<0.001	0.158	0.002			1.78	<0.001	7.14	1020	91	46	115	2	13.3	56.1	64.5	<1	<1	527	527	13.4	0.48		<0.01	0.2	0.2				
		25/Feb/10	1120	25.58	25.89	Windmill over bore																																								Windmill over bore
		03/May/10	1010	24.26	24.57	Windmill over bore																																								Bore covered by pump, tank fed by pum empty, could not sample
		26/Aug/10	900	24.59	24.9	7.72	1057	15.5																																						Windmill
		09/Nov/10	1340	24.34	24.65	Windmill over bore																																								Windmill over bore
		07/Mar/11	1130	24.68	24.99	7.44	1143	26.7	<0.01	0.002				<0.001		0.014	0.66	<0.001	0.004	<0.001			0.063	<0.0001	7.46	1020	92	44	122	2	13.6	58	61	<1	<1	525	525	13.4	0.61		<0.01	0.3	0.3				
		03/May/11	1345	25.26	25.57	7.6	1014	18.9																																								from windmill outlet
		30/Aug/11	930	24.36	24.67	7.9	981	17.4	<0.01	0.001	0.111	<0.001		<0.0001	<0.001	<0.001	0.005	0.51	<0.001	0.005	<0.001		0.01	0.037	<0.0001	7.92	1260	85	44	116	2	13	61	67	<1	<1	480	480	12.7	0.97	<0.01	<0.01	0.16	0.16	712			
		04/Nov/11	1015	24.58	24.89	7.7	937	23.1																																							
		20/Mar/12	0930	24.59	24.9	7.58	1126	23.5	<0.01	0.01	0.523	<0.001		<0.0001	0.004	<0.001	0.067	16.3	0.002	0.044	<0.001		0.08	0.597	<0.0001	7.85	1220	102	49	141	2	15.3	67	80	<1	<1	517	517	13.9	4.85	0.06	<0.01	0.31	0.31	780			
		23/May/12	0930	24.21	24.52	8.15	902	17.8																																							
		27/Aug/12	0945	23.99	24.3	8.27	1010	15	0.06	0.003	0.065	<0.001		<0.0001	<0.001	<0.001	0.022	3.46	0.002	0.02	<0.001		0.02	0.197	<0.0001	8.29	1050	45	44	124	2	11.3	65	73	<1	<1	428	428	11.9	2.58	0.02	<0.01	0.39	0.39	666			
		26/Nov/12	0910	23.86	24.17	8.15	995	24.3																																							
		12/Mar/13	0910	24.85	25.16																																										
		10/Jun/13	0910	24.06	24.37	Unable to collect sample-tank empty																																									
		28/Aug/13	0910	23.94	24.25																																										
		12/Dec/13	1250	23.78	24.09	No sample - pump over bore/tank empty																																									
		26/Feb/14	1130	24.69	25	7.5	1180	27.8	0.78	0.057	0.562	<0.001	0.08	0.0004	0.057	0.003	0.872	80.3	0.08	0.169	0.019	<0.01	0.34	3.35	<0.0001	8.12	1240	87	46	114	2	13.1	85	71	<1	<1	447	447	12.8	1.26	0.01				764			
		12/Jun/14	0915	24.27	24.58	7.7	1250	16																																							
		11/Sep/14	1145	24.19	24.5	7.5	1180	22.6	<0.01	0.002	0.125	<0.001	0.07	<0.0001	0.004	<0.001	<0.001	0.14	<0.001	0.005	<0.001	<0.01	0.02	0.02	<0.0001	7.96	1220	85	44	114	2	12.9	71	69	<1	<1	455	455	12.5	1.33	0.03	<0.01	0.27	0.27	731			
		27/Nov/14	1005	24.3	24.61	8.1	1067	26.1																																							
		04/Mar/15	1315	23.59	23.9	7.3	1240	27.3	<0.01	0.002				<0.001		<0.001	<0.05	<0.001	0.001	<0.001			<0.005	<0.0001	7.61	1300	87	48	128	2	13.9	76	72	<1	<1	520	520	14	0.45		<0.01	0.39	0.39				
		03/Jun/15	1020	23.71	24.02	7.6	1120	11.3																																							
		15/Sep/15	1115	22.99	23.3	7.7	1160	18.1	0.01	0.003	0.1	<0.001	0.12	<0.0001	<0.001	<0.001	0.005	0.69	<0.001	0.003	<0.001	<0.01	0.02	0.023	<0.0001	8.18	1170	83	48	121	2	13.4	65	66	<1	<1	497	497	13.1	0.99	0.06	<0.01	0.28	0.28	708			
		08/Dec/15	1140	23.79	24.1	7.6	1120	27.3																																							
		03/Mar/16	1045		Pump over	7.6	1210	25	0.1	0.002	0.13	<0.001	0.05	<0.0001	<0.001	<0.001	0.002	0.15	<0.001	0.008	<0.001	<0.01	0.02	0.043	<0.0001	7.85	1240	95	51	122	2	14.3	64	68	<1	<1	474	474	12.7	5.93	0.13	<0.01	0.26	0.26	682			
		25/May/16	1210		Windmill																																										
WB-10		25-Jul-08	1050	13.75	13.85																																								
		4-Sep-08	0750	13.80	13.90																																									
		13-Oct-08	1200	13.77	13.87																																									
		28/Oct/08		13.9	14	7.45	2235	17.8		0.002	0.045	<0.001		<0.0001	0.001	<0.001	0.002	6.47	0.004	0.02	0.02		0.01	0.571	<0.0001			138	79	248	<1	24.2	141	280	<1	<1	632	632	22.4	3.72	0.04				1310			
		27/Jan/09	1119	14.23	14.27																																									
		22/Jun/09	1530	14.01	14.08	7	2220	21.2		0.002	05	<0.001		<0.0001	<0.001	<0.001	0.004	6.91	0.003	0.021	0.002		0.01	0.858	<0.0001		2180	139	70	283	1	25	150	279	<1	<1	751	751	25.1	0.06	0.21				1320			
		11/Sep/09	1432	14.65	14.72																																									
		30/Nov/09	1450	14.62	14.69	7.11	2052	23.8	<0.01	<0.001					<0.005		0.008	<0.05	<0.001	0.014	0.001			0.195	<0.0001	6.89	1690	123	67	259	<1	23	117	225	<1	<1	717	717	22.3	1.47		<0.01	0.15	0.15				
		25/Feb/10	1015	14.23	14.3																																									
		03/May/10	1440	14.47	14.54	7.93	2300	22.5		0.005	0.089	<0.001		0.0003	0.001	0.001	0.02	18	0.016	0.069	0.005		0.03	1.12	<0.0001		2010	137	70	266	<1	24.2	155	360	<1	<1	722	722	26.3	4.17	<0.01				1260			
		24/Sep/10	1020	14.05	14.12	6.7	1833	23.5																																							From bore

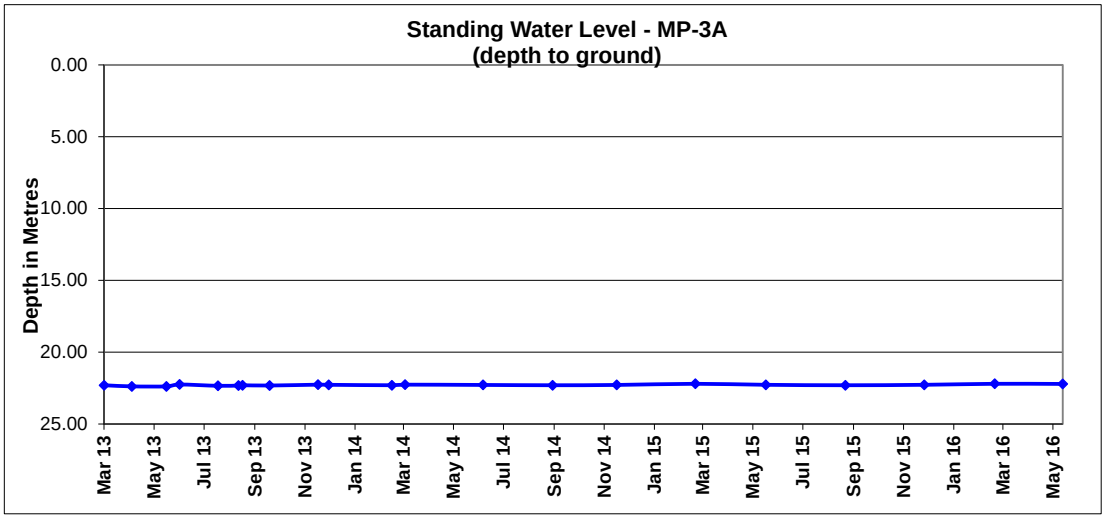
		10/Nov/10	1150	14.1	14.17	6.72	1905	24.2																																						
		07/Mar/11	950	14.34	14.41	6.75	1910	24.7	0.27	0.004					0.002		0.042	21.7	0.009	0.136	0.002			1.11	<0.0001	6.91	1850	136	73	266	2	24.4	147	251	<1	<1	735	735	24.1	0.64		<0.01	0.15	0.15		
		03/May/11	1425	14.07	14.14	6.8	1685	21																																						
		01/Sep/11	1240	16.47	16.54	6.95	1745	22.6	0.14	<0.001	0.045	<0.001		<0.0001	<0.001	<0.001	0.006	2.23	0.002	0.029	0.001		<0.01	0.203	<0.0001	7.74	2050	126	64	234	<1	21.7	164	274	<1	<1	504	504	20.4	3.15	0.06	<0.01	0.16	0.16	1230	In small shed
		06/Dec/11	0920	14.12	14.19	6.92	1780	21.1																																						
		21/Mar/12	1220	14.13	14.2	6.94	1880	24.3	0.04	<0.001	0.047	<0.001		<0.0001	<0.001	>0.001	0.02	0.99	0.002	0.026	<0.001		<0.01	0.259	<0.0001	7.4	2020	140	71	246	1	23.6	175	326	<1	<1	635	635	24.4	1.8	0.03	>0.01	0.29	0.29	1320	
		24/May/12	1135	13.95	14.02	6.68	1902	21.7																																						
		04/Sep/12	0925	14.03	14.1	6.92	1870	20.3	0.02	<0.001	0.041	<0.001		<0.0001	<0.001	<0.001	0.014	1.13	<0.001	0.019	<0.001		<0.01	0.204	<0.0001	7.61	2010	137	73	239	1	23.2	170	262	<1	<1	704	704	24.3	2.22	0.09	0.02	0.11	0.13	1310	
		13/Dec/12	925	14.76	14.83	6.94	1969	22.4																																						Brolga house
		13/Mar/13	1030	14.13	14.2	6.97	2020	23.3	0.05	<0.001	0.049	<0.001		0.0002	<0.001	<0.001	0.02	4.21	0.002	0.022	0.001		<0.01	0.287	<0.0001	7.05	2150	131	73	278	1	24.7	158	266	<1	<1	725	725	24.5	0.35	0.01	<0.01	0.11	0.11	1370	
		10/Jul/13	1040	14.08	14.15	6.95	1883	20.1																																						
		30/Aug/13	1030	14.13	14.2	6.9	1880	21.5	0.51	0.003	0.059	<0.001	0.09	0.0001	<0.001	<0.001	0.086	6.57	0.008	0.08	0.002	<0.01	0.01	0.772	<0.0001	7.53	2050	143	76	265	1	24.9	159	275	<1	<1	630	630	22.8	4.48	0.02				1220	
		12/Dec/13	1440	14.3	14.37	7	1925	22																																						
		26/Feb/14	1040	14.33	14.4	7	2010	23.2	0.06	<0.001	0.064	<0.001	0.1	<0.0001	0.004	<0.001	0.017	1.21	0.001	0.057	<0.001	<0.01	<0.01	0.106	<0.0001	7.58	2110	132	68	204	<1	21.1	140	239	<1	<1	670	670	22.3	2.91	<0.01				1250	
		19/Jun/14	1040	14.07	14.14	7.1	2010	20.3																																						
		11/Sep/14	1050	13.93	14	7	1960	20.9	0.11	0.009	0.086	<0.001	0.09	0.0002	0.001	<0.001	0.007	26.7	0.008	0.064	0.002	<0.01	0.04	0.259	<0.0001	7.6	2020	130	70	216	<1	21.6	150	301	<1	<1	579	579	22.1	0.98	0.03	0.02	0.12	0.14	1170	
		28/Nov/14	1050	14.24	14.31	7.1	2050	22.3																																						
		03/Mar/15	1415	14.63	14.7	7	2070	22.9	0.18	0.002	0.055	<0.001	0.08	<0.0001	<0.001	<0.001	0.005	9.44	0.002	0.055	0.002	<0.01	<0.01	0.33	<0.0001	7.46	2220	144	78	270	1	25.4	155	293	<1	<1	734	734	25.1	0.45	0.66	<0.01	0.02	0.02	1340	
		03/Jun/15	0820	14.09	14.16	7	2210	18.9																																						
		02/Sep/15	0925	14.13	14.2	7	2060	20.2	0.03	0.005	0.049	<0.001	0.1	<0.0001	<0.001	<0.001	0.004	9.48	<0.001	0.026	0.001	<0.01	0.01	0.26	<0.0001	7.41	2060	146	78	270	<1	25.4	130	274	<1	<1	636	636	22.1	7.07	0.02	<0.01	0.02	0.02	1270	
		08/Dec/15	940	14.56	14.63	6.9	2080	21.9																																						
		03/Mar/16	0900	14.33	14.4	7	2090	22	0.06	0.003	0.081	<0.001	0.08	<0.0001	<0.001	<0.001	0.005	15.7	0.001	0.044	<0.001	<0.01	<0.01	0.106	<0.0001	7.61	2120	139	89	290	1	26.9	159	293	<1	<1	638	638	23.3	7.08	0.65	<0.01	<0.01	<0.01	1380	
		25/May/16	1015	14.06	14.13	7	2050	20																																						
WB-11		25-Jul-08	1105	18.11	18.28																																									
		4-Sep-08	0740	18.61	18.78																																									
		13-Oct-08	1150	18.13	18.30																																									
		28/Oct/08		18.4	18.57	7.57	1086	19.6		<0.001	0.124	<0.001		<0.0001	<0.001	<0.001	0.004	4.24	0.004	0.253	0.253		<0.01	0.048	<0.0001			34	28	149	6	10.6	133	31	<1	<1	323	323	10.9	1.15	0.78				576	
		23/Jan/09	1109	18.73	18.91																																									
		22/Jun/09	1505	18.1	18.35	8	880	21.3		<0.001	0.1	<0.001		<0.0001	<0.001	<0.001	0.002	5.4	0.004	0.298	0.002		<0.01	0.041	<0.0001		917	360	24	130	2	9.2	132	10	<1	<1	247	247	8.86	1.86	1.79				476	
		11/Sep/09	1425	18.63	18.88																																									
		30/Nov/09	1425	18.6	18.85	7.89	938	23.1	<0.01	<0.001					<0.001		0.001	<0.05	<0.001					0.005	<0.0001	6.65	929	29	24	122	2	8.79	138	2.52	<1	<1	251	251	8.97	1.05		<0.01	0.08	0.08		
		25/Feb/10	1000	18.47	18.72																																									
		03/May/10	1515	18.24	18.49	8.37	1083	22.5		<0.001	0.08	<0.001		<0.0001	<0.001	<0.001	0.001	6.02	0.003	0.379	0.002		<0.01	0.016	<0.0001		921	33	24	127	2	9.19	156	5.84	<1	<1	246	246	9.44	1.34	0.95				474	
		24/Sep/10	1000	17.66	17.91	7.59	865	24																																						From Bore
		10/Nov/10	1140	17.49	17.74	7.49	867	25.8																																						
		07/Mar/11	930	18.57	18.82	7.05	944	24.5	0.13	<0.001					0.001		0.014	8.99	0.002	0.586	0.001			0.438	<0.0001	7.38	845	37	25	132	3	9.71	181	<1	<1	<1	238	238	9.88	0.88		<0.01	0.02	0.02		
		03/May/11	1400	17.34	17.59	7.25	867	20.3																																						
		01/Sep/11	1220	17.57	17.82	7.55	926	22.7	0.1	<0.001	0.078	<0.001		<0.0001	<0.001	<0.001	0.002	10.6	<0.001	0.538	<0.001		<0.01	0.009	<0.0001	8.13	1200	37	25	132	2	9.7	229	<1	<1	<1	176	176	9.98	1.43	0.34	<0.01	0.02	0.02	528	Near irrigation pump
		06/Dec/11	0900	16.93	17.18	7.5	905	21																																						
		21/Mar/12	1150	16.75	17	7.93	910	23.2	0.03	<0.001	0.057	<0.001		<0.0001	<0.001	<0.001	0.005	3.24	0.001	0.397	<0.001		<0.01	0.016	<0.0001	7.97	1020	31	24	140	4	9.71	258	1	<1	<1	156	156	10.4	3.5	0.15	0.23	0.69	0.92	522	
		24/May/12	1115	16.5	16.75																																									No sample. New pump over bore
		04/Sep/12	0905	16.17	16.42																																									
		13/Dec/12	Pump over bore																																											New electric pump over bore-Brolga irrigation pump
		13/Mar/13	Pump over bore																																											
		10/Jul/13	1020	15.32	15.57	7.75	1241	19.9																																						
		30/Aug/13	1000	16.67	16.92	7.6	1120	21.8	0.16	0.001	0.13	<0.001	0.21	<0.0001	<0.001	<0.001	0.035	5.59	0.007	0.189	0.001	<0.01	<0.01	0.078	<0.0001	7.99	1220	52	41	196	1	14.5	74	80	<1	<1	480	480	13.3	4.19	0.07				719	
		12/Dec/13	1455	16.7	16.95	7.8	1310	22.4																																						
		26/Feb/14	1020	18.15	18.4	8.2	1550	23.3	0.04	0.001	0.058	<0.001	0.14	<0.0001	0.004	<0.001	0.068	1.13	0.005	0.093	0.001	<0.01	<0.01	0.06	<0.0001	8.37	1690	47	61	202	<1	16.2	130	214	<1	15	446	462	17.4	3.62	0.23				1010	
		19/Jun/14	1020	16.93	17.18	7.7	1420	20.2																																						
		11/Sep/14	1030	16.65	16.9	7.8	1210	20.8	0.38	0.002	0.143	<0.001	0.17	<0.0001	0.002	<0.001	0.009	6.45	0.01	0.229	0.004	<0.01	<0.01	0.034	<0.0001	8.16	1250	36	46	167	<1	12.8	79	121	<1	<1	396	396	12.7	0.7	0.05	<0.01	0.08	0.08	686	
		28/Nov/14	1120	17.43	17.68	8.1	1310	22.8																																						
		03/Mar/15	1400	19.05	19.3	8	1320	24.2	0.1	0.001	0.19	<0.001	0.41	<0.0001	0.003	<0.001	0.002	6.94	0.003	0.313	0.002	<0.01	<0.01	0.055	<0.0001	7.96	1440	44	35	233	1	15.2	85	65	<1	<1	578	578	15.3	0.25	0.05	<0.01	0.02	0.02	815	
		09/Jun/15	1230	17.89	18.14	7.7	1567	22																																						
		02/Sep/15	0900	17.25	17.5	7.6	1780	19.2	0.05	<0.001	0.028	<0.001	0.1	<0.0001	<0.001	<0.001	0.006	0.96	<0.001	0.028	<0.001	<0.01	<0.01	0.039	<0.0001	8.09	1780	70	74	264	1	21.1	125	258	<1	<1	471	471	18.3	7.04	0.04	<0.01	0.26	0.26	1030	
		08/Dec/15	1000			No access- gate locked																																								
		03/Mar/16	0940	20.05	20.3	7.8	1360	22.6	0.57	0.001	0.141	<0.001	0.4	<0.0001	<0.001	<0.001	0.015	6.19	0.002	0.316	<0.001	<0.01	<0.01	0.064	<0.0001	8.09	1410	34	38	246	1	15.6	75	75	<1	<1	583	583	15.2	1.02	0.08	<0.01	<0.01	<0.01	798	
		25/May/16	955	17.67	17.92	7.7	978	18.5																																						
WB-12		25-Jul-08	1120	12.73	13.03																																									
		4-Sep-08	0800	12.80	13.10																																									
		13-Oct-08	1213	12.83	13.13																																									
		28/Oct/08		12.95	13.25	8.15	2152	19.4		0.001	0.102	<0.001		0.0001	0.001	0.001	0.005	5.55	0.003	0.099	0.099		<0.01	0.314	<0.0001			34	78	301	3	21.3	254	2	<1	<1	649	649	20.2	2.57	6.95				1040	
		27/Jan/09	1129	13.16	13.33																																									
		22/Jun/09	1550	12.99	13.21	8	2070	22.2		0.001	0.108	<0.001		<0.0001	0.004	0.001	0.002	8.97	0.003	0.13	0.007		<0.01	0.871	<0.0001		1990	31	79	325	2	22.2	261	<5	<1	<1	725	725	21.8	0.81	6.82				1050	LOR raised for Turbidimetric Sulfate due to matrix interference
		11/Sep/09	1438	13.05	13.27																																									
		30/Nov/09	1425	12.99	13.21	8.6	1537	22.8	<0.01	<0.001					<0.005		0.009	<0.05	<0.001	0.029	0.001			0.017	<0.0001	8.34	1640	16	43	284	6	16.8	149	10.8	<1	86	516	602	16.4	1.13		0.02	1.37	1.39		
		25/Feb/10	1020	13.19	13.41																																									
		03/May/10	1500	13.15	13.37	8.27	1490	22.5		0.002	0.069	<0.001		0.0001	<0.001	<0.001	0.004	6.2	0.003	0.111	0.003		<0.01	1.27	<0.0001		1390	19	43	266	4	16.2	137	13.6	<1	15	567	582	15.8	1.17	3.1				750	
		24/Sep/10	1035	13.22	13.44	8.71	873	23.7																																						From bore
		10/Nov/10	1210	13.13	13.35	7.07	891	25.9																																						
		07/Mar/11	1010	13.18	13.4	7.37	1867	24	0.49	<0.001					<0.001		0.054	17.4	0.004	0.427	0.007			0.842	<0.0001	7.38	1780	28	68	274	10	19.1	213	2	<1	<1	744	744	20.9	4.48		0.01	0.04	0.05		Plant material in water
		03/May/11	1440	13.15	13.37	7.45	1657	20.8																																						
		01/Sep/11	1310	13.23	13.45	7.65	1720	22.9	1.03	<0.001	0.106	<0.001		0.0002	0.001	<0.001	0.008	6.08	0.006	0.226	0.002		<0.01	0.148	<0.0001	8.57	2130	34	70	277	3	19.6	260	4	<1	83	591	674	20.9	3.25	9.19	0.02	0.14	0.16	1030	Gate No 4
		06/Dec/11	0950	13.13	13.35	7.66	1390	21.1																																						
		21/Mar/12	0945	13.08	13.3	7.92	885	24	0.14	<0.001	0.044	<0.001		<0.0001	0.001	<0.001	0.016	3.84	0.001	0.212	0.001		<0.01	0.064	<0.0001	7.99	1150	17	26	190	11	11.5	71	6	<1	<1	489	489	11.9	1.6	21.7	0.02	0.12	0.14	556	
		24/May/12	1200	13.14	13.36	7.19	2150	21.9																																						
		04/Sep/12	0950	13.08	13.3	7.3	2150	20.7	0.34	<0.001	0.14	<0.001		<0.0001	<0.001	<0.001	0.044	20.4	0.002	0.154	0.002		<0.01	0.41	<0.0001	7.83	2290	42	87	318	7	23.3	235	2	<1	<1	926	926	25.2	3.97	43.2	<0.01	0.01	0.01	1180	
		13/Dec/12	945	13.13	13.35	7.61	1907	22.2																																						Brolga front paddock
		13/Mar/13	1030	12.98	13.2	7.73	1800	23.4	0.04	<0.001	0.086	<0.001		0.0002	<0.001	<0.001	0.006	5.3	<0.001	0.076	0.001		<0.01	0.121	<0.0001	7.72	1940	29	64	324	5	20.9	199	7	<1	<1	774	774	21.2	0.73	15	0.01	0.12	0.13	1000	
		10/Jul/13	1100	13.16	13.38	7.95	1692	20.6																																						
		30/Aug/13	1100	13.08	13.3	8.1	1690	21.7	0.23	0.001	0.079	<0.001	0.09	<0.0001	<0.001	<0.001	0.025	5.09	0.003	0.068	0.002	<0.01	<0.01	0.217	<0.0001	8.12	1860	29	71	302	4	20.5	214	5	<1	<1	678	678	19.7	2.05	9.09				922	
		12/Dec/13	1425	12.98	13.2	7.9	1730	22.7																																						
		26/Feb/14	1100	13.08	13.3	8.2	1830	22.6	0.2	0.002	0.095	<0.001	0.09	<0.0001	0.011	<0.001	0.096	4.2	0.008	0.097	0.004	<0.01	<0.01	0.217	<0.0001	8.38	1930	33	64	231	2	17.7	234	<1	<1	22	612	634	19.3	4.4	8.57				1010	
		19/Jun/14	1100	13.14	13.36	8	1694	20.5																																						
		11/Sep/14	1115	13.08	13.3	7.9	1800	21.7	0.05	0.002	0.081	<0.001	0.09	<0.0001	<0.001	<0.001	0.005	3.97	0.002	0.089	0.002	<0.01	<0.01	0.221	<0.0001	8.19	1930	31	72	258	2	18.8	242	2	<1	<1	615	615	19.2	1.12	5.67	0.05	0.63	0.68	976	
		28/Nov/14	1105	13.06	13.28	8.3	1476	22.6																																						
		03/Mar/15	1435	13.18	13.4	8.3	1630	23.7	0.04	0.001	0.054	<0.001	0.08	<0.0001	<0.001	<0.001	0.004	2.36	<0.001	0.069	0.002	<0.01	<0.01	0.12	<0.0001	8.23	1800	29	52	291	3	18.5	193	11	<1	<1	626	626	18.2	0.72	3.94	0.01	0.05	0.06	944	
		03/Jun/15	0835	13.15	13.37	8.2	1628	20.3																																						
		02/Sep/15	0950	13.08	13.3	8.3	1590	20.2	0.02	0.003	0.039	<0.001	0.07	<0.0001	<0.001	<0.001	0.003	1.41	<0.001	0.052	<0.001	<0.01	<0.01	0.034	<0.0001	8.35	1600	22	46	312	3	18.5	131	13	<1	15	586	601	16	7.36	2.47	<0.01	0.03	0.03	800	
		08/Dec/15	1000	13.18	13.4	8.3	1471	22																																						
		03/Mar/16	0920	13.18	13.4	8.3	1520	22.1	0.16	0.001	0.029	<0.001	<0.05	<0.0001	<0.001	<0.001	0.007	1.14	<0.001	0.062	0.002	<0.01	<0.01	0.046	<0.0001	8.48	1580	12	28	336	4	17.6	142	22	<1	29	551	580	16	4.61	1.14	0.02	0.04	0.06	876	
		25/May/16	1035	13.22	13.44	8.4	1480	20.5																																						
WB-13		13-Mar-13	1030	36.20	36.40	6.91	3410	25.6	0.02	<0.001	0.016	<0.001		<0.0001	<0.001	<0.001	0.016	<0.05	0.001	0.003	<0.001		<0.01	0.038	<0.0001	7.11	3620	263	79	422	4	38.1	853	90	<1	<1	438	438	34.7	4.68	<0.01	<0.01	2.55	2.55	2510	
		10-Jul-13	0950	33.22	33.42	6.77	3550	19.8																																						
		28-Aug-13	0950	38.50	38.70	6.9	3730	21.4	0.02	<0.001	0.016	<0.001	0.1	<0.0001	<0.001	<0.001	0.011	<0.001	<0.001	< 0.001	<0.001	<0.01	<0.01	0.013	0.0002	7.5	3730	276	86	384	4	37.7	857	100	<1	<1	422	422	34.7	4.11	<0.01				2400	
		12/Dec/13	1315	41.82	42.02	7.0	3460	23.7																																						
		26/Feb/14	1200	42.40	42.6	7.0	3460	23.5	<0.01	<0.001	0.016	<0.001	0.09	<0.0001	<0.001	<0.001	0.02	<0.05	0.003	<0.001	<0.001	<0.01	<0.01	0.026	0.0001	7.93	3690	250	76	324	4	32.9	773	92	<1	<1	405	405	31.8	1.73	<0.01				2390	
		12/Jun/14	0945	33.93	34.13	7.1	3540	17.1																																						
		11/Sep/14	1215	40.90	41.1	7	3380	22.8	0.02	<0.001	0.017	<0.001	0.09	<0.0001	0.001	<0.001	0.009	0.23	0.001	0.002	<0.001	<0.01	<0.01	0.012	0.0007	7.63	3570	233	72	341	4	32.5	787	97	<1	<1	386	386	31.9	0.87	0.02	<0.01	2.66	2.66	2200	
		27/Nov/14	1030	42.64	42.84	7.1	3510	23.1																																						
		04/Mar/15	1330	44.60	44.8	7	3500	23.9	<0.01	<0.001					<0.001		0.001	<0.05	<0.001	<0.001	<0.001			<0.005	<0.0001	7.32	3640	254	81	383	4	36.1	913	96	<1	<1	451	451	36.8	0.9		<0.01	2.51	2.51		
		03/Jun/15	0935	39.83	40.03	7	3410	20.7																																						
		15/Sep/15	1050	12.80	13	7.2	3410	21.4	0.03	<0.001	0.015	<0.001	0.1	<0.0001	0.011	<0.001	0.009	0.07	<0.001	<0.001	0.001	<0.01	<0.01	0.008	<0.0001	7.56	3610	255	75	369	4	35	821	87	<1	<1	463	463	34.2	1.21	0.05	<0.01	2.4	2.4	2470	
		08/Dec/15	1110	38.87	39.07	7.1	3590	22.9																																						
		03/Mar/16	1110	39.00	39.2	7.1	3540	23.4	0.06	<0.001	0.02	<0.001	0.07	<0.0001	<0.001	<0.001	0.022	0.13	0.006	0.005	<0.001	<0.01	<0.01	0.042	0.0003	7.62	3640	255	88	417	4	38.2	853	96	<1	<1	408	408	34.2	5.53	0.02	<0.01	2.66	2.66	2660	
		25/May/16	1235	31.96	32.16	7.1	3460	20.3																																						
WB-14		18-Dec-13	1320	10.16	10.46	7.6	1315	25.7																																						
		27-Feb-14	1015	22.90	23.20	7.8	1150	23	<0.01	0.009	0.401	<0.001	0.07	<0.0001	<0.001	<0.001	0.006	<0.05	<0.001	<0.001	<0.001	<0.01	0.07	0.012	<0.0001	7.83	1300	37	20	249	<1	14.3	113	12	<1	<1	488	488	13.2	4.09	0.02				751	
		12-Jun-14	1120	18.77	19.07	7.7	1260	21.2																																						
		11/Sep/14	1015	18.60	18.9	7.7	1280	21.5	0.02	0.011	0.421	<0.001	0.08	0.0002	0.001	<0.001	0.042	0.1	0.002	0.009	<0.001	<0.01	0.07	0.033	<0.0001	7.97	1330	35	18	217	2	12.7	126	12	<1	<1	452	452	12.8	0.5	0.02	<0.01	1.27	1.27	754	
		27/Nov/14	1300	13.73	14.03	7.7	1288	23.5																																						
		04/Mar/15	1100	23.00	23.3	7.8	1280	22.5	<0.01	0.011					<0.001		0.004	<0.05	<0.001	<0.001	<0.001			0.016	<0.0001	7.84	1350	33	19	240	2	13.7	120	12	<1	<1	511	511	13.8	0.56		<0.01	1.53	1.53		
		03/Jun/15	1055	22.15	22.45	7.7	1260	20.6																																						
		03/Sep/15	1200	14.90	15.2	7.5	1260	14.3	<0.01	0.011	0.367	<0.001	0.07	<0.0001	<0.001	<0.001	0.008	<0.05	<0.001	0.001	<0.001	<0.01	0.06	0.017	<0.0001	7.78	1290	43	22	227	2	13.9	68	16	<1	<1	521	521	12.7	4.56	0.03	<0.01	1.13	1.13	690	
		08/Dec/15	1205	21.22	21.52	7.6	1309	23.4																																						
		03/Mar/16	1400	21.90	22.2	7.6	1290	25.6	0.05	0.011	0.38	<0.001	0.06	<0.0001	0.001	<0.001	0.096	0.22	0.015	0.007	<0.001	<0.01	0.07	0.079	<0.0001	8.06	1290	34	21	244	2	14.1	117	12	<1	<1	460	460	12.7	4.98	0.1	<0.01	0.93	0.93	668	
		25/May/16	1310	22.07	22.37	7.6	1295	21.4																																						
WB-15		11-Jul-14	1525	27.62	27.74																																									
		26-Aug-14	1300	30.11	30.23																																									
		11-Sep-14	1330	30.28	30.40	6.9	1390	22.1	0.52	0.002	0.198	<0.001	0.07	0.0002	0.003	0.003	0.301	12	0.072	0.621	0.008	<0.01	0.01	4.8	<0.0001	7.55	1440	140	46	94	1	14.9	121	92	<1	<1	471	471	14.7	0.5	0.55	0.02	0.16	0.18	790	
		27-Nov-14	1355	27.13	27.25	7	1403	21.9																																						
		4-Mar-15	1400	27.08	27.20	7.4	1280	22.9	<0.01	<0.001					<0.001		0.002	<0.05	<0.001	0.002	<0.001			0.006	<0.0001	8.19	1360	59	58	132	2	13.5	179	53	<1	<1	387	387	13.9	1.38		<0.01	0.84	0.84		
		3-Jun-15	900	27.25	27.37	7.2	1380	19.8																																						
		15-Sep-15	1155	26.88	27.00	7.6	1410	18.9	<0.01	<0.001	0.138	<0.001	0.08	<0.0001	<0.001	0.001	0.002	0.36	<0.001	0.229	<0.001	<0.01	<0.01	0.032	<0.0001	8.01	1420	131	55	114	2	16.1	149	50	<1	<1	518	518	15.6	1.51	0.15	0.01	0.54	0.55	862	
		08/Dec/15	1230	27.28	27.4	7.1	1404	22.8																																						
		03/Mar/16	1015	27.88	28	8	1290	25	0.01	<0.001	0.137	<0.001	0.06	<0.0001	<0.001	<0.001	0.004	0.38	<0.001	0.142	<0.001	<0.01	<0.01	0.054	<0.0001	8.15	1320	101	60	118	2	15.2	143	66	<1	<1	408	408	13.6	5.57	0.08	<0.01	0.42	0.42	740	
		25/May/16	11:05	31.97	32.09	7.7	1382	17.2																																						
WB-12		3-Sep-08	1555	55.24	56.06																																									
		13-Oct-08	1310	50.18	51.00																																									
		29-Oct-08				7.35	4030	24		<0.001		0.1	<0.001	0.0002	0.001	<0.001	0.005	0.11	<0.001	0.011	0.011		<0.01	0.013	0.0001			51	50	558	3	39.4	987	46	<1	<1	372	372	36.2	4.12	0.1					
		29-Oct-08								0.003		0.104	<0.001	<0.0001	<0.001	<0.001	0.004	0.08	<0.001	0.011	<0.001		<0.01	0.016	<0.0001			214	50	563	3	39.3	1040	46	<1	<1	374	374	37.8	1.94	<0.01					
		23-Jan-09	1714	49.90	50.58																																									
		22-Jun-09	1120		>50	7.10	3580	21.3	Sample not analysed due to lab administrative error																																					
		27-Aug-09	1500			7.34	3330	22.1		<0.001		0.061	<0.001	<0.0001	<0.001	<0.001	0.013	<0.05	<0.001	0.026	<0.001		<0.01	0.041	<0.0001		3070	167	32	504	3	33	803	42.9	<1	<1	430	430	32.1	1.31	<0.01				1980	
		30/Nov/09	1005			7.25	3480	27.4	<0.01	<0.001					<0.005	0.004		<0.05	<0.001	<0.001	<0.001			0.006	<0.0001	7.2	3160	178	35	508	3	33.9	882	34.7	<1	<1	377	377	33.1	1.19		<0.01	0.51	0.51		
		25/Feb/10	1330	ore equipped																																										Bore covered by pump unable to dip. Sample taken from tap
		03/May/10	1205	ore equipped		7.52	3520	22		<0.001		0.063	<0.001	<0.0001	<0.001	<0.001	0.005	<0.05	<0.001	0.018	<0.001		<0.01	0.007	<0.0001		3310	175	32	528	3	34.4	930	52.4	<1	<1	314	314	33.6	1.14	<0.01				1900	ore covered by pump unable to dip, sampled from pump outlet
		26/Aug/10	1105	ore equipped		7.42	3340	Probe Broken																																						Bore covered by pump unable to dip. Sample taken from tap
		08/Nov/10	1320	ore equipped		PUMP SWITCHED OFF																																								Unable to obtain tap sample without pump
		07/Mar/11	1350	ore equipped		6.97	2880	27.1	<0.01	<0.001					<0.001		0.007	<0.05	0.003	0.002	<0.001			0.039	<0.0001	7.29	3410	180	35	530	4	35	877	38	<1	<1	409	409	33.7	1.88		<0.01	0.3	0.3		Bore covered by pump unable to dip. Sample taken from tap
		03/May/11	1115	ore equipped		7.00	2930	20.2																																						Bore covered by pump unable to dip. Sample taken from tap
		30/Aug/11	1200	ore equipped		7.00	2780	18.8	<0.01	<0.001		0.071	<0.001	<0.0001	<0.001	<0.001	0.007	<0.05	<0.001	0.005	<0.001		<0.01	0.08	<0.0001	7.25	3800	190	34	526	3	35.2	990	44	<1	<1	384	384	36.5	1.78	<0.01	<0.01	0.23	0.23	2020	Bore covered by pump unable to dip. Sample taken from tap
		04/Nov/11	1200	ore equipped		7.10	2790	18.8																																						
		20/Mar/12	1200	ore equipped		6.92	3380	25.2	<0.01	0.001		0.084	<0.001	<0.0001	<0.001	<0.001	0.012	<0.05	<0.001	0.002	<0.001		<0.01	0.047	<0.0001	7.37	3800	213	42	591	4	39.9	1000	51	<1	<1	405	405	37.4	3.28	0.05	<0.01	0.46	0.46	2320	
		23/May/12	1230	ore equipped		7.51	3330	20.5																																						
		27/Aug/12	1150	Tap in yard		7.11	3390	20.1	<0.01	<0.001		0.078	<0.001	<0.0001	<0.001	<0.001	0.003	<0.05	<0.001	0.002	<0.001		<0.01	0.007	<0.0001	7.46	3680	194	36	553	3	36.8	949	50	<1	<1	433	433	36.5	0.42	<0.01	<0.01	0.39	0.39	2160	

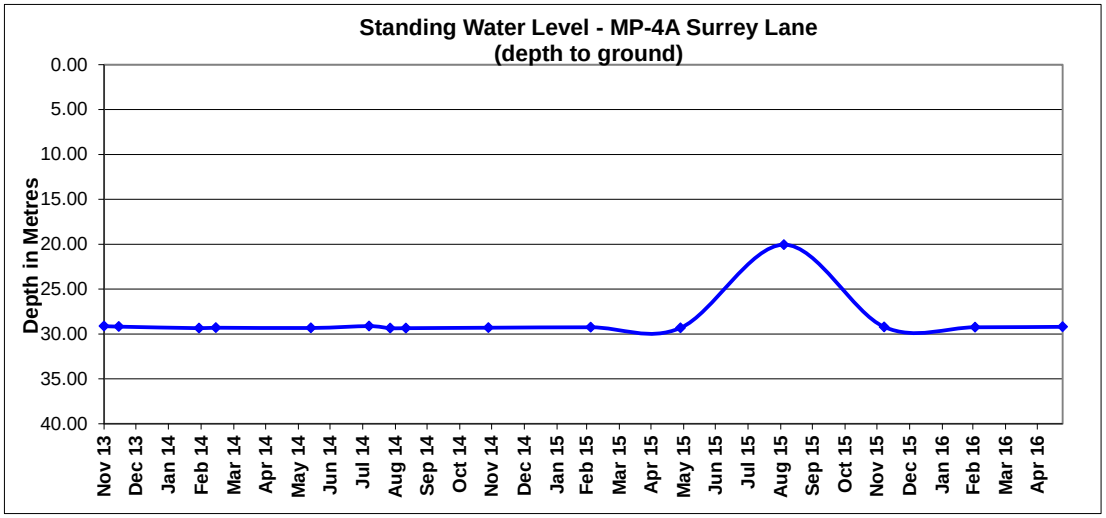
		26/Nov/12	1115	Tap in yard		7.05	3360	25.6																																				
		12/Mar/13	1150	Tap in yard		7.04	3420	25.4	<0.01	<0.001		0.071	<0.001	<0.0001	<0.001	<0.001	0.004	<0.05	<0.001	<0.001	<0.001		<0.01	0.008	<0.0001	7.6	3700	193	40	558	4	37.3	896	42	<1	<1	312	312	34.2	4.3	0.08	<0.01	25.6	25.6	2330
		12/Jun/13	0950	Pump over bore		7.23	3510	18.1																																				
		28/Aug/13	1245	Pump over bore		6.9	3430	20.8	<0.01	<0.001	0.11	0.077	<0.001	<0.0001	<0.001	<0.001	0.006	<0.05	<0.001	<0.001	<0.001	<0.01	<0.01	0.007	<0.0001	7.49	3720	207	40	516	4	36.2	887	47	<1	<1	408	408	34.2	2.87	0.02				2140
		11/Dec/13	1335	Pump over bore		7.0	3630	24.5																																				
		24/Feb/14	1330	Pump over bore		6.9	3490	25.3	<0.01	<0.001	0.09	0.078	<0.001	<0.0001	<0.001	<0.001	0.017	<0.05	<0.001	0.003	<0.001	<0.01	<0.01	0.024	<0.0001	7.55	3730	182	40	516	3	34.9	867	48	<1	<1	408	408	33.6	1.88	0.01				2160
		12/Jun/14	1310	Pump over bore		7.0	3590	21.7																																				
		10/Sep/14	1150	Pump over bore		6.9	3620	19	0.01	<0.001	0.09	0.093	<0.001	<0.0001	<0.001	<0.001	0.111	<0.05	0.014	0.02	0.001	<0.01	<0.01	0.115		7.32	3720	195	37	482	3	33.8	891	48	<1	<1	443	443	35	1.69	0.04	<0.01	0.4	0.4	2100
		28/Nov/14	1230	Pump over bore		7	3550	28.2																																				
		03/Mar/15	1100	Pump over bore		7.1	3520	25.4	0.01	<0.001	0.09	0.08	<0.001	<0.0001	<0.001	<0.001	0.004	<0.05	<0.001	0.01	<0.001	<0.01	<0.01	0.06	<0.0001	7.48	3820	206	41	566	3	38.4	980	50	<1	<1	417	417	37	1.77	0.03	<0.01	0.67	0.67	2310
		29/May/15	1020	Pump over bore		6.9	3630	19.4																																				
		03/Sep/15	0950	Pump over bore		6.9	3590	21.4	<0.01	<0.001	0.09	0.079	<0.001	<0.0001	<0.001	<0.001	0.004	0.16	<0.001	0.01	<0.001	<0.01	<0.01	0.008	<0.0001	7.32	3720	208	39	512	3	35.9	709	44	<1	<1	426	426	29.4	9.96	0.04	<0.01	0.33	0.33	2120
		07/Dec/15	1150	Pump over bore		7.1	3550	25.3																																				
		02/Mar/16	1355	Pump over bore		7	3470	25.3	0.09	0.002	0.09	0.108	<0.001	0.0016	<0.001	<0.001	0.006	0.14	<0.001	0.031	<0.001	<0.01	<0.01	0.028	<0.0001	7.43	3710	184	40	532	3	35.7	907	49	<1	<1	381	381	34.2	2.11	0.05	<0.01	0.32	0.32	2480
		24/May/16	1345	Pump over bore		7	3540	23.6																																				
Surrey No 2		25-Feb-10	1100	38.13	38.44																																							
		26-Aug-10	930	34.66	34.97	7.25	3140	16.8																																				
		9-Nov-10	1400	34.92	35.23	6.92	2380	25.7																																				
		7-Mar-11	1100	35.66	35.97	7.2	2710	24.9	0.62	<0.001					<0.001		0.074	0.82	0.004	0.044	0.001			0.154	<0.0001	7.15	3180	104	92	465	10	33.2	751	43	<1	<1	545	545	33	0.33		<0.01	1.54	1.54	
		3-May-11				No Access. Gate Locked.																																							
		1-Sep-11	1110	35.11	35.42	7.15	2760	23.6	0.22	<0.001	0.058	<0.001		<0.0001	<0.001	<0.001	0.004	0.37	<0.001	0.012	<0.001		0.02	0.022	<0.0001	7.97	3320	100	88	475	8	33.1	763	50	<1	<1	402	402	30.6	3.92	0.04	<0.01	1.59	1.59	1670
		21-Mar-12	1320	34.49	34.80	7.6	1520	24.2	5.9	0.004	0.082	<0.001		<0.0001	0.008	0.003	0.033	8.88	0.004	0.102	0.005		0.05	0.062	<0.0001	7.88	1630	36	26	291	9	16.8	341	62	<1	<1	235	235	15.6	3.74	0.18	<0.01	9.4	9.4	1000
		24/May/12	1225	34.59	34.9	7.2	2790	21.8																																				
		28/Aug/12	1100	34.29	34.6	7.15	3090	22.1	0.09	<0.001	0.086	<0.001		<0.0001	<0.001	<0.001	0.013	0.16	<0.001	0.009	0.001		0.02	0.103	<0.0001	7.77	3490	111	94	495	10	35.1	829	58	<1	<1	558	558	35.7	0.97	<0.01	<0.01	1.89	1.89	1850
		27/Nov/12	1325	34.94	35.25	7.34	3100	22.6																																				
		13/Mar/13	1030	35.69	36	7.44	3250	24.5	0.13	<0.001	0.084	<0.001		<0.0001	<0.001	<0.001	0.036	0.38	0.003	0.011	<0.001		0.02	0.103	<0.0001	7.41	3540	111	100	525	11	36.9	779	53	<1	<1	544	544	34	4.14	0.02	<0.01	1.81	1.81	1910
		20/Jun/13	1315	34.07	34.38	7.35	3310	20.7																																				
		30/Aug/13	0855	33.29	33.6	7.21	3110	21.7	3.34	0.003	0.117	<0.001	0.11	0.0001	0.005	0.002	0.277	6.74	0.026	0.09	0.005	<0.01	0.04	0.256	<0.0001	7.72	3360	109	97	513	9	36	775	56	<1	<1	480	480	32.6	4.87	<0.01				1800
		12/Dec/13	1220	34.55	34.86	7.3	3420	23.1																																				
		26/Feb/14	1250	33.59	33.9	7.3	3060	23.2	12.4	0.003	0.239	<0.001	0.11	0.0002	0.031	0.014	0.791	29	0.059	0.241	0.023	<0.01	0.12	0.653	0.0002	7.47	3430	105	92	513	8	35.3	771	56	<1	<1	524	524	33.4	2.82	0.01				1820
		12/Jun/14	1000	32.74	33.05	7.3	3310	21.1																																				
		11/Sep/14	1230	34.29	34.6	7.2	3620	22.3	1.07	0.002	0.136	<0.001	0.11	<0.0001	0.003	0.002	0.047	1.52	0.005	0.059	0.012	<0.01	0.02	0.126	<0.0001	7.83	3720	118	103	450	10	34.2	792	58	<1	<1	462	462	32.8	2.1	0.03	<0.01	2.12	2.12	1980
		27/Nov/14	925	34.33	34.64	7.4	3170	22.3																																				
		04/Mar/15	1245	34.29	34.6	7.4	3210	23.8	<0.01	<0.001					<0.001		0.002	<0.05	<0.001	0.01	<0.001			0.015	<0.0001	7.51	3410	112	100	475	9	34.7	809	56	<1	<1	542	542	34.8	0.16		<0.01	1.62	1.62	
		03/Jun/15	1030	32.49	32.8	7.4	3210	21.2																																				
		03/Sep/15	1125	32.49	32.8	7.2	3400	20.9	0.09	<0.001	0.106	<0.001	0.11	<0.0001	<0.001	<0.001	0.003	0.14	<0.001	0.022	0.002	<0.01	0.02	0.059	<0.0001	7.53	3560	122	102	481	9	35.6	653	52	<1	<1	520	520	29.9	8.75	0.04	<0.01	1.96	1.96	1920
		08/Dec/15	1030	32.9	33.21	7.1	3460	23																																				
		03/Mar/16	1135	34.19	34.5	7.4	3120	23.6	0.14	<0.001	0.065	<0.001	0.09	<0.0001	<0.001	<0.001	0.014	0.43	<0.001	0.022	<0.001	<0.01	0.02	0.06	<0.0001	7.82	3400	102	101	488	9	34.8	734	55	<1	<1	508	508	32	4.26	0.04	0.01	1.45	1.46	1940
		25/May/16	1135	32.47	32.78	7.4	3130	21.8																																				

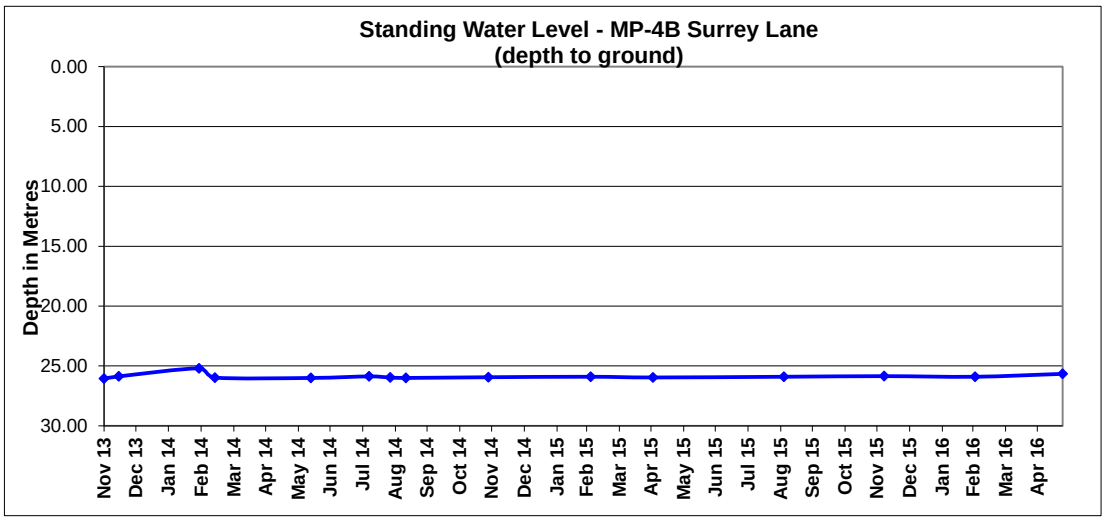

Standing Water Level - MP-2 Rocglen Coal Mine
(depth from ground)
Depth in Metres
0.00
5.00
10.00
15.00
20.00
Sep 08
Dec 08
Mar 09
Jun 09
Sep 09
Dec 09
Mar 10
Jun 10
Sep 10
Dec 10
Mar 11
Jun 11
Sep 11
Dec 11
Mar 12
Jun 12
Sep 12
Dec 12
Mar 13
Jun 13
Sep 13
Dec 13
Mar 14
Jun 14
Sep 14
Dec 14
Mar 15
Jun 15
Sep 15
Dec 15
Mar 16

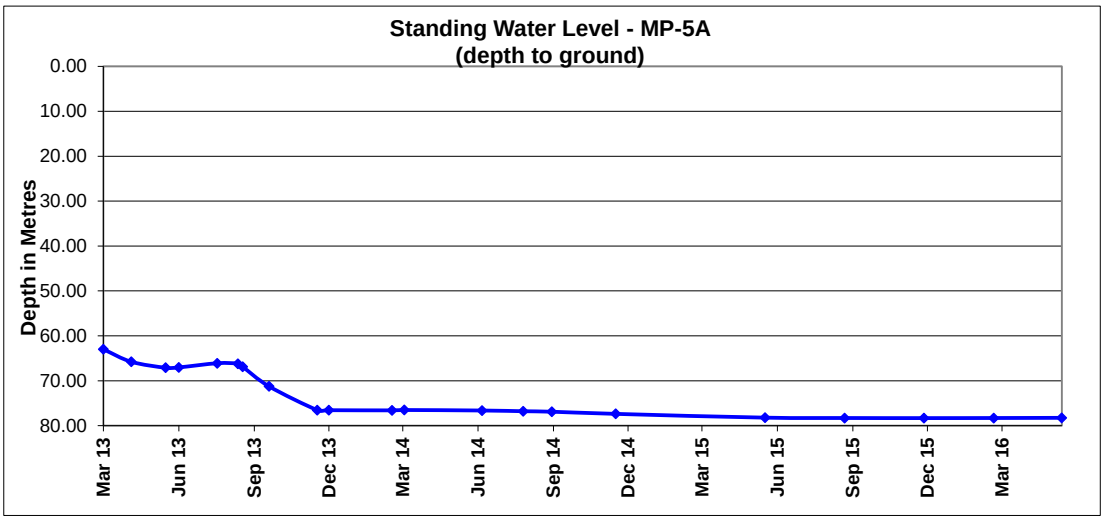

Standing Water Level - MP-2 A
(depth from ground)
Depth in Metres
0.00
5.00
10.00
15.00
20.00
25.00
Mar 13
Jun 13
Sep 13
Dec 13
Mar 14
Jun 14
Sep 14
Dec 14
Mar 15
Jun 15
Sep 15
Dec 15
Mar 16

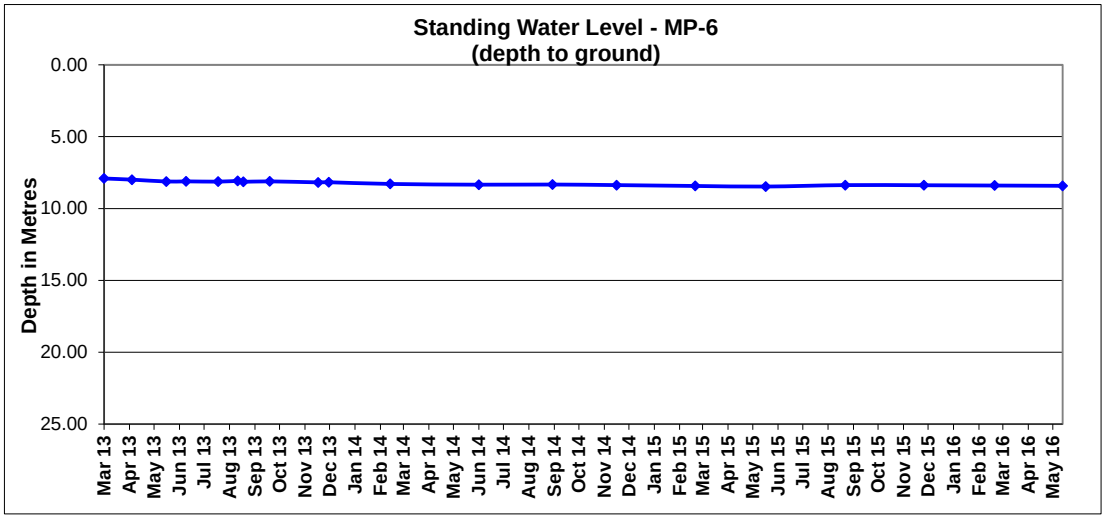

Standing Water Level - MP-3 Stratford
(depth to ground)
Depth in Metres
0.00
5.00
10.00
15.00
20.00
25.00
Sep 08
Dec 08
Mar 09
Jun 09
Sep 09
Dec 09
Mar 10
Jun 10
Sep 10
Dec 10
Mar 11
Jun 11
Sep 11
Dec 11
Mar 12
Jun 12
Sep 12
Dec 12
Mar 13
Jun 13
Sep 13
Dec 13
Mar 14
Jun 14
Sep 14
Dec 14
Mar 15
Jun 15
Sep 15
Dec 15
Mar 16

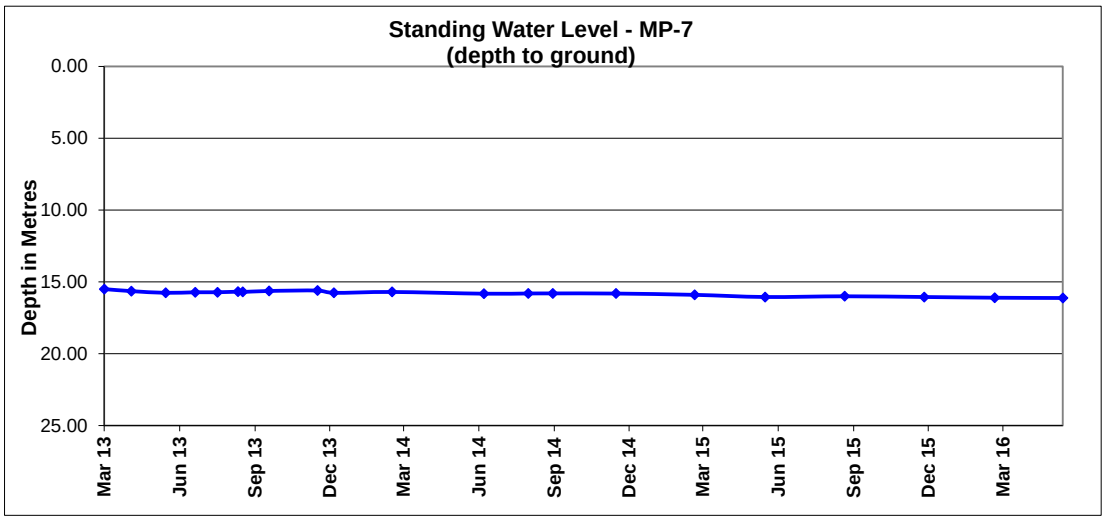

Standing Water Level - MP-3A
(depth to ground)
Depth in Metres
0.00
5.00
10.00
15.00
20.00
25.00
Mar 13
May 13
Jul 13
Sep 13
Nov 13
Jan 14
Mar 14
May 14
Jul 14
Sep 14
Nov 14
Jan 15
Mar 15
May 15
Jul 15
Sep 15
Nov 15
Jan 16
Mar 16
May 16

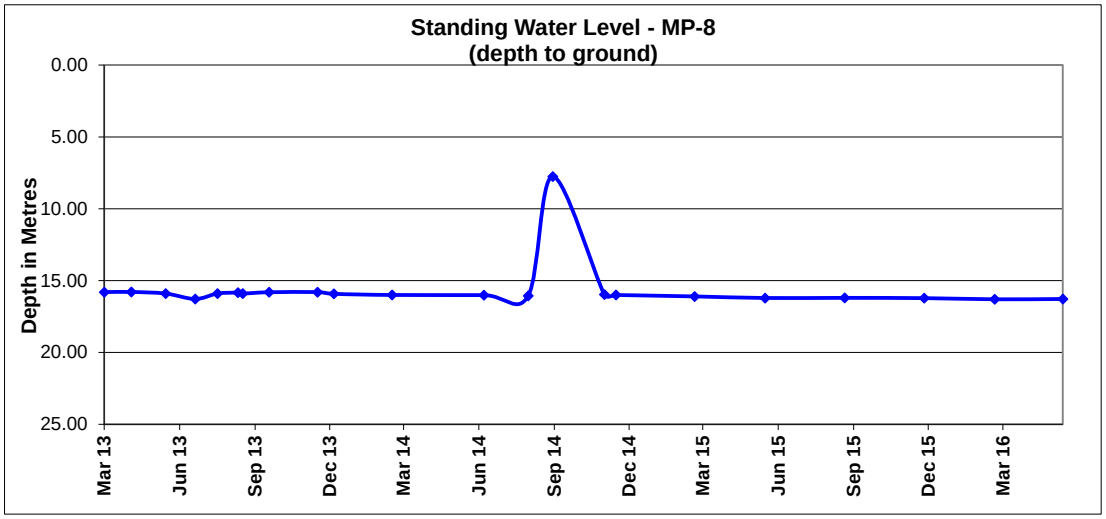

Standing Water Level - MP-4A Surrey Lane
(depth to ground)
Depth in Metres
0.00
5.00
10.00
15.00
20.00
25.00
30.00
35.00
40.00
Nov 13
Dec 13
Jan 14
Feb 14
Mar 14
Apr 14
May 14
Jun 14
Jul 14
Aug 14
Sep 14
Oct 14
Nov 14
Dec 14
Jan 15
Feb 15
Mar 15
Apr 15
May 15
Jun 15
Jul 15
Aug 15
Sep 15
Oct 15
Nov 15
Dec 15
Jan 16
Feb 16
Mar 16
Apr 16

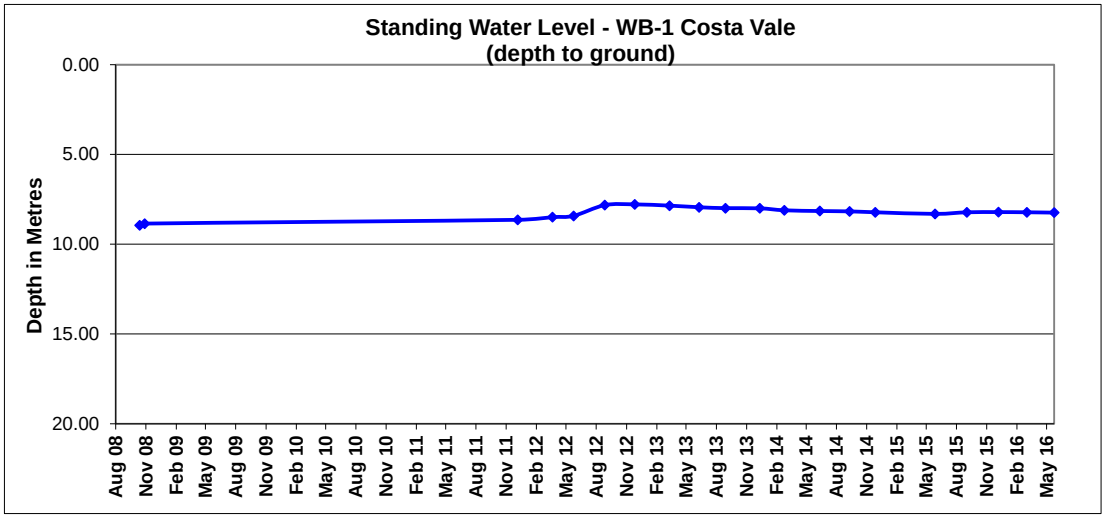

Standing Water Level - MP-4B Surrey Lane
(depth to ground)
Depth in Metres
0.00
5.00
10.00
15.00
20.00
25.00
30.00
Nov 13
Dec 13
Jan 14
Feb 14
Mar 14
Apr 14
May 14
Jun 14
Jul 14
Aug 14
Sep 14
Oct 14
Nov 14
Dec 14
Jan 15
Feb 15
Mar 15
Apr 15
May 15
Jun 15
Jul 15
Aug 15
Sep 15
Oct 15
Nov 15
Dec 15
Jan 16
Feb 16
Mar 16
Apr 16

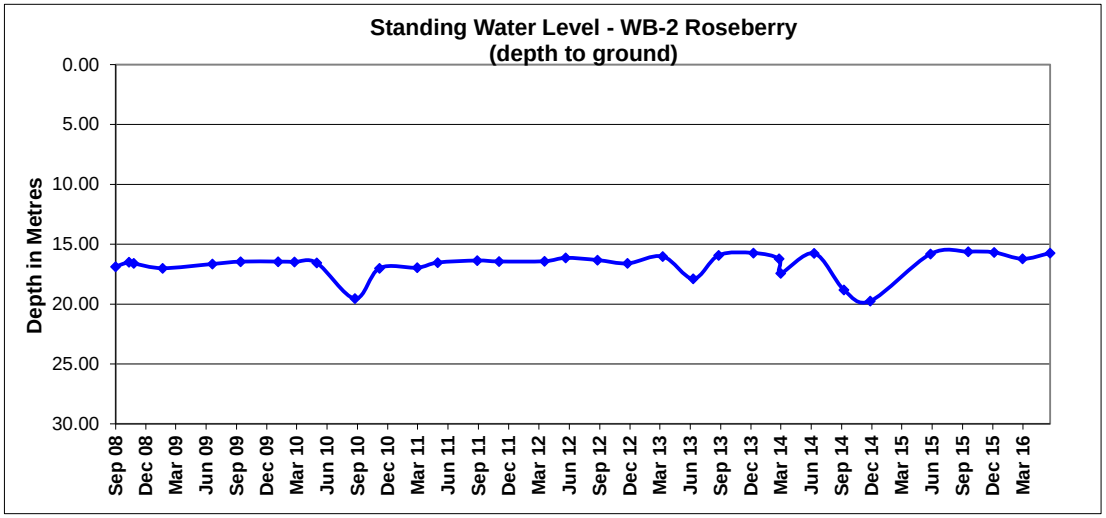

Standing Water Level - MP-5A
(depth to ground)
Depth in Metres
0.00
10.00
20.00
30.00
40.00
50.00
60.00
70.00
80.00
Mar 13
Jun 13
Sep 13
Dec 13
Mar 14
Jun 14
Sep 14
Dec 14
Mar 15
Jun 15
Sep 15
Dec 15
Mar 16

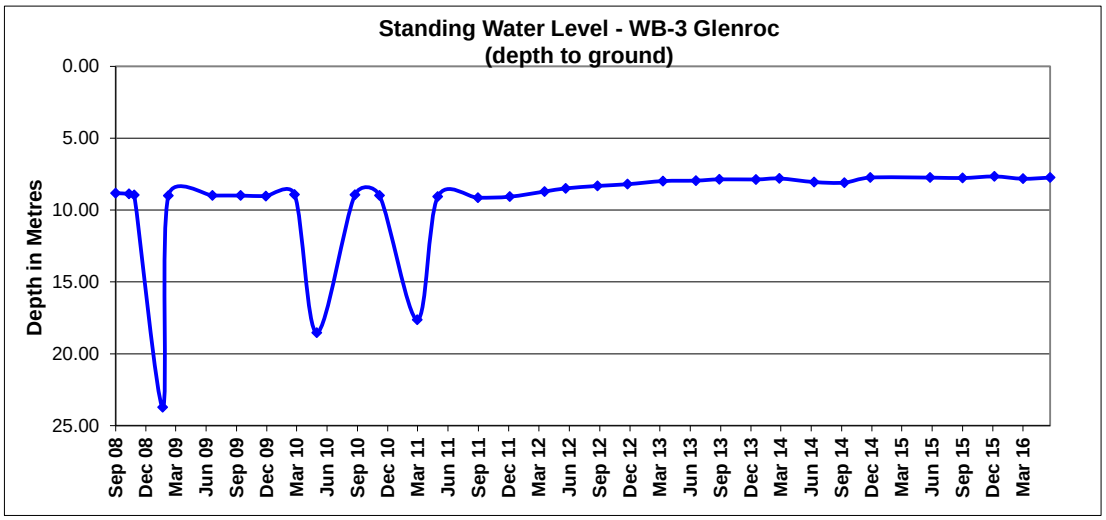

Standing Water Level - MP-6
(depth to ground)
Depth in Metres
0.00
5.00
10.00
15.00
20.00
25.00
Mar 13
Apr 13
May 13
Jun 13
Jul 13
Aug 13
Sep 13
Oct 13
Nov 13
Dec 13
Jan 14
Feb 14
Mar 14
Apr 14
May 14
Jun 14
Jul 14
Aug 14
Sep 14
Oct 14
Nov 14
Dec 14
Jan 15
Feb 15
Mar 15
Apr 15
May 15
Jun 15
Jul 15
Aug 15
Sep 15
Oct 15
Nov 15
Dec 15
Jan 16
Feb 16
Mar 16
Apr 16
May 16

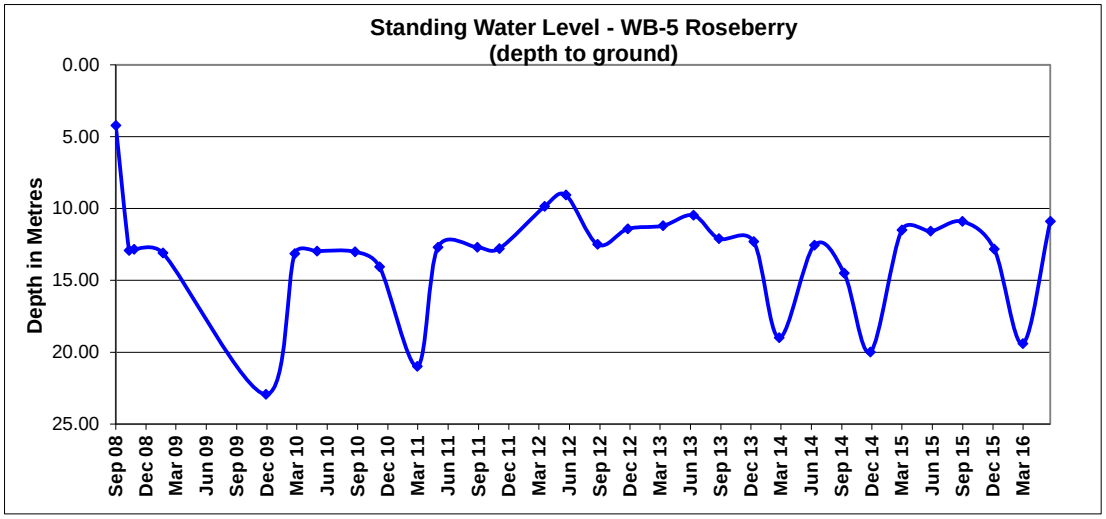

Standing Water Level - MP-7
(depth to ground)
Depth in Metres
0.00
5.00
10.00
15.00
20.00
25.00
Mar 13
Jun 13
Sep 13
Dec 13
Mar 14
Jun 14
Sep 14
Dec 14
Mar 15
Jun 15
Sep 15
Dec 15
Mar 16

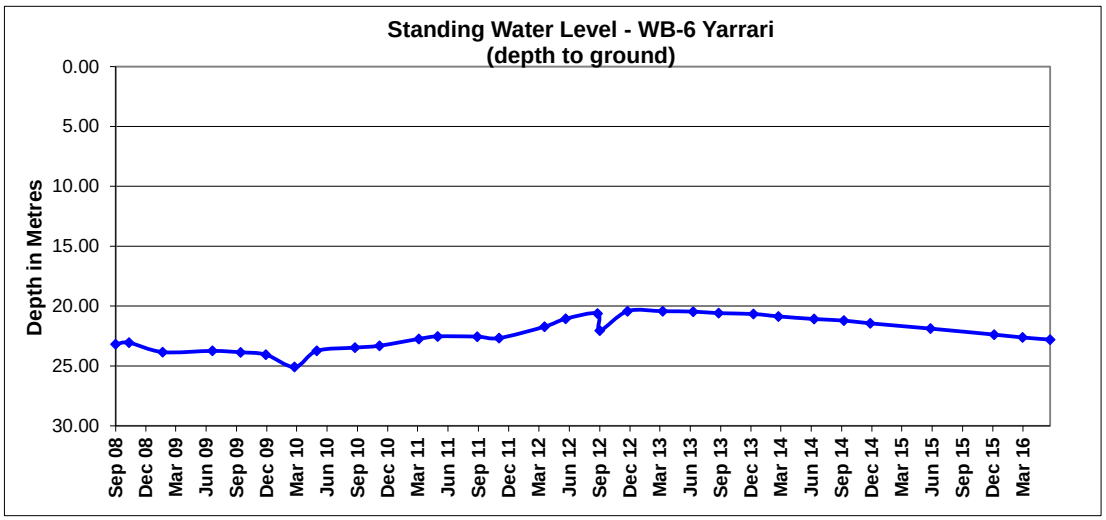

Standing Water Level - MP-8
(depth to ground)
Depth in Metres
0.00
5.00
10.00
15.00
20.00
25.00
Mar 13
Jun 13
Sep 13
Dec 13
Mar 14
Jun 14
Sep 14
Dec 14
Mar 15
Jun 15
Sep 15
Dec 15
Mar 16

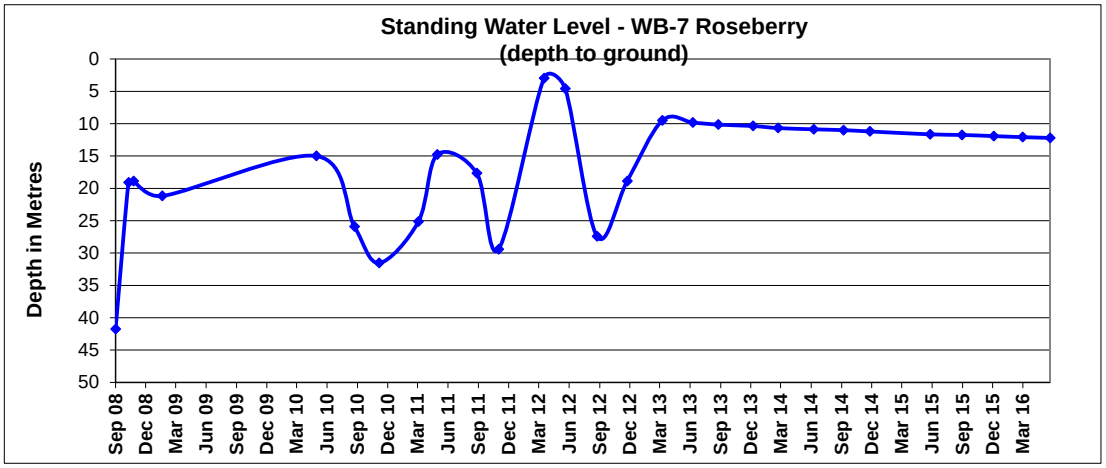

Standing Water Level - WB-1 Costa Vale
(depth to ground)
Depth in Metres
0.00
5.00
10.00
15.00
20.00
Aug 08
Nov 08
Feb 09
May 09
Aug 09
Nov 09
Feb 10
May 10
Aug 10
Nov 10
Feb 11
May 11
Aug 11
Nov 11
Feb 12
May 12
Aug 12
Nov 12
Feb 13
May 13
Aug 13
Nov 13
Feb 14
May 14
Aug 14
Nov 14
Feb 15
May 15
Aug 15
Nov 15
Feb 16
May 16

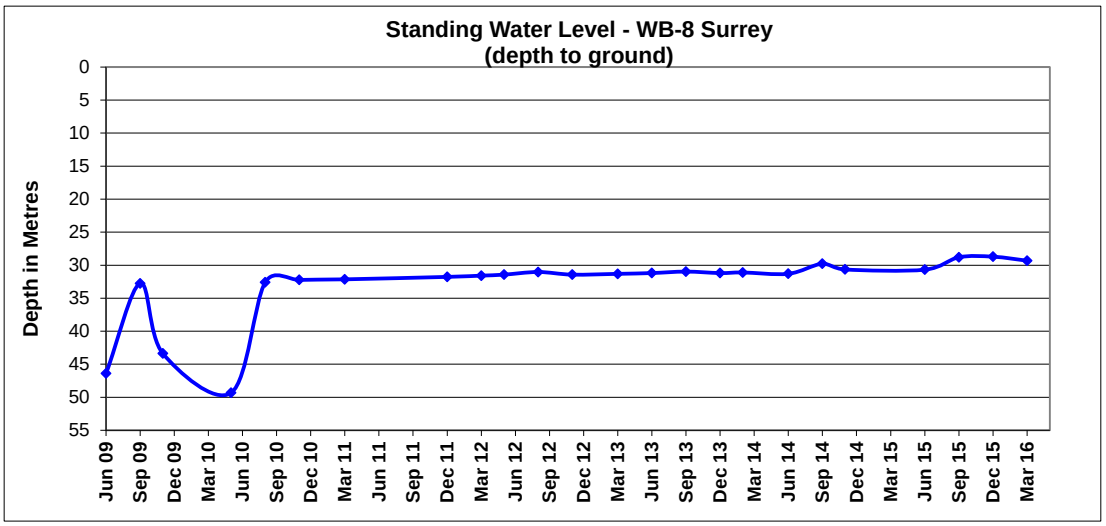

Standing Water Level - WB-2 Roseberry
(depth to ground)
Depth in Metres
0.00
5.00
10.00
15.00
20.00
25.00
30.00
Sep 08
Dec 08
Mar 09
Jun 09
Sep 09
Dec 09
Mar 10
Jun 10
Sep 10
Dec 10
Mar 11
Jun 11
Sep 11
Dec 11
Mar 12
Jun 12
Sep 12
Dec 12
Mar 13
Jun 13
Sep 13
Dec 13
Mar 14
Jun 14
Sep 14
Dec 14
Mar 15
Jun 15
Sep 15
Dec 15
Mar 16

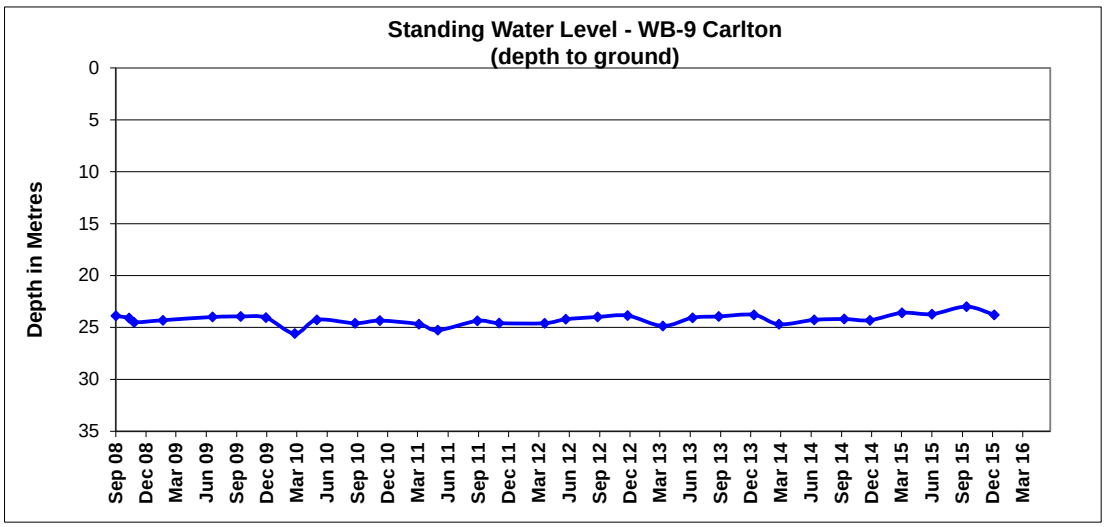

Standing Water Level - WB-3 Glenroc
(depth to ground)
Depth in Metres
0.00
5.00
10.00
15.00
20.00
25.00
Sep 08
Dec 08
Mar 09
Jun 09
Sep 09
Dec 09
Mar 10
Jun 10
Sep 10
Dec 10
Mar 11
Jun 11
Sep 11
Dec 11
Mar 12
Jun 12
Sep 12
Dec 12
Mar 13
Jun 13
Sep 13
Dec 13
Mar 14
Jun 14
Sep 14
Dec 14
Mar 15
Jun 15
Sep 15
Dec 15
Mar 16

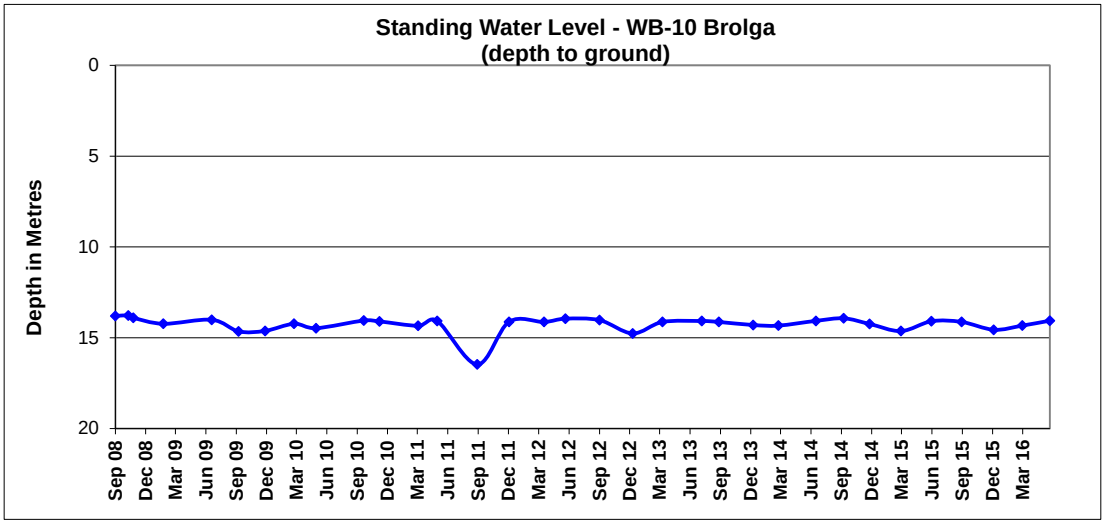

Standing Water Level - WB-5 Roseberry
(depth to ground)
Depth in Metres
0.00
5.00
10.00
15.00
20.00
25.00
Sep 08
Dec 08
Mar 09
Jun 09
Sep 09
Dec 09
Mar 10
Jun 10
Sep 10
Dec 10
Mar 11
Jun 11
Sep 11
Dec 11
Mar 12
Jun 12
Sep 12
Dec 12
Mar 13
Jun 13
Sep 13
Dec 13
Mar 14
Jun 14
Sep 14
Dec 14
Mar 15
Jun 15
Sep 15
Dec 15
Mar 16

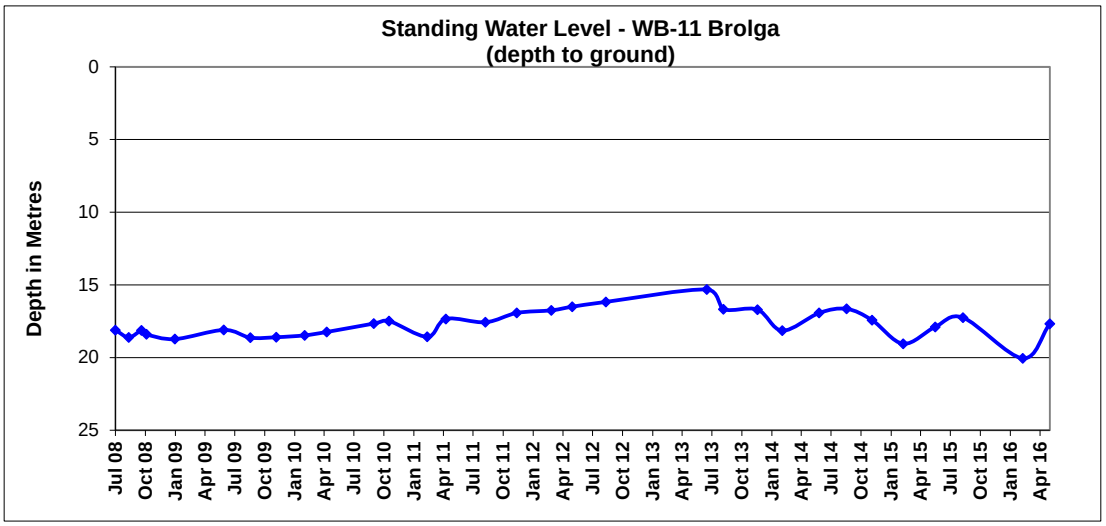

Standing Water Level - WB-6 Yarrari
(depth to ground)
Depth in Metres
0.00
5.00
10.00
15.00
20.00
25.00
30.00
Sep 08
Dec 08
Mar 09
Jun 09
Sep 09
Dec 09
Mar 10
Jun 10
Sep 10
Dec 10
Mar 11
Jun 11
Sep 11
Dec 11
Mar 12
Jun 12
Sep 12
Dec 12
Mar 13
Jun 13
Sep 13
Dec 13
Mar 14
Jun 14
Sep 14
Dec 14
Mar 15
Jun 15
Sep 15
Dec 15
Mar 16

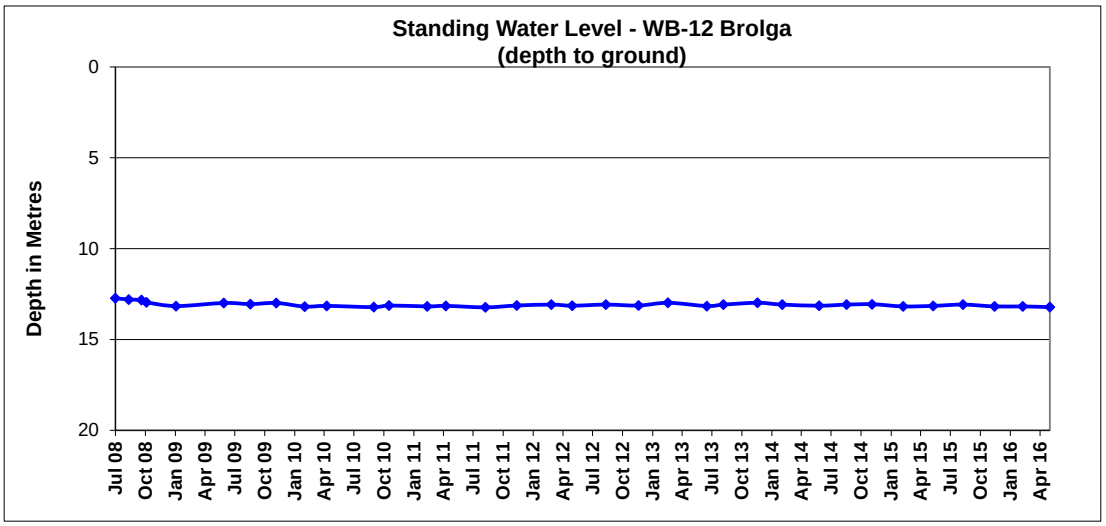

Standing Water Level - WB-7 Roseberry
(depth to ground)
Depth in Metres
0
5
10
15
20
25
30
35
40
45
50
Sep 08
Dec 08
Mar 09
Jun 09
Sep 09
Dec 09
Mar 10
Jun 10
Sep 10
Dec 10
Mar 11
Jun 11
Sep 11
Dec 11
Mar 12
Jun 12
Sep 12
Dec 12
Mar 13
Jun 13
Sep 13
Dec 13
Mar 14
Jun 14
Sep 14
Dec 14
Mar 15
Jun 15
Sep 15
Dec 15
Mar 16

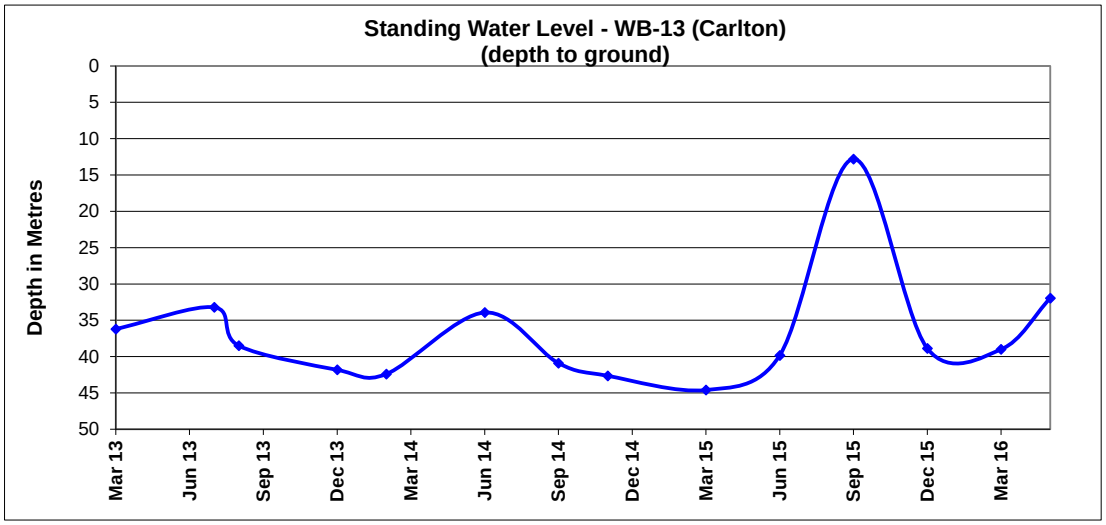

Standing Water Level - WB-8 Surrey
(depth to ground)
Depth in Metres
0
5
10
15
20
25
30
35
40
45
50
55
Jun 09
Sep 09
Dec 09
Mar 10
Jun 10
Sep 10
Dec 10
Mar 11
Jun 11
Sep 11
Dec 11
Mar 12
Jun 12
Sep 12
Dec 12
Mar 13
Jun 13
Sep 13
Dec 13
Mar 14
Jun 14
Sep 14
Dec 14
Mar 15
Jun 15
Sep 15
Dec 15
Mar 16

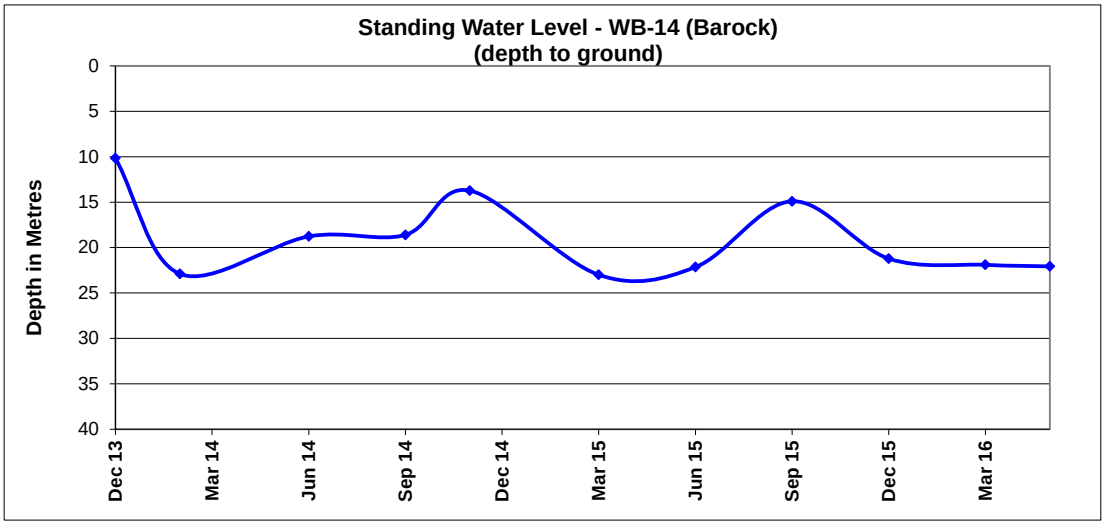

Standing Water Level - WB-9 Carlton
(depth to ground)
Depth in Metres
0
5
10
15
20
25
30
35
Sep 08
Dec 08
Mar 09
Jun 09
Sep 09
Dec 09
Mar 10
Jun 10
Sep 10
Dec 10
Mar 11
Jun 11
Sep 11
Dec 11
Mar 12
Jun 12
Sep 12
Dec 12
Mar 13
Jun 13
Sep 13
Dec 13
Mar 14
Jun 14
Sep 14
Dec 14
Mar 15
Jun 15
Sep 15
Dec 15
Mar 16

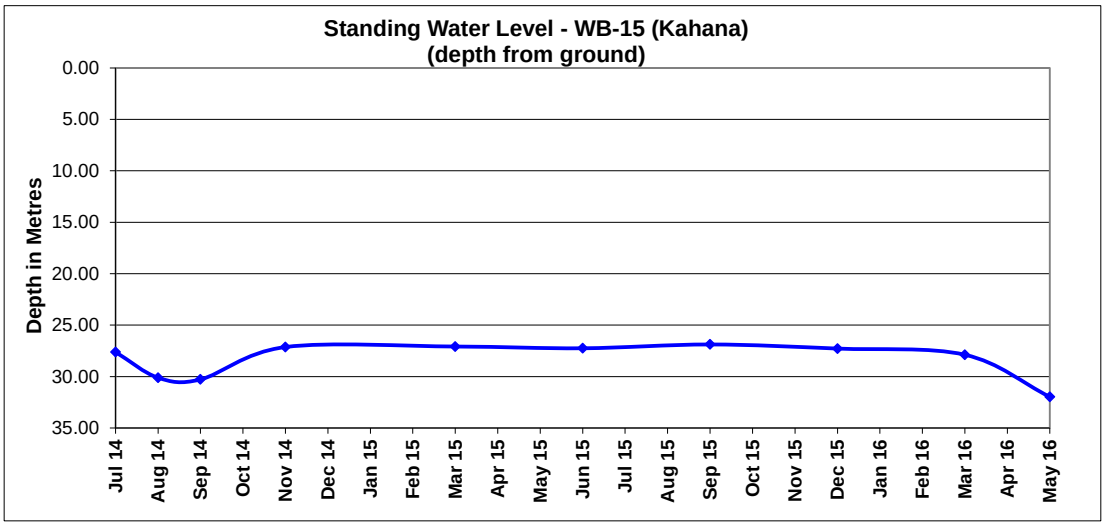

Standing Water Level - WB-10 Brolga
(depth to ground)
Depth in Metres
0
5
10
15
20
Sep 08
Dec 08
Mar 09
Jun 09
Sep 09
Dec 09
Mar 10
Jun 10
Sep 10
Dec 10
Mar 11
Jun 11
Sep 11
Dec 11
Mar 12
Jun 12
Sep 12
Dec 12
Mar 13
Jun 13
Sep 13
Dec 13
Mar 14
Jun 14
Sep 14
Dec 14
Mar 15
Jun 15
Sep 15
Dec 15
Mar 16

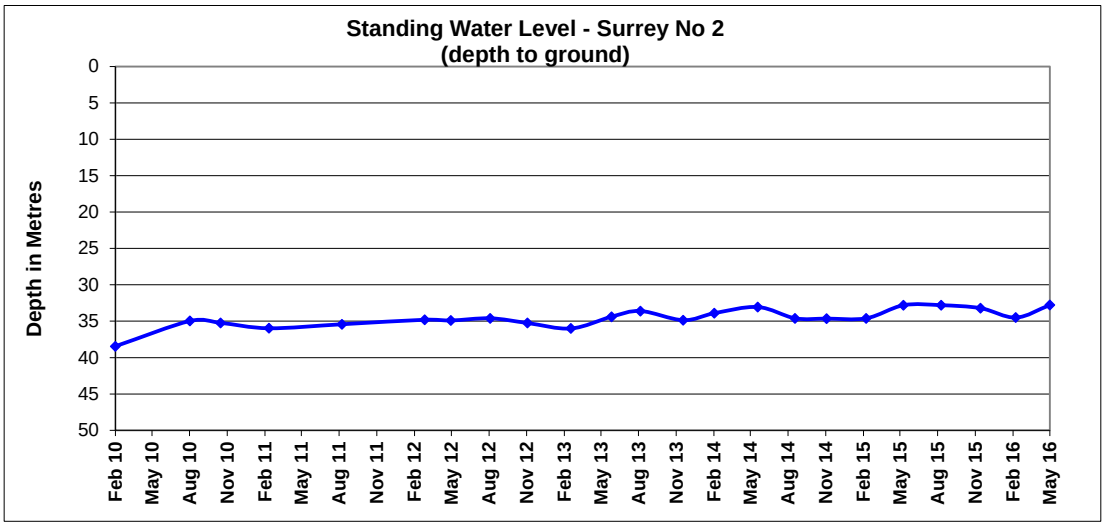

Standing Water Level - WB-11 Brolga
(depth to ground)
Depth in Metres
0
5
10
15
20
25
Jul 08
Oct 08
Jan 09
Apr 09
Jul 09
Oct 09
Jan 10
Apr 10
Jul 10
Oct 10
Jan 11
Apr 11
Jul 11
Oct 11
Jan 12
Apr 12
Jul 12
Oct 12
Jan 13
Apr 13
Jul 13
Oct 13
Jan 14
Apr 14
Jul 14
Oct 14
Jan 15
Apr 15
Jul 15
Oct 15
Jan 16
Apr 16


Standing Water Level - WB-12 Brolga
(depth to ground)
Depth in Metres
0
5
10
15
20
Jul 08
Oct 08
Jan 09
Apr 09
Jul 09
Oct 09
Jan 10
Apr 10
Jul 10
Oct 10
Jan 11
Apr 11
Jul 11
Oct 11
Jan 12
Apr 12
Jul 12
Oct 12
Jan 13
Apr 13
Jul 13
Oct 13
Jan 14
Apr 14
Jul 14
Oct 14
Jan 15
Apr 15
Jul 15
Oct 15
Jan 16
Apr 16


Standing Water Level - WB-13 (Carlton)
(depth to ground)
Depth in Metres
0
5
10
15
20
25
30
35
40
45
50
Mar 13
Jun 13
Sep 13
Dec 13
Mar 14
Jun 14
Sep 14
Dec 14
Mar 15
Jun 15
Sep 15
Dec 15
Mar 16


Standing Water Level - WB-14 (Barock)
(depth to ground)
Depth in Metres
0
5
10
15
20
25
30
35
40
Dec 13
Mar 14
Jun 14
Sep 14
Dec 14
Mar 15
Jun 15
Sep 15
Dec 15
Mar 16


Standing Water Level - WB-15 (Kahana)
(depth from ground)
Depth in Metres
0.00
5.00
10.00
15.00
20.00
25.00
30.00
35.00
Jul 14
Aug 14
Sep 14
Oct 14
Nov 14
Dec 14
Jan 15
Feb 15
Mar 15
Apr 15
May 15
Jun 15
Jul 15
Aug 15
Sep 15
Oct 15
Nov 15
Dec 15
Jan 16
Feb 16
Mar 16
Apr 16
May 16


Standing Water Level - Surrey No 2
(depth to ground)
Depth in Metres
0
5
10
15
20
25
30
35
40
45
50
Feb 10
May 10
Aug 10
Nov 10
Feb 11
May 11
Aug 11
Nov 11
Feb 12
May 12
Aug 12
Nov 12
Feb 13
May 13
Aug 13
Nov 13
Feb 14
May 14
Aug 14
Nov 14
Feb 15
May 15
Aug 15
Nov 15
Feb 16
May 16