

# MOUNT PLEASANT PROJECT



**COAL  
&  
ALLIED**

*Managed by Rio Tinto Coal Australia*

Annual Review 2013

<b>Name of Mine</b>	Mount Pleasant Open Cut Coal Project
<b>Titles/Mining Leases</b>	Mining Lease 1645 Authorisation 459
<b>MOP Commencement Date</b>	MOP not yet prepared
<b>Annual Review Commencement Date</b>	1 January 2013 31 December 2013
<b>Annual Review Completion Date</b>	Coal & Allied Operations Pty Ltd
<b>Name of Mining Lease Holder</b>	PO Box 315 Singleton NSW 2330
<b>Name of Operators</b>	Coal & Allied Operations Pty Ltd PO Box 315 Singleton NSW 2330
<b>Reporting Officer Title</b>	Mr Tim Kassulke General Manager – Health, Safety Environment & Communities Rio Tinto Coal Australia
<b>Signature</b>	
<b>Date</b>	03 March 2014

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## Introduction

### Scope

This Annual Review (AR) has been compiled to comply with Schedule 5, Condition 3 of the Mount Pleasant Project (MTP) Development Consent (DA 92/97) as modified. This report reviews the environmental performance of MTP during the 2013 reporting period, 1 January 2013 to 31 December 2013.

Copies of this report will be submitted to:

- NSW Department of Planning and Infrastructure (DP&I)
- NSW Department of Trade and Investment, Division of Resources & Energy (DRE)
- NSW Environmental Protection Agency (EPA)
- NSW Office of Water (NOW)
- Muswellbrook Shire Council (MSC) and
- MTP Community Consultative Committee (CCC)

### Background and Project Development

The MTP is located approximately three kilometres north-west of the town of Muswellbrook. Immediately to the south of the site is the Bengalla Coal Mine. The Dartbrook Mine, the village of Kayuga, and the town of Aberdeen are situated to the north of the site.

The proponent of MTP is Coal & Allied Operations Pty Ltd (Coal & Allied). Rio Tinto Coal Australia (RTCA) provides management services for all Coal & Allied operations and projects.

The application for development consent for the Mount Pleasant Project was made in 1997. This was supported by an Environmental Impact Statement (EIS) prepared by ERM Mitchell McCotter. On 22 December 1999, the then Minister for Urban Affairs and Planning granted Development Consent DA 92/97 to Coal & Allied. This allowed for the “Construction and operation of an open cut coal mine, coal preparation plant, transport and rail loading facilities and associated facilities” at Mount Pleasant. The consent allowed for the extraction of 197 million tonnes of run of mine (ROM) coal over a 21 year period, at a rate of up to 10.5 million tonnes of ROM coal per year.

The Development Consent was substantially commenced with the construction of Environmental Dam 1 (ED1), a sedimentation dam, and an associated gravel access track in 2004. In November 2005, a high level spillway was added to ED1 to accommodate a Probable Maximum Precipitation rainfall event. The spillway was designed above the existing 1 in 100 year spillway and just below the wall height on the southern side of the dam. No other construction work has taken place to date.

The MTP Modification was submitted for approval on 19 May 2010, with the following changes proposed:

- The provision of an infrastructure envelope for siting the mine infrastructure in place of the specific locations detailed in the EIS. This affords greater flexibility during the detailed design and construction of facilities;
- The provision of an optional conveyor/service corridor linking the MTP facilities with the Muswellbrook-Ulan Rail Line. This conveyor/service corridor will provide an alternative to

the approved rail facilities. The proponent will choose either the conveyor/service corridor or the rail facilities after further design analysis;

- Modification of the existing development consent boundaries to accommodate the optional conveyor/service corridor and minor administrative boundary changes.

This modification was approved on 19 September 2011.

A Referral of the Proposed Action for MTP was submitted to the Commonwealth Department of Sustainability, Environment, Water, Population and Communities (DSEWPC) on 16 December 2010, pursuant to the Commonwealth Environmental Protection and Biodiversity Conservation Act 2001 (EPBC Act). The DSEWPC decided on 4 February 2011 that the Mount Pleasant Project required assessment and approval under the EPBC Act before it could proceed to be assessed through a Public Environment Report. After a public exhibition period, the Commonwealth approved the Mount Pleasant Project under the EPBC Act on 29th February 2012.

### Consents, Titles and Licences

The development consent, Commonwealth approval and mining titles held by Coal & Allied for MTP are detailed in Table 1 and Table 2.

Table 1 – Approvals for the Mount Pleasant Project

Approval Number	Description	Issue Date	Expiry Date
DA 92/97	State Development Consent for Mount Pleasant Coal Mine (as modified)	19/09/2011	22/12/2020
EPBC 2011/5795	Commonwealth approval of the Mount Pleasant Coal Mine	29/02/2012	28/10/2035



Table 2 – Mount Pleasant Project Mining Titles

Title	Type	Purpose	Grant Date	Expiry Date	Status
Auth 459	Authorisation	Prospecting	07/04/1992	08/04/2015	Granted
ML 1645	Mining Lease	Prospecting and Mining Coal	17/12/2010	17/12/2031	Granted
MLA 402	Mining Lease Application	Prospecting and Coal Mining	Mining Lease Application lodged 4 <sup>th</sup> May 2011		Application Pending
MLA 422	Mining Lease Application	Prospecting and Coal Mining	Mining Lease Application lodged 27 <sup>th</sup> March 2012		Application Pending
MLA 423	Mining Lease Application	Prospecting and Coal Mining	Mining Lease Application lodged 27 <sup>th</sup> March 2012		Application Pending

The water licences held by Coal & Allied for MTP are detailed in Table 3. MTP's High Security water entitlements (WALs 879, 880 and 1113) were temporarily traded twice to Mount Thorley Warkworth Operations during the reporting period. The first trade was in February 2013 for the '12/13' allocation period and the second was in December 2013 for the '13/14' allocation period.

Table 3 – Mount Pleasant Project Water Licences

Licence Number	Type of licence	Purpose	Legislation	Description	Date Licensed	Renewal Date
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1912	Bore: 5000A500	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1913	Bore: WRA5L	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1914	Bore: 3500B500	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1915	Bore: WRA5U	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1916	Bore: 3500C500	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1917	Bore: WRA6L	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1918	Bore: MPBH3 (Bore2)	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1919	Bore: MPBH1 (Bore1)	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1920	Bore: 7500F000	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1921	Bore: 6500F500L	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1922	Bore: 6500F500M	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1923	Bore: 6500F500U	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1924	Bore: 6500F625	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1925	Bore: 4500F000	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1926	Bore: 3500E000L	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1927	Bore: 3500E000M	13/03/2003	Perpetuity

Licence Number	Type of licence	Purpose	Legislation	Description	Date Licensed	Renewal Date
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1928	Bore: WRA1U	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1929	Bore: 3500E000U	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1930	Bore: WRA2L	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1931	Bore: 5000D000	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1932	Bore: WRA2U	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1933	Bore: 5500D000	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1934	Bore: WRA3L	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1935	Bore: 6000C000	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1936	Bore: WRA3U	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1937	Bore: WRA1L	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1938	Bore: WRA6U	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1939	Bore: 7000D000	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1940	Bore: WRA4L	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1941	Bore: MPBH2	13/03/2003	Perpetuity
20BL168734	Bore	Monitoring Bore	Part 5 Water Act 1942	Bore: WRA4U	13/03/2003	Perpetuity

Licence Number	Type of licence	Purpose	Legislation	Description	Date Licensed	Approved Extraction (ML)	Actual Extraction 2012 (ML)
20AL201050 (see WAL879)	Water Access Licence	Water Access Licence	Water Management Act 2000	Hunter River (Zone 1A) High Security Associated with 20CA201051	Perpetuity	224	0
20AL201052 (see WAL880)	Water Access Licence	Water Access Licence	Water Management Act 2000	Hunter River (Zone 1A) High Security Associated with 20CA201053	Perpetuity	124	0
20AL201612 (see WAL1113)	Water Access Licence	Water Access Licence	Water Management Act 2000	Hunter River (Zone 1A) High Security Associated with 20CA201613	Perpetuity	366	0
20AL201895 (see WAL13391)	Water Access Licence	Water Access Licence	Water Management Act 2000	Hunter River (Zone 1B) General Security Associated with 20CA201896*	Perpetuity	420	0
WAL879	Water Access Licence	Certificate of Title	Water Management Act 2000	Hunter River (Zone 1A) High Security Associated with 20CA201051	Perpetuity	224	0
WAL880	Water Access Licence	Certificate of Title	Water Management Act 2000	Hunter River (Zone 1A) High Security Associated with 20CA201053	Perpetuity	124	0
WAL1113	Water Access Licence	Certificate of Title	Water Management Act 2000	Hunter River (Zone 1A) High Security Associated with 20CA201613	Perpetuity	366	0
WAL13391	Water Access Licence	Certificate of Title	Water Management Act 2000	Hunter River (Zone 1B) General Security Associated with 20CA201896*	Perpetuity	420	0

\* Irrigation purposes only

**Mount Pleasant Project Personnel 2013**

The personnel responsible for MTP in 2013 are detailed in Table 4.

Table 4 – Mount Pleasant Project Personnel 2013

<b>Name</b>	<b>Position</b>
Tim Kassulke	General Manager – Health, Safety, Environment & Communities
Trudie Larnach	Project Approvals Specialist
Elizabeth Yeo	Community Relations Specialist

## Environmental Management and Monitoring

This chapter provides a summary of environmental management and monitoring activities at MTP during the reporting period.

### Management Plans

The Development Consent requires the proponent to submit a number of plans and strategies prior to carrying out any development on site. In February 2012 the following plans were submitted for approval which were developed in consultation with relevant stakeholders:

- Noise Management Plan - Construction as required by Schedule 3, Condition 9;
- Air Quality and Greenhouse Gas Management Plan – Construction as required by Schedule 3, Condition 23;
- Water Management Plan - Construction as required by Schedule 3, Condition 28;
- Landscape Management Plan as required by Schedule 3, Condition 47;
- Waste Management Plan – Construction as required by Schedule 3, Condition 52;
- Rehabilitation Strategy as required by Schedule 3, Condition 54;
- Biodiversity and Rehabilitation management Plan (biodiversity portion only) as required by Schedule 3, Condition 56; and
- Environmental Management Strategy as required by Schedule 5, Condition 1.

As permitted by Schedule 2, Condition 13, some of these plans were submitted on a progressive basis, with the Noise, Air Quality and Water management plans prepared only for the period of construction. Operational management plans will be submitted closer to the commencement of operations.

The Rehabilitation Strategy, Landscape Management Plan and the Environmental Management Strategy cover the lifetime of the current Development Consent, with approximately 2 years of construction and 6 years of operation.

In July 2012 the Department of Planning approved the following management plans:

- Water Management Plan - Construction as required by Schedule 3, Condition 28;
- Landscape Management Plan as required by Schedule 3, Condition 47;
- Waste Management Plan – Construction as required by Schedule 3, Condition 52;
- Rehabilitation Strategy as required by Schedule 3, Condition 54;
- Biodiversity and Rehabilitation management Plan (biodiversity portion only) as required by Schedule 3, Condition 56; and
- Environmental Management Strategy as required by Schedule 5, Condition 1

The noise and air quality management plans are still undergoing review and assessment.

A description of performance against the development consent for the 2012 reporting period is provided in Appendix 1.

Environmental monitoring conducted at MTP includes meteorological, air quality, noise and surface and ground water in accordance with the requirements of the development consent. The collection of this information is carried out to assist with long term planning and environmental management. This also provides baseline data for future comparison. Flora and fauna monitoring and cultural

heritage management was commenced in 2006 and was continued through 2013. **Figure 1** shows the location of all monitoring sites.

## Meteorological Monitoring

Meteorological monitoring includes total monthly rainfall and cumulative rainfall for 2013, monthly maximum and minimum temperatures, maximum wind speeds and monthly and annual wind roses. A new meteorological station was constructed in 2011 and brought online in April 2012, the new MTP meteorological station is located off Kayuga Road. A copy of the full extract of monitoring results data is presented in **Appendix 2** with summaries provided below.

### Rainfall

During the 2013 reporting period, approximately 678 mm of rain was recorded at the MTP meteorological station over 91 days. The highest daily rainfall for 2013 was 83.6 mm which fell on the 18<sup>th</sup> of November. Monthly rainfall distribution, number of wet days and cumulative rainfall is summarised in Table 5. Monthly rainfall records and cumulative rainfall (January 2013 - December 2013) are illustrated in Figure 2. A comparison of rainfall trends since 2011 are presented in Figure 3.

Table 5 - Rainfall Summary for MTP 2013

	Jan	Feb	Mar	Apr	May	Jun	July	Aug	Sep	Oct	Nov	Dec
<b>Monthly Rainfall 2013 (mm)</b>	126.8	97.4	64.2	1.4	13.8	45.2	26.2	2.2	21.8	85.8	178.8	14.4
<b>Cumulative Rainfall 2013 (mm)</b>	126.8	224.2	288.4	289.8	303.6	348.8	375	377.2	399	484.8	663.6	678
<b>Wet Days*</b>	10	8	8	4	10	14	11	1	1	8	12	4

\*Note: Wet days are classified as days receiving rainfall greater than 0.2 mm.

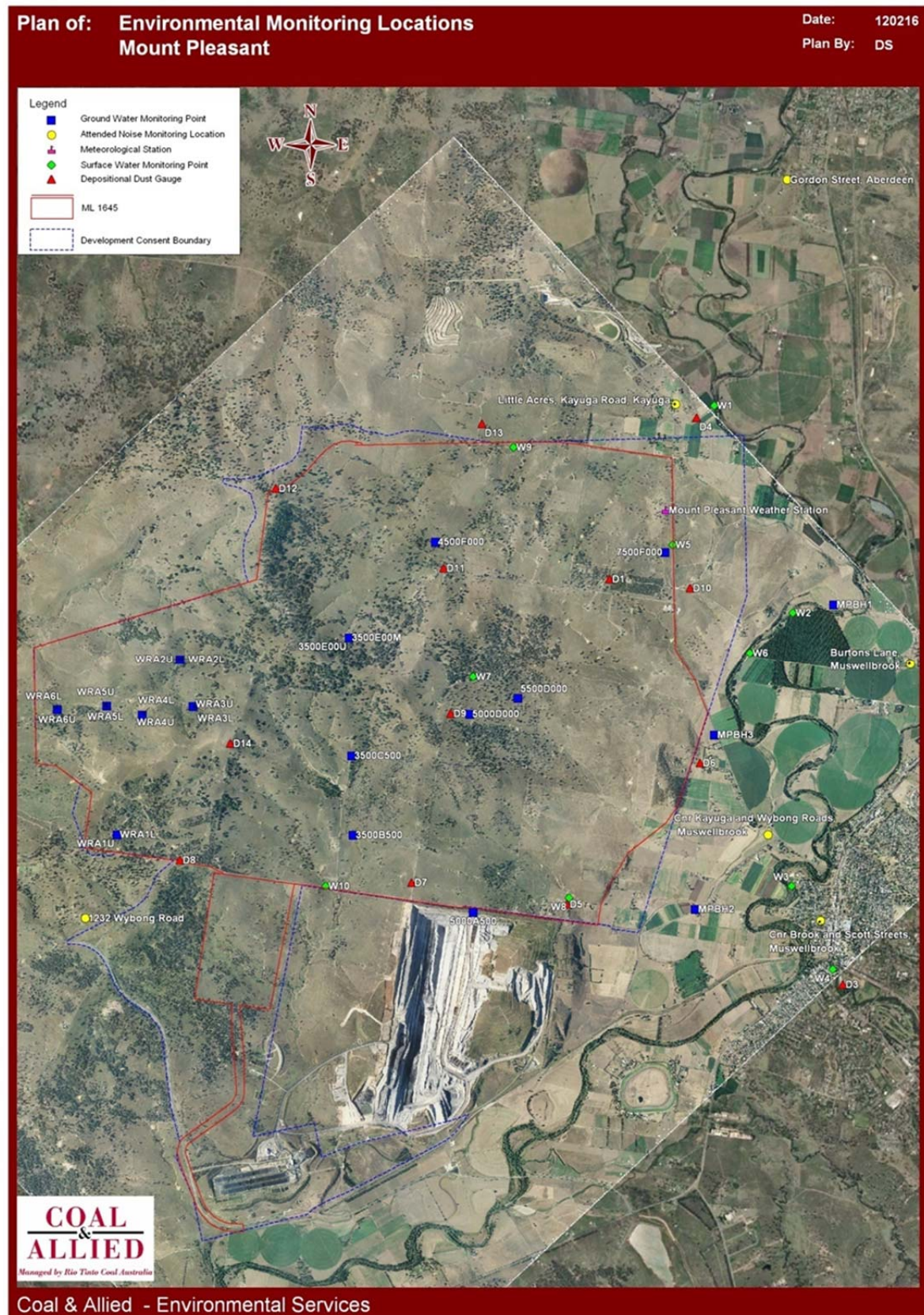


Figure 1 – Environmental Monitoring Locations



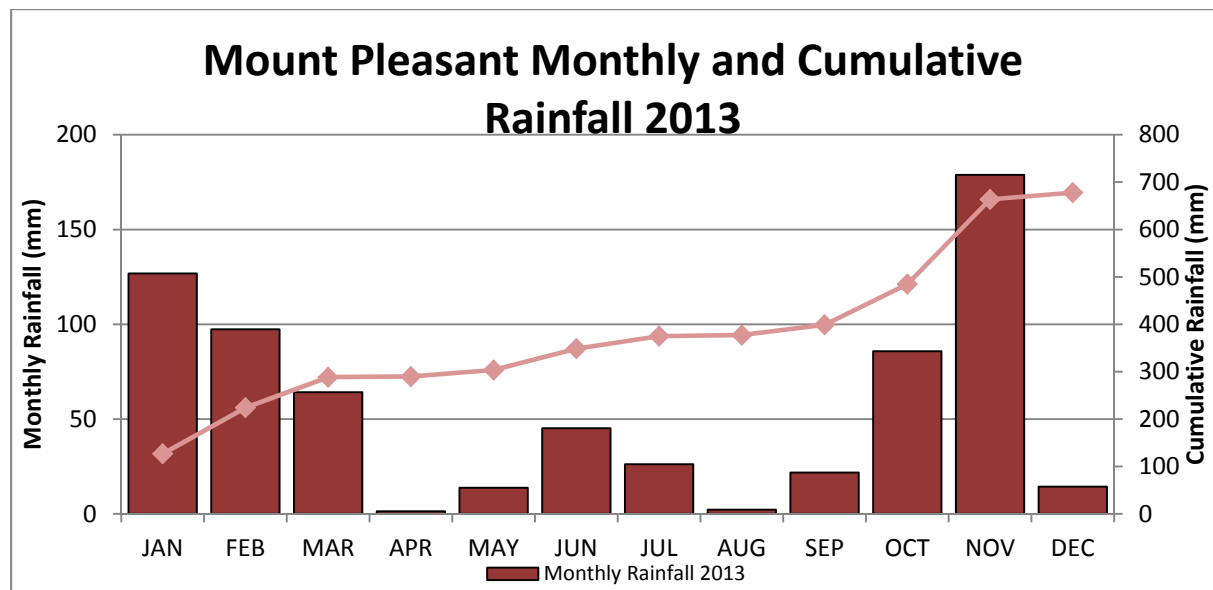


Figure 2 - Monthly and Cumulative Rainfall for 2013

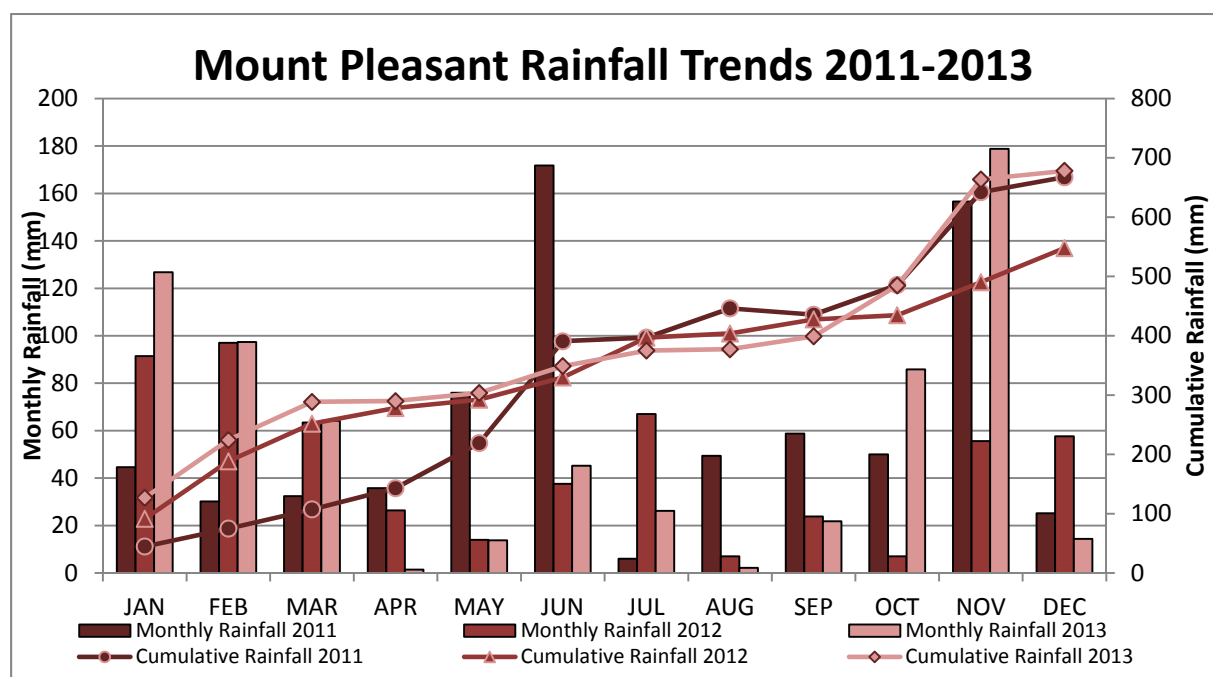


Figure 3 - Monthly and Cumulative Rainfall 2011-2013

## Temperature

During 2013, the maximum temperature recorded at MTP Meteorological Station was 43.4°C (13<sup>th</sup> January 2013). The minimum temperature recorded was -1.3°C (9<sup>th</sup> July 2013). Daily maximum and minimum temperatures at the MTP meteorological station during 2013 are illustrated in Figure 4, with temperature trends from 2011 to 2013 shown in Figure 5.

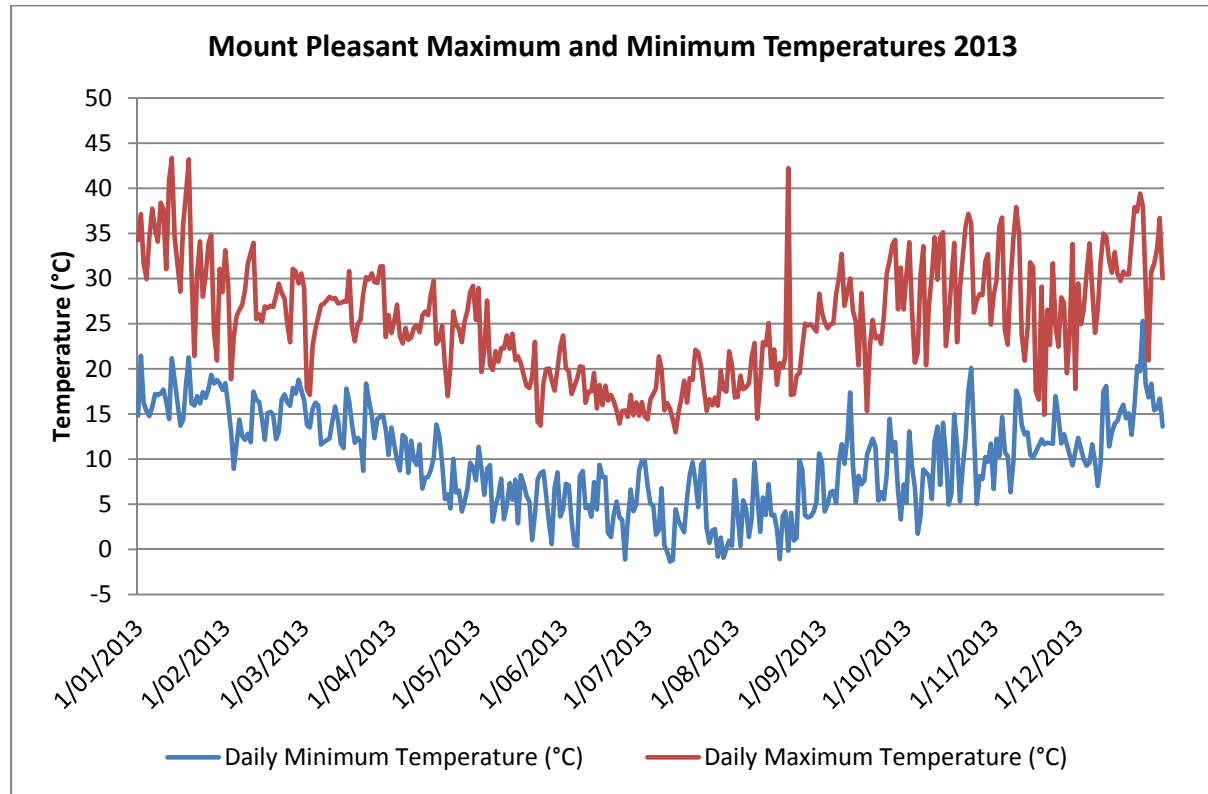


Figure 4 - Daily Maximum and Minimum Temperature 2013

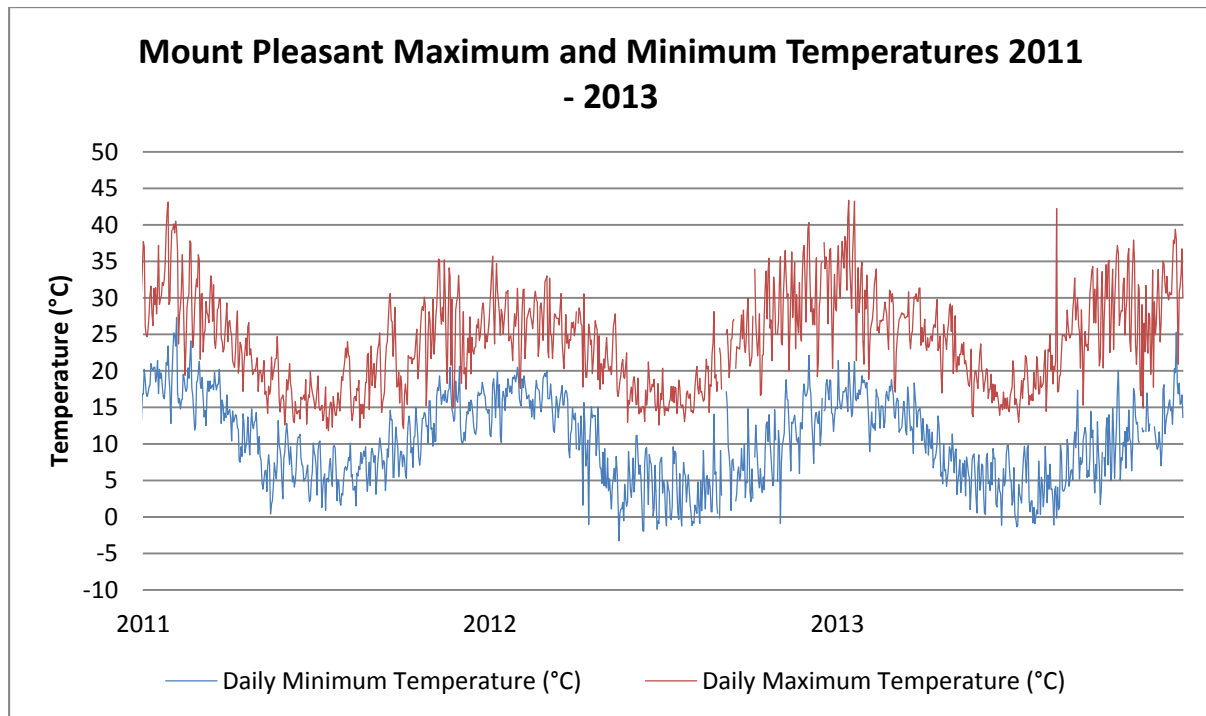


Figure 5 - Daily Maximum and Minimum Temperatures 2011-2013

Figure 5 shows that generally there have been no significant temperature fluctuations between annual cycles in the years 2011 to 2013.

### Wind Speed and Direction

During the 2013 reporting period, prevailing and dominant winds varied, from South South East to North Westerly winds. Dominant wind speeds ranging from 2.1m/s to 8.8m/s were measured for the greatest proportion of time.

Figure 6 shows wind speed and direction as a percentage of time for the 2013 reporting period. Monthly wind roses are presented in **Appendix 2**.

The maximum wind speed recorded throughout 2013 was 26.4m/s on 1<sup>st</sup> December 2013. The average maximum wind speed was 11.5m/s. Maximum wind velocities throughout 2013 are shown in Figure 7.

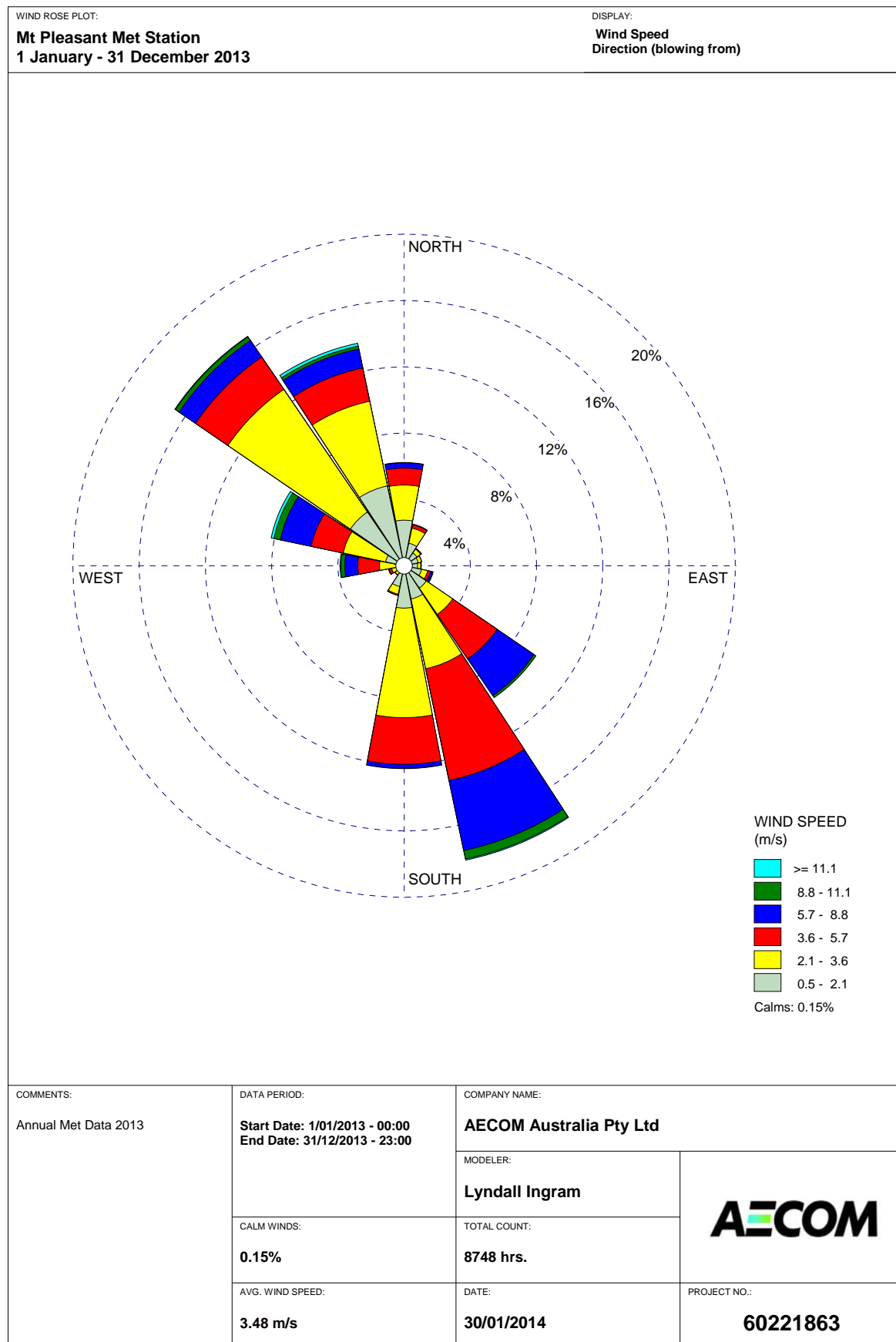


Figure 6 - Annual Windrose 2013 (wind direction as percentage of time)

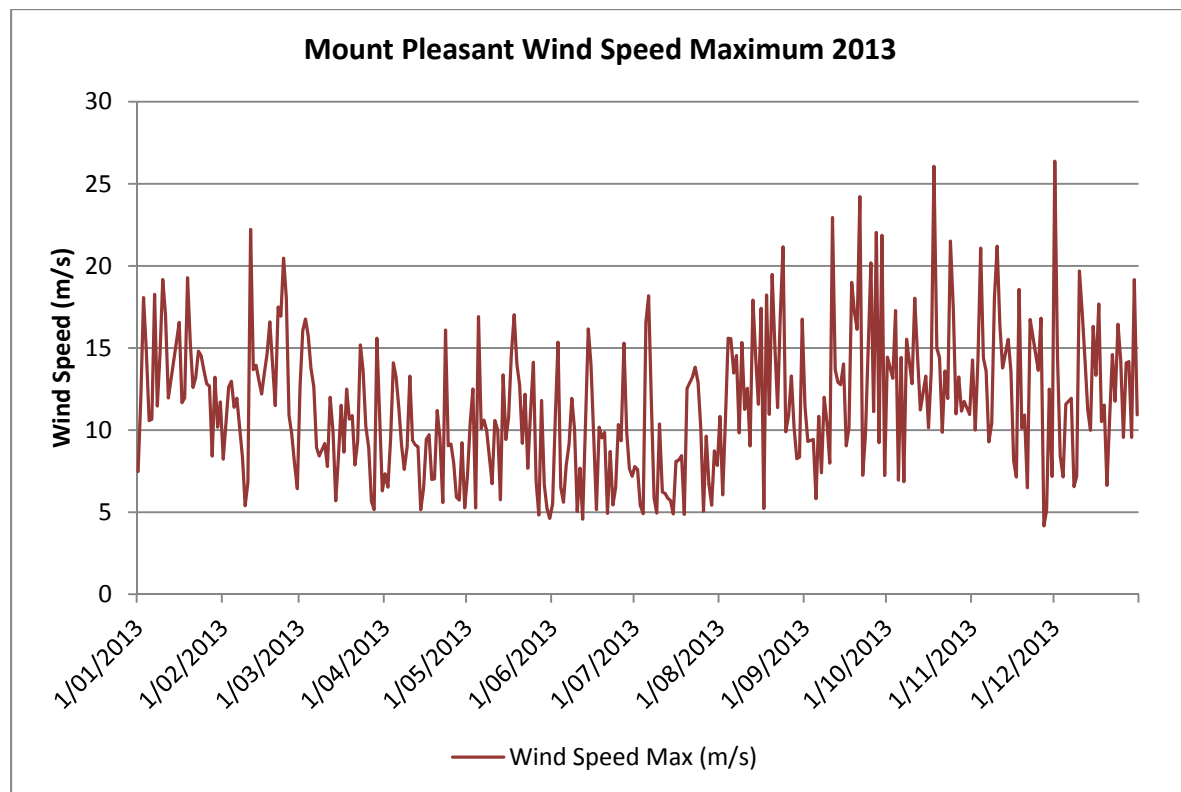


Figure 7 - Maximum Wind Speeds 2013

## Air Quality Monitoring

The current objective of air quality management at MTP is to monitor the background or baseline dust levels prior to the commencement of mining activities. Data obtained in this phase of the mine life gives the Mount Pleasant Project a baseline reference, against which suspended dust concentrations can be assessed once mining commences.

To monitor regional air quality, 13 depositional dust gauges are used around MTP. It should be noted that gauge D10 recorded one result in 2013, monitoring ceased at this location following damage sustained to the gauge stand. The gauges are sited in accordance with Australian Standard AS 3580.1.1:2007 and analysed for mass of total insoluble matter and ash in accordance with Australian Standard AS 3580.10.1-2003. Figure 1 illustrates the location of the dust monitoring network. Monthly dust deposition monitoring results are provided in **Appendix 2**.

Results from dust gauge D3 are representative of Muswellbrook town centre. The annual average for this site was 1.8 g/m<sup>2</sup> per month in 2013.

Once construction and mining commences at MTP, the dust management programme will aim to maintain dust deposition rates at adjoining residences below the long term criteria of 4 g/m<sup>2</sup> per month annual average total insoluble solids. Data collected in 2013 will be used to establish baseline air quality.

Data recovery (samples collected and analysed) for the 13 depositional dust gauges during 2013 was 100% with the exception of D10 which was not monitored after sustaining damage to the stand in

January 2013. A number of the samples were contaminated by material or various activities that may have altered the results from a true reading of dust deposition.

Figure 8 shows 10 of the 13 sites recorded levels below the annual impact assessment criteria. Site D7 recorded results above the annual impact assessment criteria, with an annual average of 11.5 g/m<sup>2</sup> per month. The D7 gauge is located on Coal & Allied owned land and is in close proximity to the northern boundary of the Bengalla Coal Mine. This gauge is identified within Bengalla Coal Mine's area of predicted impact.

Site D7 has previously displayed levels below the annual impact assessment criteria for depositional dust and lack of consistent rain throughout the year may have contributed to this elevated result.

Figure 9 provides a comparison between annual average dust deposition levels at each of the monitoring sites from 2011 to 2013. Dust gauge D7, as predicted, has exceeded the long term criteria in all years.

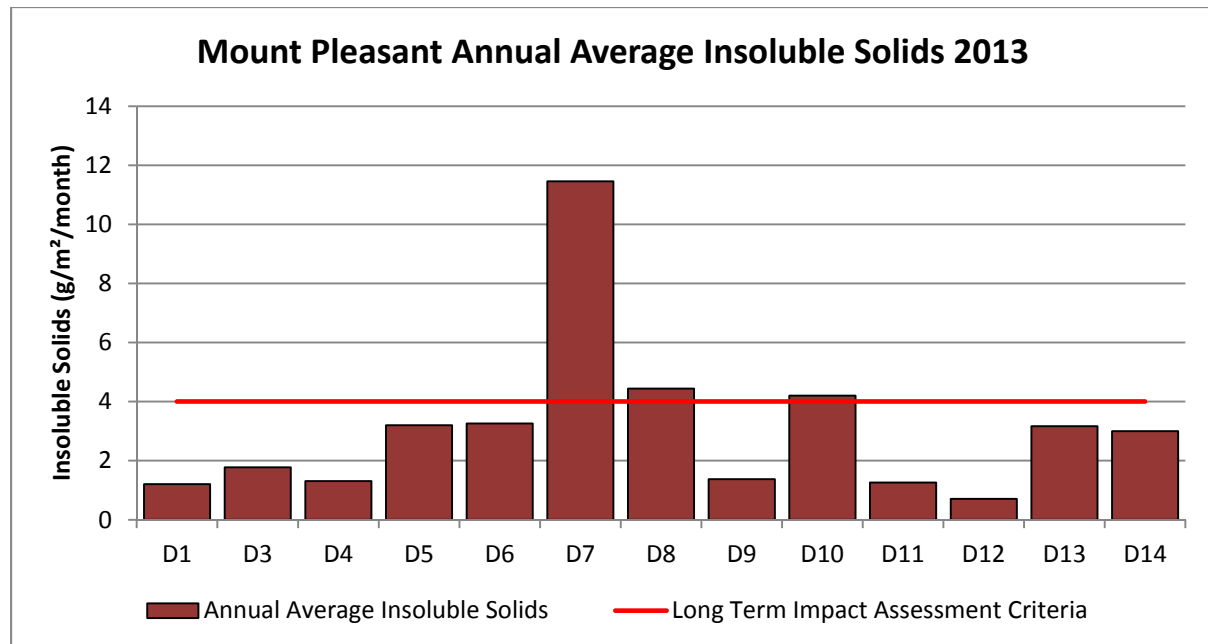


Figure 8 - Annual Average Insoluble Solids 2013

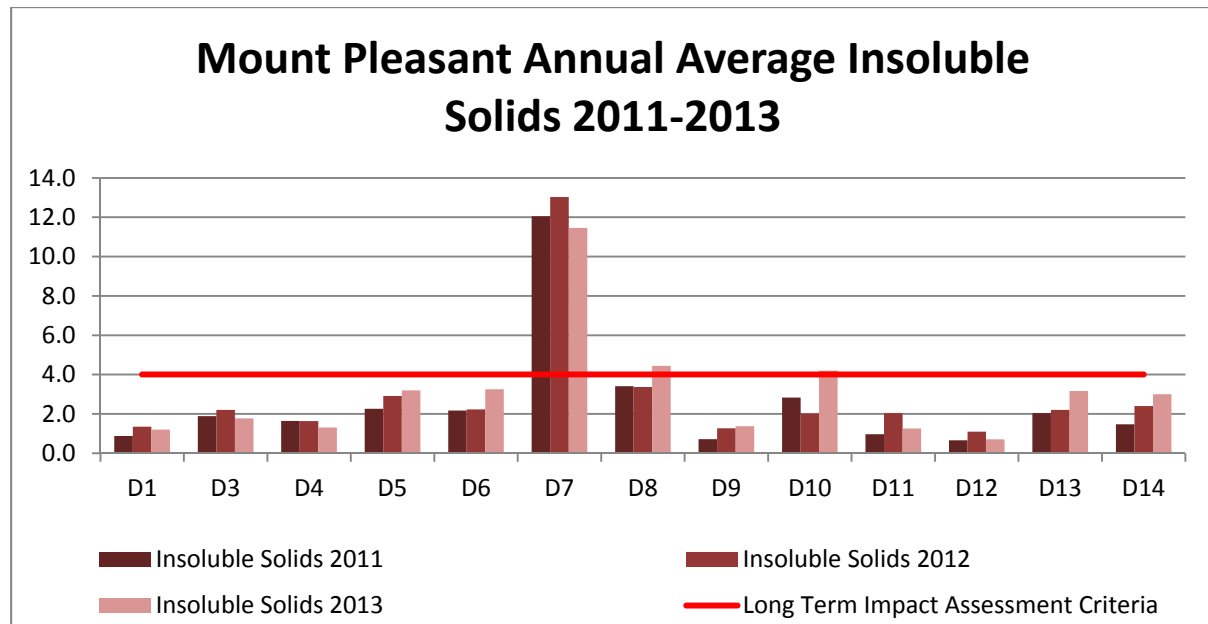


Figure 9 - Annual Average Insoluble Solids 2011 – 2013

Figure 10 shows that 6 of the 13 sites registered a decrease in insoluble solids from the previous year. While seven sites registered an increase in insoluble solids, all monitoring sites, except D10, are within the maximum allowable annual average increase criteria of  $2 \text{ g/m}^2/\text{month}$ . D10 was only sampled once during 2013 and is not representative of annual average at this location.

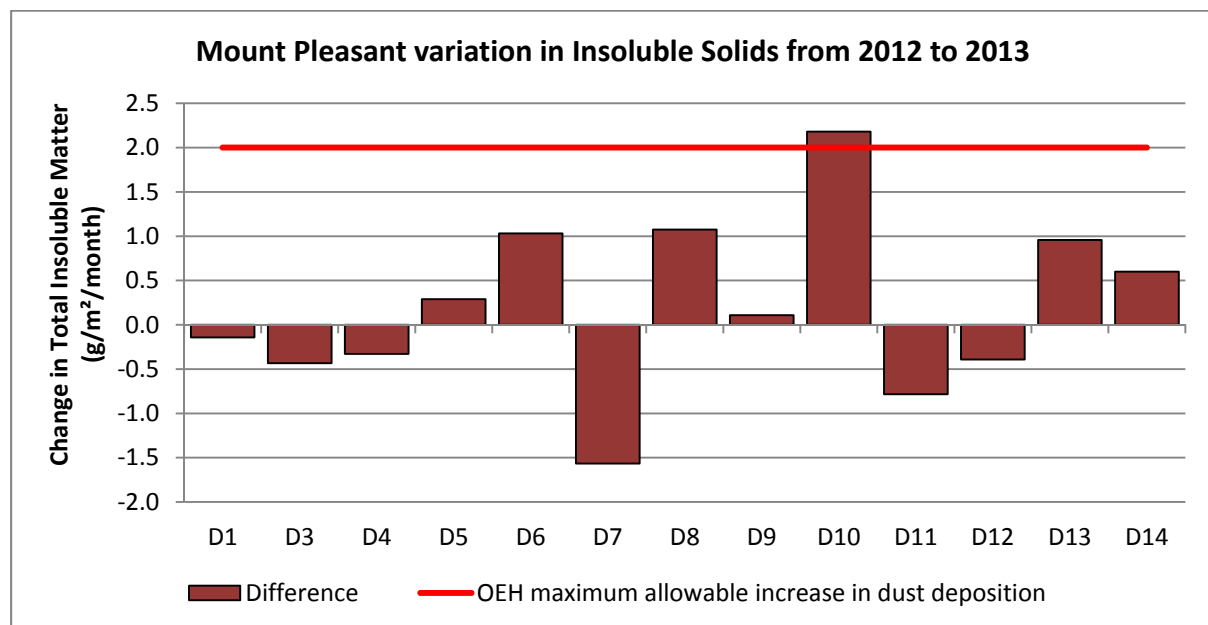


Figure 10 – Variation in Annual Average Insoluble Solids from 2012 to 2013

## Surface Water Monitoring

There are 10 surface water monitoring sites located in the natural watercourses surrounding MTP (Figure 1). All sampling of surface water is carried out in accordance with AS/NZS 5667.6 (1998) and analysis is carried out by National Association of Testing Authorities (NATA) or an equivalent accredited laboratory. All sites were sampled on a monthly basis. Only three of the sites regularly experience flow, namely W1-Hunter Upstream, W2-Hunter Central Site and W4-Muscle Creek. Sites W5, W7, W8, W9 and W10 are located on ephemeral creeks and only flow after very heavy rainfall. Site W3 is an automatically monitored site, and only produces electrical conductivity (EC) readings. The full results of monthly surface water monitoring from 2013 can be found in **Appendix 2**.

Water quality is evaluated through the parameters of pH, electrical conductivity and Total Suspended Solids (TSS). Table 6 shows water quality criteria for watercourses as outlined in the ANZECC Guidelines (2000) NSW Lowland Rivers.

Table 6 - Surface water quality criteria

Parameter	Lower Limit	Upper Limit
pH	6.5	8.5
Electrical Conductivity	125µS/cm	2,200µS/cm
Total Suspended Solids	N/A	50mg/L

The Hunter River is sampled at two sites upstream (W1 & W2) and two sites downstream (W6 & W3) of the proposed Mount Pleasant release point to establish baseline data prior to the commencement of mining activities. Site W1 is located furthest upstream of the MTP lease boundary, while site W3 is furthest downstream as seen in Figure 1. Sampling is also undertaken at W4 on Muscle Creek, which flows into the Hunter River downstream of site W3. Analysis of the results indicates that the quality of these waterways is influenced significantly by rainfall, runoff and flow conditions. High rainfall in upper catchments generally results in elevated total suspended solids, and lowered pH and electrical conductivity. The opposite occurs in dry conditions.

### pH Levels

The pH of surface water ranged from pH 6.7 to 8.8 in 2013, as seen in Figure 11. The calculated average pH for MTP in 2013 was pH 7.7.

A review of longer term trends indicates that pH levels have generally stayed within the 6.5 to 8.5 range prescribed by the ANZECC guidelines as illustrated in Figure 12. Site W4 on Muscle Creek has consistently experienced lower pH levels than the sites on the Hunter River. These pH trends are consistent with the trends presented in the 1997 MTP EIS.



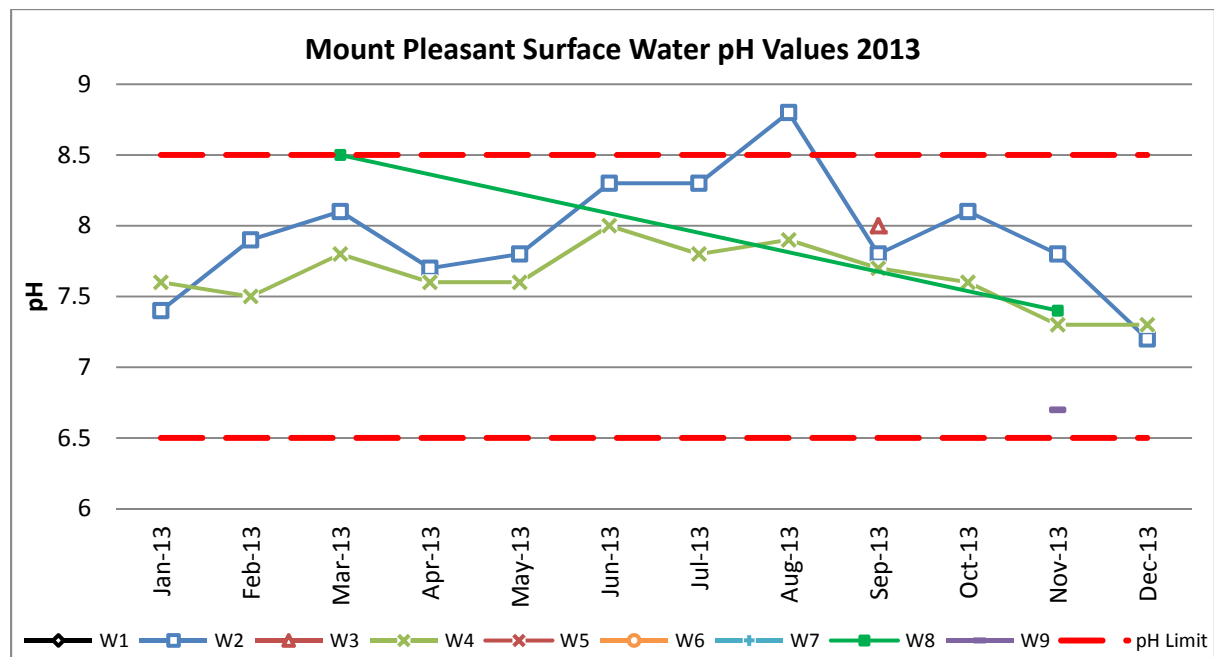


Figure 11 - Surface Water pH 2013

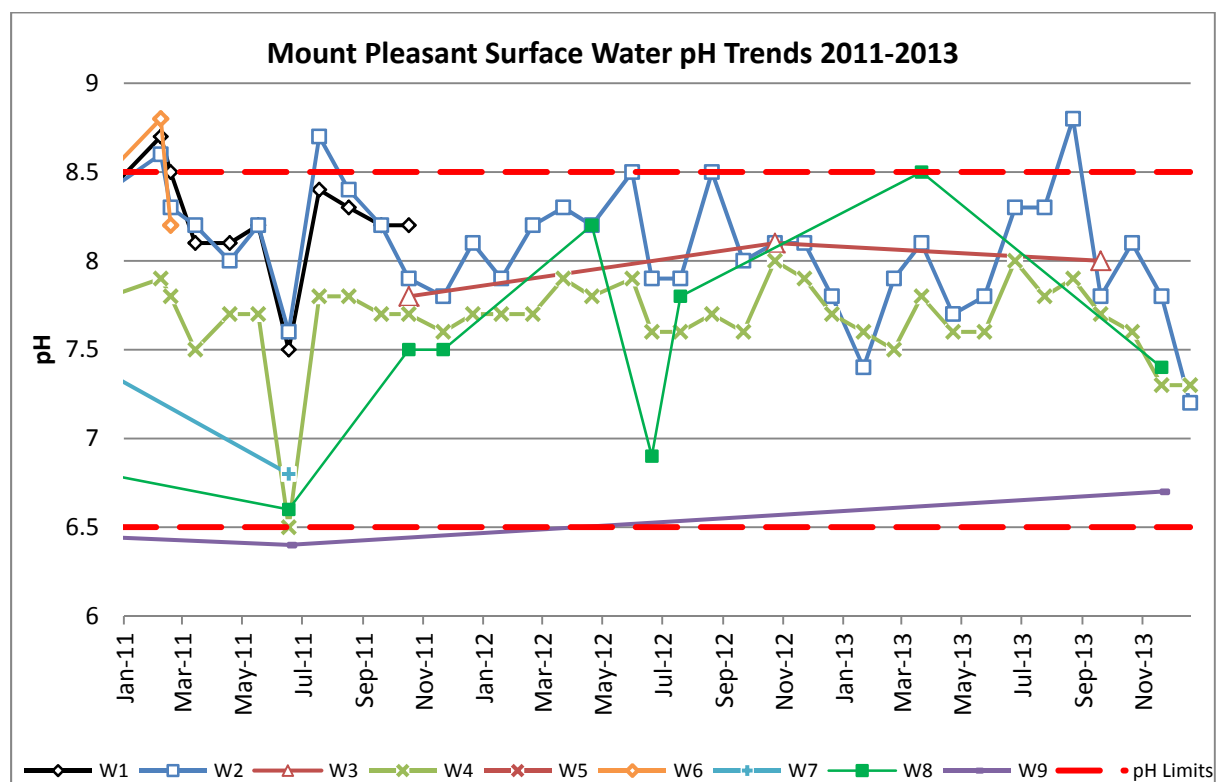


Figure 12- Surface Water pH Trends 2011-2013

### Electrical Conductivity

During the reporting period, the EC levels at the monitoring locations generally stayed within the target range of 125 to 2200  $\mu\text{S}/\text{cm}$ , with the exception of W4. The W2 site, which is situated on the Hunter River recorded a range between 323 to 725  $\mu\text{S}/\text{cm}$ . Figure 13 shows site W4 (Muscle Creek) registered significantly higher EC values (highest of 3100  $\mu\text{S}/\text{cm}$  in August) and experienced greater fluctuations than the Hunter River sites. Figure 14 shows longer term trends and demonstrates that the EC is consistently higher and more variable at W4. This is because site W4 is located on a waterway which commonly has variability in EC. This site has naturally occurring salts in surrounding soils and rocks (Hunter Valley Catchment Management Authority) and long term monitoring indicates that a range of 600  $\mu\text{S}/\text{cm}$  to 3000  $\mu\text{S}/\text{cm}$  is normal.

W8 is a historically dry location and only experiences flow after extremely heavy rainfall events. The low EC levels recorded at W8 are typical of heavy rainfall events.

Figure 15 shows Mount Pleasant surface water EC trends (excluding W4), which highlights that the monitoring site on the Hunter River (W2) is within the target range 125 to 2200  $\mu\text{S}/\text{cm}$ . The sites which recorded lower EC values are historically dry locations with inconsistent monitoring results available for comparison.

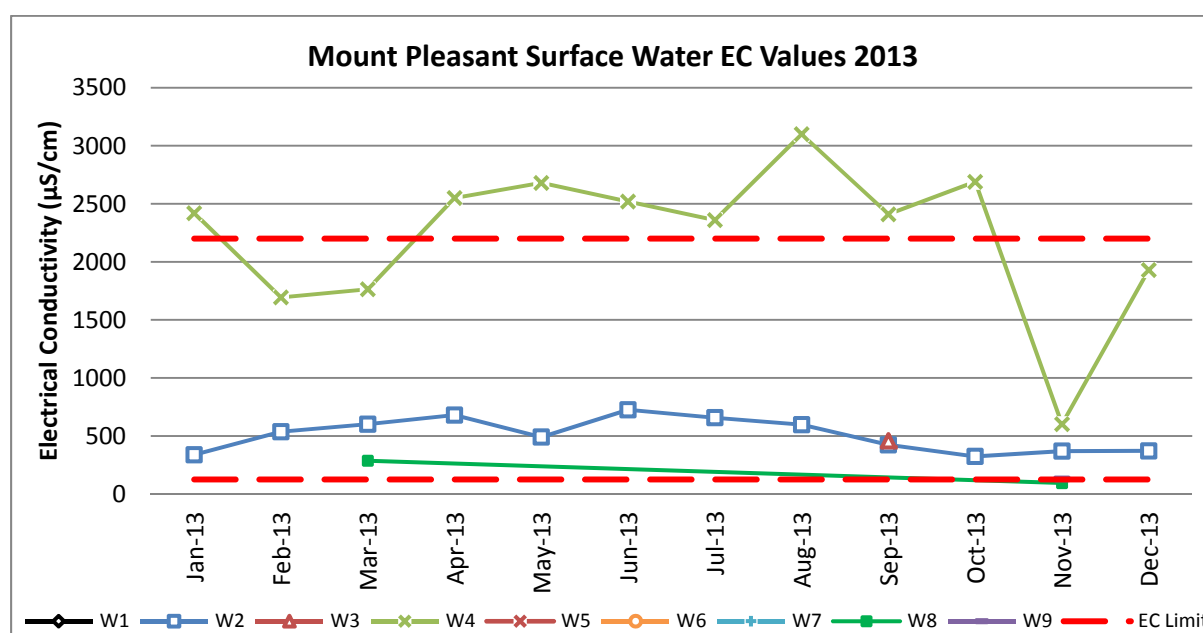


Figure 13- Surface Water Electrical Conductivity 2013

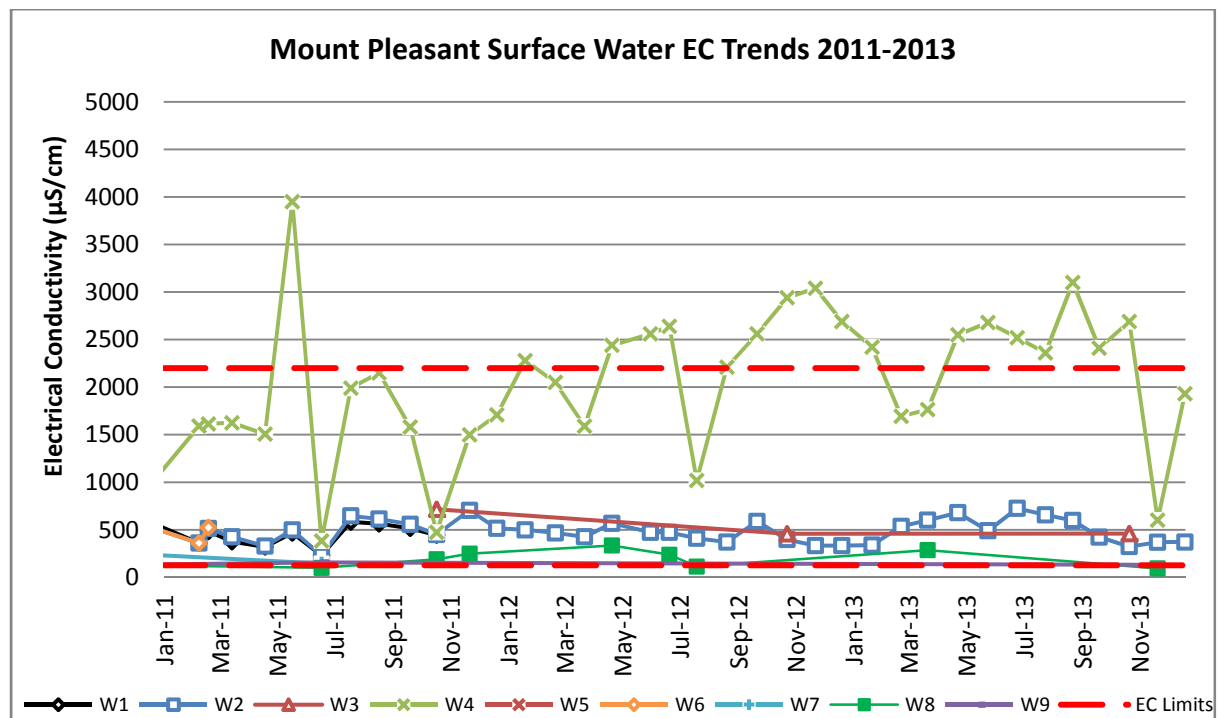


Figure 14 - Surface Water Electrical Conductivity Trends 2011 – 2013

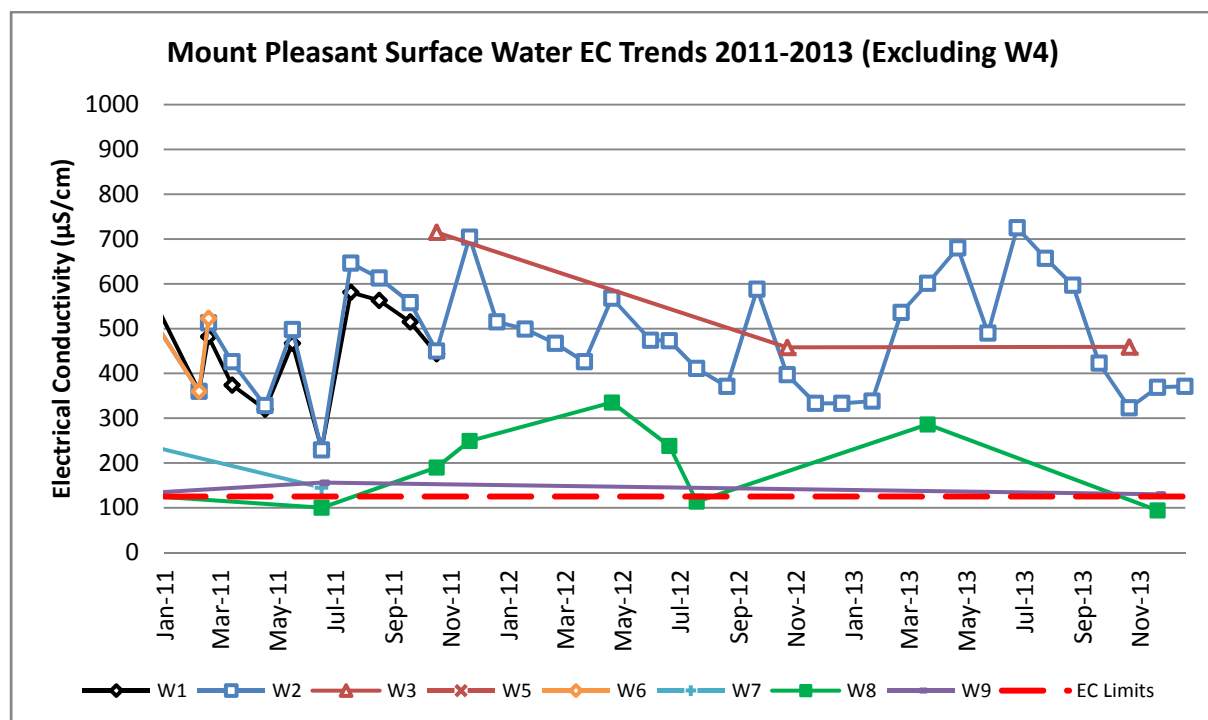


Figure 15 - Surface Water Electrical Conductivity Trends (excluding W4) 2011 – 2013

### Total Suspended Solids

The Total Suspended Solids (TSS) criterion of 50mg/L is specified by ANZECC Guidelines (2000) for Aquatic Ecosystems – NSW Lowland Rivers. The TSS levels remained below the criterion at all sites except W8 on all sampling occasions (as seen in Figure 16). The elevated TSS levels at W8 are most likely due to the increased runoff resulting from heavy precipitation.

Figure 17 shows long term TSS trends and demonstrates that TSS levels in MTP surface waters fluctuate yearly following high rainfall, often between November and March. Figure 17 also shows TSS levels are generally well below the 50mg/L criterion. This limit is generally only exceeded after heavy rainfall or continuous rainfall.

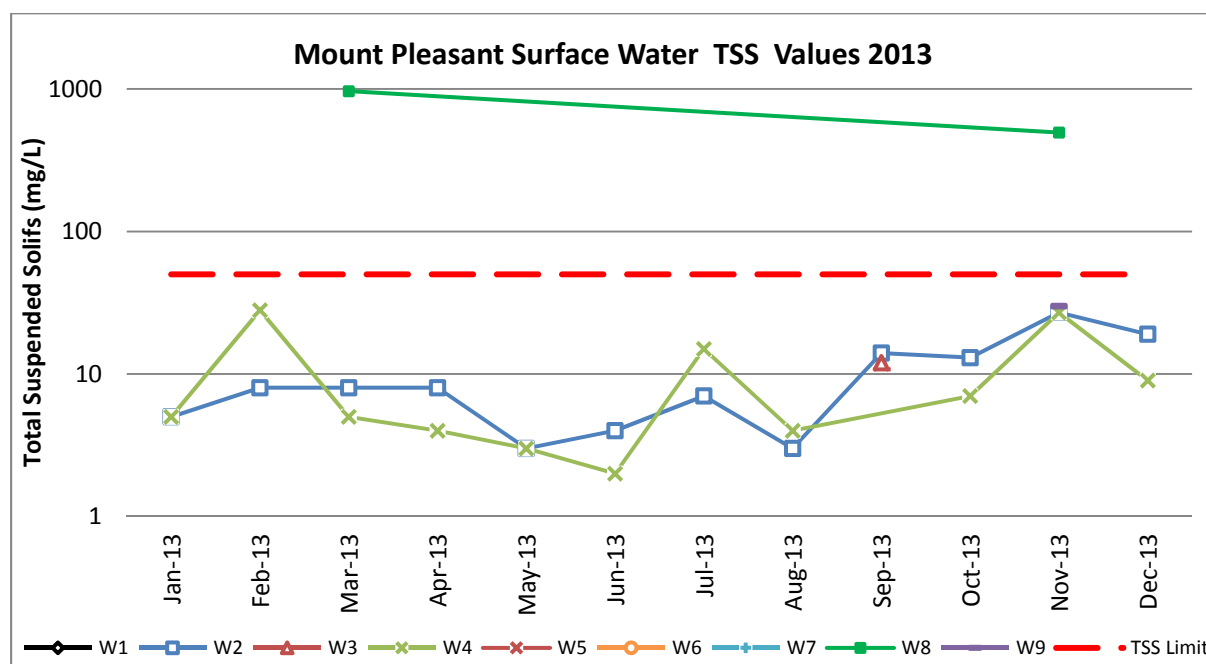


Figure 16- Surface Water Total Suspended Solids 2013

NB: This graph has been plotted using a logarithmic scale.

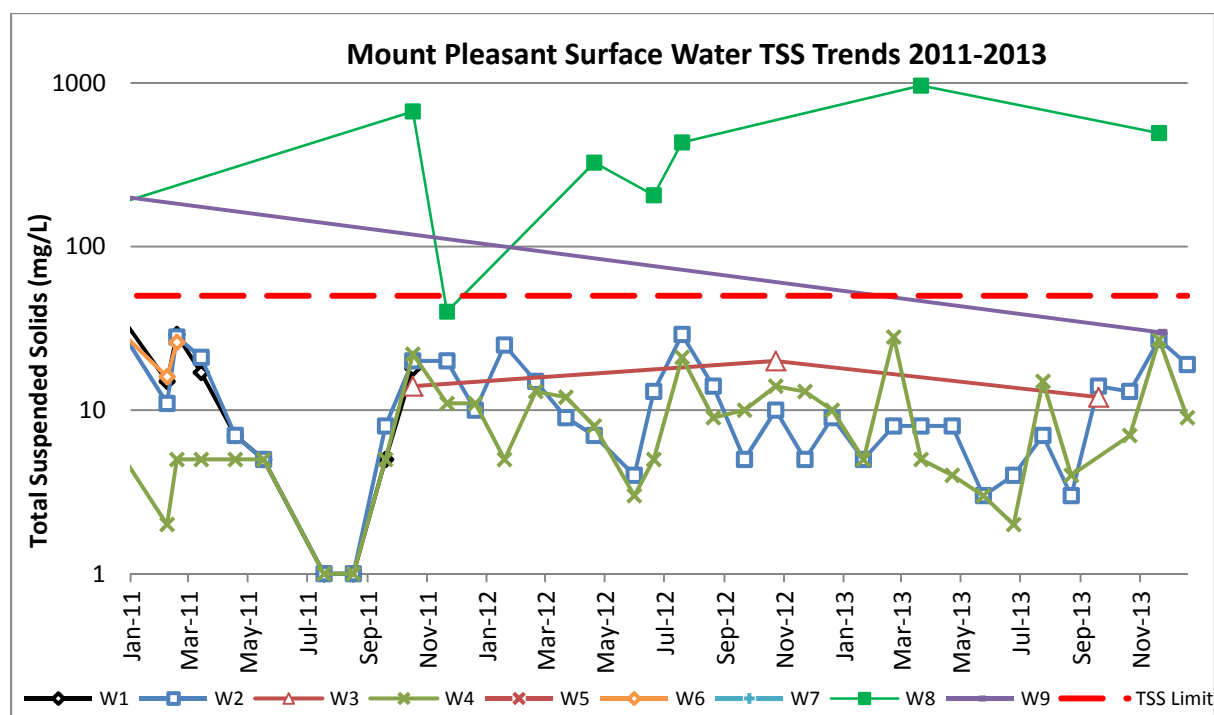


Figure 17 - Surface Water Total Suspended Solids Trends 2011– 2013

NB: This graph has been plotted on a logarithmic scale.

## Groundwater Monitoring

Groundwater monitoring is carried out at MTP to monitor water levels and water quality within the aquifers surrounding MTP prior to the commencement of mining activities. All sampling of groundwater is undertaken in accordance with the Australian Standard AS/NZ 5667.11 (1998), and sample analysis is carried out via approved methods, including a NATA accredited laboratory. The full sets of monthly monitoring results are illustrated in **Appendix 2**.

The monitoring program for groundwater management at MTP measures the quality of groundwater through the parameters of pH, EC, and Standing Water Level (SWL).

Quarterly groundwater monitoring is carried out using a network of 25 piezometers situated at MTP, as seen in Figure 1. Monitoring results are displayed in Figure 18 to Figure 26. The MTP site has been separated into three monitoring zones according to aquifer and potential future disturbance types:

- Central Groundwater Sites – representative of the hard rock aquifer
- Eastern Groundwater Sites – representative of the alluvial aquifer
- Western Groundwater Sites – representative of the hard rock aquifer in the proposed fines emplacement area.

Groundwater depth levels are recorded as depth from ground surface level, as well as depth from standpipe. An increase in depth translates into a drop in standing water level (SWL).

## Standing Water Levels

In 2013, SWL's remained relatively stable across all bore sites, with the exception of a large increase in standing water level at Central bore 5000D000 during August and November 2013 (Figure 18). The decrease appears to be due to a blockage that has developed, possibly from collapse of the borehole.

Figure 18 and Figure 19 show that at the central and eastern groundwater bores, SWL's have remained relatively constant over the period 2011– 2013.

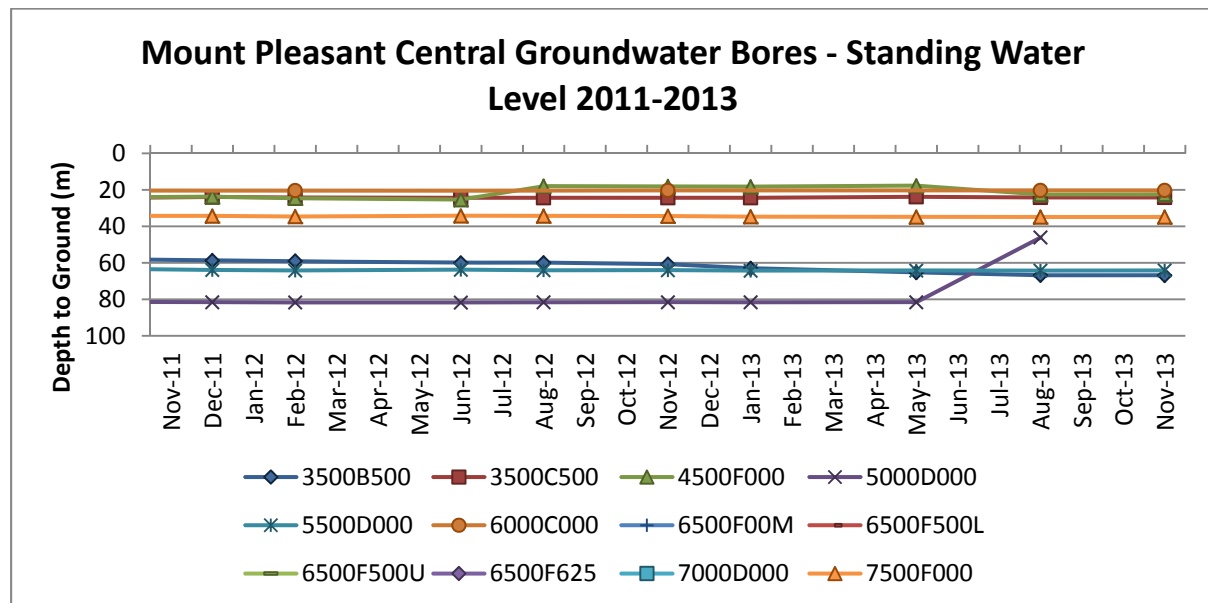


Figure 18 – Central Groundwater Boreholes Standing Water Levels 2011 – 2013

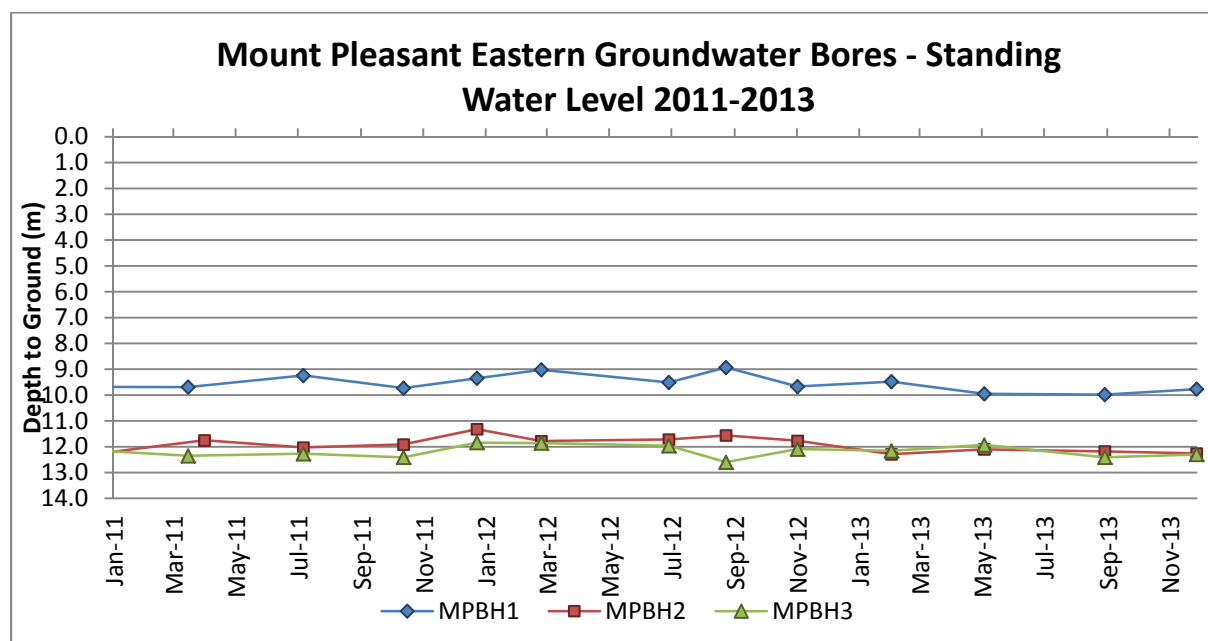


Figure 19 – Eastern Groundwater Boreholes Standing Water Levels 2011 – 2013

Figure 20 illustrates a greater fluctuation at the western bores from 2011-2013. There was an overall increase in the SWL across all the western bores between April 2007 and July 2009. The SWL has since been steadily decreasing at the majority of sites.

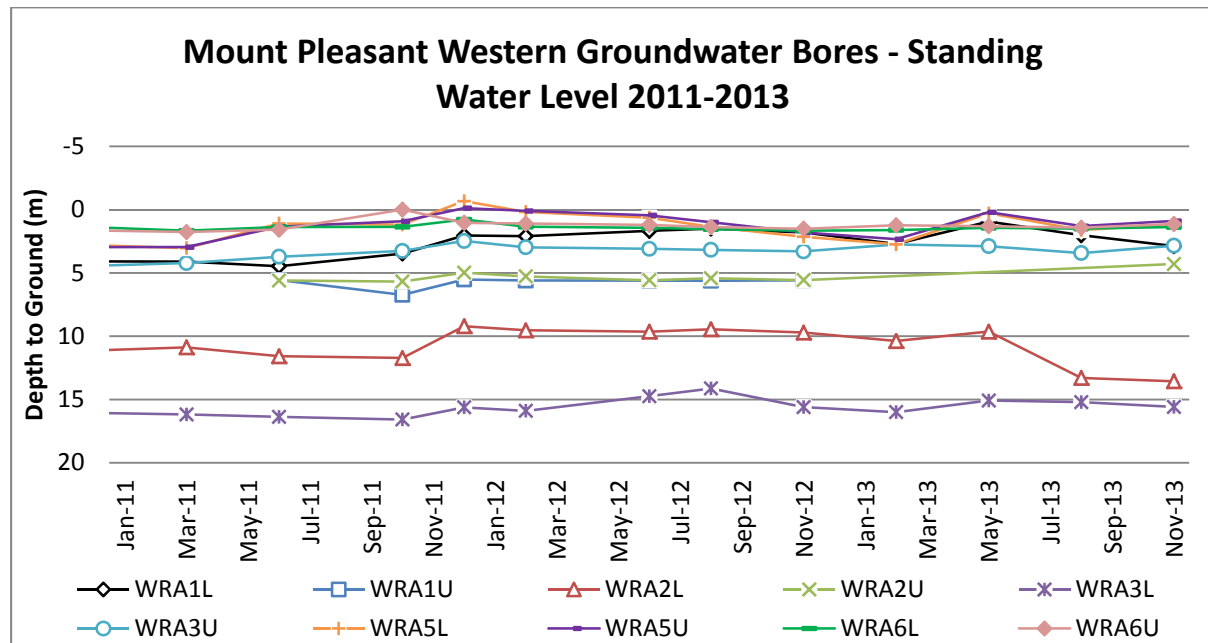


Figure 20 - Western Groundwater Boreholes Standing Water Levels 2011 – 2013

### pH Levels

The pH levels for MTP central groundwater bore sites ranged from pH 6.2 to 7.8 and were relatively stable throughout 2013 as seen in Figure 21 . There were no results for sites 6500F500U, 7000D000, 6500F00M, 6500F625 or 6500F500L as these bores were dry on all sampling dates in 2013. Longer term trends show that pH levels at the central groundwater bores has been erratic, however levels have remained within the 6.0 to 8.0 range.

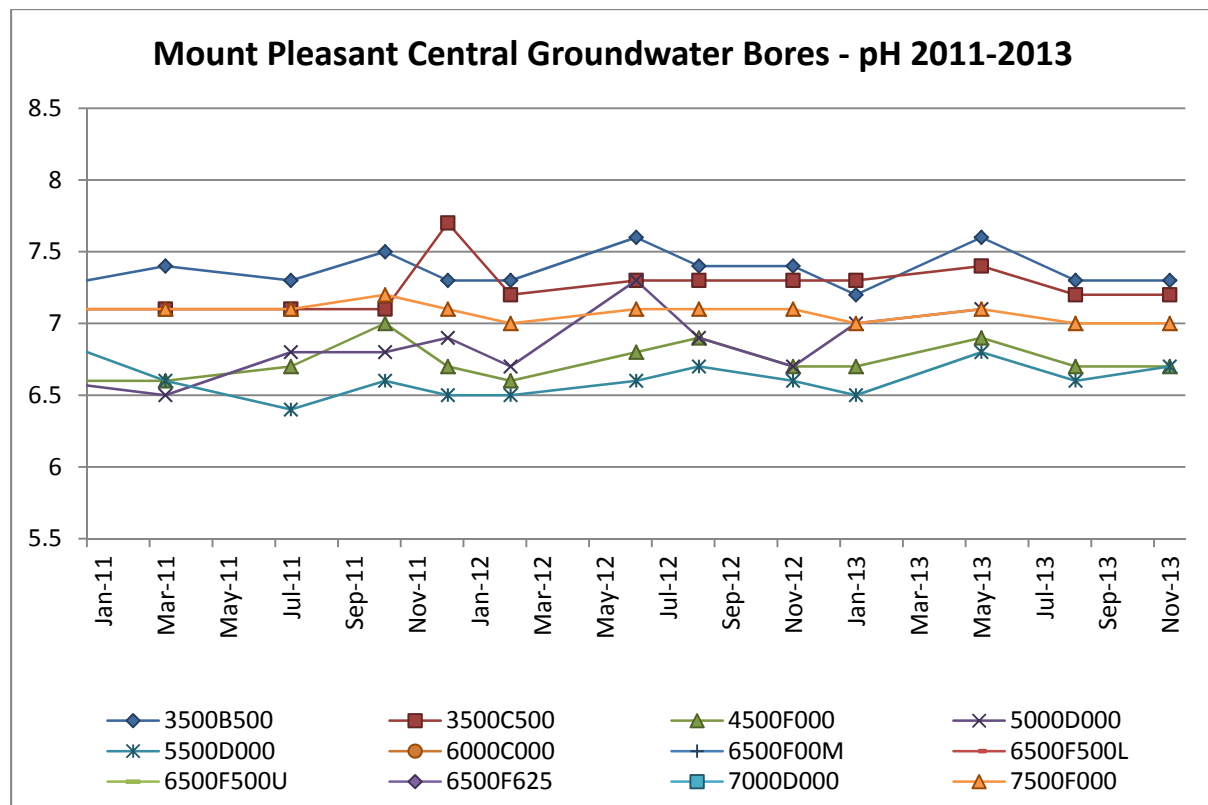


Figure 21 – Central Groundwater Boreholes pH Levels 2011 – 2013

The pH at the MTP eastern groundwater bores ranged from pH 6.9 to 7.4 in 2013. Figure 22 indicates the pH at MPBH1 and MPBH2 remained fairly constant over the year while MPBH3 showed an increase over the second half of 2013. None of the eastern groundwater bores registered a variation greater than 0.5 over the course of 2013. This figure also shows the eastern groundwater bores have experienced frequent fluctuations in pH between 2011 and 2013, but have stayed in the 6.0 to 8.0 range.



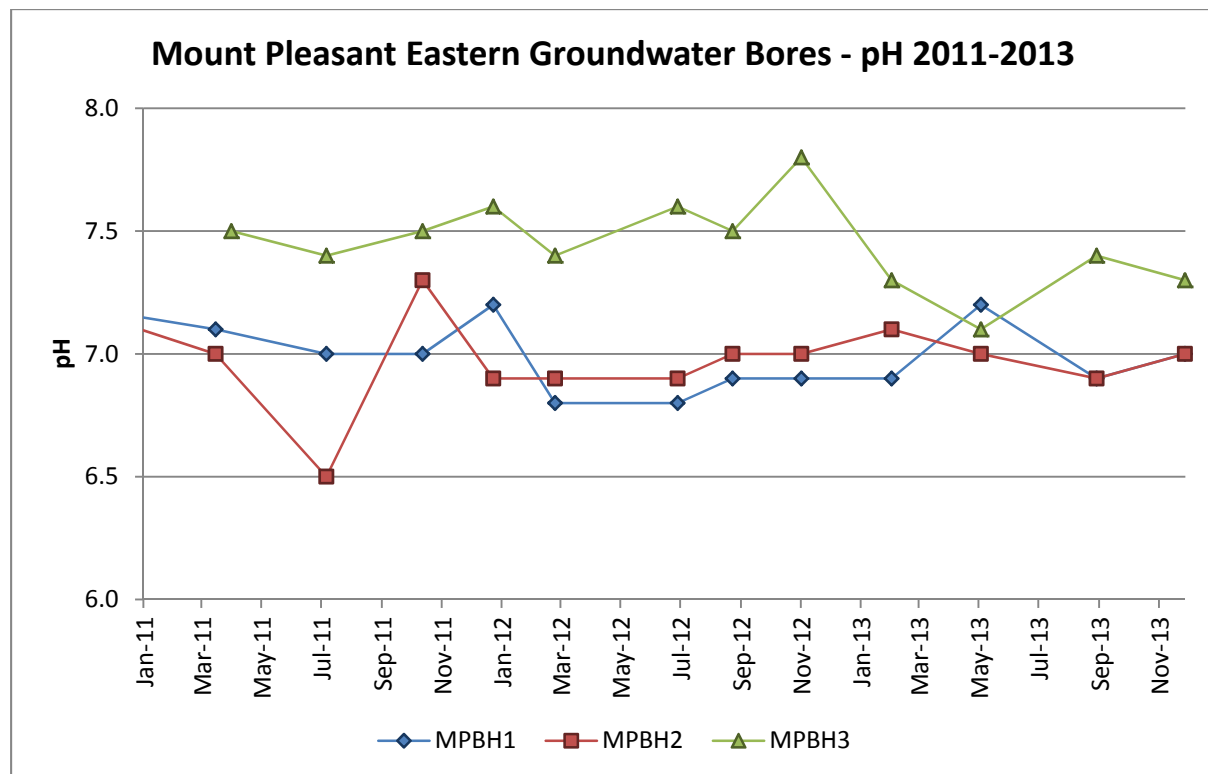


Figure 22 – Eastern Groundwater Boreholes pH Levels 2011 – 2013

The pH levels for MTP western groundwater bores registered pH levels between pH 6.5 and 7.8 as seen in Figure 23. Results for WRA1U are absent as the bore was dry on all sampling dates in 2013, similarly WRA2U was dry during every sampling event except November 2013. This figure also indicates that pH levels at the western bore sites have experienced frequent fluctuations in pH between 2011 and 2013, but have generally remained within the 6.5 to 8.0 range.

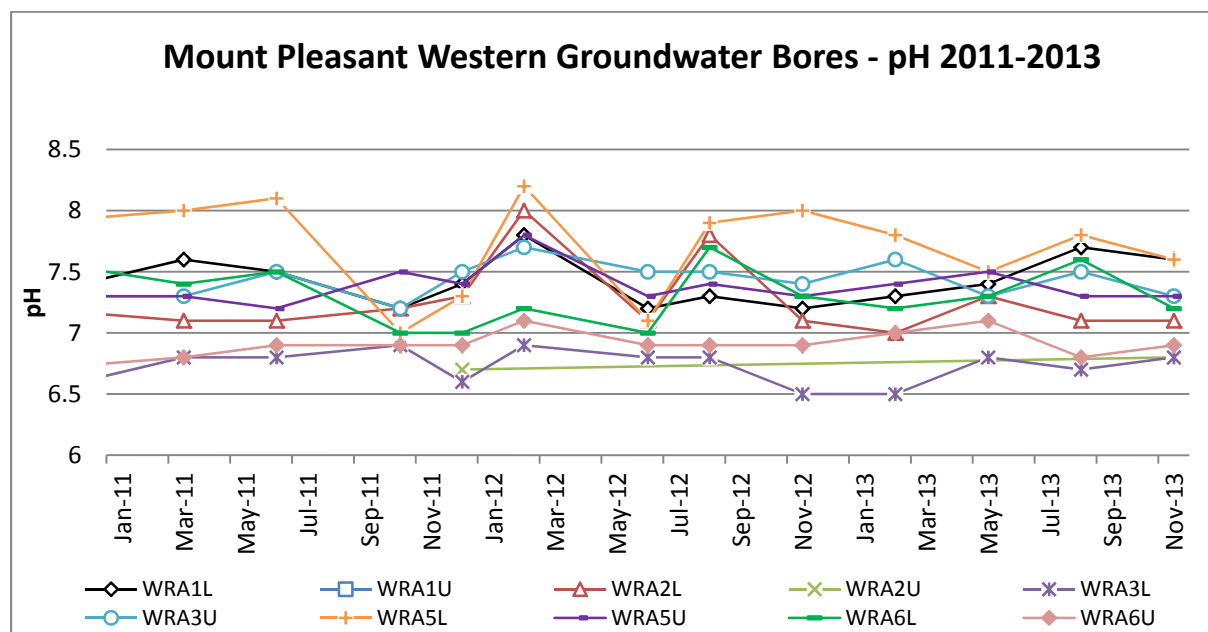


Figure 23 – Western Groundwater Boreholes pH Levels 2011 – 2013

### Electrical Conductivity

The EC remained stable for the majority of the central groundwater bores, however 3500C500 and 4500F000 showed a large degree of fluctuation as illustrated in Figure 24. The EC at 3500C500 increased from 777 $\mu$ S/cm to 3440 $\mu$ S/cm between January and May monitoring events, while 4500F000 increased from 2630 $\mu$ S/cm to 8850 $\mu$ S/cm to 3650 $\mu$ S/cm between January to August monitoring events. These results are similar to those recorded last year, however is not in keeping with historical records for the site. Electrical Conductivity levels will continue to be monitored throughout 2014 for consistency with the historical record. Results are not available for 6500F500U, 6500F625, 7000D000, 6500F00M, 6500F500L and 6000C000 because these bores were dry on all sampling dates in 2013, 5000DD000 was recorded as dry in August and November sampling events. The fluctuations experienced in central bores are typical for the area as they are greatly affected by the weather conditions of the region. EC levels can increase significantly during dry periods.

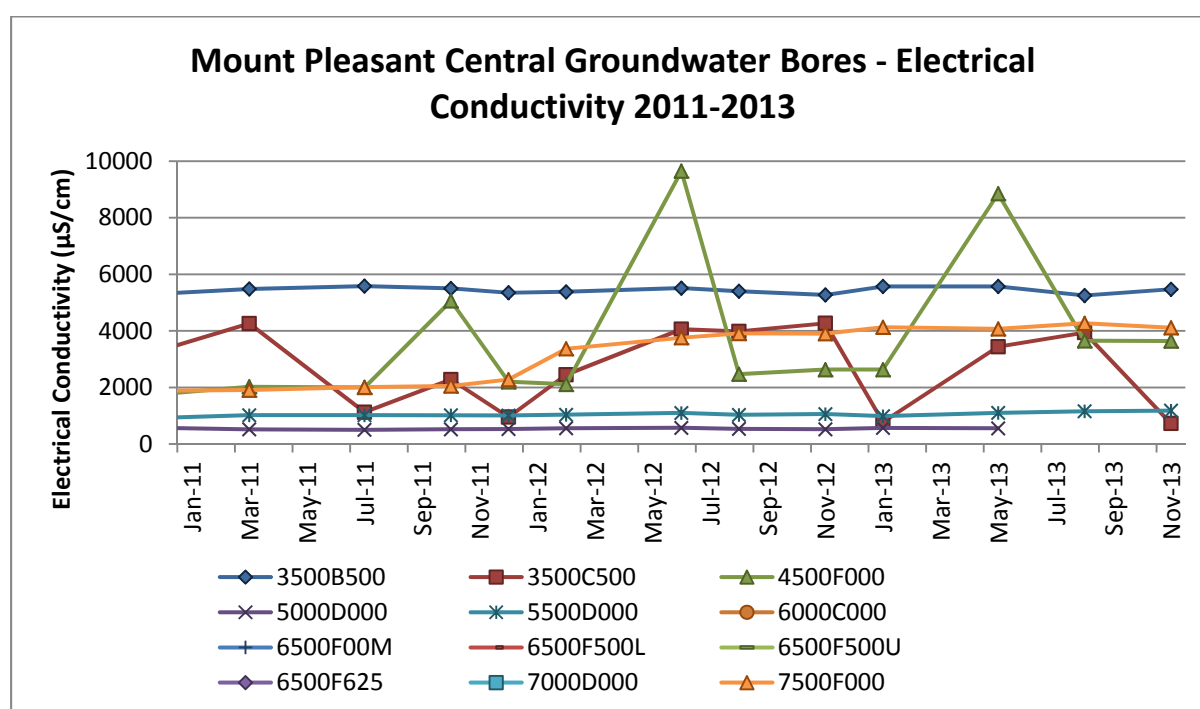


Figure 24 - Central Groundwater Boreholes Electrical Conductivity 2011 – 2013

In the eastern groundwater bores, EC levels remained fairly constant throughout 2013 with the exception of MPBH3, as indicated in Figure 25. Longer term trends reveal only minor fluctuations in the EC at the eastern boreholes. However, results from 2011 to 2013 and show EC levels between 3130 $\mu$ S/cm and 4690 $\mu$ S/cm, which is noticeably higher than the EC levels at MPBH1 and MPBH2.

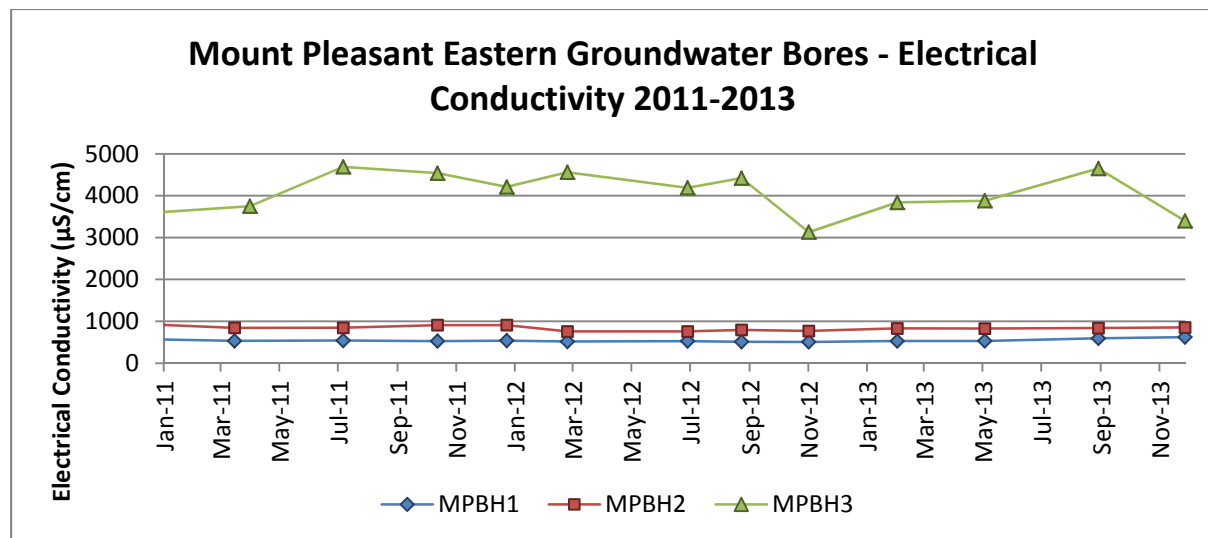


Figure 25 – Eastern Groundwater Boreholes Electrical Conductivity 2011 – 2013

In 2013, the EC level at the majority of the western groundwater bores remained reasonably constant as shown in Figure 26. WRA2L, WRA3U and WRA6U showed a slight variation in EC levels throughout the year. WRA2L decreased from 5250µS/cm to 4700µS/cm to 5290µS/cm between May to November 2013. WRA3U jumped from 610µS/cm to 6210µS/cm to 2820µS/cm to 488µS/cm throughout 2013. WRA6U varied between 10480 µS/cm to 9000 µS/cm to 9890 µS/cm to 10470 µS/cm throughout 2013.

Long term trends reveal greater variability in EC at the western bore sites compared to the central and eastern sites. The majority of western groundwater bores have experienced yearly fluctuations in EC ranging from 1000 to 3000µS/cm between 2011 and 2013. These trends show that variations of greater than 2000µS/cm occur commonly at the western groundwater bore sites.

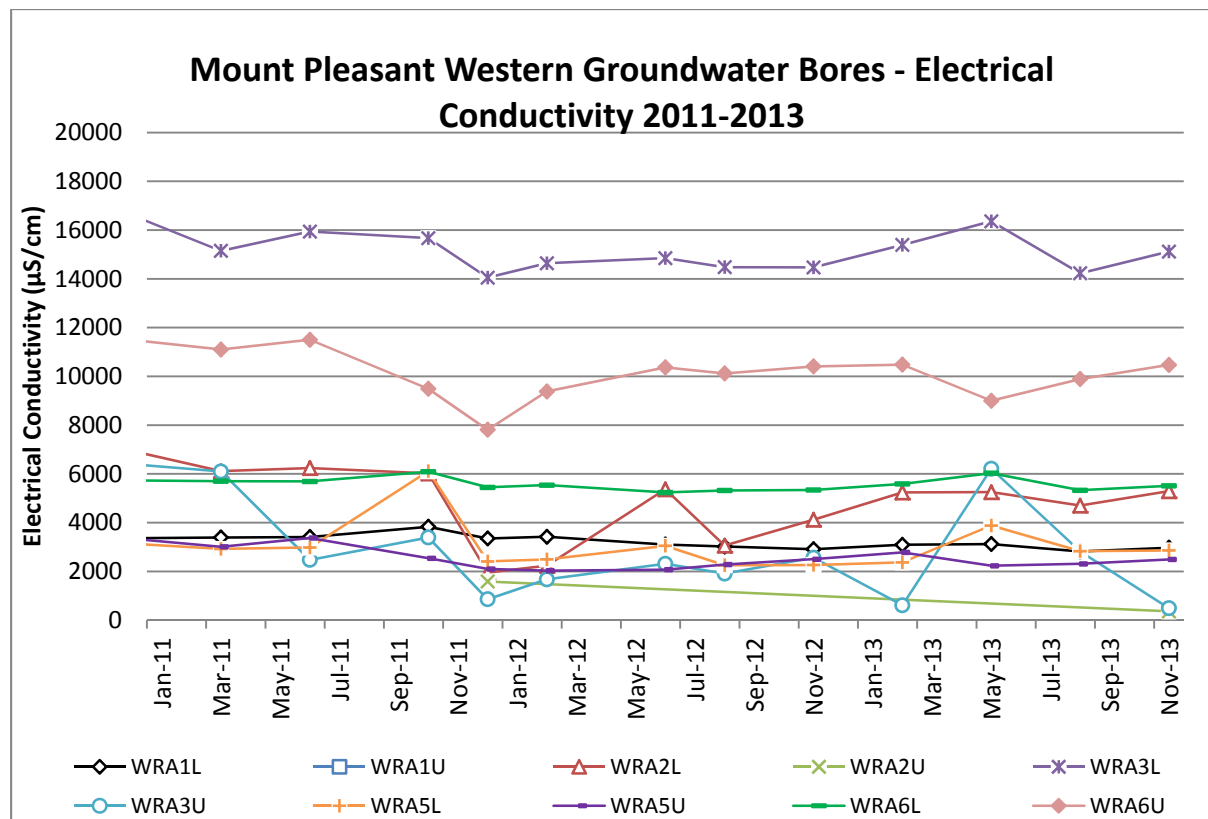


Figure 26 – Western Groundwater Boreholes Electrical Conductivity 2011 – 2013

## Noise Monitoring

Attended noise monitoring is conducted by an independent consultant. Attended noise monitoring was conducted once per quarter at six sites during 2013. The results are summarised in Table 7 and shown in Figure 1.

Table 7 – Attended Noise Monitoring Locations

Descriptor	Monitoring Location
Burtons Lane	Burton Lane, Muswellbrook
Aberdeen	Gordon Street, Aberdeen
Muswellbrook	Cnr Brook and Scott Streets, Muswellbrook
Kayuga	Little Acres, Kayuga Road, Kayuga
Kayuga Road	Cnr Kayuga and Wybong Roads, Muswellbrook
Wybong Road	1232 Wybong Road

**Attended Noise Monitoring**

Attended noise monitoring is conducted quarterly to quantify and characterise the existing noise environment prior to the mine being established. Attended monitoring, such as this, does not provide levels that could be considered representative (being only brief and irregular). However, it allows the identification of typical noise sources that contribute to the recorded noise levels in the area (e.g. other land uses, roads, insects etc.).

Attended monitoring was conducted in accordance with NSW EPA 'Industrial Noise Policy' (INP) guidelines and Australian Standard AS 1055 'Acoustics, Description and Measurement of Environmental Noise'. Atmospheric condition measurement was also undertaken at the time of monitoring.

Attended noise monitoring data for 2013 is summarised in **Table 8**. The duration for each measurement was 15 minutes. Monitoring was carried out once at each monitoring site during the night period. Noted noise sources included a combination of road noise, locomotion noise, mine continuum from other mining operations and rural noise sources including insects and frogs.

Table 8 – Attended Noise Monitoring Data

Location	Quarter 1				Quarter 2			
	L <sub>A1</sub> dB	L <sub>A10</sub> dB	L <sub>Aeq</sub> dB	L <sub>A90</sub> dB	L <sub>A1</sub> dB	L <sub>A10</sub> dB	L <sub>Aeq</sub> dB	L <sub>A90</sub> dB
Burtons Lane	53	50	45	38	59	48	47	37
Aberdeen	46	43	40	35	50	46	43	38
Kayuga	50	35	37	31	45	41	39	35
Kayuga Road	45	42	40	37	51	44	41	34
Wybong Road	44	37	36	33	44	41	38	35
Muswellbrook	49	48	43	34	49	43	41	35
Location	Quarter 3				Quarter 4			
	L <sub>A1</sub> dB	L <sub>A10</sub> dB	L <sub>Aeq</sub> dB	L <sub>A90</sub> dB	L <sub>A1</sub> dB	L <sub>A10</sub> dB	L <sub>Aeq</sub> dB	L <sub>A90</sub> dB
Burtons Lane	56	49	46	34	60	52	46	50
Aberdeen	48	42	39	32	44	41	37	38
Kayuga	45	41	37	28	43	38	34	35
Kayuga Road	44	39	37	28	53	43	39	42
Wybong Road	27	24	23	21	39	29	25	28
Muswellbrook	52	49	45	34	54	50	41	46

### Definitions

- **L<sub>A</sub>** The A-weighted root mean squared (RMS) noise level at any instant
- **L<sub>A1</sub>** The noise level which is exceeded for 1 per cent of the time
- **L<sub>A10</sub>** The noise level which is exceeded for 10 per cent of the time, which is approximately the average of the maximum noise levels
- **L<sub>A90</sub>** The level exceeded for 90 per cent of the time, which is approximately the average of the minimum noise levels. The L<sub>A90</sub> level is often referred to as the “background” noise level and is commonly used to determine noise criteria for assessment purposes.
- **L<sub>Aeq</sub>** The average noise energy during a measurement period
- **dB(A)** Noise level measurement units are decibels (dB). The “A” weighting scale is used to describe human response to noise.
- **Hertz (Hz)** Cycles per second, the frequency of fluctuations in pressure, sound is usually a combination of many frequencies together

## Land Management

### Erosion and Sediment Management

Following the construction of sediment dam ED1 in 2004/05, and the installation of the high level spillway for ED1 in 2005, seeding was undertaken to control the erosion and transportation of silt and sediment.

The dam is regularly inspected to assess cover growth and stability, and to ensure that there is sufficient capacity for sediment containment. This dam is operated to allow regulated flow to downstream landowners until the dam is required for pollution control. Visual inspections are conducted after runoff events to ensure that controls are effective.

No further soil erosion or sediment management programmes were undertaken at MTP in 2013.

### Topsoil Stripping, Landscape and Land Management

No topsoil stripping was undertaken at MTP in 2013.

Weed Control works in 2013 focussed on non mine riparian zones, outlying properties and Offset properties associated with the Mine project. Target weeds included *Cestrum Parqui* (Green Cestrum), *Cardiospermum grandiflorum* (Balloon Vine), *Macfadyena unguis cacti* (Cats Claw Creeper), *Tradescantia albiflora* (Wandering Jew), *Ricinus communis* (Castor Oil), *Lycium Ferocissimum* (African Boxthorn), *Hypericum perforatum* (St John's Wort) and *Rubus fruticosus* (Blackberry).

Following on from engagement with Catchment Management Authority on projects aimed at improving Coal & Allied's riverfront lands at east of the MTP Mining Lease land footprint in 2011, on ground works commenced on Stage 1 & 2 of the Mt Pleasant Rivercare Project, a joint Coal & Allied and Upper Hunter CMA project. Works included:

- riparian zone weed control;
- river bank fencing;
- installation of 2km of drip line irrigation; and
- the planting of approximately 1,500 native tree and understorey species designed to promote bank stability and native flora biodiversity.

As part of this project the Upper Hunter CMA, Department of Fisheries and Department of Soil Conservation used MTP riverfront properties as a construction and staging point in early 2013 for half a dozen fish hotels/log structures that were installed in the river bed to assist with bank/bed stabilisation and improve native fish survival rates via improved harbours and breeding sites.

In 2013 there was routine fence replacement/maintenance conducted on adjoining buffer properties.

## **Bushfire Management**

The Bushfire Management Plan developed in 2003 for all Coal & Allied owned land is updated annually in consultation with the NSW Rural Fire Service. The main objectives of this management plan are to minimise the risk of bushfires and to rapidly control any outbreaks that might occur. Control measures are in place to:

- minimise potential spreading of bushfires in and around Coal & Allied land;
- protect people, property and assets;
- protect areas of heritage value; and
- protect areas of threatened fauna and/or flora.

The control measures implemented to prevent and manage bushfires focus on minimising the amount of fuel available at MTP and its surrounding land. These measures include the slashing of vegetation along roads which are generally used as fire trails and the grazing of land. In 2013 this program was expanded after consultation with the NSW RFS Hunter Regional Command to include a further 20 km of boundary firebreaks and 5 km of internal firebreaks and trails. In addition a network of water tanks to assist resupply of RFS ground crews was established with upgrades to existing tank valving, signage and level indicators.

In the latter part of 2013 planning commenced for the reintroduction of livestock to areas temporarily vacated in 2012 to assist with fuel load management. In the event of a bushfire at MTP, Coal & Allied's emergency response procedure is triggered.

## **Rehabilitation**

As mining has not yet commenced, there has been no rehabilitation to date.

## **Fauna and Flora Management**

As construction and mining are yet to commence, the majority of flora and fauna management works in 2013 were aimed at maintaining the landscape as discussed in section 3.2. In 2013 a permanent base for native grass seed harvesting was established at the Warrawee Homestead, Castlerock Rd with MTP grasslands prepared by specialist contractors for native grass seed harvesting.



## Community Relations

Coal & Allied's approach to community relations is focused on building enduring relationships based on mutual respect, active partnership and long term commitment.

We are committed to:

- Having robust relationships with our communities of interest – this requires understanding the issues and needs of different stakeholders as well as active engagement; and
- Effectively contributing to communities – this means understanding the socio-economic environment and the community's vision for the future, and providing contributions that are sustainable and build long term community capacity.

These objectives also form the primary goals for the Mount Pleasant Project, and are reflected in our various stakeholder engagement plans for the Mount Pleasant Project and Muswellbrook community.

In 2013, Coal & Allied has undertaken local community relations activities in Muswellbrook across three key task areas: a) communication, b) consultation and engagement, and c) community development. These activities are outlined in detail in the following sections.

Community relations activities have been tailored to suit the current status of the Mount Pleasant Project, and planning and execution of community relations work has considered that the Mount Pleasant Project is currently undergoing internal review and future timeframes and construction plans remain uncertain.

## Communication

Members of the community are encouraged to engage in ways that suit them. A number of points of contact have been established. The Coal & Allied shopfronts in Muswellbrook (19 Bridge Street) and Singleton (127 John Street) continue to ensure that Coal & Allied is an active and accessible member of the community.

Coal & Allied operates a free call Community Information Line (1800 727 745). This information line provides an avenue for members of the community to seek information regarding the Mount Pleasant Project, or other Coal & Allied operations or activities. This number is advertised regularly in local newspapers and community newsletters.

In addition, Coal & Allied operates a free call 24-hour Environmental Contact Line (1800 656 892) that allows any member of the community to lodge an official enquiry 24 hours a day, 7 days per week. This number is advertised in the local newspaper, phonebook and Coal & Allied community newsletters. During 2013 no complaints or enquiries relating to the Mount Pleasant Project were received on this contact line.

The community are also invited to find out more about our operations and projects online, and can view copies of our latest newsletters, public reports and information about our Community Consultative Committee (CCC) at [www.riotintocoalaustralia.com.au/3721\\_mount\\_pleasant\\_project.asp](http://www.riotintocoalaustralia.com.au/3721_mount_pleasant_project.asp)

Coal & Allied provides updates on the Mount Pleasant project, and other activities in the community, through our community newsletters. Four editions of the newsletter were distributed across the upper Hunter Valley in 2013, including to Muswellbrook and surrounding communities such as Aberdeen and Denman.

## **Consultation & Engagement**

Coal & Allied's approach to community engagement and consultation involves providing information regarding its activities in a timely, clear, open and transparent manner, and then seeking feedback from communities to understand the potential impacts of its activities.

We engage in regular consultation and ongoing communication with our stakeholders, as appropriate to the status of the project. Feedback from neighbours and local communities is used to inform future decision-making.

In 2013, Coal & Allied has undertaken a range of consultation and engagement activities, including:

- MTP Community Consultative Committee (CCC) meetings (see more detail below);
- near neighbour engagement, with consultation to provide project updates and information as appropriate;
- Muswellbrook Shire Council, with regular briefing sessions to provide an overview of progress on the Mount Pleasant Project;
- School engagement, working with teachers and students to assist and enhance learning outcomes and build relationships;
- Participation in the Upper Hunter Mining Dialogue, a programme coordinated by the NSW Minerals Council to engage the community across the Hunter Valley;
- Participation in the NSW Minerals Council Hunter Valley Aboriginal Community Working Group; and
- Participation in the Muswellbrook Chamber of Commerce and Industry.

Relationships with the local community have been strengthened through our involvement in local community events, including Bursting with Energy Expo which celebrated its 12th year in 2013. This event continued to bring together representatives from the local mining and energy industries to help students and the broader community learn more about energy and electricity generation, mining and the range of sustainable and environmental programmes underway in the region.

### ***Community Consultative Committee (CCC)***

The Mount Pleasant CCC was formed in 2004, and has met regularly since. The CCC is an important communication and engagement tool, as the group acts as the point of contact to provide feedback between the mines and the community.

The Mount Pleasant CCC is made up of community and Council representatives, and in 2013 members and attendees have included:

- Cr Rod Scholes (Chair);
- Cr Karen Portolan (Deputy Chair);
- Mr Jonathon Moore;

- Mr Tim Troon;
- Mr Trevor Parkinson;
- Ms Llewellyn Bates;
- Mr Rod Upton ;
- Mr Craig Flemming ; and
- Mr Glen Bunny.

In 2013, Mount Pleasant CCC meetings were held in March, June and November, an overview of these meetings is provided in **Table 9**.

Table 9 - Mount Pleasant Project overview of 2013 CCC meetings

Date	Overview
March 2013	The first CCC meeting for 2013 was held in the Coal & Allied Muswellbrook shopfront, and presentations provided CCC members with an update on the progress of the Mount Pleasant Project; project approvals; environmental monitoring data; land management; and community relations.
June 2013	<p>At the request of members, the CCC visited some of the Mount Pleasant Project biodiversity offset properties in the Merriwa district. Coal &amp; Allied Manager Land Offsets Nel Byatt provided CCC members with</p> <ul style="list-style-type: none"> <li>• an overview of the Mount Pleasant Project offsets and recent development of the Offset Management Plan.</li> <li>• background on the management approaches outlined in the Plan, including strategic grazing and conservation management strategies to protect and enhance the Box Gum Grassy Woodlands and other environmental values.</li> <li>• information about the four protected species whose habitat is to be improved and monitoring from the implementation of the management plan, being the Swift Parrot, Regent Honeyeater, Spotted-tail Quoll and Greater Long-eared Bat.</li> </ul> <p>Heritage specialist Joel Deacon also joined the group, and provided CCC members with an overview of the history and heritage of the properties, including showing the group around an old and disused shearing shed (see photo below).</p>
November 2013	<p>The final meeting for 2013 focused on land management and specifically bushfire management.</p> <p>After a short meeting, CCC members toured the Mount Pleasant site to see the range of fire management activities that Coal &amp; Allied have conducted, including roadside verge maintenance and slashing, internal and boundary off-road fire breaks, development of on-site tank network to provide water for Rural Fire Service use, and development of Rural Fire Service link tracks across the site.</p>

The approved minutes of the CCC meetings are available online ([www.riotintocoalaustralia.com.au](http://www.riotintocoalaustralia.com.au)).



Figure 27 - Mount Pleasant CCC members visit some of the Project's biodiversity offset properties.

## Community Development

In 2013 Coal & Allied continued our focus on the long term sustainability of the communities where we operate, through our community development programmes:

- Coal & Allied Community Development Fund (CDF);
- Coal & Allied Aboriginal Community Development Fund (ACDF);
- Site Donations (Mount Pleasant); and
- Community partnerships.

Key areas of focus for community development in 2013 have included education, economic, environment and social/cultural, with 22 new and 39 ongoing programmes supported by our CDF and ACDF. Together the Funds contributed more than \$1.6 million during 2013 to supporting capacity building and contribute to the long term sustainability of our surrounding communities.

For more information about our community funding programmes visit [www.riotintocoalaustralia.com.au](http://www.riotintocoalaustralia.com.au)



Figure 28 - Coal & Allied's community partners at the 2013 end of year celebration

Coal & Allied also supports the development of our communities through other programmes, such as the Conserving Country Training Programme (CCTP). This programme was established in 2012 by Coal & Allied, in partnership with Novaskill, to provide employment and training opportunities and to support the desire of local Aboriginal community members to become more involved in environment and land management practices.

A key work programme for the programme in 2013 was the Mount Pleasant Riparian project. The CCTP team supported Coal & Allied in undertaking weed removal, installation of drip lines for irrigation, and the planting of over 1000 trees as part of our partnership with the Catchment Management Authority to address river degradation in the Hunter River.



Figure 29 - CCTP participants (pictured with CNA staff), undertaking MTP Riparian project

***Coal & Allied Community Development Fund***

The CDF has contributed almost \$13 million since its inception in 1999, into community projects in the LGA areas of Singleton, Muswellbrook and Upper Hunter, as well as Maitland and Cessnock, as shown in Figure 30. Currently in its fifth round of funding, Coal & Allied has committed \$4.5 million over three years from 2012 to 2014.

More than 115 projects have been supported since the fund's inception. These partnerships enable Coal & Allied to work with a wide range of groups who share our values and goals to help build sustainable and robust communities in the Hunter Valley. CDF spend is prioritised around the needs of the community, which are identified through regional plans, consultation and socio-economic baseline studies. Projects with deliverable outcomes around education, environment, social and business / development are eligible for funding, as shown in our investment profile in Figure 31.

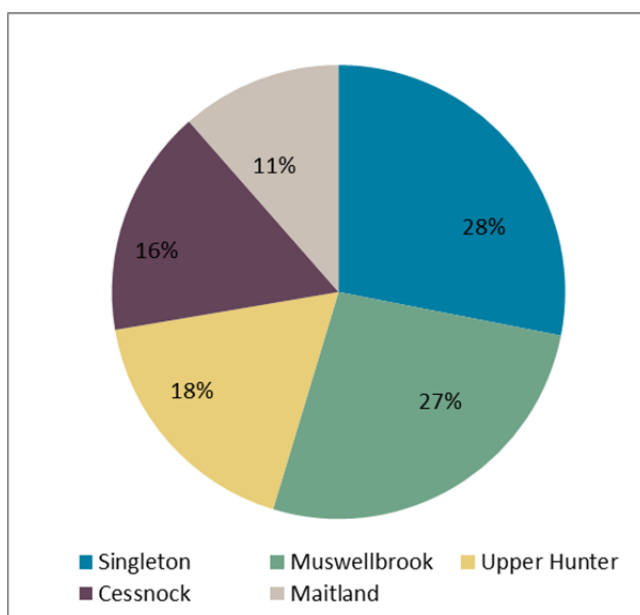


Figure 30 - Coal & Allied CDF investment by location in 2013

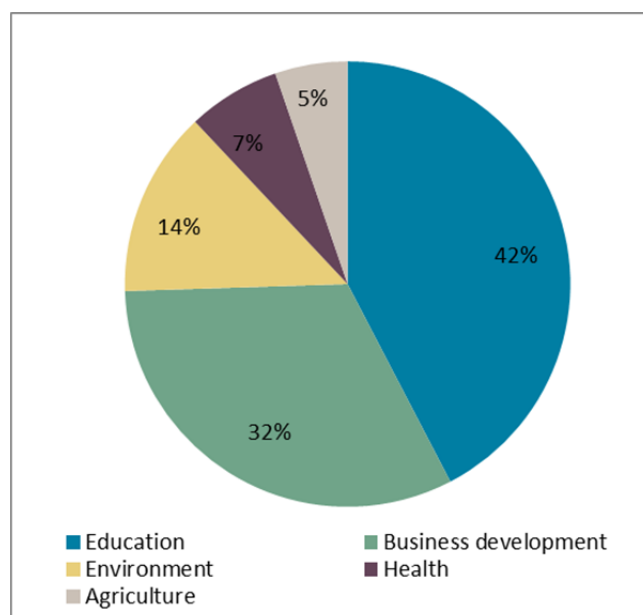


Figure 31 - Coal & Allied CDF 2013 investment profile

In 2013 the CDF distributed over \$1 million, approving three new programmes that will help deliver long term benefits for communities in a focused catchment area of Muswellbrook, Singleton and Upper Hunter shires as described in Table 10. In addition, funds have also continued to support 23 projects which were approved prior to 2013 (Table 11), and which continue to be active in our communities.

Table 10 - Coal &amp; Allied CDF projects approved in 2013

<u>Programme</u>	<u>Partner</u>
Healthy Dads, Healthy Kids: Transitioning to Sustainability	<i>Hunter Medical Research Institute</i>
Singleton Economic Development & Funding Coordinator	<i>Singleton Council</i>
Old Great North Road Interpretive Project	<i>The Convict Trail Project</i>

Table 11 - Currently active Coal &amp; Allied CDF programmes (approved prior to 2013)

<u>Programme</u>	<u>Partner</u>
Time Capture... The Making of	<i>Maitland City Council</i>
Healthy Dads, Healthy Kids (ongoing prior to renewal in 2013)	<i>Hunter Medical Research Institute</i>
Singleton Business Development & Funding Coordinator (ongoing prior to renewal in late 2013)	<i>Singleton Council</i>
Upper Hunter Education Foundation Fund Scholarships	<i>Upper Hunter Education Fund</i>
Upper Hunter Science & Engineering Challenge	<i>The University of Newcastle</i>
Upper Hunter Shire Council Community Engagement Officer	<i>Upper Hunter Shire Council</i>
River Paramedics	<i>Conservation Volunteers Australia</i>
Cessnock Community Grants Officer Project	<i>Cessnock City Council</i>
Hunter Valley Creative Communities	<i>The Song Room</i>
Microenterprise Development in the Hunter	<i>Many Rivers Microfinance</i>
Business Growth Seminars	<i>Hunter Region Business Enterprise Centre</i>
Community Liaison and Grants Officer	<i>Muswellbrook Council</i>
Building Skills & Leadership Capacity in Rural NSW	<i>Royal Agricultural Society (NSW) Foundation</i>
Hunter Youth Leadership Project	<i>The Australian Outward Bound Development Fund</i>
Upper Hunter Beef Bonanza	<i>Upper Hunter Beef Bonanza Inc</i>
People in Your Neighbourhood - Sustainability Street	<i>Muswellbrook Shire Council</i>
Vocational Training Consultant	<i>St Philip's Christian Education Foundation</i>
Total Schools Steer Challenge	<i>Department of Primary Industries Tocal College</i>
People & Place   Coal & Community Project	<i>University of Newcastle</i>
Play Up program	<i>Denman &amp; District Retirement Centre Association Inc</i>



Local SME Supply Chain Participation project	<i>HunterNet</i>
Place Making in Singleton	<i>Singleton Council</i>
Scholarship program	<i>University of Newcastle</i>

### **Coal & Allied Aboriginal Community Development Fund**

*(Previously the Aboriginal Development Consultative Committee (ADCC))*

Coal & Allied, in partnership with the Upper Hunter Valley Aboriginal Community, launched the Aboriginal Community Development Fund (ACDF) (formerly the Aboriginal Development Consultative Committee) in 2006. Since its inception, the fund has invested approximately \$600,000 each year to projects benefiting Upper Hunter Valley Aboriginal communities.

The ACDF is a funding programme accessible by any Aboriginal person or organisation in the Upper Hunter Valley region undertaking a project to benefit specific target groups or with the potential to benefit the wider Aboriginal community.

Through the ACDF, Coal & Allied has been supporting education, training, community and business development projects most likely to deliver long term, sustainable outcomes for Upper Hunter Valley Aboriginal communities, in the areas of Singleton, Muswellbrook and Upper Hunter.

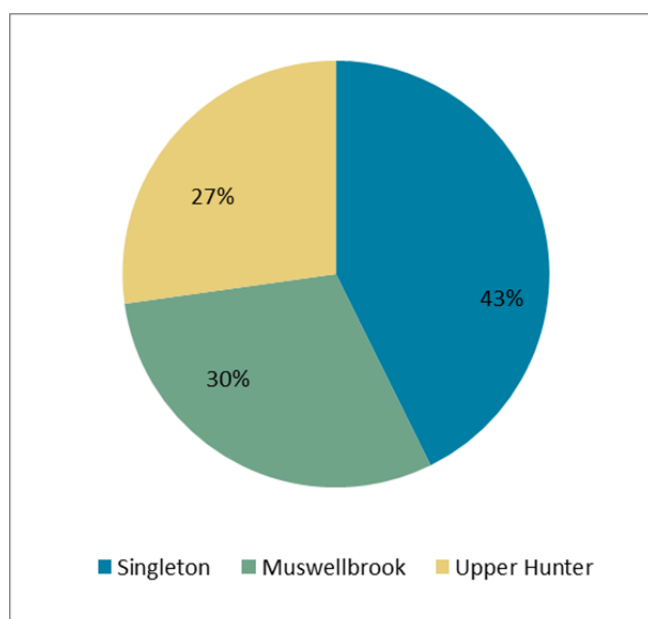


Figure 32 - Coal & Allied ACDF investment by location in 2013

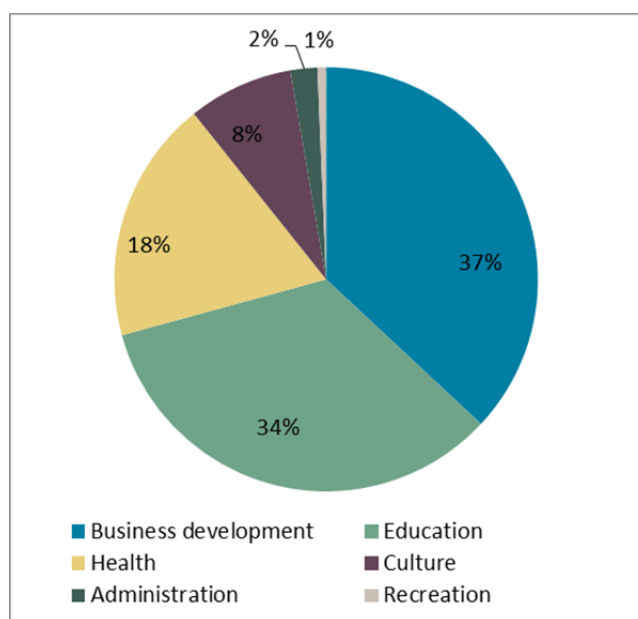


Figure 33 - Coal & Allied ACDF 2013 investment profile



In 2013 the ACDF distributed \$585,327, which was more than 99% of available funds (\$590,000) as shown in Table 12. Almost 90 per cent of funding was allocated to programmes aligned with the ADCF's priority funding areas, being education, business development and health.

Table 12 - Coal & Allied ACDF projects and sponsorships approved in 2013

<b><u>Programme</u></b>	<b><u>Partner</u></b>
Scrap Metal Business	<i>D &amp; S Demolition</i>
Aboriginal Environmental Enterprise Strategic Support	<i>Wanaruah Local Aboriginal Land Council</i>
Native Plant Nursery	<i>Wonnarua Mine Rehabilitation</i>
Business Plan Development	<i>LM Perry Lawn Mowing</i>
CEO & Strategic Plan Update	<i>Wonnarua Nation Aboriginal Corporation</i>
NAIDOC week Local Aboriginal Art Prize - 2013	<i>Muswellbrook Shire Council</i>
Naidoc Indigenous Women's Celebration Dinner 2013	<i>Mandurah Hunter Indigenous Business Chamber</i>
Bangarra Dance Excursion	<i>ACDF initiative</i>
Singleton Art Prize	<i>Singleton on Hunter Rotary Club</i>
Ka-wul 2013 - 2015	<i>Singleton High School</i>
Partnerships for Success 2013-2015	<i>Polly Farmer Foundation</i>
Project Management Ka-wul & Yinpi Programmes	<i>Principals Australia</i>
Indigenous Scholarships	<i>University of Newcastle</i>
YINPI - Post School Pathways Programme	<i>Singleton High School</i>
Education Assistance	<i>Chloe Griffiths</i>
Education Assistance	<i>Doug Van Vliet</i>
National Indigenous Tertiary Education Student Games (NITESG)	<i>Chloe Griffiths</i>
Aboriginal Rugby League Knockout Competition 2013	<i>Castlereagh All Blacks</i>
2013 NSW Aboriginal Rugby Knockout Competition	<i>Wonnarua United Rugby League Football Club</i>

Table 13 - Currently active Coal & Allied ACDF projects approved prior to 2013

<b><u>Programme</u></b>	<b><u>Partner</u></b>
Sustainable Employment and Training	<i>Compass Housing</i>
Micro Enterprise Development in the Hunter	<i>Many Rivers Microfinance</i>
Native Plant Nursery (ongoing prior to renewal of funding in 2013)	<i>Wonnarua Mine Rehabilitation</i>
CEO & Strategic Plan Update (ongoing prior to renewal of funding in 2013)	<i>Wonnarua Nation Aboriginal Corporation</i>
NAIDOC Inspired Programs 2011 to 2013	<i>Singleton Schools</i>
Upper Hunter NAIDOC Week 2011 to 2013	<i>Wanaruah Local Aboriginal Land Council</i>

Wupa@Wanarauh Exhibition 2013	<i>Ungooroo Aboriginal Corporation</i>
Singleton Art Prize (with funding renewed in 2013)	<i>Singleton on Hunter Rotary Club</i>
Warrae Wannu 2012 - 2015	<i>Muswellbrook South School</i>
Indigenous Youth School Based Traineeships	<i>Singleton Council</i>
Ka-wul 2013 – 2015 (ongoing prior to renewal of funding in 2013)	<i>Singleton High School</i>
Partnerships for Success 2013-2015 (ongoing prior to renewal of funding in 2013)	<i>Polly Farmer Foundation</i>
Project Management Ka-wul & Yinpi Programmes (ongoing prior to renewal of funding in 2013)	<i>Principals Australia</i>
Indigenous Scholarships (ongoing prior to renewal of funding in 2013)	<i>University of Newcastle</i>
YINPI - Post School Pathways Programme (ongoing prior to renewal of funding in 2013)	<i>Singleton High School</i>
Social Emotional Wellbeing Worker (SEWB)	<i>Upper Hunter Drug and Alcohol Services</i>

### ***Mount Pleasant Site Donations funding***

Through the Mount Pleasant Project, Coal & Allied contributes to programmes identified by, and preferably in partnership with, local communities. We support a range of organisations that share our goal of delivering sustainable outcomes for the communities in which we operate.

Funding through Mount Pleasant site donations is focussed on the communities immediately surrounding the project, as well as the biodiversity offset areas associated with the Mount Pleasant project.

Local projects and initiatives supported in 2013 included:

- Aberdeen Playgroup;
- Aberdeen Tigers Rugby League Club;
- Book Week author visits;
- Cancer Council Relay for Life;
- Merriwa Ringer;
- Merriwa Springtime Show and Festival of the Fleeces;
- Muswellbrook Blue Heeler Film Festival;
- Muswellbrook Shire Council Solar Boat Challenge;
- NSW Rural Women's Gathering;
- Upper Hunter Eisteddfod; and

- Wildlife Aid.

In 2013 Coal & Allied was also pleased to be part of the opening of the Muswellbrook joint services storage facility, with the Mount Pleasant project making a substantial contribution towards to the construction of this facility. The Joint Storage Facility will provide the Muswellbrook Lions, Apex and Rotary clubs with an area to safely secure their equipment, as well as an opportunity for the groups to share assets and work together to provide an improved service to the community.



Figure 34 - Club members and community members attend the opening of the Muswellbrook Joint Service Clubs storage facility

## Partnerships

Coal & Allied has retained an active partnership programme in 2013 with key organisations that provide services valued by the community and have an approach to their business that is aligned with Coal & Allied principles.

The ongoing partnership with Hunter based organisations demonstrates Coal & Allied's strong commitment to the Hunter Region.

### Hunter Medical Research Institute (HMRI)

The HMRI is an umbrella organisation which supports medical research in the Hunter. By contributing to the Institute, Coal & Allied recognises the importance of the research to the overall health of the Hunter's population.

### Hunter Valley Research Foundation (HVRF)

In 2013, Coal & Allied continued its sponsorship of the HVRF. The HVRF is a not for profit organisation whose research assists organisations in the region with stakeholder engagement and business development.

### Westpac Rescue Helicopter Service

Coal & Allied is a major sponsor of the Westpac Helicopter Rescue Service and is pleased to support a service which helps protect the wellbeing of employees and the wider Hunter community.

#### Hunter Central Rivers Catchment Management Authority (HRCMA)

In 2013 Coal & Allied continued working in partnership with the HRCMA, with the joint objectives of:-achieving on-ground environmental outcomes in areas of mutual influence, sharing information and raise awareness within each organisation of the role and contribution of the other and demonstrating that the community and industry can work together successfully to deliver environmental outcomes.

#### The University of Newcastle (UoN)

Since 2011 Coal & Allied and the UoN have enjoyed a strong relationship underpinned by a formal partnership agreement. The purpose of this Agreement is to facilitate and promote cooperation between the University of Newcastle and Coal & Allied in career awareness raising, engaged learning (including Work Integrated Learning opportunities), professional development, research and scholarship programs.

### **Relations with the Local Aboriginal Community**

RTCA works closely with the Aboriginal community of the Upper Hunter Valley, which participates in all aspects of Coal & Allied's cultural heritage program. Guided by the Rio Tinto Communities and Cultural Heritage Management Standards, the RTCA Cultural Heritage Unit has developed a Cultural Heritage Management System (CHMS) that applies across all RTCA owned projects and operations, including MTP.

RTCA established the Coal & Allied Upper Hunter Valley Aboriginal Cultural Heritage Working Group (CHWG) in September 2005. This acts as the primary forum for Aboriginal community consultation on matters pertaining to cultural heritage. The CHWG is comprised of representatives from RTCA and Aboriginal parties/stakeholders from Upper Hunter Valley Aboriginal community groups, corporations and individuals. The CHWG met on three occasions in 2013: 7<sup>th</sup> March, 22<sup>nd</sup> August and 5<sup>th</sup> December.

CHWG discussions pertaining to development activities requiring assessment and Aboriginal Heritage Impact Permit (AHIP) approvals under Part 6 of the *National Parks and Wildlife Act 1974* (NPW Act) are held in accordance with the Office of Environment & Heritage's (OEH) "Aboriginal cultural heritage consultation requirements for proponents 2010". CHWG discussions pertaining to approvals under Part 3A of the *Environmental Planning and Assessment Act 1979* (EPA Act) are held in accordance with the "Draft Guidelines for Aboriginal cultural heritage impact assessment and community consultation guidelines" (July 2005).

The CHWG process was established so that RTCA and the Aboriginal community could participate in the development and implementation of improved cultural heritage consultation and management processes in the Upper Hunter Valley. This approach involves ongoing direct engagement between RTCA personnel and the Aboriginal community, rather than outsourcing the consultation relationship to a third party. Using this approach, RTCA has established a robust relationship with the Aboriginal community that has enabled the cooperative development of Aboriginal cultural heritage management programs that the Aboriginal community is encouraged to jointly design, implement, help manage, and participate in.

The CHWG has developed cultural heritage processes that encompass agreed community consultation procedures, terms of reference (scope of works) for each cultural heritage project, cultural heritage investigation and assessment methodologies, the selection and engagement of Aboriginal corporate entities to provide project management and administrative coordination services, and the selection and engagement of Aboriginal cultural heritage field officers.

The CHWG developed an innovative process for the selection of administrative coordinators, Aboriginal cultural heritage field officers and technical advisors to support the RTCA cultural heritage program. In consultation with the CHWG, RTCA advertised nationally for expressions of interest from technical advisors (e.g. archaeologists, anthropologists, historians) and regionally for both administrative coordinators (e.g. local Aboriginal corporations) and cultural heritage field officers (CHFOs - e.g. people recognised by the Aboriginal community as being culturally qualified to conduct heritage work) to register with the CHWG to participate in project work. Registers of CHFOs, administrative coordinators and technical advisors have been established for this purpose. The CHWG oversees the selection and rostering of field officers, coordinators, and advisors to ensure an equitable and transparent process for the conducting of cultural heritage field programs.

### **Management of Archaeology and Cultural Heritage**

Archaeology and cultural heritage at MTP are managed in consultation with the Aboriginal community through the CHWG in accordance with the Rio Tinto Cultural Heritage Management Standard, RTCA CHMS Work Procedures, the Aboriginal Cultural Heritage Management Plan, Development Consent conditions, the NPW Act (including the OEH Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010) and the EPA Act.

The original Development Consent noted that the proposed mine site had been the subject of cultural heritage investigations in 1995. Drawing on the results and recommendations of those investigations, the key conditions with respect to Aboriginal cultural heritage included that:

- an Archaeology and Cultural Management Plan is to be prepared that includes any decision made on the management of Aboriginal cultural heritage sites and places of significance, including the management of places that will not be affected by the proposed development program;
- the conditions of consents required under the NPW Act are to comply with the above requirement (1); and
- prior to the commencement of any construction works within the DA area, and prior to the lodgement of any application under section 90 of the NPW Act, the Applicant shall (unless otherwise determined by the Director-General) enter into negotiations with the NPWS and the Wonnarua Tribal Council to identify and reach an agreement on off-site conservation options of comparable biodiversity and archaeological values.

The modified development consent conditions, issued 19 September 2011, included the following key components relating to Aboriginal Cultural Heritage:

- an Aboriginal Heritage Conservation Strategy (AHCS) is to be prepared & implemented that:
  - provides for the establishment & conservation of an off-site Aboriginal Cultural Heritage conservation area

- includes a detailed implementation plan (to be outlined in a Aboriginal Heritage Management Plan (AHMP))
  - demonstrates, within 2 years, that suitable arrangements for the long term security of the conservation area/s have been made.
- A detailed history (including detailed historical research & oral history) of the MTP locality must be prepared by the end of December 2013.
- An AHMP is to be prepared & implemented that:
  - contains a detailed plan for the implementation of the AHCS
  - details measures for complying with any AHIPs granted, protecting sites that are to remain in situ, storage measures, cultural heritage inductions & general procedures for the management of Aboriginal cultural heritage at MTP.

Coal & Allied, in consultation with and participation of relevant Aboriginal parties through the CHWG, initiated additional systematic Aboriginal cultural heritage assessments of the entire MTP Project area (ML 1645 and other associated Coal & Allied, Bengalla Coal Mine and state owned lands) and associated infrastructure corridors, and the proposed Broomfield Aboriginal Cultural Heritage Conservation Area, to inform the development of the AHMP. These additional heritage assessments have been progressively undertaken in stages between 2006 and 2011, the results of which have advised the development of the AHMP and successful AHIP application for MTP.

These surveys have resulted in the identification and recording of nearly 1,800 Aboriginal cultural heritage locations and sites across the Project and proposed conservation areas. The original EIS assessments in 1995 recorded 327 sites that have been registered in the OEH AHIMS sites database.

On the basis of the results of these additional heritage assessments Coal & Allied, in consultation with the CHWG, initiated a program to comply with the original, and since modified, conditions of the Approval. In particular, Coal & Allied prepared an AHMP for the MTP Project as a precursor to the initiation of a program to mitigate the impact of the proposed mine development and to manage other cultural places and values. The MTP Project AHMP was endorsed by the CHWG and OEH in 2007 and was subsequently updated and revised through 2011/2 in consultation with the CHWG and OEH. The AHMP provides for comprehensive protective and mitigative management measures and methodologies to be implemented for the MTP Coal Project. This AHMP has been submitted to DP&I for approval, with the major addition since 2007 being the inclusion of a detailed plan for the implementation of the ACHS. The ACHS itself, will outline broad Aboriginal cultural heritage conservation strategies – namely, the provision of the proposed Broomfield Aboriginal Cultural Heritage Conservation Area.

Prior to the commencement of construction activities, Coal & Allied will implement the provisions of the MTP ACHMP in conformance with the terms of the AHIP consent issued by OEH. Preparatory management activities are well advanced including a program of barricading/fencing and sign-posting all Aboriginal heritage sites and areas within the proposed AHIP consent area to mitigate risk of inadvertent and unauthorised disturbance of sites during construction.

### **Archaeology and Cultural Heritage Performance**

There were no Aboriginal cultural heritage assessments, surveys or projects conducted on the MTP lease during 2013.

There were no incidents involving the disturbance of Aboriginal archaeological or cultural heritage sites at MTP during 2013. Periodic site condition inspections were conducted in various areas within the ML 1645 area during 2013.

During 2012, there was one GDP assessed for limited disturbance activities associated with slashing & implementation of a system of firebreaks at MTP. These works were conducted on an Aboriginal cultural heritage sites avoidance basis so that no cultural sites were impacted upon by these activities.

The RTCA CHMS combines several elements to protect, manage and mitigate cultural heritage at the MTP Project, including:

- Ongoing consultation and involvement of the local Aboriginal community in all matters pertaining to Aboriginal cultural heritage management;
- Compliance with existing Aboriginal CHMP's and Development Consent conditions;
- A cultural heritage Geographic Information System (GIS) and Cultural Heritage Zone Plan (CHZP) incorporating cultural heritage spatial and aspatial data (site location, description, assessments, date recorded, associated reports, management provisions and various other details to assist with the management of sites);
- A Ground Disturbance Permit (GDP) system for the assessment and approval of ground disturbing activities to ensure these activities do not disturb cultural heritage places;
- Limit of Disturbance Boundary (LODB) procedures to demarcate approved disturbance areas and delineate areas not to be disturbed;
- Ongoing cultural heritage site inspections, monitoring and auditing along with regular compliance inspections of development works;
- Protective management measures such as fencing/barricading sites to avoid disturbance, protective buffer zones, cultural heritage off-set areas; and
- Communicating cultural heritage issues and site awareness to personnel via the Coal & Allied intranet and tool box training sessions.

The CHMS GIS, CHZP, CHMS, GDP and LODB requirements are the key operational and planning tools utilised to protect and manage Aboriginal cultural heritage at MTP.

### **Historic Heritage**

To comply with the original development consent condition, which required an oral history to be prepared, Coal & Allied commissioned Veritas Archaeology & History Service (Muswellbrook) to prepare an oral history report that was submitted in early 2004. Under the modified development consent conditions, a detailed history (including detailed historical research & oral history) of the Mt Pleasant locality was to be prepared by December 2013.

In 2013, Coal & Allied again commissioned Veritas Archaeology & History Service to prepare this detailed history, incorporating the 2004 oral history report as part of this study. This history was subsequently prepared & submitted to DoPI in December 2013.

Further historic heritage work will continue in 2014, including detailed recording of extant historic sites on the MTP lease, and, where warranted, the development of specific archaeological management measures for specific sites. Where appropriate, these works will be conducted with the participation of interested community members, such as representatives from the Muswellbrook Local and Family History Society and the RTCA Community Heritage Advisory Group (CHAG). RTCA established the CHAG in 2012 as a community consultation forum for all matters pertaining to management of historic (non-Indigenous) heritage located on RTCA lands. The CHAG will continue to meet in 2014 and is comprised of community representatives with particular knowledge and interests in the historic heritage of the region such as historical groups, individuals and local government.



**Activities proposed in the next Annual Review period**

The Mount Pleasant Project is continuing through a review period. The review is focused on providing the best value case under the current financial environment for Rio Tinto to consider investing in construction.

In 2012 an application for an Environmental Protection Licence (EPL) was lodged with the NSW Environmental Protection Authority, this application is still ongoing.

Ongoing works will continue to maintain compliance with the Development Consent and the EPBC approval, such as the historic heritage detailed recording work mention in Chapter 4 above.

Coal & Allied has an environmental monitoring programme in place at MTP, and this monitoring will continue during 2014. Formal consultation with the community will continue through the CCC. Regular newsletters, sustainable development reporting, stakeholder briefings sessions and other community based activities will also continue.

## Appendix 1 – Compliance report against MTP Development Consent (DA 92/97)

DA 92/97 - Mount Pleasant Coal Mine		
Development Consent Conditions		
CONDITION NUMBER	CONDITION	DESCRIPTION OF PERFORMANCE for 2013 reporting period
SCHEDULE 2 - ADMINISTRATIVE CONDITIONS		
OBLIGATION TO MINIMISE HARM TO THE ENVIRONMENT		
1.	The Applicant shall implement all reasonable and feasible measures to prevent and/or minimise any material harm to the environment that may result from the construction, operation, or rehabilitation of the development.	No activity in 2013
TERMS OF CONSENT		
2.	The Applicant shall carry out the development in accordance with the:	Noted.
2 (a)	EIS;	
2 (b)	statement of commitments;	
2 (c)	conditions of this consent.	
Notes:	<ul style="list-style-type: none"><li>• The general layout of the development is shown in Appendix 2; and</li><li>• The statement of commitments is reproduced in Appendix 3.</li></ul>	
3.	If there is any inconsistency between the above documents, the most recent document shall prevail to the extent of the inconsistency. However, the conditions of this consent shall prevail to the extent of any inconsistency.	No inconsistency identified.
4.	The Applicant shall comply with any reasonable requirements of the Director-General arising from the Department's assessment of:	This condition has not been triggered.
4 (a)	any reports, strategies, plans, programs, reviews, audits or correspondence that are submitted by the Applicant in accordance with this consent; and	
4 (b)	the implementation of any actions or measures contained in these documents.	
LIMITS ON CONSENT		
Mining Operations		
5.	The Applicant may carry out mining operations on the site until 22 December 2020	Due date has not been reached
Note:	Under this consent, the Applicant is required to rehabilitate the site and carry out additional undertakings to the satisfaction of both the Director-General and the Executive Director, Mineral Resources in DRE. Consequently this consent will continue to apply in all other respects - other than the right to conduct mining operations - until the rehabilitation of the site and these additional undertakings have been carried out satisfactorily.	
Coal Extraction		
6.	The Applicant shall not extract more than 10.5 million tonnes of ROM coal from the site in a calendar year.	This condition has not been triggered.
Coal Transport		
7.	The Applicant shall transport all coal from the site by either (but not both):	Coal transport option has yet to be chosen.
7 (a)	conveyor to the Bengalla mine; or	
7 (b)	rail via an on-site rail loop;	
	Prior to the construction of the coal transport infrastructure on site, the Applicant shall notify the Director-General of the coal transport option chosen.	
8.	If the Applicant decides to develop the conveyor/service corridor to the Bengalla mine, then the Applicant shall:	This condition has not been triggered.
8 (a)	ensure that the final design of the conveyor/service corridor includes all reasonable and feasible measures to avoid and/or minimise the impacts on threatened species, endangered ecological communities, and Aboriginal objects with medium to high significance; and	
8 (b)	submit detailed plans of the development in the conveyor/service corridor to the Director-General for approval.	
	Following approval, the Applicant shall implement the detailed plans to the satisfaction of the Director-General.	
STRUCTURAL ADEQUACY		
9.	The Applicant shall ensure that all new buildings and structures, and any alterations or additions to existing buildings and structures, are constructed in accordance with the relevant requirements of the BCA and MSB.	No construction has occurred on site.
Notes:	<ul style="list-style-type: none"><li>• Under Part 4A of the EP&amp;A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works;</li><li>• Part 8 of the EP&amp;A Regulation sets out the requirements for the certification of the development;</li><li>• The development is located in the Muswellbrook Mine Subsidence District. Under Section 15 of the Mine Subsidence Compensation Act 1961, the Applicant is required to obtain the MSB's approval before constructing any improvements on the site.</li></ul>	
DEMOLITION		
10.	The Applicant shall ensure that all demolition work on site is carried out in accordance with AS 2601-2001: The Demolition of Structures, or its latest version.	No demolition work has occurred on site
PROTECTION OF PUBLIC INFRASTRUCTURE		
11.	Unless the Applicant and the applicable authority agree otherwise, the Applicant shall:	This condition has not been triggered.
11 (a)	repair, or pay the full costs associated with repairing, any public infrastructure that is damaged by the development; and	
11 (b)	relocate, or pay the full costs associated with relocating, any public infrastructure that needs to be relocated as a result of the development,	
Note:	This condition does not include matters that are expressly provided for in the conditions of this consent, such as the maintenance of public roads.	
OPERATION OF PLANT AND EQUIPMENT		
12.	The Applicant shall ensure that all plant and equipment used on site, or to transport coal from the site is:	This condition has not been triggered.
12 (a)	maintained in a proper and efficient condition; and	
12 (b)	operated in a proper and efficient manner.	
STAGED SUBMISSION OF STRATEGIES, PLANS AND PROGRAMS		
13.	With the approval of the Director-General, the Applicant may submit any strategy, plan or program required by this consent on a progressive basis.	Documents are being submitted on a progressive basis.
Note:	While any strategy, plan or program may be submitted on a progressive basis, the Applicant will need to ensure that the operations on site are covered by suitable strategies, plans or programs at all times.	
PLANNING AGREEMENT		
14.	By the end of March 2012, unless otherwise agreed by the Director-General, the Applicant shall enter into a planning agreement with Council in accordance with:	The Voluntary Planning Agreement went on Public Exhibition in February 2012 and was endorsed by Council following Exhibition.
14 (a)	(a) Division 6 of Part 4 of the EP&A Act; and	
14 (b)	(b) the terms of the Applicant's offer dated 14 February 2011, which is summarised in Appendix 4.	
	This agreement must provide for annual payments to be made to Council with the first period for payment commencing upon the commencement of development on the site.	

CONDITION NUMBER	CONDITION	DESCRIPTION OF PERFORMANCE for 2013 reporting period																																																																																																																																				
	SCHEDULE 3 - ENVIRONMENTAL PERFORMANCE CONDITIONS																																																																																																																																					
	ACQUISITION UPON REQUEST																																																																																																																																					
1.	<p>Upon receiving a written request for acquisition from the owner of the land listed in Table 1, the Applicant shall acquire the land in accordance with the procedures in conditions 6-7 of schedule 4.</p> <p><i>Table 1: Land subject to acquisition upon request</i></p> <table><tr><td>Reciever</td><td>Reciever</td></tr><tr><td>43, 44 - J.B Moore</td><td>143, 161,237 - J.S. &amp; N.M. Lonergan</td></tr><tr><td>45 - B.A. &amp; T.E. Strachan</td><td>147 - M.J. &amp; R.G. Adnum</td></tr><tr><td>47 - B.L. &amp; M.L. Bates</td><td>156 - J.E. &amp; J.L. Lonergan</td></tr><tr><td>67 - J.M. Simpson</td><td>158 - J.M. Hoath</td></tr><tr><td>96 - R.P. Grey</td><td>159, 236 - J.E. &amp; M.S. Ducey</td></tr><tr><td>101 - C. Austin</td><td>129 - R.M. &amp; S.D. Farrell</td></tr><tr><td>102 - A. Mather</td><td>130 - M.J. Farrell</td></tr><tr><td>107 - B.L. Wilton</td><td>135, 309 - K.J. &amp; G.M. Yore</td></tr><tr><td>108 - J.S. Gibson</td><td>146 - C.R &amp; N.J. Hoath</td></tr><tr><td>112 - B.D.Barry</td><td>153 - G.M. Casey</td></tr><tr><td>118 - J. &amp; C. Hayes</td><td>157 - R.B. Parkinson &amp; S.A. Peberdy</td></tr><tr><td>120, 308 - D.L. &amp; P.A. Moore</td><td>229 - C. Horne</td></tr><tr><td>121 - C &amp; J.M.Moore</td><td>263 - R.R. &amp; J.M. Hamilton</td></tr><tr><td>137, 138 A - D.H. MacIntyre</td><td>C - P.M. Yore</td></tr><tr><td>D - S. Yore</td><td></td></tr></table> <p>Notes:</p> <ul style="list-style-type: none"><li>● To identify the locations referred to in Table 1, see the figures in Appendix 5; and</li><li>● All land is noise affected, except receiver 67 which is air quality affected.</li></ul>	Reciever	Reciever	43, 44 - J.B Moore	143, 161,237 - J.S. & N.M. Lonergan	45 - B.A. & T.E. Strachan	147 - M.J. & R.G. Adnum	47 - B.L. & M.L. Bates	156 - J.E. & J.L. Lonergan	67 - J.M. Simpson	158 - J.M. Hoath	96 - R.P. Grey	159, 236 - J.E. & M.S. Ducey	101 - C. Austin	129 - R.M. & S.D. Farrell	102 - A. Mather	130 - M.J. Farrell	107 - B.L. Wilton	135, 309 - K.J. & G.M. Yore	108 - J.S. Gibson	146 - C.R & N.J. Hoath	112 - B.D.Barry	153 - G.M. Casey	118 - J. & C. Hayes	157 - R.B. Parkinson & S.A. Peberdy	120, 308 - D.L. & P.A. Moore	229 - C. Horne	121 - C & J.M.Moore	263 - R.R. & J.M. Hamilton	137, 138 A - D.H. MacIntyre	C - P.M. Yore	D - S. Yore		In 2013 written requests were received from some landholders listed in Table 1 and actioned in accordance with the procedures in Schedule 4.																																																																																																				
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101 - C. Austin	129 - R.M. & S.D. Farrell																																																																																																																																					
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107 - B.L. Wilton	135, 309 - K.J. & G.M. Yore																																																																																																																																					
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2.	<p>Upon receiving a written request from the owner of any residence on the land listed in Table 1 or Table 2, the Applicant shall implement additional noise and/or dust mitigation measures (such as doubleglazing, insulation, air filters, first flush roof water drainage system and/or air conditioning) at the residence in consultation with the landowner. These measures must be reasonable and feasible and related to the noise and/or dust impacts on the residence.</p> <p>If within 3 months of receiving this request from the owner, the Applicant and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Director-General for resolution.</p> <p><i>Table 2: Land where additional noise mitigation measures are available on request</i></p> <table><tr><td>Reciever</td><td>Reciever</td></tr><tr><td>68 - Googe</td><td>203 - Millard</td></tr><tr><td>74 - Sormaz</td><td>205 - Dapkos Pty Ltd</td></tr><tr><td>77 - Purser</td><td>231-Wicks</td></tr><tr><td>78, 80 - W.J. Adnum</td><td>240 - MacIntyre</td></tr><tr><td>79 -W.J. &amp; D.W. Adnum</td><td>242 -Raphael</td></tr><tr><td>86, 290 - Cowtime Investments Pty Ltd</td><td>257 -Lane</td></tr><tr><td>139 - Upton</td><td>258 - Ellis</td></tr><tr><td>140 - Dapkos Pty Limiteid</td><td>259 - Peel</td></tr><tr><td>154 - Standing</td><td>279 - Parkinson</td></tr></table> <p>Note:</p> <p>To identify the locations referred to in Table 2, see figures in Appendix 5.</p>	Reciever	Reciever	68 - Googe	203 - Millard	74 - Sormaz	205 - Dapkos Pty Ltd	77 - Purser	231-Wicks	78, 80 - W.J. Adnum	240 - MacIntyre	79 -W.J. & D.W. Adnum	242 -Raphael	86, 290 - Cowtime Investments Pty Ltd	257 -Lane	139 - Upton	258 - Ellis	140 - Dapkos Pty Limiteid	259 - Peel	154 - Standing	279 - Parkinson	This condition has not been triggered.																																																																																																																
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3.	<p>Except for the noise-affected land referred to in Table 1 , the Applicant shall ensure that the noise generated by the development does not exceed the criteria in Table 3 at any residence on privatelyowned land or on more than 25 percent of any privately-owned land.</p> <p><i>Table 3: Noise criteria dB(A)</i></p> <table><tr><th colspan="2" rowspan="2">Location</th><th colspan="2">Evening</th><th colspan="2">Night</th></tr><tr><th>L<sub>Aeq</sub>(15min)</th><th>LAeq(15min)</th><th>LAeq(15min)</th><th>LAeq(1min)</th></tr><tr><td rowspan="4">NAG 1</td><td>260,261</td><td>37</td><td>37</td><td>37</td><td>45</td></tr><tr><td>258</td><td>40</td><td>40</td><td>40</td><td>45</td></tr><tr><td>259</td><td>39</td><td>39</td><td>39</td><td>45</td></tr><tr><td>All other privately-owned land</td><td>35</td><td>35</td><td>35</td><td>45</td></tr><tr><td rowspan="2">NAG 2</td><td>272</td><td>36</td><td>36</td><td>36</td><td>45</td></tr><tr><td>All other privately-owned land</td><td>35</td><td>35</td><td>35</td><td>45</td></tr><tr><td rowspan="3">NAG 3</td><td>139, 154, 240</td><td>40</td><td>40</td><td>40</td><td>45</td></tr><tr><td>241</td><td>39</td><td>39</td><td>39</td><td>45</td></tr><tr><td>All other privately-owned land</td><td>35</td><td>35</td><td>35</td><td>45</td></tr><tr><td rowspan="2">NAG 4</td><td>169</td><td>36</td><td>36</td><td>36</td><td>45</td></tr><tr><td>All other privately-owned land</td><td>35</td><td>35</td><td>35</td><td>45</td></tr><tr><td>NAG 5</td><td>All privately-owned land</td><td>41</td><td>40</td><td>39</td><td>45</td></tr><tr><td rowspan="5">NAG 6</td><td>205</td><td>41</td><td>41</td><td>41</td><td>45</td></tr><tr><td>203, 242</td><td>40</td><td>40</td><td>40</td><td>45</td></tr><tr><td>202</td><td>39</td><td>39</td><td>39</td><td>45</td></tr><tr><td>204</td><td>38</td><td>38</td><td>38</td><td>45</td></tr><tr><td>All other privately-owned land</td><td>37</td><td>37</td><td>37</td><td>45</td></tr><tr><td rowspan="6">NAG 7</td><td>68, 74, 279</td><td>43</td><td>42</td><td>42</td><td>45</td></tr><tr><td>86, 290</td><td>42</td><td>42</td><td>42</td><td>45</td></tr><tr><td>77</td><td>42</td><td>41</td><td>41</td><td>45</td></tr><tr><td>79, 80, 231</td><td>41</td><td>41</td><td>41</td><td>45</td></tr><tr><td>78</td><td>41</td><td>40</td><td>40</td><td>45</td></tr><tr><td>All other privately-owned land</td><td>40</td><td>37</td><td>37</td><td>45</td></tr></table>	Location		Evening		Night		L <sub>Aeq</sub> (15min)	LAeq(15min)	LAeq(15min)	LAeq(1min)	NAG 1	260,261	37	37	37	45	258	40	40	40	45	259	39	39	39	45	All other privately-owned land	35	35	35	45	NAG 2	272	36	36	36	45	All other privately-owned land	35	35	35	45	NAG 3	139, 154, 240	40	40	40	45	241	39	39	39	45	All other privately-owned land	35	35	35	45	NAG 4	169	36	36	36	45	All other privately-owned land	35	35	35	45	NAG 5	All privately-owned land	41	40	39	45	NAG 6	205	41	41	41	45	203, 242	40	40	40	45	202	39	39	39	45	204	38	38	38	45	All other privately-owned land	37	37	37	45	NAG 7	68, 74, 279	43	42	42	45	86, 290	42	42	42	45	77	42	41	41	45	79, 80, 231	41	41	41	45	78	41	40	40	45	All other privately-owned land	40	37	37	45	This condition has not been triggered.
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CONDITION NUMBER		CONDITION					DESCRIPTION OF PERFORMANCE for 2013 reporting period	
		35	42	41	41	45		
	NAG 8	289	41	40	40	45		
		23, 84	40	40	40	45		
		All other privately-owned land	41	39	39	45		
	NAG 9	All privately-owned land	39	38	37	45		
	NAG 10	All privately-owned land	35	35	35	45		
	NAG 11	All privately-owned land	37	36	35	45		
		All other privately-owned land	35	35	35	45		
	Notes: <ul style="list-style-type: none"><li>● To identify the locations referred to in Table 3, see the figures in Appendices 5 and 6.</li><li>● Noise generated by the development is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions), of the NSW Industrial Noise Policy.</li></ul>							
	However, these criteria do not apply if the Applicant has a written agreement with the relevant landowner to exceed the criteria, and the Applicant has advised the Department in writing of the terms of this agreement.							
	Noise Acquisition Criteria							
4.	If the noise generated by the development exceeds the criteria in Table 4 at any residence on privately owned land or on more than 25 percent of any privately-owned land, then upon receiving a written request for acquisition from the landowner, the Applicant shall acquire the land in accordance with the procedures in conditions 6-7 of schedule 4.							
	Table 4: Noise Acquisition Criteria dB(A)							
	Location	Day L <sub>Aeq</sub> (15min)	Evening L <sub>Aeq</sub> (15min)	Night L <sub>Aeq</sub> (15min)				
	All privately-owned land in NAG 1, NAG 2, NAG 3, NAG 4, and NAG10	40	40	40			This condition has not been triggered.	
	All privately-owned land in NAG 5	46	45	44				
	All privately-owned land in NAG 6	42	42	42				
	All privately-owned land in NAG 7	45	42	42				
	All privately-owned land in NAG 8	46	44	44				
	All privately-owned land in NAG 9	44	43	42				
	All privately-owned land in NAG 11	42	41	40				
	All other privately-owned land	40	40	40				
	Notes: <ul style="list-style-type: none"><li>● To identify the locations referred to in Table 4, see the figures in Appendices 5 and 6;</li><li>● Noise generated by the development is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions), of the NSW Industrial Noise Policy; and</li><li>● For this condition to apply, the exceedances of the criteria must be systematic.</li></ul>							
	Cumulative Noise Criteria							
5.	Except for the noise-affected land referred to in Table 1, the Applicant shall implement all reasonable and feasible measures to ensure that the noise generated by the development combined with the noise generated by other mines in the area does not exceed the criteria in Table 5 at any residence on privately-owned land or on more than 25 percent of any privately-owned land.							
	Table 5: Cumulative Noise Criteria dB(A) L <sub>Aeq</sub> (period)							
	Location	Day	Evening	Night			No activity in 2013.	
	NAG 8, 9	55	45	40				
	All other privately-owned land	50	45	40				
	Notes: <ul style="list-style-type: none"><li>● To identify the locations referred to in Table 5, see the figures in Appendices 5 and 6; and</li><li>● Cumulative noise is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions) of the NSW Industrial Noise Policy; and</li></ul>							
	Cumulative Noise Acquisition Criteria							
6.	If the noise generated by the development combined with the noise generated by other mines in the area exceeds the criteria in Table 6 at any residence on privately-owned land or on more than 25 percent of privately-owned land, then upon receiving a written request for acquisition from the landowner, the Applicant shall acquire the land on as equitable basis as possible with the relevant mines in accordance with the procedures in conditions 6-7 of schedule 4.							
	Table 6: Cumulative Noise Criteria dB(A) L <sub>Aeq</sub> (period)							
	Location	Day	Evening	Night			This condition has not been triggered.	
	NAG 8, 9	60	50	45				
	All other privately-owned land	55	50	45				
	Notes: <ul style="list-style-type: none"><li>● To identify the locations referred to in Table 6, see the figures in Appendices 5 and 6;</li><li>● Cumulative noise is to be measured in accordance with the relevant procedures and exemptions (including certain meteorological conditions), of the NSW Industrial Noise Policy; and</li><li>● For this condition to apply, the exceedances of the criteria must be systematic.</li></ul>							
	Rail Noise							
7.	The Applicant shall ensure that its rail spur is only accessed by locomotives that are approved to operate on the NSW rail network in accordance with the noise limits in RailCorp's EPL (No. 12208) and ARTC's EPL (No. 3142).							
	Operating Conditions							
8.	The Applicant shall:							
8 (a)	implement best practice noise management, including all reasonable and feasible noise mitigation measures to minimise the operational, low frequency, and rail noise generated by the development;						No activity in 2013.	
8 (b)	minimise the noise impacts of the development during temperature inversions;							
8 (c)	regularly assess the real-time noise monitoring and meteorological forecasting data and relocate, modify, and/or stop operations on site to ensure compliance with the relevant conditions of this consent; and							
8 (d)	co-ordinate the noise management on site with the noise management at nearby mines (including the Bengalla mine) to minimise the cumulative noise impacts of the mines,							
	to the satisfaction of the Director-General.							

CONDITION NUMBER	CONDITION				DESCRIPTION OF PERFORMANCE for 2013 reporting period
	Noise Management Plan				
9.	The Applicant shall prepare and implement a Noise Management Plan for the development to the satisfaction of the Director-General. This plan must:				The Noise Management Plan - Construction was prepared and submitted to the Director-General in February 2012. This plan is undergoing review.
9 (a)	be submitted to the Director-General for approval prior to carrying out any development on site;				
9 (b)	describe the noise mitigation measures that would be implemented to ensure compliance with the relevant conditions of this consent, including a real-time noise management system that employs both reactive and proactive mitigation measures;				
9 (c)	include a noise monitoring program that: <ul style="list-style-type: none"><li>● uses a combination of real-time and supplementary attended monitoring to evaluate the performance of the development;</li><li>● includes a protocol for determining exceedances of the relevant conditions of this consent; and</li></ul>				
9 (d)	include a protocol that has been prepared in consultation with the owners of the nearby mines (including the Bengalla mine) to minimise the cumulative noise impacts of the mines.				
	BLASTING				
	Blasting Criteria				
10.	The Applicant shall ensure that the blasting on the site does not cause exceedances of the criteria in Table 7.				This condition has not been triggered.
	Table 7: Blasting Criteria				
	Location	Airblast Overpressure (dB(Lin Peak))	Ground vibration (mm/s)	Allowable Exceedance	
		120	10	0%	
	Residence on privately owned land	115	5	5% of the total number of blasts over a 12 month period	
	Historic heritage status	-	10	0%	
	All public infrastructure	-	50	0%	
	However, these criteria do not apply if the Applicant has a written agreement with the relevant owner or infrastructure provider/owner, and the Applicant has advised the Department in writing of the terms of this agreement.				
	Blasting Hours				
11.	The Applicant shall only carry out blasting on site between 9am and 5pm Monday to Saturday inclusive. No blasting is allowed on Sundays, public holidays, or at any other time without the written approval of the Director-General.				
	Blasting Frequency				This condition has not been triggered.
12.	Unless otherwise agreed by the Director-General, the Applicant may carry out a maximum of:				
12 (a)	1 blast a day; and				
12 (b)	5 blasts a week, averaged over any calendar year;				
	for the development.				
	This condition does not apply to blasts that generate ground vibration of 0.5 mm/s or less at any residence on privately-owned land, or to blasts required to ensure the safety of the mine or its workers.				
Note:	For the purposes of this condition, a blast refers to a single blast event, which may involve a number of individual blasts fired in quick succession in a discrete area of the mine.				
	Property Inspections				
13.	If the Applicant receives a written request from the owner of any privately-owned land within 2 kilometres of the approved open cut mining pits on site, for a property inspection to establish the baseline condition of any buildings and/or structures on his/her land, or to have a previous property inspection report updated, then within 2 months of receiving this request the Applicant shall:				This condition has not been triggered.
13 (a)	<ul style="list-style-type: none"><li>● establish the baseline condition of the buildings and/or structures on the land, or update the previous property inspection report;</li><li>● identify any measures that should be implemented to minimise the potential blasting impacts of the development on these buildings and/or structures; and</li></ul>				
13 (b)	give the landowner a copy of the new or updated property inspection report.				
	Property Investigations				
14.	If the owner of any privately-owned land claims that the buildings and/or structures on his/her land have been damaged as a result of blasting on site, then within 2 months of receiving this claim the Applicant shall:				This condition has not been triggered.
14 (a)	commission a suitably qualified, experienced and independent person, whose appointment has been approved by the Director-General, to investigate the claim; and				
14 (b)	give the landowner a copy of the property investigation report.				
	If this independent property investigation confirms the landowner's claim, and both parties agree with these findings, then the Applicant shall repair the damages to the satisfaction of the Director-General.				
	If the Applicant or landowner disagrees with the findings of the independent property investigation, then either party may refer the matter to the Director-General for resolution.				
	Operating Conditions				
15.	The Applicant shall:				This condition has not been triggered.
15 (a)	implement best blasting management practice on site to: <ul style="list-style-type: none"><li>● protect the safety of people and livestock in the surrounding area;</li><li>● protect public or private infrastructure/property in the surrounding area;</li><li>● minimise the dust and fume emissions of the blasting on site; and</li><li>● minimise blasting impacts on heritage items in the vicinity of the site;</li></ul>				
15 (b)	co-ordinate the blasting on site with the blasting at nearby mines (including the Bengalla mine) to minimise the cumulative blasting impacts of the mines; and				
15 (c)	operate a suitable system to enable the public to get up-to-date information on the proposed blasting schedule on site,				
	to the satisfaction of the Director-General.				

CONDITION NUMBER	CONDITION	DESCRIPTION OF PERFORMANCE for 2013 reporting period		
16.	The Applicant shall not undertake blasting within 500 metres of :	This condition has not been triggered.		
16 (a)	a public road without the approval of Council; and			
16 (b)	any land outside the site not owned by the Applicant, unless: <ul style="list-style-type: none"><li>the Applicant has a written agreement with the relevant landowner to allow blasting to be carried out closer to the land, and the Applicant has advised the Department in writing of the terms of this agreement, or</li><li>the Applicant has:<ul style="list-style-type: none"><li>demonstrated to the satisfaction of the Director-General that the blasting can be carried out closer to the land without compromising the safety of the people or livestock on the land, or damaging the buildings and/or structures on the land; and</li><li>updated the Blast Management Plan to include the specific measures that would be implemented while blasting is being carried out within 500 metres of the land.</li></ul></li></ul>			
Blast Management Plan				
17.	The Applicant shall prepare and implement a Blast Management Plan for the development to the satisfaction of the Director-General. This plan must:	This condition has not been triggered.		
17 (a)	be submitted to the Director-General for approval prior to carrying out any blasting on site;			
17 (b)	describe the measures that would be implemented to ensure compliance with the relevant conditions of this consent;			
17 (c)	include a road closure management plan, prepared in consultation with Council;			
17 (d)	include a blast monitoring program for evaluating compliance with the relevant conditions of approval; and			
17 (e)	include a protocol that has been prepared in consultation with the owners of nearby mines (including the Bengalla mine) for minimising and managing cumulative blasting impacts of the mines.			
AIR QUALITY& GREENHOUSE GAS				
Odour				
18.	The Applicant shall ensure that no offensive odours are emitted from the site, as defined under the POEO Act, unless otherwise authorised by an EPL.	This condition has not been triggered.		
Greenhouse Gas Emissions				
19.	The Applicant shall implement all reasonable and feasible measures to minimise the release of greenhouse gas emissions from the site.	No activity in 2013.		
Air Quality Criteria				
20.	Except for the air quality-affected land referred to in Table 1, the Applicant shall ensure that all reasonable and feasible avoidance and mitigation measures are employed so that particulate matter emissions generated by the development do not exceed the criteria listed in Tables 8, 9 or 10 at any residence on privately-owned land or on more than 25 percent of any privately-owned land.	This condition has not been triggered.		
Table 8: Long term criteria for particulate matter				
Pollutant	Averaging Period		<sup>d</sup> Criterion	
Total Suspended Solids (TSP) matter	Annual		<sup>a</sup> 90 µg/m <sup>3</sup>	
Particulate Matter < 10 µm (PM <sub>10</sub> )	Annual		<sup>a</sup> 30 µg/m <sup>3</sup>	
Table 9: Short term criteria for particulate matter				
Pollutant	Averaging Period		<sup>d</sup> Criterion	
Particulate Matter < 10 µm (PM <sub>10</sub> )	24 hour		<sup>a</sup> 50 µg/m <sup>3</sup>	
Table 10: Long term criteria for deposited dust level				
Pollutant	Averaging Period		Maximum increase in deposited dust level	Maximum total deposited dust level
<sup>c</sup> Deposited dust	Annual		<sup>b</sup> 2 g/m <sup>2</sup> /month	<sup>a</sup> 4 g/m <sup>2</sup> /month
Notes to Tables 8-10: <sup>a</sup> Total impact (i.e. incremental increase in concentrations due to the development plus background concentrations due to all other sources); <sup>b</sup> incremental impact (i.e. incremental increase in concentrations due to the development on its own); <sup>c</sup> Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method; and <sup>d</sup> Excludes extraordinary events such as bushfires, prescribed burning, dust storms, sea fog, fire incidents or any other activity agreed by the Director-General.				
Air Quality Acquisition Criteria				
21.	If particulate matter emissions generated by the development exceed the criteria in Tables 11, 12 or 13 at any residence on privately-owned land or on more than 25 percent of any privately-owned land, then upon receiving a written request for acquisition from the landowner the Applicant shall acquire the land in accordance with the procedures in conditions 6-7 of schedule 4.		This condition has not been triggered.	
Table 11: Long term acquisition criteria for particulate matter				
Pollutant	Averaging Period			<sup>d</sup> Criterion
Total Suspended Solids (TSP) matter	Annual			<sup>a</sup> 90 µg/m <sup>3</sup>
Particulate Matter < 10 µm (PM <sub>10</sub> )	Annual			<sup>a</sup> 30 µg/m <sup>3</sup>
Table 12: Short term acquisition criteria for particulate matter				
Pollutant	Averaging Period			<sup>d</sup> Criterion
Particulate Matter < 10 µm (PM <sub>10</sub> )	24 hour			<sup>a</sup> 150 µg/m <sup>3</sup>
Particulate Matter < 10 µm (PM <sub>10</sub> )	24 hour	<sup>a</sup> 50 µg/m <sup>3</sup>		
Table 13: Long term acquisition criteria for deposited dust				
Pollutant	Averaging Period	Maximum increase in deposited dust level		Maximum total deposited dust level
<sup>c</sup> Deposited dust	Annual	<sup>b</sup> 2 g/m <sup>2</sup> /month		<sup>a</sup> 4 g/m <sup>2</sup> /month

CONDITION NUMBER	CONDITION	DESCRIPTION OF PERFORMANCE for 2013 reporting period
	Notes to Table 11-13: <sup>a</sup> Total impact (i.e. incremental increase in concentrations due to the development plus background concentrations due to all other sources); <sup>b</sup> Incremental impact (i.e. incremental increase in concentrations due to the development on its own); <sup>c</sup> Deposited dust is to be assessed as insoluble solids as defined by Standards Australia, AS/NZS 3580.10.1:2003: Methods for Sampling and Analysis of Ambient Air - Determination of Particulate Matter - Deposited Matter - Gravimetric Method; and <sup>d</sup> Excludes extraordinary events such as bushfires, prescribed burning, dust storms, seafoam, fire incidents or any other activity agreed by the Director-General.	
	<b>Operating Conditions</b>	
22.	The Applicant shall:	This condition has not been triggered.
22 (a)	implement best practice air quality management, including all reasonable and feasible measures to minimise offsite odour, fume and dust emissions of the development;	
22 (b)	minimise any visible off-site air pollution;	
22 (c)	minimise the surface disturbance on site;	
22 (d)	regularly assess the real-time air quality monitoring and meteorological forecasting data and relocate, modify and/or stop operations on site to ensure compliance with the relevant conditions of this consent; and	
22 (e)	co-ordinate the air quality management on site with the air quality management at nearby mines (including the Bengalla mine) to minimise the cumulative air quality impacts of the mines, to the satisfaction of the Director-General.	
	<b>Air Quality and Greenhouse Gas Management Plan</b>	
23.	The Applicant shall prepare and implement an Air Quality and Greenhouse Gas Management Plan for the development to the satisfaction of the Director-General. This plan must:	The Air Quality and Greenhouse Gas Management Plan - Construction was prepared and submitted to the Director-General in February 2012. This plan is undergoing review.
23 (a)	be submitted to the Director-General for approval prior to carrying out any development on site;	
23 (b)	describe the measures that would be implemented to ensure compliance with the relevant conditions of this consent, including a real-time air quality management system that employs reactive and proactive mitigation measures;	
23 (c)	include an air quality monitoring program that: <ul style="list-style-type: none"> <li>• uses a combination of real-time monitors and supplementary monitors to evaluate the performance of the development;</li> <li>• includes PM<sub>2.5</sub> monitoring (although this obligation could be satisfied by the regional air quality monitoring network if sufficient justification is provided);</li> <li>• includes a protocol for determining exceedances of the relevant conditions of this consent; and</li> </ul>	
23 (d)	include a protocol that has been prepared in consultation with the owners of nearby mines to minimise the cumulative air quality impacts of the mines.	
	<b>METEOROLOGICAL MONITORING</b>	
24.	For the life of the development, the Applicant shall ensure that there is a meteorological station operating in the vicinity of the site that:	A new Meteorological station has been installed for the Project in 2012. The siting of the met station meets the condition requirements.
24 (a)	complies with the requirements in the Approved Methods for Sampling of Air Pollutants in NSW guideline; and	
24 (b)	is capable of continuous real-time measurement of temperature lapse rate in accordance with the NSW Industrial Noise Policy, or as otherwise approved by the OEH.	
	<b>SOIL &amp; WATER</b>	
Note:	Under the Water Act 1912 and/or the Water Management Act 2000, the Applicant is required to obtain water licences for the development.	
	<b>Water Supply</b>	
25.	The Applicant shall ensure that it has sufficient water for all stages of development, and if necessary, adjust the scale of mining operations on site, to match its available water supply to the satisfaction of the Director-General.	Water balance has been completed for site.
	<b>Water Discharges</b>	
26.	The Applicant shall ensure that any surface water discharges from the site comply with the:	This condition has not been triggered.
26 (a)	discharge limits (both volume and quality) set for the development in any EPL; or	
26 (b)	relevant provisions of the POEO Act or Protection of the Environment Operations (Hunter River Salinity Trading Scheme) Regulation 2002.	
	<b>Compensatory Water Supply</b>	
27.	<p>The Applicant shall provide compensatory water supply to any landowner of privately-owned land whose water entitlements are adversely and directly impacted (other than an impact that is negligible) as a result of the development, in consultation with NOW, and to the satisfaction of the Director-General.</p> <p>The compensatory water supply measures must provide an alternative long-term supply of water that is equivalent to the loss attributed to the development. Equivalent water supply should be provided (at least on an interim basis) within 24 hours of the loss being identified.</p> <p>If the Applicant and the landowner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Director-General for resolution.</p> <p>If the Applicant is unable to provide an alternative long-term supply of water, then the Applicant shall provide alternative compensation to the satisfaction of the Director-General.</p>	This condition has not been triggered.
	<b>Water Management Plan</b>	
28.	The Applicant shall prepare and implement a Water Management Plan for the development to the satisfaction of the Director-General. This plan must be prepared in consultation with NOW and DRE, and be submitted to the Director-General for approval prior to carrying out any development on site. The plan must include:	
28 (a)	<p>Site Water Balance, which must:</p> <ul style="list-style-type: none"> <li>• include details of: <ul style="list-style-type: none"> <li>o sources and security of water supply;</li> <li>o water use on site;</li> <li>o water management on site;</li> <li>o any off-site transfers; and</li> </ul> </li> <li>• investigate and implement all reasonable and feasible measures to minimise water use by the development;</li> </ul>	



CONDITION NUMBER	CONDITION	DESCRIPTION OF PERFORMANCE for 2013 reporting period
28 (b)	an Erosion and Sediment Control Plan, which must: <ul style="list-style-type: none"> <li>● identify activities that could cause soil erosion, generate sediment or affect flooding;</li> <li>● describe measures to minimise soil erosion and the potential for the transport of sediment to downstream waters, and manage any flood risk;</li> <li>● describe the location, function, and capacity of erosion and sediment control structures;</li> <li>● describe what measures would be implemented to maintain the structures over time;</li> </ul>	The Water Management Plan - Construction was prepared and submitted to the Director-General in February 2012. the Plan was approved in July 2012.
28 (c)	a Surface Water Management Plan, which must include: <ul style="list-style-type: none"> <li>● detailed baseline data on surface water flows and quality in creeks and other waterbodies that could potentially be affected by the development;</li> <li>● surface water and stream health impact assessment criteria including trigger levels for investigating any potentially adverse surface water impacts;</li> <li>● a program to monitor surface water flows and quality in the watercourses that could be affected by the project; and</li> <li>● reporting procedures for the results of the monitoring program;</li> </ul>	
28 (d)	a Groundwater Management Plan, which must include: <ul style="list-style-type: none"> <li>● detailed plans, including design objectives and performance criteria, for the design and management of the proposed final voids;</li> <li>● detailed baseline data of groundwater levels, yield and quality in the region, and privately-owned groundwater bores, that could be affected by the development;</li> <li>● groundwater impact assessment criteria including trigger levels for investigating any potentially adverse groundwater impacts;</li> <li>● a program to monitor and assess: <ul style="list-style-type: none"> <li>○ groundwater inflows to the mining operations;</li> <li>○ impacts on regional and local (including alluvial) aquifers;</li> <li>○ impacts on the groundwater supply of potentially affected landowners;</li> <li>○ impacts on groundwater dependent ecosystems and riparian vegetation;</li> </ul> </li> </ul>	
28 (e)	a Surface and Ground Water Response Plan, which must include: <ul style="list-style-type: none"> <li>● a response protocol for any exceedances of the surface water and groundwater assessment criteria;</li> <li>● measures to offset the loss of any baseflow to watercourses caused by the development;</li> <li>● measures to prevent, minimise or offset groundwater leakage from alluvial aquifers caused by the development;</li> <li>● measures to compensate landowners of privately-owned land whose water supply is adversely affected by the development; and</li> <li>● measures to mitigate and/or offset any adverse impacts on groundwater dependent ecosystems or riparian vegetation.</li> </ul>	
<b>BIODIVERSITY</b>		
<b>Offset Strategy</b>		
29.	The Applicant shall prepare and implement an offset strategy for the development to the satisfaction of the Director-General. This strategy must:	This condition has not been triggered.
29 (a)	be prepared in consultation with OEH;	
29 (b)	be submitted to the Director-General for approval prior to carrying out any development in the	
29 (c)	offset the biodiversity impacts of the development in the conveyor/service corridor; and	
29 (d)	focus on the re-establishment of: <ul style="list-style-type: none"> <li>● significant and/or threatened flora communities and/or species; and</li> <li>● habitat for significant and/or threatened fauna species.</li> </ul>	
	This offset strategy is not required if the Applicant does not carry out any development in the conveyor/service corridor.	
Note:	The offset strategy may be combined with any similar offset strategy required for the development under Commonwealth legislation, or the Aboriginal cultural heritage conservation area/s described in condition 33 below, subject to suitably offsetting the impacts of the conveyor/service corridor.	
<b>Long Term Security of Offset</b>		
30.	Within 2 years of the approval of the offset strategy, the Applicant shall demonstrate to the satisfaction of the Director-General that it has made suitable arrangements to provide appropriate long term security for the offset area/s in the offset strategy.	This condition has not been triggered.
<b>Conservation Bond</b>		
31.	Within 6 months of the approval of the offset strategy, the Applicant shall lodge a conservation bond with the Department to ensure that the offset strategy is implemented in accordance with the performance and completion criteria of the Biodiversity Management Plan (see below).	This condition has not been triggered.
	The sum of the bond shall be determined by:	
31 (a)	calculating the full cost of implementing the offset strategy (other than land acquisition costs); and	
31 (b)	employing a suitably qualified quantity surveyor to verify the calculated costs.	
	If the offset strategy is completed generally in accordance with the completion criteria in the Biodiversity Management Plan to the satisfaction of the Director-General, the Director-General will release the bond.	
	If the offset strategy is not completed generally in accordance with the completion criteria in the Biodiversity Management Plan, the Director-General will call in all or part of the conservation bond, and arrange for the satisfactory completion of the relevant works.	
	With the agreement of the Director-General, this bond may be combined with rehabilitation security deposit administered by the Minister for Mineral Resources.	

CONDITION NUMBER	CONDITION	DESCRIPTION OF PERFORMANCE for 2013 reporting period
	<b>Biodiversity Management Plan</b>	
32.	The Applicant shall prepare and implement a Biodiversity Management Plan for the development to the satisfaction of the Director-General. This plan must:	The Biodiversity Management Plan is in preparation
32 (a)	be prepared in consultation with OEH and Council, and be submitted to the Director-General for approval prior to carrying out any development on site;	
32 (b)	include: <ul style="list-style-type: none"> <li>• a description of the short, medium, and long term measures that would be implemented to: <ul style="list-style-type: none"> <li>o manage the remnant vegetation and habitat on the site and in the offset area/s (if and when applicable); and</li> <li>o implement the offset strategy (if and when applicable), including detailed performance and completion criteria;</li> </ul> </li> <li>• a detailed description of the measures that would be implemented over the next 3 years, including the procedures to be implemented for; <ul style="list-style-type: none"> <li>o implementing revegetation and regeneration within the disturbance areas and offset areas, including establishment of canopy, sub-canopy (if relevant), understorey and ground strata;</li> <li>o maximising salvage and beneficial use of resources in areas that are to be impacted, including vegetative, soil and cultural heritage resources;</li> <li>o protecting vegetation and soil outside the disturbance areas;</li> <li>o rehabilitating creeks and drainage lines on the site, to minimise net loss of stream length and aquatic habitat;</li> <li>o managing salinity;</li> <li>o conserving and reusing topsoil;</li> <li>o undertaking pre-clearance surveys;</li> <li>o managing impacts on fauna;</li> <li>o landscaping the site and along public roads to minimise visual and lighting impacts;</li> <li>o collecting and propagating seed;</li> <li>o salvaging and reusing material from the site for habitat enhancement;</li> <li>o salvaging, transplanting and/or propagating threatened flora and native grassland;</li> <li>o controlling weeds and feral pests;</li> <li>o managing grazing and agriculture on site;</li> <li>o controlling access; and</li> <li>o bushfire management;</li> </ul> </li> <li>• a program to monitor and report on the effectiveness of these measures, and progress against the performance and completion criteria;</li> <li>• a description of the potential risks to successful revegetation, and a description of the contingency measures that would be implemented to mitigate these risks; and</li> <li>• details of who would be responsible for monitoring, reviewing, and implementing the plan.</li> </ul>	
	<b>HERITAGE</b>	
Note:	Under the National Parks and Wildlife Act 1974 or the Heritage Act 1977, the Applicant is required to obtain approvals for any impacts to Aboriginal objects and/or significant relics.	
	<b>Aboriginal Heritage Conservation Strategy</b>	
33.	The Applicant shall prepare and implement an Aboriginal Heritage Conservation Strategy for the development to the satisfaction of the Director-General. This strategy must:	The Aboriginal Heritage Conservation Strategy is in preparation.
33 (a)	be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the Director-General;	
33 (b)	be prepared in consultation with OEH and the Aboriginal stakeholders;	
33 (c)	be submitted to the Director-General for approval prior to carrying out any development on site;	
33 (d)	provide for the establishment and conservation of an off-site Aboriginal cultural heritage conservation area/s that has comparable Aboriginal cultural heritage values (both cultural and archaeological) to the areas that would be developed on site;	
33 (e)	describe the measures that would be implemented to provide appropriate long term security for the proposed Aboriginal cultural heritage conservation areas; and	
33 (f)	include an action plan for the implementation of the strategy.	
	The detailed measures for the implementation of the strategy are to be outlined in the Heritage Management Plan (see condition 36).	
Note:	The Aboriginal cultural heritage conservation area/s may be combined with any similar offset/conservation area required for the development under Commonwealth legislation, subject to suitably offsetting the cultural heritage impacts of the development.	
34.	Within 2 years of the approval of the Aboriginal Heritage Conservation Strategy, the Applicant shall demonstrate to the satisfaction of the Director-General, that it has made suitable arrangements to provide appropriate long term security for the Aboriginal cultural heritage conservation area/s in the Aboriginal Heritage Conservation Strategy.	This condition has not been triggered.
	<b>Oral History</b>	
35.	By the end of December 2013, the Proponent shall prepare a detailed history of the Mount Pleasant locality to the satisfaction of the Director-General. This history must:	In 2013, Coal & Allied updated the detailed history, incorporating the 2004 oral history report as part of this study submitted to DoPI in December 2013.
35 (a)	be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the Director-General;	
35 (b)	be prepared in consultation with the OEH, the local history society, local community (including former residents as far as is practicable), and Aboriginal stakeholders;	
35 (c)	be prepared in accordance with the relevant the relevant Heritage Council of NSW guidelines; and	
35 (d)	include detailed historical research as well as an oral history.	

CONDITION NUMBER	CONDITION	DESCRIPTION OF PERFORMANCE for 2013 reporting period
	<b>Aboriginal Heritage Management Plan</b>	
36.	The Applicant shall prepare and implement a Aboriginal Heritage Management Plan for the development to the satisfaction of the Director-General. This plan must:	The Aboriginal Cultural Heritage Management Plan (ACHMP) was developed in 2007, in consultation with the Cultural Heritage Working Group (CHWG), DECCW and DoP. The MTP ACHMP was revised and submitted for approval in February 2012. This plan is currently undergoing review.
36 (a)	be prepared in consultation with OEH and the Aboriginal stakeholders by suitably qualified and experienced persons whose appointment has been endorsed by the Director-General;	
36 (b)	be submitted to the Director-General for approval prior to carrying out any development on site;	
36 (c)	include: <ul style="list-style-type: none"> <li>• a detailed plan for the implementation of the approved Aboriginal Heritage Conservation Strategy (required under condition 34);</li> <li>• a description of the measures that would be implemented to: <ul style="list-style-type: none"> <li>o comply with the requirements of any Aboriginal Heritage impact Permit issued for the development, including any approved archaeological testing and salvage program;</li> <li>o store the Aboriginal objects salvaged, both during construction and in the long term;</li> <li>o protect, monitor and/or manage all Aboriginal objects on site until the impacts of the development on these objects is unavoidable;</li> <li>o minimise the blasting impacts of the development on Aboriginal objects in the vicinity of the site;</li> <li>o manage the discovery of any human remains or previously unidentified Aboriginal objects on site;</li> <li>o enable Aboriginal stakeholders to get reasonable access to the site during the development;</li> <li>o ensure Aboriginal stakeholders are consulted about the conservation and management of Aboriginal cultural heritage on site; and</li> <li>o ensure construction personnel receive suitable heritage inductions prior to carrying out any development on site, and that suitable records are kept of these inductions.</li> </ul> </li> </ul>	
	<b>TRANSPORT</b>	
	<b>Relocation of Rail Loop or Conveyor/Service Corridor</b>	
37.	Prior to carrying out any development on site, the Applicant shall enter into an agreement with the Minister for Mineral Resources, in consultation with the operators of the Bengalla Mine, so that if in the future the Bengalla mining operation is to extend further to the west, the Applicant shall undertake to relocate the Mount Pleasant rail loop or the conveyor/service corridor. Any relocation may require a further approval.	In progress
	<b>Road Works</b>	
38.	The Applicant shall, at its own expense:	This condition has not been triggered.
38 (a)	construct a bridge to carry the Bengalla Link Road over the proposed Mount Pleasant rail loop, in consultation with the operators of the Bengalla Mine	
38 (b)	construct the Mount Pleasant Northern Link Road to Dorset Road, prior to the closure of Castlerock Road;	
38 (c)	construct the Mount Pleasant Western Link Road (generally in accordance with Council's Western Roads Strategy) from the intersection of the Bengalla Link Road to the intersection of the Mount Pleasant Northern Link Road, prior to the closure of Wybong Road;	
38 (d)	construct the Mount Pleasant Mine Access Road;	
38 (e)	upgrade the Wybong Road from the Bengalla Link Road to the Mount Pleasant Mine Access Road; and	
38 (f)	construct an overpass or underpass across Wybong Road, or other means of crossing Wybong Road, should a construction road be proposed,	
	to the satisfaction of Council.	
39.	Should the following intersections be required, the Applicant shall undertake construction works at:	This condition has not been triggered.
39 (a)	the intersection of the Western Link Road and access to the mine site	
39 (b)	the intersection of the Bengalla Link Road and the Western Link Road;	
39 (c)	the intersection of the Castlerock/Mount Pleasant Northern Link Road and the Western Link Road; and	
39 (d)	the intersection of the Mount Pleasant Northern Link Road and Kayuga Road, to the satisfaction of Council and/or the RTA.	
	If there is any dispute between the Applicant and Council or the RTA in relation to the funding or upgrade works, then any of the parties may refer the matter to the Director-General for resolution.	
40.	The Applicant shall:	Following discussions with council the applicant has provided a schedule of the road construction works on the 23/12/2011
40 (a)	prepare a detailed schedule outlining the timing of the road construction works required by conditions 38 and 39 by the end of December 2011; and	
40 (b)	update this schedule annually.	
	to the satisfaction of Council.	
	<b>Road Maintenance</b>	
41.	During the development, the Applicant shall maintain the roads and intersections between the Bengalla Mine main entrance and the Mt Pleasant Mine main entrance, including:	This condition has not been triggered.
41 (a)	part of the Bengalla Link Road;	
41 (b)	part of the Wybong Road; and	
41 (c)	part of the Mount Pleasant Western Link Road.	
	The Applicant shall develop a Maintenance Management Plan in respect of these roads, to the satisfaction of Council.	
	<b>Road Access and Signage</b>	
42.	The Applicant shall ensure that as far as possible the preferred mine access road route, as described in the EIS, is the only route used by employees and contractors travelling to the mine site from Muswellbrook.	This condition has not been triggered.
43.	The Applicant shall maintain signs and give at least 24 hours notice of temporary road closures. The location and wording of the signs are to be approved by Council. A protocol is to be established, in consultation with the emergency service providers and Council, to permit the passage of emergency vehicles during road closures.	This condition has not been triggered.
	<b>Monitoring of Coal Transport</b>	
44.	The Applicant shall:	This condition has not been triggered.
44 (a)	keep records of the: <ul style="list-style-type: none"> <li>• amount of coal transported from the site (on a monthly basis); and</li> <li>• date and time of each train movement generated by the development; and</li> </ul>	
44 (b)	make these records available on its website at the end of each calendar year.	

CONDITION NUMBER	CONDITION	DESCRIPTION OF PERFORMANCE for 2013 reporting period												
	VISUAL													
	Visual Amenity and Lighting													
45.	The Applicant shall:	This condition has not been triggered.												
45 (a)	implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the development;													
45 (b)	ensure no outdoor lights shine above the horizontal; and													
45 (c)	ensure that all external lighting associated with the development complies with Australian Standard AS4282 (INT) 1997 - Control of Obtrusive Effects of Outdoor Lighting or its latest version,													
	to the satisfaction of the Director-General.													
	Additional Visual Mitigation Measures													
46.	Upon receiving a written request from the owner of any residence on privately-owned land which has, or would have, significant direct view of the mining operations on site, the Applicant shall implement visual mitigation measures (such as landscaping treatments or vegetation screens) on the land in consultation with the landowner. These measures must be reasonable and feasible, and directed toward minimising the visibility of the mining operations from the residence.  If within 3 months of receiving this request from the owner, the Applicant and the owner cannot agree on the measures to be implemented, or there is a dispute about the implementation of these measures, then either party may refer the matter to the Director-General for resolution.	This condition has not been triggered.												
Note:	Except in exceptional circumstances, the Director-General will not require additional visual impact mitigation to be undertaken for residences that are more than 3 kilometres from the mining operations.													
	Landscape Management Plan													
47.	The Applicant shall prepare and implement a Landscape Management Plan to mitigate the visual impacts of the development to the satisfaction of the Director-General. This plan must:	The Landscape Management Plan was prepared and submitted to the Director-General in February 2012. The Plan was approved in July 2012.												
47 (a)	be prepared in consultation with Council, and submitted to the Director-General for approval prior to carrying out any development on site;													
47 (b)	provide for the establishment of trees and shrubs and/or the construction of mounding or bunding: <ul style="list-style-type: none"><li>• along the access road to the mine site;</li><li>• around the water storage dams and coal preparation plant;</li><li>• at other areas identified as necessary for the maintenance of satisfactory visual amenity; and</li></ul>													
47 (c)	include details of the visual appearance of all buildings, structures, facilities or works (including paint colours and specifications), aimed at blending as far as possible with the surrounding landscape.													
	BUSHFIRE MANAGEMENT													
48.	The Applicant shall:	This condition has not been triggered.												
48 (a)	ensure that the development is suitably equipped to respond to any fires on site; and													
48 (b)	assist the Rural Fire Service and emergency services as much as possible if there is a fire in the vicinity of the site.													
	WASTE													
	Waste Minimisation & Disposal													
49.	The Applicant shall:	This condition has not been triggered.												
49 (a)	minimise the waste (including coal reject) generated by the development;													
49 (b)	ensure that the waste generated by the development is appropriately stored, handled and disposed of in a lawful manner.													
	On-site Sewage													
50.	The Applicant shall ensure that all sewage generated on site is treated and disposed of to the satisfaction of Council.	This condition has not been triggered.												
	Disposal of Fine Rejects													
51.	The Applicant shall not emplace fine rejects in the southern catchment without the written approval of the Director-General	This condition has not been triggered.												
	Waste Management Plan													
52.	The Applicant shall prepare and implement a Waste Management Plan for the development to the satisfaction of the Director-General. This plan must:	The Waste Management Plan - Construction was prepared and submitted to the Director-General in February 2012. The Plan was approved in July 2012.												
52 (a)	be prepared in consultation with NOW and DRE, and submitted to the Director-General for approval prior to carrying any development on site;													
52 (b)	describe the measures that would be implemented to avoid, minimise, reuse and recycle all waste streams generated by the development;													
52 (c)	include a fines emplacement plan; and													
52 (d)	a program to evaluate the fines emplacement plan and methods, with a view to emplacing fines within active mining areas.													
	REHABILITATION													
	Rehabilitation Objectives													
53.	The Applicant shall rehabilitate the site to the satisfaction of the Executive Director, Mineral Resources in DRE. This rehabilitation must be generally consistent with the proposed rehabilitation strategy depicted conceptually in the figure in Appendix 7, and comply with the objectives in Table 14.	This condition has not been triggered.												
	Table 14: Rehabilitation Objectives													
	<table><tr><th>Feature</th><th>Objective</th></tr><tr><td>Mine Site (as a whole), including the final void</td><td>Safe, stable &amp; non-polluting</td></tr><tr><td>Surface Infrastructure</td><td>To be decommissioned and removed, unless the Director-General agrees otherwise</td></tr><tr><td>Land Forms</td><td>To be set under condition 54 below</td></tr><tr><td>Land use</td><td>To be set under condition 54 below</td></tr><tr><td>Community</td><td>Minimise the adverse socio-economic effects associated with mine closure</td></tr></table>		Feature	Objective	Mine Site (as a whole), including the final void	Safe, stable & non-polluting	Surface Infrastructure	To be decommissioned and removed, unless the Director-General agrees otherwise	Land Forms	To be set under condition 54 below	Land use	To be set under condition 54 below	Community	Minimise the adverse socio-economic effects associated with mine closure
Feature	Objective													
Mine Site (as a whole), including the final void	Safe, stable & non-polluting													
Surface Infrastructure	To be decommissioned and removed, unless the Director-General agrees otherwise													
Land Forms	To be set under condition 54 below													
Land use	To be set under condition 54 below													
Community	Minimise the adverse socio-economic effects associated with mine closure													
	Rehabilitation Strategy													
54.	Prior to commencing any development on the site, the Applicant shall prepare a Rehabilitation Strategy for the development to the satisfaction of the Director-General. This strategy must:													
54 (a)	be prepared in consultation with relevant stakeholders, including DRE, NOW, Council and the CCC;													
54 (b)	investigate options for the future use of the site upon the completion of mining;													
54 (c)	describe and justify the proposed rehabilitation strategy for the site; and													
54 (d)	define the rehabilitation objectives for the area, as well as the proposed completion criteria for this rehabilitation.													
	Progressive Rehabilitation													
55.	The Applicant shall carry out the rehabilitation of the site progressively, that is, as soon as reasonably practicable following disturbance.	This condition has not been triggered.												

CONDITION NUMBER	CONDITION	DESCRIPTION OF PERFORMANCE for 2013 reporting period
	<b>Rehabilitation Management Plan</b>	
56.	The Applicant shall prepare and implement a Rehabilitation Management Plan for the development to the satisfaction of the Executive Director, Mineral Resources in DRE. This plan must:	The Rehabilitation Management Plan was prepared and submitted to the Director-General in February 2012. The Strategy was approved in July 2012.
56 (a)	be prepared in consultation with the Department, NOW, Council and the CCC;	
56 (b)	be submitted to the Executive Director Mineral Resources in DRE for approval, within 3 months of approval of the Rehabilitation Strategy;	
56 (c)	be prepared in accordance with any relevant DRE guideline;	
56 (d)	describe the measures that would be implemented to rehabilitate the site and implement the rehabilitation strategy (see condition 54); and	
56 (e)	build, to the maximum extent practicable, on the other management plans required under this consent.	
	<b>Schedule 4 - ADDITIONAL PROCEDURES</b>	
	<b>NOTIFICATION OF LANDOWNERS</b>	
1.	By the end of December 2011, the Applicant shall:	Letters were sent to all relevant owners by the 23/12/2011
1 (a)	notify in writing the owners of: <ul style="list-style-type: none"> <li>the land listed in Table 1 of schedule 3 that they have the right to require the Applicant to acquire their land at any stage of the development;</li> <li>any residence on the noise-affected land in Table 1 or Table 2 of schedule 3 that they are entitled to ask for additional noise mitigation measures to be installed at their residence at any stage of the development;</li> <li>any residences on the air quality-affected land listed in Table 1 that they are entitled to ask for additional air quality mitigation measures to be installed at their residence at any stage of the development;</li> <li>any privately-owned land within 2 kilometres of the approved open cut mining pit on the site that they are entitled to ask for an inspection to establish the baseline condition of any buildings and/or structures on their land, or to have a previous property inspection updated; and</li> </ul>	
1 (b)	send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the owners and/or existing tenants of any land (including mine-owned land) where the predictions in the EIS identify that dust emissions generated by the development are likely to be greater than the relevant air quality criteria in schedule 3 at any time during the life of the development.	
2.	As soon as practicable after obtaining monitoring results showing:	This condition has not been triggered.
2 (a)	exceedance of the relevant criteria in schedule 3, the Applicant shall notify the affected landowner and tenants in writing of the exceedance, and provide regular monitoring results to each of these parties until the development is complying with the relevant criteria again; and/or	
2 (b)	an exceedance of the relevant criteria of schedule 3, the Applicant shall send a copy of the NSW Health fact sheet entitled "Mine Dust and You" (as may be updated from time to time) to the affected landowners and/or existing tenants of the land (including the tenants of any mine owned land).	
	<b>INDEPENDENT REVIEW</b>	
3.	If an owner of privately-owned land considers the development to be exceeding the criteria in schedule 3, then he/she may ask the Director-General in writing for an independent review of the impacts of the development on his/her land.  If the Director-General is satisfied that an independent review is warranted, then within 2 months of the Director-General's decision, the Applicant shall:	This condition has not been triggered.
3 (a)	commission a suitably qualified, experienced and independent expert, whose appointment has been approved by the Director-General, to: <ul style="list-style-type: none"> <li>consult with the landowner to determine his/her concerns;</li> <li>conduct monitoring to determine whether the development is complying with the relevant criteria; and</li> <li>if the development is not complying with these criteria then: <ul style="list-style-type: none"> <li>determine if the more than one mine is responsible for the exceedance, and if so the relative share of each mine towards the impact on the land;</li> <li>identify the measures that could be implemented to ensure compliance with the relevant criteria; and</li> </ul> </li> </ul>	
3 (b)	give the Director-General and landowner a copy of the independent review.	
4.	If the independent review determines that the development is complying with the relevant criteria in schedule 3, then the Applicant may discontinue the independent review with the approval of the Director-General.  If the independent review determines that the development is not complying with the relevant criteria, and that the development is primarily responsible for this non-compliance, then the Applicant shall:	This condition has not been triggered.
4 (a)	implement all reasonable and feasible mitigation measures, in consultation with the landowner and appointed independent expert, and conduct further monitoring until the development complies with the relevant criteria; or	
4 (b)	secure a written agreement with the landowner to allow exceedances of the relevant criteria,	
	to the satisfaction of the Director-General.	
	If the independent review determines that the development is not complying with the relevant acquisition criteria, and that the development is primarily responsible for this non-compliance, then upon receiving a written request from the landowner, the Applicant shall acquire all or part of the landowners land in accordance with the procedures in condition 6-7 below.	This condition has not been triggered.
5.	If the independent review determines that the relevant criteria are being exceeded, but that more than one mine is responsible for this exceedance, then together with the relevant mine/s the Applicant shall:	
5 (a)	implement all reasonable and feasible mitigation measures, in consultation with the landowner and appointed independent expert, and conduct further monitoring until there is compliance with the relevant criteria; or	
5 (b)	secure a written agreement with the landowner and other relevant mine/s to allow exceedances of the relevant impact assessment criteria,	
	to the satisfaction of the Director-General.	
	If the independent review determines that the development is not complying with the relevant acquisition criteria in schedule 3, but that more than one mine is responsible for this non-compliance, then upon receiving a written request from the landowner, the Applicant shall acquire all or part of the landowner/s land on as equitable a basis as possible with the relevant mine/s, in accordance with the procedures in conditions 6-7 below.	

CONDITION NUMBER	CONDITION	DESCRIPTION OF PERFORMANCE for 2013 reporting period
	LAND ACQUISITION	
6.	Within 3 months of receiving a written request from a landowner with acquisition rights, the Applicant shall make a binding written offer to the landowner based on:	These procedures have been followed for acquisition of some properties listed in Table 1.
6 (a)	the current market value of the landowners interest in the land at the date of this written request, as if the land was unaffected by the development, having regard to the: <ul style="list-style-type: none"><li>existing and permissible use of the land, in accordance with the applicable planning instruments at the date of the written request; and</li><li>presence of improvements on the land and/or any approved building or structure which has been physically commenced at the date of the landowner/s written request, and is due to be completed subsequent to that date, but excluding any improvements that have resulted from the implementation of the additional mitigation measures required under condition 2 of schedule 3;</li></ul>	
6 (b)	the reasonable costs associated with: <ul style="list-style-type: none"><li>relocating within the Muswellbrook, Singleton or Scone local government area, or to any other local government area determined by the Director-General; and</li><li>obtaining legal advice and expert advice for determining the acquisition price of the land, and the terms upon which it is to be acquired; and</li></ul>	
6 (c)	reasonable compensation for any disturbance caused by the land acquisition process.	
	However, if at the end of this period, the Applicant and landowner cannot agree on the acquisition price of the land and/or the terms upon which the land is to be acquired, then either party may refer the matter to the Director-General for resolution.  Upon receiving such a request, the Director-General shall request the President of the NSW Division of the Australian Property institute to appoint a qualified independent valuer to: <ul style="list-style-type: none"><li>consider submissions from both parties;</li><li>determine a fair and reasonable acquisition price for the land and/or the terms upon which the land is to be acquired, having regard to the matters referred to in paragraphs (a)-(c) above;</li><li>prepare a detailed report setting out the reasons for any determination; and</li><li>provide a copy of the report to both parties.</li></ul> Within 14 days of receiving the independent value/s report, the Applicant shall make a binding written offer to the landowner to purchase the land at a price not less than the independent value/s determination.  However, if either party disputes the independent value/s determination, then within 14 days of receiving the independent value/s report, they may refer the matter to the Director-General for review. Any request for a review must be accompanied by a detailed report setting out the reasons why the party disputes the independent value/s determination. Following consultation with the independent valuer and both parties, the Director-General will determine a fair and reasonable acquisition price for the land, having regard to the matters referred to in paragraphs (a)-(c) above, the independent valuer's report, the detailed report of the party that disputes the independent value/s determination and any other relevant submissions.  Within 14 days of this determination, the Applicant shall make a binding written offer to the landowner to purchase the land at a price not less than the Director-General's determination.  If the landowner refuses to accept the Applicant's binding written offer under this condition within 6 months of the offer being made, then the Applicant's obligations to acquire the land shall cease, unless the Director-General determines otherwise.	
7.	The Applicant shall pay all reasonable costs associated with the land acquisition process described in condition 6 above, including the costs associated with obtaining Council approval for any plan of subdivision (where permissible), and registration of this plan at the Office of the Registrar-General.	This condition has not been triggered.
Schedule 5 - ENVIRONMENTAL MANAGEMENT, REPORTING AND AUDITING		
ENVIRONMENTAL MANAGEMENT		
Environmental Management Strategy		
1.	The Applicant shall prepare and implement an Environmental Management Strategy for the development to the satisfaction of the Director-General. The strategy must:	The Environmental Management Strategy was prepared and submitted to the Director-General in February 2012. The Strategy was approved in July 2012.
1 (a)	be submitted to the Director-General for approval prior to carrying out any development on site;	
1 (b)	provide the strategic framework for environmental management of the development;	
1 (c)	identify the statutory approvals that apply to the development;	
1 (d)	describe the role, responsibility, authority and accountability of all key personnel involved in the environmental management of the development;	
1 (e)	describe the procedures that would be implemented to: <ul style="list-style-type: none"><li>keep the local community and relevant agencies informed about the operation and environmental performance of the development;</li><li>receive, handle, respond to, and record complaints;</li><li>resolve any disputes that may arise during the course of the development;</li><li>respond to any non-compliance;</li><li>respond to emergencies; and</li></ul>	
1 (f)	include: <ul style="list-style-type: none"><li>copies of any strategies, plans and programs approved under the conditions of this consent; and</li><li>a clear plan depicting all the monitoring to be carried out in relation to the development.</li></ul>	
Management Plan Requirements		
2.	The Applicant shall ensure that the management plans required under this consent are prepared in accordance with any relevant guidelines, and include:	All management plans in preparation
2 (a)	detailed baseline data;	
2 (b)	a description of: <ul style="list-style-type: none"><li>the relevant statutory requirements (including any relevant consent, licence or lease conditions);</li><li>any relevant limits or performance measures/criteria;</li><li>the specific performance indicators that are proposed to be used to judge the performance of, or guide the implementation of the development or any management measures;</li></ul>	
2 (c)	a description of the measures that would be implemented to comply with the relevant statutory requirements, limits, or performance measures/criteria;	



CONDITION NUMBER	CONDITION	DESCRIPTION OF PERFORMANCE for 2013 reporting period
2 (d)	a program to monitor and report on the: <ul style="list-style-type: none"><li>● impacts and environmental performance of the development;</li><li>● effectiveness of any management measures (see c above);</li></ul>	All management plans in preparation include these conditions.
2 (e)	a contingency plan to manage any unpredicted impacts and their consequences;	
2 (f)	a program to investigate and implement ways to improve the environmental performance of the development over time;	
2 (g)	a protocol for managing and reporting any: <ul style="list-style-type: none"><li>● incidents;</li><li>● complaints;</li><li>● non-compliances with statutory requirements; and</li><li>● exceedances of the impact assessment criteria and/or performance criteria; and</li></ul>	
2 (h)	a protocol for periodic review of the plan.	
Annual Review		
3.	By the end of December each year (or other such timing as agreed by the Director-General), the Applicant shall review the environmental performance of the development to the satisfaction of the Director-General. This review must:	The MTP AEMR reports on the environmental performance of MTP as required by the Development Consent.
3 (a)	describe the development (including any rehabilitation) that was carried out in the past year, and the development that is proposed to be carried out over the next year;	
3 (b)	include a comprehensive review of the monitoring results and complaints records of the development over the past year, which includes a comparison of these results against the: <ul style="list-style-type: none"><li>● relevant statutory requirements, limits or performance measures/criteria;</li><li>● monitoring results of previous years; and</li><li>● relevant predictions in the EIS;</li></ul>	
3 (c)	identify any non-compliance over the last year, and describe what actions were (or are being) taken to ensure compliance;	
3 (d)	identify any trends in the monitoring data over the life of the development;	
3 (e)	identify any discrepancies between the predicted and actual impacts of the development, and analyse the potential cause of any significant discrepancies; and	
3 (f)	describe what measures will be implemented over the next year to improve the environmental performance of the development.	
Revision of Strategies, Plans and Programs		
4.	Within 3 months of:	This condition has not been triggered.
4 (a)	the submission of an annual review under condition 3 above;	
4 (b)	the submission of an incident report under condition 7 below;	
4 (c)	the submission of an audit under condition 9 below; and	
4 (d)	any modification to the conditions of this consent,	
	the Applicant shall review, and if necessary revise, the strategies, plans, and programs required under this consent to the satisfaction of the Director-General.	
Note:	This is to ensure the strategies, plans and programs are updated on a regular basis, and incorporate any recommended measures to improve the environmental performance of the development.	
Management of Cumulative Impacts		
5.	In conjunction with the owners of the nearby mines (including the Bengalla mine), the Applicant shall use its best endeavours to minimise the cumulative impacts of the development on the surrounding area to the satisfaction of the Director-General.	This condition has not been triggered.
Note:	Nothing in this consent is to be construed as requiring the Applicant to act in a manner which is contrary to the Trade Practices Act 1974.	
Community Consultative Committee		
6.	The Applicant shall operate a Community Consultative Committee (CCC) for the development to the satisfaction of the Director-General. This CCC must be operated in general accordance with the Guidelines for Establishing and Operating Community Consultative Committees for Mining Projects (Department of Planning, 2007, or its latest version).	A CCC for the Mount Pleasant Project was formed in 2004. In 2012, meetings were held in March, June and November. For the composition of the CCC, refer to section 4.4 of the 2012 AEMR. The minutes of CCC meetings document the matters discussed. The minutes are available on the Rio Tinto Coal Australia website: <a href="http://www.riotinto.coalaustralia.com.au">www.riotinto.coalaustralia.com.au</a>
Note:	The CCC is an advisory committee. The Department and other relevant agencies are responsible for ensuring that the Applicant complies with this consent.	
REPORTING		
Incident Reporting		
7.	As soon as practicable after the Applicant becomes aware of any incident associated with the development, the Applicant shall notify the Director-General and any other relevant agencies of the incident. Within 7 days of becoming aware of the incident, the Applicant shall provide the Director-General and any relevant agencies with a detailed report on the incident.	There were no incidents associated with the development in 2013
Regular Reporting		
8.	The Applicant shall provide regular reporting on the environmental performance of the development on its website, in accordance with the reporting arrangements in any plans or programs approved under the conditions of this consent, and to the satisfaction of the Director-General.	This condition has not been triggered.
INDEPENDENT ENVIRONMENTAL AUDIT		
9.	By the end of March 2014, and every 3 years thereafter, unless the Director-General directs otherwise, the Applicant shall commission and pay the full cost of an independent Environmental Audit of the development. This audit must:	This condition has not been triggered.
9 (a)	be conducted by a suitably qualified, experienced and independent team of experts whose appointment has been endorsed by the Director-General;	
9 (b)	include consultation with the relevant agencies;	
9 (c)	assess the environmental performance of the development and whether it is complying with the requirements in this consent and any relevant EPL or Mining Lease (including any assessment, plan or program required under these instruments);	
9 (d)	review the adequacy of strategies, plans or programs required under the abovementioned approvals; and	
9 (e)	if necessary, recommend appropriate measures or actions to improve the environmental performance of the development, and/or any strategy, plan or program required under the abovementioned approvals.	
Notes:	<ul style="list-style-type: none"><li>● This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Director-General.</li><li>● The audits can be coordinated with similar auditing requirements for the Bengalla mine.</li></ul>	

CONDITION NUMBER	CONDITION	DESCRIPTION OF PERFORMANCE for 2013 reporting period
10.	Within 3 months of commissioning this audit, or as otherwise agreed by the Director-General, the Applicant shall submit a copy of the audit report to the Director-General, together with its response to any recommendations contained in the audit report.	This condition has not been triggered.
	<b>ACCESS TO INFORMATION</b>	
11.	The Applicant shall:	This information is available on the Rio Tinto Coal Australia Website: <a href="http://www.riotinto.coalaustralia.com.au">www.riotinto.coalaustralia.com.au</a>
11 (a)	make the following information publicly available on its website: <ul style="list-style-type: none"> <li>• the EIS;</li> <li>• all current statutory approvals for the development;</li> <li>• approved strategies, plans and programs required under the conditions of this consent;</li> <li>• a comprehensive summary of the monitoring results of the development, which have been reported in accordance with the various plans and programs approved under the conditions of this consent;</li> <li>• a complaints register, which is to be updated on a monthly basis;</li> <li>• minutes of CCC meetings;</li> <li>• the annual reviews (over the last 5 years);</li> <li>• any independent environmental audit, and the Applicant's response to the recommendations in any audit;</li> <li>• any other matter required by the Director-General; and</li> </ul>	
11 (b)	keep this information up to date,	
	to the satisfaction of the Director-General.	



## Appendix 2 – Environmental Monitoring Results

Mount Pleasant Meteorological Monitoring Data 2013							
Date	Wind Speed Maximum (m/s)	Air Temperature Minimum ( °C)	Air Temperature Maximum (°C)	Relative Humidity Min (%)	Relative Humidity Max (%)	Rainfall (mm)	Cumulative Rainfall (mm)
1/01/2013	7.48	14.82	34.26	29.68	86.2	0.0	0.0
2/01/2013	11.95	21.44	37.15	17.58	59.18	0.0	0.0
3/01/2013	18.07	16.2	31.71	35.12	74.13	0.0	0.0
4/01/2013	14.88	15.3	29.94	41.93	86.7	0.0	0.0
5/01/2013	10.58	14.76	34.5	23.56	91.7	0.0	0.0
6/01/2013	10.67	15.74	37.73	16.29	87	0.0	0.0
7/01/2013	18.26	17.19	35.52	20.37	91.6	0.0	0.0
8/01/2013	11.47	17.09	34.09	31.32	88.3	0.0	0.0
9/01/2013	14.65	17.26	38.4	16.52	81.4	0.0	0.0
10/01/2013	19.17	17.7	37.72	14.28	71.98	0.0	0.0
11/01/2013	17.06	16.34	31.05	40.19	83.6	0.0	0.0
12/01/2013	11.96	14.45	40.88	16.66	90.2	3.0	3.0
13/01/2013	132.1	21.15	43.36	13.05	76.29	12.8	15.8
14/01/2013	130.3	18.68	34.52	40.53	93.7	0.2	16.0
15/01/2013	16.56	13.71	28.55	38.94	94.7	0.2	16.2
16/01/2013	11.67	14.35	35.96	24.58	92.4	0.0	16.2
17/01/2013	11.96	18.27	39.39	19.11	81.6	0.0	16.2
18/01/2013	19.28	21.25	43.22	16.52	80.2	5.4	21.6
19/01/2013	15.36	16.15	30.86	44.65	91	0.0	21.6
20/01/2013	12.6	15.94	21.41	79.67	94.4	0.2	21.8
21/01/2013	13.21	16.96	30.45	46.72	94.2	4.2	26.0
22/01/2013	14.8	16.17	34.12	36.01	96.3	0.0	26.0
23/01/2013	14.52	17.4	27.99	55.59	90.8	0.0	26.0
24/01/2013	13.59	16.79	30.27	48.24	93.4	0.0	26.0
25/01/2013	12.81	17.8	33.91	36.31	94.8	0.0	26.0
26/01/2013	12.68	19.32	34.86	36.01	93.1	22.0	48.0
27/01/2013	8.42	18.39	24.04	65.24	95.9	62.4	110.4
28/01/2013	13.21	18.74	20.92	91.7	96.2	16.4	126.8
29/01/2013	10.18	18.37	31.06	45.22	97.3	0.0	126.8
30/01/2013	11.71	17.66	28.5	54.68	92.8	0.0	126.8
31/01/2013	8.23	18.4	33.12	35.8	96.3	13.8	140.6
1/02/2013	129.2	15.94	29.38	41.08	93	10.6	151.2
2/02/2013	12.63	12.99	18.84	67.14	96	0.0	151.2
3/02/2013	12.97	8.94	23.57	42.66	95.1	0.0	151.2
4/02/2013	11.39	11.81	25.87	47.8	93.4	0.0	151.2
5/02/2013	11.94	14.36	26.5	39.55	90.8	0.0	151.2
6/02/2013	10.21	12.53	27.12	33.83	96.9	0.0	151.2
7/02/2013	8.36	12.15	28.72	30.5	95	0.0	151.2
8/02/2013	5.4	12.8	31.71	29.14	94.9	0.0	151.2
9/02/2013	6.81	11.87	32.83	29.92	88.5	6.0	157.2
10/02/2013	22.22	17.46	33.95	30.36	90.8	5.0	162.2
11/02/2013	13.68	16.52	25.52	61.31	95	0.0	162.2
12/02/2013	13.95	16.35	26.03	60.05	90.3	0.0	162.2
13/02/2013	13.02	14.49	25.18	43.97	93.6	0.0	162.2
14/02/2013	12.2	12.15	26.92	41.72	93.2	0.0	162.2
15/02/2013	13.48	15.09	26.74	55.28	95.5	0.0	162.2
16/02/2013	14.65	15.23	26.97	44.62	93.3	0.0	162.2
17/02/2013	16.59	14.89	26.88	37.33	94.5	0.0	162.2
18/02/2013	125.4	12.22	28.07	42.77	94.9	0.0	162.2
19/02/2013	11.5	13.06	29.42	34.07	97.7	0.0	162.2
20/02/2013	17.49	16.62	28.41	42.34	95.2	0.6	162.8
21/02/2013	16.94	17.16	27.8	46.38	95.2	4.4	167.2
22/02/2013	20.47	16.28	24.95	52.42	95.4	34.0	201.2
23/02/2013	18.08	15.91	22.94	84.5	97	0.2	201.4
24/02/2013	10.89	17.87	31.06	44.92	99	0.0	201.4
25/02/2013	9.76	17.25	30.78	51.2	97.6	0.0	201.4
26/02/2013	8	18.78	29.46	55.04	95.9	0.0	201.4
27/02/2013	6.43	17.6	30.55	31.76	93.6	22.8	224.2
28/02/2013	12.67	16.47	28.88	51.88	96.7	35.2	259.4
1/03/2013	16.07	13.81	17.74	89.5	98.1	22.8	282.2
2/03/2013	16.76	13.51	17.1	93.1	98.6	0.6	282.8
3/03/2013	15.74	15.6	22.55	70.68	99.8	0.6	283.4
4/03/2013	13.78	16.25	24.43	64.53	98	0.0	283.4
5/03/2013	12.63	15.91	25.76	54.67	96.7	0.0	283.4
6/03/2013	8.94	11.61	27.05	48.56	99.4	0.0	283.4
7/03/2013	8.43	11.88	27.22	47.81	99.6	0.0	283.4
8/03/2013	9.18	12.29	27.96	44.88	98.3	0.0	283.4
9/03/2013	7.78	14.21	27.74	42.4	99.4	0.0	283.4
10/03/2013	12	15.81	27.83	52.97	98.1	0.0	283.4
11/03/2013	9.92	14.31	27.25	46.52	99.4	0.0	283.4
12/03/2013	5.7	11.75	27.29	38.97	100	0.0	283.4
13/03/2013	8.39	11.24	27.46	49.33	95.3	0.0	283.4

14/03/2013	11.51	17.79	27.42	60.24	95.9	0.0	283.4
15/03/2013	8.66	16.38	30.82	47.22	99.5	0.0	283.4
16/03/2013	12.49	13.81	24.67	32.54	74.14	0.0	283.4
17/03/2013	10.67	11.81	23.04	48.96	90.2	0.0	283.4
18/03/2013	10.87	12.36	24.88	48.12	91.4	0.0	283.4
19/03/2013	7.88	11.95	25.46	45.29	99.1	0.0	283.4
20/03/2013	9.32	8.7	28.37	37.5	99.2	0.0	283.4
21/03/2013	15.18	18.34	30.14	48.08	73.5	1.2	284.6
22/03/2013	13.6	16.55	29.9	48.42	91.8	0.2	284.8
23/03/2013	10.21	14.85	30.57	31.42	99.8	0.0	284.8
24/03/2013	8.92	12.32	29.63	30.94	90.7	0.0	284.8
25/03/2013	5.68	14.44	29.52	52.33	100	0.0	284.8
26/03/2013	5.16	14.68	31.33	39.2	100	1.8	286.6
27/03/2013	15.59	14.89	31.33	40.8	95.8	1.8	288.4
28/03/2013	10.92	13.24	23.52	46.38	97.4	0.0	288.4
29/03/2013	6.3	10.46	25.93	45.84	96.1	0.0	288.4
30/03/2013	7.34	13.48	23.95	39.6	89.7	0.0	288.4
31/03/2013	6.53	11.58	25.31	44.3	94.6	0.0	288.4
1/04/2013	9.49	9.89	27.09	28.77	98.6	0.0	288.4
2/04/2013	14.09	8.74	23.57	54.63	94.7	0.0	288.4
3/04/2013	13.22	12.65	22.82	62.73	96.9	0.0	288.4
4/04/2013	11.38	12.36	24.52	43.69	99.3	0.0	288.4
5/04/2013	9.11	8.47	23.23	49.16	99.9	0.0	288.4
6/04/2013	7.61	12.01	23.47	48.83	100	0.0	288.4
7/04/2013	8.96	9.89	24.54	40.32	100	0.0	288.4
8/04/2013	13.28	9.35	24.81	50.36	100	0.0	288.4
9/04/2013	9.36	11.61	24.08	48.85	100	0.2	288.6
10/04/2013	9.1	6.73	25.89	30.84	100	0.0	288.6
11/04/2013	8.98	7.921	26.32	40.29	100	0.0	288.6
12/04/2013	5.15	8.02	25.96	34.86	99.1	0.0	288.6
13/04/2013	6.47	8.77	28.21	29.17	97.7	0.0	288.6
14/04/2013	9.45	10.1	29.76	24.72	85.9	0.8	289.4
15/04/2013	9.71	13.83	22.79	57.11	95.2	0.0	289.4
16/04/2013	6.99	12.53	23.23	50.94	96	0.0	289.4
17/04/2013	7.03	9.52	24.77	36.18	100	0.0	289.4
18/04/2013	11.19	5.573	20.45	38.86	92.7	0.2	289.6
19/04/2013	9.53	6.102	16.98	67.74	91	0.2	289.8
20/04/2013	5.59	4.536	20.29	40.5	100	0.0	289.8
21/04/2013	16.09	10.02	26.36	23.66	86.9	0.0	289.8
22/04/2013	9.05	6.306	24.86	29.82	82.2	0.0	289.8
23/04/2013	9.15	6.511	24.41	25.74	86.7	0.0	289.8
24/04/2013	8	4.197	22.95	23.32	87.3	0.0	289.8
25/04/2013	5.91	5.319	25.24	24.28	79.97	0.0	289.8
26/04/2013	5.74	6.743	26.44	28.67	76.08	0.0	289.8
27/04/2013	9.23	9.59	28.48	21.59	61.87	0.0	289.8
28/04/2013	5.27	9.11	29.18	16.59	71.02	0.0	289.8
29/04/2013	7.21	7.648	25.42	46.89	95.2	0.0	289.8
30/04/2013	10.42	11.34	28.91	36.01	100	0.0	289.8
1/05/2013	12.5	8.91	19.65	35.02	95.3	0.0	289.8
2/05/2013	5.26	6.034	22.02	34.17	95.8	0.0	289.8
3/05/2013	16.91	8.94	27.55	16.73	76.77	0.0	289.8
4/05/2013	10.1	9.32	20.41	40.4	79.09	0.0	289.8
5/05/2013	10.6	3.08	19.87	44.3	94.5	0.0	289.8
6/05/2013	9.97	4.877	21.94	54.16	100	0.0	289.8
7/05/2013	8.37	5.898	20.8	56.88	100	0.2	290.0
8/05/2013	6.74	7.819	22.29	43.25	100	0.0	290.0
9/05/2013	10.58	3.354	22.26	43.43	99.9	0.0	290.0
10/05/2013	10	4.877	23.68	52.67	99.8	0.2	290.2
11/05/2013	5.76	7.342	22.23	44.27	100	1.2	291.4
12/05/2013	13.36	5.489	23.89	42.6	98.5	0.0	291.4
13/05/2013	9.43	7.716	20.98	38.05	96.9	0.0	291.4
14/05/2013	10.77	2.884	21.38	36.78	89.1	0.2	291.6
15/05/2013	14.56	8.2	20.58	43.56	79.12	0.0	291.6
16/05/2013	17.03	7.191	19.26	34.03	85.2	0.0	291.6
17/05/2013	14	5.932	18.11	34.24	79.22	0.0	291.6
18/05/2013	12.74	5.286	17.89	32.87	68.39	0.0	291.6
19/05/2013	9.2	1.03	19.12	35.22	88.4	0.0	291.6
20/05/2013	12.18	3.864	22.97	27.78	85	6.0	297.6
21/05/2013	7.68	7.785	14.13	58.83	97	4.0	301.6
22/05/2013	11.06	8.43	13.72	86.8	97.5	1.4	303.0
23/05/2013	14.13	8.64	18.45	55.64	96.7	0.0	303.0
24/05/2013	6.86	5.932	19.96	47.25	96.6	0.2	303.2
25/05/2013	4.83	2.818	20.03	37.62	98.2	0.0	303.2
26/05/2013	11.8	0.573	18.65	53.93	97.3	0.0	303.2

27/05/2013	6.68	6.798	17.59	76.42	100	0.2	303.4
28/05/2013	5.23	8.5	20.05	50.54	100	0.2	303.6
29/05/2013	4.63	3.655	22.44	38.15	100	0.0	303.6
30/05/2013	5.48	4.536	23.68	40.16	96	0.4	304.0
31/05/2013	10.78	7.24	20.13	51.61	94.5	8.0	312.0
1/06/2013	15.35	7.08	19.69	58.13	98.7	0.2	312.2
2/06/2013	6.53	3.149	17.21	44.27	98.2	0.0	312.2
3/06/2013	5.61	0.519	18.08	51.39	98.2	0.0	312.2
4/06/2013	7.85	0.335	18.89	42.8	100	0.0	312.2
5/06/2013	9.15	8.12	20.27	56.17	84.8	0.0	312.2
6/06/2013	11.93	8.67	20.2	64.93	92.4	0.2	312.4
7/06/2013	10.07	4.564	16.24	75.37	100	0.2	312.6
8/06/2013	5.05	4.877	17.46	68.93	100	2.6	315.2
9/06/2013	7.68	3.617	17.49	74.59	100	0.2	315.4
10/06/2013	4.58	7.444	19.53	62.27	100	12.2	327.6
11/06/2013	125.5	4.401	15.62	90.5	100	0.2	327.8
12/06/2013	16.16	9.35	18.19	57.21	100	0.0	327.8
13/06/2013	13.98	7.989	15.98	61.42	96.4	0.0	327.8
14/06/2013	9.59	8.01	18.11	42.29	86	0.0	327.8
15/06/2013	5.16	1.796	16.48	44.02	99.3	0.0	327.8
16/06/2013	10.17	1.357	17.09	40.89	95.5	0.0	327.8
17/06/2013	9.53	3.832	16.41	36.33	90.1	0.0	327.8
18/06/2013	9.85	5.285	15.39	53.18	91.9	0.0	327.8
19/06/2013	4.93	3.558	13.93	62.03	93.6	0.0	327.8
20/06/2013	8.69	3.218	15.34	54.88	98.8	0.0	327.8
21/06/2013	5.44	-1.116	15.39	50.39	100	0.0	327.8
22/06/2013	6.51	3.277	14.68	68.55	96.7	0.0	327.8
23/06/2013	10.33	6.602	17.1	39.33	100	0.0	327.8
24/06/2013	9.35	4.239	14.86	54.77	93.1	5.2	333.0
25/06/2013	15.29	4.951	16.25	78.11	98.9	6.8	339.8
26/06/2013	9.89	8.77	14.82	88.8	100	5.0	344.8
27/06/2013	7.64	9.79	16.3	80.7	100	2.2	347.0
28/06/2013	7.19	9.82	14.72	84	100	1.8	348.8
29/06/2013	7.77	7.138	14.41	80.8	100	0.2	349.0
30/06/2013	7.61	5.081	16.61	76.33	100	0.2	349.2
1/07/2013	5.4	4.843	17.21	66.58	100	0.2	349.4
2/07/2013	4.91	1.626	17.82	60.95	100	0.0	349.4
3/07/2013	16.58	2.103	21.37	51.33	96.3	0.0	349.4
4/07/2013	18.18	6.749	19.98	33.62	75.01	0.0	349.4
5/07/2013	11.79	0.383	15.41	33.21	86.3	0.0	349.4
6/07/2013	5.88	-0.264	16.19	31.28	86.8	0.0	349.4
7/07/2013	4.95	-1.345	15.54	38.16	95.5	0.0	349.4
8/07/2013	10.37	-1.184	14.33	58.92	94.8	0.6	350.0
9/07/2013	6.22	4.434	12.98	68.53	97.6	0.0	350.0
10/07/2013	6.15	3.14	15.15	69.62	99.7	0.2	350.2
11/07/2013	5.84	2.528	16.66	67.67	100	0.0	350.2
12/07/2013	5.7	1.89	18.67	60.55	100	0.2	350.4
13/07/2013	4.9	5.675	16.25	70.88	100	0.2	350.6
14/07/2013	8.09	8.26	18.96	61.47	100	1.6	352.2
15/07/2013	8.18	9.65	18.79	68.98	100	0.2	352.4
16/07/2013	8.44	7.58	22.09	53.07	100	0.0	352.4
17/07/2013	4.87	4.672	21.8	53.86	100	3.6	356.0
18/07/2013	12.53	9.38	20.33	56.98	96.1	19.0	375.0
19/07/2013	127.3	9.76	17.78	47	99.3	0.0	375.0
20/07/2013	13.23	2.332	15.37	29.44	83.1	0.0	375.0
21/07/2013	13.83	0.724	16.62	34.35	87.6	0.0	375.0
22/07/2013	12.91	2.069	15.97	43.35	78.29	0.0	375.0
23/07/2013	10.11	2.233	16.81	47.36	93.7	0.0	375.0
24/07/2013	5.05	-0.809	15.92	49.02	98.5	0.0	375.0
25/07/2013	9.63	1.293	19.78	22.44	98.2	0.0	375.0
26/07/2013	6.71	-0.925	17.71	45.26	95	0.0	375.0
27/07/2013	5.42	0.073	17.48	53.48	98.6	0.0	375.0
28/07/2013	8.73	0.945	21.93	35.12	99.8	0.0	375.0
29/07/2013	7.85	0.4	20.42	42.31	92.2	0.0	375.0
30/07/2013	10.83	7.648	16.82	64.95	96.8	0.0	375.0
31/07/2013	6.06	3.957	16.87	56.01	98.1	0.0	375.0
1/08/2013	10.63	0.366	19.21	42.01	100	0.0	375.0
2/08/2013	15.59	5.421	17.75	38.06	74.08	0.0	375.0
3/08/2013	15.56	4.468	17.94	35.87	78.03	0.0	375.0
4/08/2013	13.48	1.386	18.38	34.8	86	0.0	375.0
5/08/2013	14.54	3.388	21.3	30.77	82.5	2.2	377.2
6/08/2013	9.83	9.65	22.85	26.65	94.1	0.0	377.2
7/08/2013	15.33	5.965	14.47	48.04	92.8	0.0	377.2
8/08/2013	11.26	1.934	18.48	31.13	94.6	0.0	377.2

9/08/2013	12.54	5.729	22.92	23.49	75.2	0.0	377.2
10/08/2013	9.03	3.8	22.63	34.56	85.4	0.0	377.2
11/08/2013	17.91	7.206	25.05	24.27	78.99	0.0	377.2
12/08/2013	14.44	3.764	20.12	20.36	80.9	0.0	377.2
13/08/2013	11.58	3.83	22.13	17	64.69	0.0	377.2
14/08/2013	17.42	2.201	18.22	14.79	73.16	0.0	377.2
15/08/2013	5.23	-1.082	20.61	19.08	74.94	0.0	377.2
16/08/2013	18.23	3.685	20.17	38.95	77.72	0.0	377.2
17/08/2013	10.96	4.171	21.36	24.78	78.96	0.0	377.2
18/08/2013	19.47	-0.144	42.21	25.7	64.28	0.0	377.2
19/08/2013	15.1	4.039	17.11	23.69	72.77	0.0	377.2
20/08/2013	11.37	0.991	17.21	29.16	77.12	0.0	377.2
21/08/2013	17.05	1.302	19.22	28.96	80.5	0.0	377.2
22/08/2013	21.16	9.84	19.53	36.23	60.6	0.0	377.2
23/08/2013	9.9	8.79	22.51	33.05	76.47	0.0	377.2
24/08/2013	10.91	3.756	24.99	19.96	94	0.0	377.2
25/08/2013	13.29	3.515	24.8	19.25	82.1	0.0	377.2
26/08/2013	10.14	3.644	24.95	17.04	85.6	0.0	377.2
27/08/2013	8.26	4.17	24.54	24.82	80.7	0.0	377.2
28/08/2013	8.36	5.228	24.13	31.79	87	0.0	377.2
29/08/2013	16.75	10.61	28.32	22.95	81.8	0.0	377.2
30/08/2013	11.46	9.55	26.23	20.64	67.81	0.0	377.2
31/08/2013	9.3	4.203	25.1	25.57	90.8	0.0	377.2
1/09/2013	9.37	4.989	24.51	26.79	93.5	0.0	377.2
2/09/2013	9.43	6.328	24.96	38.8	100	0.0	377.2
3/09/2013	5.82	6.469	25.04	30.22	100	0.0	377.2
4/09/2013	10.84	5.121	28.33	22.51	92.3	0.0	377.2
5/09/2013	7.4	9.69	30	23.19	73.57	0.0	377.2
6/09/2013	12	11.64	32.71	12.24	68.53	0.0	377.2
7/09/2013	10.41	9.48	26.98	40.97	90.3	0.0	377.2
8/09/2013	7.99	12.39	28.53	24.99	96.2	0.0	377.2
9/09/2013	22.94	17.35	30	20.06	52.24	0.0	377.2
10/09/2013	13.68	9.34	26.4	9.79	71.16	0.0	377.2
11/09/2013	12.91	5.194	25.22	17.37	72.99	0.0	377.2
12/09/2013	12.77	8.14	20.38	41.23	80.3	0.0	377.2
13/09/2013	14.02	7.207	28.36	17.17	94.6	0.0	377.2
14/09/2013	9.04	7.598	23.28	33.35	94.4	20.6	397.8
15/09/2013	10.13	10.51	15.31	84.1	97.9	1.2	399.0
16/09/2013	19	11.4	22.44	45.64	94.4	0.0	399.0
17/09/2013	17.2	12.25	25.4	26.32	89.6	0.0	399.0
18/09/2013	16.14	11.3	23.39	25.19	55.78	0.0	399.0
19/09/2013	24.22	5.403	23.61	15.36	81.4	0.0	399.0
20/09/2013	7.25	6.332	22.78	24.55	76.13	0.0	399.0
21/09/2013	9.72	5.545	26.03	13.36	86.6	0.0	399.0
22/09/2013	14.94	8.31	30.56	10.2	75.79	0.0	399.0
23/09/2013	20.18	14.45	32	11.32	42.9	0.0	399.0
24/09/2013	11.13	10.86	33.72	13.29	63.57	0.0	399.0
25/09/2013	22.04	11.88	34.27	14.86	61.21	0.0	399.0
26/09/2013	9.24	6.506	26.6	12.61	74.87	0.0	399.0
27/09/2013	21.86	3.308	31.18	7.479	82.8	0.0	399.0
28/09/2013	7.24	7.174	26.57	14.49	73.78	0.0	399.0
29/09/2013	14.44	5.194	30.52	11.12	78.88	27.8	426.8
30/09/2013	132.4	13.04	34.03	24.72	86.5	0.0	426.8
1/10/2013	13.16	9.04	26.26	24.14	73.4	0.2	427.0
2/10/2013	17.28	6.813	20.69	24.79	83.4	0.0	427.0
3/10/2013	6.96	1.733	21.81	22.85	94.9	0.0	427.0
4/10/2013	14.42	3.658	30.27	12.17	89.9	0.0	427.0
5/10/2013	6.86	8.83	33.59	8.13	70.42	0.0	427.0
6/10/2013	15.53	-	20.41	-	38.45	0.0	427.0
7/10/2013	124.3	8.14	27.02	18.19	89.8	0.0	427.0
8/10/2013	12.83	5.573	30.48	11.93	93	0.0	427.0
9/10/2013	18.03	11.98	34.55	11.66	51.14	0.0	427.0
10/10/2013	14.37	13.59	29.87	15.46	80.8	0.0	427.0
11/10/2013	11.24	7.14	34.51	7.718	94.9	3.4	430.4
12/10/2013	136.2	14.01	35.13	7.276	75.25	1.0	431.4
13/10/2013	13.28	10.31	22.52	16.76	79.87	0.0	431.4
14/10/2013	10.14	4.962	25.61	14.25	79.95	0.0	431.4
15/10/2013	13.53	6.262	30.08	7.615	62.13	33.8	465.2
16/10/2013	26.06	14.92	33.93	5.338	40.75	0.0	465.2
17/10/2013	15	11.5	22.94	21.63	74.14	0.0	465.2
18/10/2013	14.39	5.297	28.98	25.64	93.9	0.0	465.2
19/10/2013	9.87	9.07	32.41	16.56	93.6	0.0	465.2
20/10/2013	13.59	12.29	35.85	16.66	65.66	0.0	465.2
21/10/2013	11.93	17.48	37.16	13.77	69.86	0.8	466.0

22/10/2013	21.51	20.08	36.06	18.05	72.68	0.0	466.0
23/10/2013	17.4	13.25	26.24	11.53	53.87	0.0	466.0
24/10/2013	10.99	5.031	27.63	4.964	54.92	0.0	466.0
25/10/2013	13.23	8.09	28.26	4.013	79.74	0.0	466.0
26/10/2013	11.16	7.774	28.18	11.87	93.6	5.8	471.8
27/10/2013	11.74	10.2	31.89	14.99	89.1	13.0	484.8
28/10/2013	135.4	9.71	32.72	19.93	98.2	0.0	484.8
29/10/2013	10.95	11.7	24.91	27.4	84.6	0.0	484.8
30/10/2013	14.27	6.69	28.21	11.29	91.6	0.0	484.8
31/10/2013	10.01	12.25	29.8	21.83	88.9	0.0	484.8
1/11/2013	14.31	10.34	35.71	10.71	94.5	0.0	484.8
2/11/2013	21.08	14.64	36.75	4.827	71.29	0.0	484.8
3/11/2013	14.39	10.71	24.23	21.49	73.8	0.0	484.8
4/11/2013	13.59	10.34	22.67	34.34	74.34	0.0	484.8
5/11/2013	9.29	6.329	29.56	14.08	92.2	0.0	484.8
6/11/2013	10.42	9.81	34.5	14.82	89.2	0.0	484.8
7/11/2013	18.09	17.58	37.91	11.86	47.61	4.2	489.0
8/11/2013	21.2	16.79	35	20.06	83.6	0.0	489.0
9/11/2013	16.38	13.75	23.73	43.07	93.4	7.8	496.8
10/11/2013	13.79	12.73	20.91	70.34	97.5	22.2	519.0
11/11/2013	128.2	12.95	24.52	52.53	98.4	0.0	519.0
12/11/2013	15.52	10.48	31.79	9.18	91.1	0.0	519.0
13/11/2013	13.59	10.17	31.24	10.68	71.14	0.0	519.0
14/11/2013	8.122	-	17.49	-	75.37		519.0
15/11/2013	7.136	-	16.59	-	73.17	4.6	523.6
16/11/2013	18.57	12.18	29.07	18.33	95.1	83.6	607.2
17/11/2013	10.11	11.64	14.9	92.9	98.8	0.4	607.6
18/11/2013	10.91	11.81	26.52	42.91	100	0.0	607.6
19/11/2013	6.483	-	22.64	-	76.41	1.0	608.6
20/11/2013	16.73	11.7	31.69	30.98	99.4	25.8	634.4
21/11/2013	130.7	16.97	24.78	63.15	94.7	23.2	657.6
22/11/2013	129.3	14.64	22.44	71.6	96.8	0.2	657.8
23/11/2013	13.64	11.74	27.9	22.34	97.1	0.0	657.8
24/11/2013	16.81	12.73	27.26	33.01	93.8	0.0	657.8
25/11/2013	4.165	-	19.52	-	61.4	0.0	657.8
26/11/2013	5.135	-	23.75	-	53.38	5.6	663.4
27/11/2013	12.49	9.31	33.82	17.2	93.3	0.2	663.6
28/11/2013	7.183	-	17.77	-	73.72	0.0	663.6
29/11/2013	26.38	12.33	29.45	25.46	92.5	0.0	663.6
30/11/2013	14.46	11.13	24.94	42.84	91.8	0.0	663.6
1/12/2013	8.41	9.96	26.6	28.52	94.8	0.0	663.6
2/12/2013	7.15	9.27	30.62	15.33	95.4	0.0	663.6
3/12/2013	11.58	9.61	33.89	17.2	90	0.0	663.6
4/12/2013	128.8	11.63	28.98	24.01	87.1	2.0	665.6
5/12/2013	11.94	9.62	23.98	15.61	64.76	0.0	665.6
6/12/2013	6.56	7.017	26.62	21.55	75.06	0.0	665.6
7/12/2013	7.2	9.65	31.83	18.32	86.9	0.0	665.6
8/12/2013	19.69	17.46	34.99	19.45	69.28	0.0	665.6
9/12/2013	17.08	18.09	34.65	16.45	77.48	0.0	665.6
10/12/2013	14.25	11.39	31.96	10.51	71.66	0.0	665.6
11/12/2013	11.23	12.97	30.66	28.49	87.5	0.0	665.6
12/12/2013	9.99	13.93	32.93	23.53	93.2	0.0	665.6
13/12/2013	16.31	14.23	30.51	33.39	83.6	0.0	665.6
14/12/2013	13.34	15.36	29.73	41.11	90.5	0.0	665.6
15/12/2013	17.68	16.01	30.76	40.56	93.4	0.0	665.6
16/12/2013	10.52	14.54	30.45	25.3	94.5	0.0	665.6
17/12/2013	11.52	15.05	30.44	32.71	93	0.0	665.6
18/12/2013	6.63	12.7	34.17	12.38	94.7	0.0	665.6
19/12/2013	10.77	15.88	37.91	15.47	77.06	0.0	665.6
20/12/2013	14.6	20.29	37.43	20.4	80.5	0.0	665.6
21/12/2013	11.76	19.74	39.39	16.83	84.7	0.0	665.6
22/12/2013	16.44	25.28	37.98	20.47	44.03	0.0	665.6
23/12/2013	14.25	18.27	29.41	31.41	89.3	0.2	665.8
24/12/2013	9.56	16.84	20.93	78.7	96.6	8.4	674.2
25/12/2013	14.09	18.33	30.73	42.23	97.4	3.8	678.0
26/12/2013	14.17	15.43	31.65	36.35	93.7	0.0	678.0
27/12/2013	9.56	15.6	33.27	30.84	95	0.0	678.0
28/12/2013	19.16	16.7	36.7	16.62	81.1	0.0	678.0
29/12/2013	10.93	13.62	30.04	32.88	83.6	0.0	678.0
30/12/2013	13.29	14.92	28.62	27.37	77.98	0.0	678.0
31/12/2013	13.96	15.02	28.21	40.74	86.9	0.0	678.0

**Mount Pleasant  
Depositional Dust Monitoring Results 2013**

Station	Date	Dep - Ash (g/m2/month)	Dep - Insoluble (g/m2/month)	Comment
D1	21/01/2013	1.3	2.2	Insects
D1	21/02/2013	1.0	1.9	Insects
D1	21/03/2013	0.7	1.3	Insects
D1	22/04/2013	1.3	1.9	Insects
D1	24/05/2013	1.1	1.4	Insects
D1	24/06/2013	0.2	0.4	Insects
D1	24/07/2013	0.6	0.9	Insects
D1	22/08/2013	0.2	0.4	Insects
D1	19/09/2013	0.6	1.1	Insects
D1	21/10/2013	0.8	1.1	Insects
D1	20/11/2013	0.9	1.4	Insects
D1	19/12/2013	0.3	0.5	Insects
D10	21/01/2013	1.5	4.2	Insects
D10	21/02/2013	-	-	Gauge Damaged
D10	21/03/2013	-	-	Gauge Damaged
D10	22/04/2013	-	-	Gauge Damaged
D10	24/05/2013	-	-	Gauge Damaged
D10	24/06/2013	-	-	Gauge Damaged
D10	24/07/2013	-	-	Gauge Damaged
D10	22/08/2013	-	-	Gauge Damaged
D10	19/09/2013	-	-	Gauge Damaged
D10	21/10/2013	-	-	Gauge Damaged
D10	20/11/2013	-	-	Gauge Damaged
D10	19/12/2013	-	-	Gauge Damaged
D11	21/01/2013	1.5	2.3	Insects
D11	21/02/2013	0.6	1.0	Insects
D11	21/03/2013	0.8	1.1	Insects
D11	22/04/2013	0.6	1.8	Insects
D11	24/05/2013	0.5	0.7	Insects
D11	24/06/2013	0.2	0.3	Insects
D11	24/07/2013	0.5	0.7	Insects
D11	22/08/2013	0.3	0.5	Insects
D11	19/09/2013	0.6	0.9	Insects
D11	21/10/2013	1.5	4.2	Insects and Bird Droppings
D11	20/11/2013	0.6	0.9	Insects
D11	19/12/2013	0.4	0.7	Insects
D12	21/01/2013	0.7	1.1	Insects
D12	21/02/2013	0.4	0.6	Insects
D12	21/03/2013	0.7	1.0	Insects
D12	22/04/2013	0.7	1.1	Insects
D12	24/05/2013	0.5	0.7	Insects
D12	24/06/2013	0.1	0.2	Insects
D12	24/07/2013	0.5	0.7	Insects
D12	22/08/2013	0.2	0.3	Insects
D12	19/09/2013	0.4	0.9	Insects
D12	21/10/2013	0.5	0.9	Insects
D12	20/11/2013	0.2	0.4	Insects
D12	19/12/2013	0.3	0.6	Insects
D13	21/01/2013	2.0	13.5	Insects
D13	21/02/2013	1.2	2.4	Insects
D13	21/03/2013	0.6	0.9	Insects
D13	22/04/2013	2.0	3.9	Insects
D13	24/05/2013	1.5	3.1	Insects
D13	24/06/2013	0.9	3.0	Insects
D13	24/07/2013	1.6	2.8	Insects
D13	22/08/2013	1.6	3.0	Insects
D13	19/09/2013	0.5	1.0	Insects
D13	21/10/2013	1.2	1.8	Insects and Organics
D13	20/11/2013	0.7	1.3	Insects and Bird Droppings
D13	19/12/2013	0.7	1.3	Insects
D14	21/01/2013	1.6	3.6	Insects
D14	21/02/2013	2.8	4.8	Insects
D14	21/03/2013	3.7	6.5	Insects
D14	22/04/2013	3.0	4.0	Insects
D14	24/05/2013	1.7	2.3	Insects
D14	24/06/2013	0.4	0.7	Insects
D14	24/07/2013	1.6	2.1	Insects
D14	22/08/2013	0.7	1.1	Insects
D14	19/09/2013	2.0	2.7	Insects
D14	21/10/2013	1.9	3.6	Insects
D14	20/11/2013	2.0	2.6	Insects
D14	19/12/2013	1.2	2.0	Insects
D3	21/01/2013	2.0	2.8	Insects
D3	21/02/2013	1.1	1.8	Insects
D3	21/03/2013	1.2	1.9	Insects, Bird Droppings and Vegetation
D3	22/04/2013	1.3	2.0	Insects
D3	24/05/2013	1.5	2.0	Insects
D3	24/06/2013	0.4	0.7	Insects
D3	24/07/2013	0.9	1.3	Insects
D3	22/08/2013	0.3	0.8	Insects

D3	19/09/2013	1.2	1.8	Insects
D3	21/10/2013	1.4	2.0	Insects and Bird Droppings
D3	20/11/2013	1.7	2.7	Insects
D3	19/12/2013	0.9	1.5	Insects
D4	21/01/2013	0.8	1.3	Insects
D4	21/02/2013	0.3	0.5	Insects
D4	21/03/2013	0.8	1.3	Insects
D4	22/04/2013	1.6	2.5	Insects
D4	24/05/2013	0.9	2.5	Insects
D4	24/06/2013	0.4	0.8	Insects
D4	24/07/2013	0.3	0.5	Insects
D4	22/08/2013	0.2	0.4	Insects
D4	19/09/2013	0.4	0.7	Insects
D4	21/10/2013	0.9	1.5	Insects
D4	20/11/2013	0.6	1.2	Insects
D4	19/12/2013	1.3	2.5	Insects
D5	21/01/2013	2.5	3.8	Insects
D5	21/02/2013	1.0	1.6	Insects
D5	21/03/2013	1.8	3.6	Insects and Bird Droppings
D5	22/04/2013	3.3	4.8	Insects
D5	24/05/2013	2.9	5.0	Insects and Bird Droppings
D5	24/06/2013	1.7	3.1	Insects
D5	24/07/2013	2.0	2.9	Insects
D5	22/08/2013	0.8	1.4	Insects
D5	19/09/2013	1.8	2.8	Insects
D5	21/10/2013	2.3	3.2	Insects and Bird Droppings
D5	20/11/2013	2.0	3.1	Insects and Bird Droppings
D5	19/12/2013	1.8	3.1	Insects
D6	21/01/2013	2.0	3.9	Insects
D6	21/02/2013	1.7	3.7	Insects and Bird Droppings
D6	21/03/2013	1.4	2.2	Insects, Bird Droppings and Vegetation
D6	22/04/2013	2.3	3.6	Insects and Bird Droppings
D6	24/05/2013	0.1	0.2	Insects
D6	24/06/2013	0.7	1.2	Insects
D6	24/07/2013	1.0	1.7	Insects
D6	22/08/2013	0.9	1.6	Insects and Bird Droppings
D6	19/09/2013	2.7	7.8	Insects
D6	21/10/2013	1.8	3.9	Insects and Bird Droppings
D6	20/11/2013	2.2	5.2	Insects and Bird Droppings
D6	19/12/2013	1.7	4.1	Insects and Bird Droppings
D7	21/01/2013	7.2	9.5	Insects
D7	21/02/2013	5.4	7.1	Insects
D7	21/03/2013	16.4	20.3	Insects
D7	22/04/2013	20.8	27.8	Insects and Bird Droppings
D7	24/05/2013	1.1	1.4	Insects and Bird Droppings
D7	24/06/2013	6.4	9.3	Insects and Bird Droppings
D7	24/07/2013	11.0	15.0	Insects and Bird Droppings
D7	22/08/2013	11.1	13.9	Insects and Bird Droppings
D7	19/09/2013	8.6	11.5	Insects and Bird Droppings
D7	21/10/2013	6.9	10.5	Insects and Bird Droppings
D7	20/11/2013	5.9	7.5	Insects and Bird Droppings
D7	19/12/2013	2.6	3.7	Insects and Bird Droppings
D8	21/01/2013	1.5	2.4	Insects
D8	21/02/2013	2.9	8.4	Insects and Plastic
D8	21/03/2013	4.4	6.5	Insects
D8	22/04/2013	3.7	5.0	Insects
D8	24/05/2013	9.8	13.9	Insects
D8	24/06/2013	0.9	1.2	Insects
D8	24/07/2013	1.7	2.3	Insects
D8	22/08/2013	1.1	1.5	Insects
D8	19/09/2013	2.3	3.1	Insects
D8	21/10/2013	2.0	2.7	Insects
D8	20/11/2013	2.8	3.7	Insects
D8	19/12/2013	1.9	2.6	Insects
D9	21/01/2013	0.6	1.0	Insects
D9	21/02/2013	1.1	1.7	Insects, Plastic and Glass
D9	21/03/2013	0.9	1.7	Insects
D9	22/04/2013	1.2	1.6	Insects
D9	24/05/2013	2.5	3.6	Insects
D9	24/06/2013	0.5	0.7	Insects
D9	24/07/2013	0.6	1.0	Insects
D9	22/08/2013	0.4	0.7	Insects
D9	19/09/2013	0.7	1.3	Insects
D9	21/10/2013	0.7	1.3	Insects
D9	20/11/2013	0.9	1.2	Insects
D9	19/12/2013	0.4	0.7	Insects



**Mount Pleasant  
Surface Water Monitoring Data - 2013**

Station	Date	Electrical Conductivity (uS/cm)	pH	Total Suspended Solids (mg/L)	Comment
W1	21/01/2013	-	-	-	No Access
W1	21/02/2013	-	-	-	No Access
W1	21/03/2013	-	-	-	No Access
W1	22/04/2013	-	-	-	No Access
W1	24/05/2013	-	-	-	No Access
W1	24/06/2013	-	-	-	No Access
W1	24/07/2013	-	-	-	No Access
W1	22/08/2013	-	-	-	No Access
W1	19/09/2013	-	-	-	No Access
W1	21/10/2013	-	-	-	No Access
W1	20/11/2013	-	-	-	No Access
W1	19/12/2013	-	-	-	No Access
W2	21/01/2013	338	7.4	5	-
W2	21/02/2013	536	7.9	8	-
W2	21/03/2013	601	8.1	8	-
W2	22/04/2013	680	7.7	8	-
W2	24/05/2013	490	7.8	3	-
W2	24/06/2013	725	8.3	4	-
W2	24/07/2013	657	8.3	7	-
W2	22/08/2013	597	8.8	3	-
W2	19/09/2013	423	7.8	14	-
W2	21/10/2013	323	8.1	13	-
W2	20/11/2013	369	7.8	27	-
W2	19/12/2013	371	7.2	19	-
W3	21/01/2013	-	-	-	Automatic monitoring - EC reading from HITS website
W3	21/02/2013	-	-	-	Automatic monitoring - EC reading from HITS website
W3	21/03/2013	-	-	-	Automatic monitoring - EC reading from HITS website
W3	22/04/2013	-	-	-	Automatic monitoring - EC reading from HITS website
W3	24/05/2013	-	-	-	Automatic monitoring - EC reading from HITS website
W3	24/06/2013	-	-	-	Automatic monitoring - EC reading from HITS website
W3	24/07/2013	-	-	-	Automatic monitoring - EC reading from HITS website
W3	22/08/2013	-	-	-	Automatic monitoring - EC reading from HITS website
W3	19/09/2013	459	8.0	12	Automatic monitoring - EC reading from HITS website
W3	21/10/2013	-	-	-	Automatic monitoring - EC reading from HITS website
W3	20/11/2013	-	-	-	Automatic monitoring - EC reading from HITS website
W3	19/12/2013	-	-	-	Automatic monitoring - EC reading from HITS website
W4	21/01/2013	2420	7.6	5	-

**Mount Pleasant  
Surface Water Monitoring Data - 2013**

Station	Date	Electrical Conductivity (uS/cm)	pH	Total Suspended Solids (mg/L)	Comment
W4	21/02/2013	1694	7.5	28	-
W4	21/03/2013	1764	7.8	5	-
W4	22/04/2013	2550	7.6	4	-
W4	24/05/2013	2680	7.6	3	-
W4	24/06/2013	2520	8.0	2	-
W4	24/07/2013	2360	7.8	15	-
W4	22/08/2013	3100	7.9	4	-
W4	19/09/2013	2410	7.7	<5	-
W4	21/10/2013	2690	7.6	7	-
W4	20/11/2013	602	7.3	27	-
W4	19/12/2013	1930	7.3	9	-
W5	21/01/2013	-	-	-	Dry
W5	21/02/2013	-	-	-	Dry
W5	21/03/2013	-	-	-	Dry
W5	22/04/2013	-	-	-	Dry
W5	24/05/2013	-	-	-	Dry
W5	24/06/2013	-	-	-	Dry
W5	24/07/2013	-	-	-	Dry
W5	22/08/2013	-	-	-	Dry
W5	19/09/2013	-	-	-	Dry
W5	21/10/2013	-	-	-	Dry
W5	20/11/2013	-	-	-	Dry
W5	19/12/2013	-	-	-	Dry
W6	21/01/2013	-	-	-	No Access
W6	21/02/2013	-	-	-	No Access
W6	21/03/2013	-	-	-	No Access
W6	22/04/2013	-	-	-	No Access
W6	24/05/2013	-	-	-	No Access
W6	24/06/2013	-	-	-	No Access
W6	24/07/2013	-	-	-	No Access
W6	22/08/2013	-	-	-	No Access
W6	19/09/2013	-	-	-	No Access
W6	21/10/2013	-	-	-	No Access
W6	20/11/2013	-	-	-	No Access
W6	19/12/2013	-	-	-	No Access
W7	21/01/2013	-	-	-	Dry
W7	21/02/2013	-	-	-	Dry
W7	21/03/2013	-	-	-	Dry
W7	22/04/2013	-	-	-	Dry
W7	24/05/2013	-	-	-	Dry
W7	24/06/2013	-	-	-	Dry
W7	24/07/2013	-	-	-	Dry
W7	22/08/2013	-	-	-	Dry

**Mount Pleasant  
Surface Water Monitoring Data - 2013**

Station	Date	Electrical Conductivity (uS/cm)	pH	Total Suspended Solids (mg/L)	Comment
W7	19/09/2013	-	-	-	Dry
W7	21/10/2013	-	-	-	Dry
W7	20/11/2013	-	-	-	Dry
W7	19/12/2013	-	-	-	Dry
W8	21/01/2013	-	-	-	Dry
W8	21/02/2013	-	-	-	Dry
W8	21/03/2013	286	8.5	964	-
W8	22/04/2013	-	-	-	Dry
W8	24/05/2013	-	-	-	Dry
W8	24/06/2013	-	-	-	Dry
W8	24/07/2013	-	-	-	Dry
W8	22/08/2013	-	-	-	Dry
W8	19/09/2013	-	-	-	Dry
W8	21/10/2013	-	-	-	Dry
W8	20/11/2013	94	7.4	494	-
W8	19/12/2013	-	-	-	Dry
W9	21/01/2013	-	-	-	Dry
W9	21/02/2013	-	-	-	Dry
W9	21/03/2013	-	-	-	Dry
W9	22/04/2013	-	-	-	Dry
W9	24/05/2013	-	-	-	Dry
W9	24/06/2013	-	-	-	Dry
W9	24/07/2013	-	-	-	Dry
W9	22/08/2013	-	-	-	Dry
W9	19/09/2013	-	-	-	Dry
W9	21/10/2013	-	-	-	Dry
W9	20/11/2013	130	6.7	30	Dry
W9	19/12/2013	-	-	-	Dry
W10	21/01/2013	-	-	-	Dry
W10	21/02/2013	-	-	-	Dry
W10	21/03/2013	-	-	-	Dry
W10	22/04/2013	-	-	-	Dry
W10	24/05/2013	-	-	-	Dry
W10	24/06/2013	-	-	-	Dry
W10	24/07/2013	-	-	-	Dry
W10	22/08/2013	-	-	-	Dry
W10	19/09/2013	-	-	-	Dry
W10	21/10/2013	-	-	-	Dry
W10	20/11/2013	-	-	-	Dry
W10	19/12/2013	-	-	-	Dry

**Mount Pleasant  
Groundwater Monitoring Results 2013**

Sample Location	Sample Date	Depth to Ground (metres)	Depth to Standpipe (metres)	Electrical Conductivity (µS/cm)	pH	Comments
3500B500L	31/01/2013	62.61	63.03	5570	7.2	
3500B500L	2/05/2013	64.87	65.29	5570	7.6	
3500B500L	29/08/2013	66.40	66.82	5250	7.3	
3500B500L	27/11/2013	66.47	66.89	5470	7.3	
3500B500S	31/01/2013	18.09	18.61	2340	9.2	
3500B500S	2/05/2013	18.31	18.83	2040	9.4	
3500B500S	29/08/2013	18.21	18.73	2310	9.2	
3500B500S	27/11/2013	18.21	18.73	2060	9.9	
3500C500L	31/01/2013	52.22	52.50	4270	7.4	
3500C500L	2/05/2013	52.96	53.24	4140	7.4	
3500C500L	29/08/2013	53.33	53.61	3880	7.4	
3500C500L	27/11/2013	53.41	53.69	3900	7.5	
3500C500S	31/01/2013	24.11	24.39	777	7.3	
3500C500S	2/05/2013	23.57	23.85	3440	7.4	
3500C500S	29/08/2013	23.94	24.22	3940	7.2	
3500C500S	27/11/2013	23.95	24.23	726	7.2	
4500F000	31/01/2013	17.70	18.29	2630	6.7	
4500F000	1/05/2013	17.19	17.78	8850	6.9	
4500F000	29/08/2013	22.00	22.59	3650	6.7	
4500F000	28/11/2013	21.96	22.55	3640	6.7	
5000D000S	31/01/2013	81.43	81.66	569	7.0	
5000D000S	2/05/2013	81.40	81.63	554	7.1	
5000D000S	29/08/2013	45.89	46.12			collapsed
5000D000S	27/11/2013					Blocked at 49m
5500D000	31/01/2013	64.08	64.33	984	6.5	
5500D000	3/05/2013	63.98	64.23	1101	6.8	
5500D000	29/08/2013	64.05	64.30	1156	6.6	
5500D000	27/11/2013	63.97	64.22	1179	6.7	
6000C000L	31/01/2013					Dry
6000C000L	2/05/2013					Dry
6000C000L	30/08/2013	20.34	20.34			Bailed Dry
6000C000L	28/11/2013	20.34	20.34			Bailed Dry
6000C000S	31/01/2013	38.34	38.72	950	6.5	
6000C000S	2/05/2013	38.18	38.56	1027	6.3	
6000C000S	30/08/2013	38.28	38.66	1394	6.5	
6000C000S	28/11/2013	38.24	38.62	1283	6.4	
7500F000	31/01/2013	34.42	34.75	4130	7.0	
7500F000	1/05/2013	34.53	34.86	4070	7.1	
7500F000	30/08/2013	34.59	34.92	4270	7.0	
7500F000	28/11/2013	34.58	34.91	4110	7.0	
MPBH1 (Bore3)	31/01/2013	9.12	9.48	528	6.9	
MPBH1 (Bore3)	1/05/2013	9.59	9.95	531	7.2	
MPBH1 (Bore3)	30/08/2013	9.62	9.98	594	6.9	
MPBH1 (Bore3)	28/11/2013	9.41	9.77	623	7.0	
MPBH2	31/01/2013	11.86	12.29	830	7.1	

**Mount Pleasant  
Groundwater Monitoring Results 2013**

Sample Location	Sample Date	Depth to Ground (metres)	Depth to Standpipe (metres)	Electrical Conductivity (µS/cm)	pH	Comments
MPBH2	2/05/2013	11.67	12.10	828	7.0	
MPBH2	29/08/2013	11.75	12.18	839	6.9	
MPBH2	28/11/2013	11.83	12.26	854	7.0	
MPBH3 (Bore 2)	31/01/2013	11.83	12.16	3840	7.3	
MPBH3 (Bore 2)	2/05/2013	11.60	11.93	3880	7.1	
MPBH3 (Bore 2)	30/08/2013	12.08	12.41	4650	7.4	
MPBH3 (Bore 2)	28/11/2013	11.97	12.30	3400	7.3	
WRA1L	1/02/2013	2.37	2.72	3090	7.3	
WRA1L	3/05/2013	0.59	0.94	3120	7.4	
WRA1L	29/08/2013	1.67	2.02	2820	7.7	
WRA1L	27/11/2013	2.53	2.88	2970	7.6	
WRA1U	1/02/2013					Dry
WRA1U	3/05/2013					Dry
WRA1U	29/08/2013					Dry
WRA1U	27/11/2013					Dry
WRA2L	1/02/2013	9.81	10.38	5240	7.0	
WRA2L	7/05/2013	9.06	9.63	5250	7.3	
WRA2L	29/08/2013	12.72	13.29	4700	7.1	
WRA2L	27/11/2013	12.99	13.56	5290	7.1	
WRA2U	1/02/2013					Dry
WRA2U	7/05/2013					Dry
WRA2U	29/08/2013					Dry
WRA2U	27/11/2013	4.30	4.30	360	6.8	
WRA3L	1/02/2013	15.48	16.00	15390	6.5	
WRA3L	7/05/2013	14.56	15.08	16360	6.8	
WRA3L	29/08/2013	14.69	15.21	14230	6.7	
WRA3L	27/11/2013	15.07	15.59	15120	6.8	
WRA3U	1/02/2013	2.22	2.75	610	7.6	
WRA3U	7/05/2013	2.36	2.89	6210	7.3	
WRA3U	29/08/2013	2.90	3.43	2820	7.5	
WRA3U	27/11/2013	2.32	2.85	488	7.3	
WRA5L	1/02/2013	2.09	2.74	2370	7.8	
WRA5L	3/05/2013	-0.36	0.29	3880	7.5	
WRA5L	29/08/2013	0.97	1.62	2830	7.8	
WRA5L	27/11/2013	0.51	1.16	2860	7.6	
WRA5U	1/02/2013	2.22	2.34	2780	7.4	
WRA5U	3/05/2013	0.08	0.20	2230	7.5	
WRA5U	29/08/2013	1.18	1.30	2310	7.3	
WRA5U	27/11/2013	0.78	0.90	2490	7.3	
WRA6L	1/02/2013	1.08	1.61	5590	7.2	
WRA6L	3/05/2013	0.91	1.44	6030	7.3	
WRA6L	29/08/2013	0.97	1.50	5330	7.6	

**Mount Pleasant  
Groundwater Monitoring Results 2013**

Sample Location	Sample Date	Depth to Ground (metres)	Depth to Standpipe (metres)	Electrical Conductivity (µS/cm)	pH	Comments
WRA6L	27/11/2013	0.85	1.38	5510	7.2	
WRA6U	1/02/2013	0.84	1.24	10480	7.0	
WRA6U	3/05/2013	0.91	1.31	9000	7.1	
WRA6U	29/08/2013	1.03	1.43	9890	6.8	
WRA6U	27/11/2013	0.74	1.14	10470	6.9	

MOUNT PLEASANT PROJECT

**Coal & Allied Operations Pty Ltd**

ABN 16 000 023 656

Bridge Street, Muswellbrook

Telephone +61 2 6575 5800 Facsimile +61 2 6549 0555