

MOUNT PLEASANT PROJECT




| | |
|------------------------------------|---|
| Name of Mine | Mount Pleasant Open Cut Coal Project |
| Titles/Mining Leases | Mining Lease 1645 Authorisation 459 |
| MOP Commencement Date | MOP not yet prepared |
| AEMR Commencement Date | 1 January 2012 |
| AEMR Completion Date | 31 December 2012 |
| Name of Mining Lease Holder | Coal & Allied Operations Pty Ltd PO Box 315 Singleton NSW 2330 |
| Name of Operators | Coal & Allied Operations Pty Ltd PO Box 315 Singleton NSW 2330 |
| Reporting Officer Title | Mr Tim Kassulke General Manager – Health, Safety, Environment & Communities Rio Tinto Coal Australia |
| Signature |  |
| Date | 25.02.2013 |

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

Appendix 2 – Environmental Monitoring Results

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List of Acronyms

| | |
|-------------------------|--|
| °C | Degrees Celsius |
| μ | Microns |
| μS/cm | Micro Siemens per Centimetre |
| % | Percent |
| ACHMP | Aboriginal Cultural Heritage Management Plan |
| ADCC | Coal & Allied Aboriginal Development Consultative Committee |
| AEMR | Annual Environmental Management Report |
| AHIMS | Aboriginal Heritage Information Management System |
| ANZECC | Australian and New Zealand Environment and Conservation Council |
| AS | Australian Standard |
| CCC | Community Consultative Committee |
| CDF | Coal & Allied Community Development Fund |
| CHMS | Cultural Heritage Management System |
| CHWG | Cultural Heritage Working Group |
| CHZP | Cultural Heritage Zone Plan |
| DA | Development Application |
| dB | Decibels |
| DC | Development Consent |
| DSEWPC | Department of Sustainability, Environment, Water, Population and Communities |
| EA | Environmental Assessment |
| EC | Electrical Conductivity |
| ED1 | Environmental Dam 1 |
| EIS | Environmental Impact Statement |
| EPBC Act | Environment Protection and Biodiversity Conservation Act |
| ERM | Environmental Resource Management Australia |
| g/m ² /month | Grams per Metre Squared per Month |
| GDP | Ground Disturbance Permit |
| GIS | Geographic Information System |
| ha | Hectares |
| HMRI | Hunter Medical Research Institute |
| HVRF | Hunter Valley Research Foundation |
| Hz | Hertz |
| I&I NSW | NSW Department of Industry and Investment |
| INP | Industrial Noise Policy |
| LODB | Limit of Disturbance Boundary |
| mg/L | Milligrams per Litre |
| m/s | Metres per Second |
| ML | Mining Lease |

| | |
|---------|--|
| MLA | Mining Lease Application |
| MTP | Mount Pleasant Project |
| NAIDOC | National Aborigines and Islanders Day Observance Committee |
| NATA | National Association of Testing Authorities |
| NOW | NSW Office of Water |
| NPW Act | National Parks and Wildlife Act |
| NZS | New Zealand Standard |
| OEH | Office of Environment and Heritage |
| pH | Measure of the hydrogen ion concentration |
| RBL | Rating Background Level |
| ROM | Run of Mine |
| RMS | Root mean squared |
| RTCA | Rio Tinto Coal Australia |
| SWL | Standing Water Level |
| TSS | Total Suspended Solids |

1 Introduction

1.1 Scope

This Annual Environmental Management Report (AEMR) 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 2012 reporting period, 1 January 2012 to 31 December 2012.

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)

1.2 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.

1.3 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 | 08/04/2012 | 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 th May 2011 | | Application Pending |

The water licences held by Coal & Allied for MTP are detailed in Table 3

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 |

| Licence Number | Type of licence | Purpose | Legislation | Description | Date Licensed | Renewal Date |
|----------------|-----------------|-----------------|-----------------------|-----------------|---------------|--------------|
| 20BL168734 | Bore | Monitoring Bore | Part 5 Water Act 1927 | Bore: 3500E000M | 13/03/2003 | Perpetuity |
| 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 | Certificate | Water Management | Hunter River (Zone 1B) General Security Associated with 20CA201896* | Perpetuity | 420 | 0 |

| Licence Number | Type of licence | Purpose | Legislation | Description | Date Licensed | Approved Extraction (ML) | Actual Extraction 2012 (ML) |
|----------------|-----------------|----------|-------------|-------------|---------------|--------------------------|-----------------------------|
| | Licence | of Title | Act 2000 | | | | |

* Irrigation purposes only

1.4 Mount Pleasant Project Personnel 2012

The personnel responsible for mine planning and environmental management at MTP in 2012 were:

Table 4 – Mount Pleasant Project Personnel 2012

| Name | Position |
|-------------------|---|
| Antony Bijok | General Manager – Studies |
| Tod Claytor | General Manager - Operations |
| Mick Brown | Technical Services Manager – Mount Pleasant |
| Dion Lucke | Manager – Infrastructure and Support Services |
| Kirstin Macmillan | Environmental Specialist – Mount Pleasant |
| Elizabeth Yeo | Community Relations Specialist |
| Ian Webber | Superintendent Construction |

2 Environmental Management and Monitoring

This chapter provides a summary of environmental management and monitoring activities at MTP during the 2012.

2.1 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;
- 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;
- 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 2012. Figure 1 shows the location of all monitoring sites.

2.2 Meteorological Monitoring

Meteorological monitoring includes total monthly rainfall and cumulative rainfall for 2012, 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.

2.2.1 Rainfall

During the 2012 reporting period, approximately 518.8mm of rain was recorded at the MTP meteorological station over 109 days. The highest daily rainfall for 2012 was 37.6mm which fell on the 13th of July. Monthly rainfall distribution, number of wet days and cumulative rainfall is summarised in Table 5. Monthly rainfall records and cumulative rainfall (January 2012 - December 2012) are illustrated in Figure 2. A comparison of rainfall trends since 2009 are presented in Figure 3.

Table 5 - Rainfall Summary for MTP 2012

| | Jan | Feb | Mar | Apr | May | Jun | July | Aug | Sep | Oct | Nov | Dec |
|--------------------------------------|------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|-------|
| Monthly Rainfall 2012 (mm) | 62.4 | 97 | 63.4 | 26.4 | 14 | 37.6 | 67 | 7 | 23.8 | 7 | 55.6 | 57.6 |
| Cumulative Rainfall 2012 (mm) | 62.4 | 159.4 | 222.8 | 249.2 | 263.2 | 300.8 | 367.8 | 374.8 | 398.6 | 405.6 | 461.2 | 518.8 |
| Wet Days* | 15 | 12 | 14 | 4 | 5 | 17 | 12 | 3 | 5 | 3 | 9 | 10 |

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

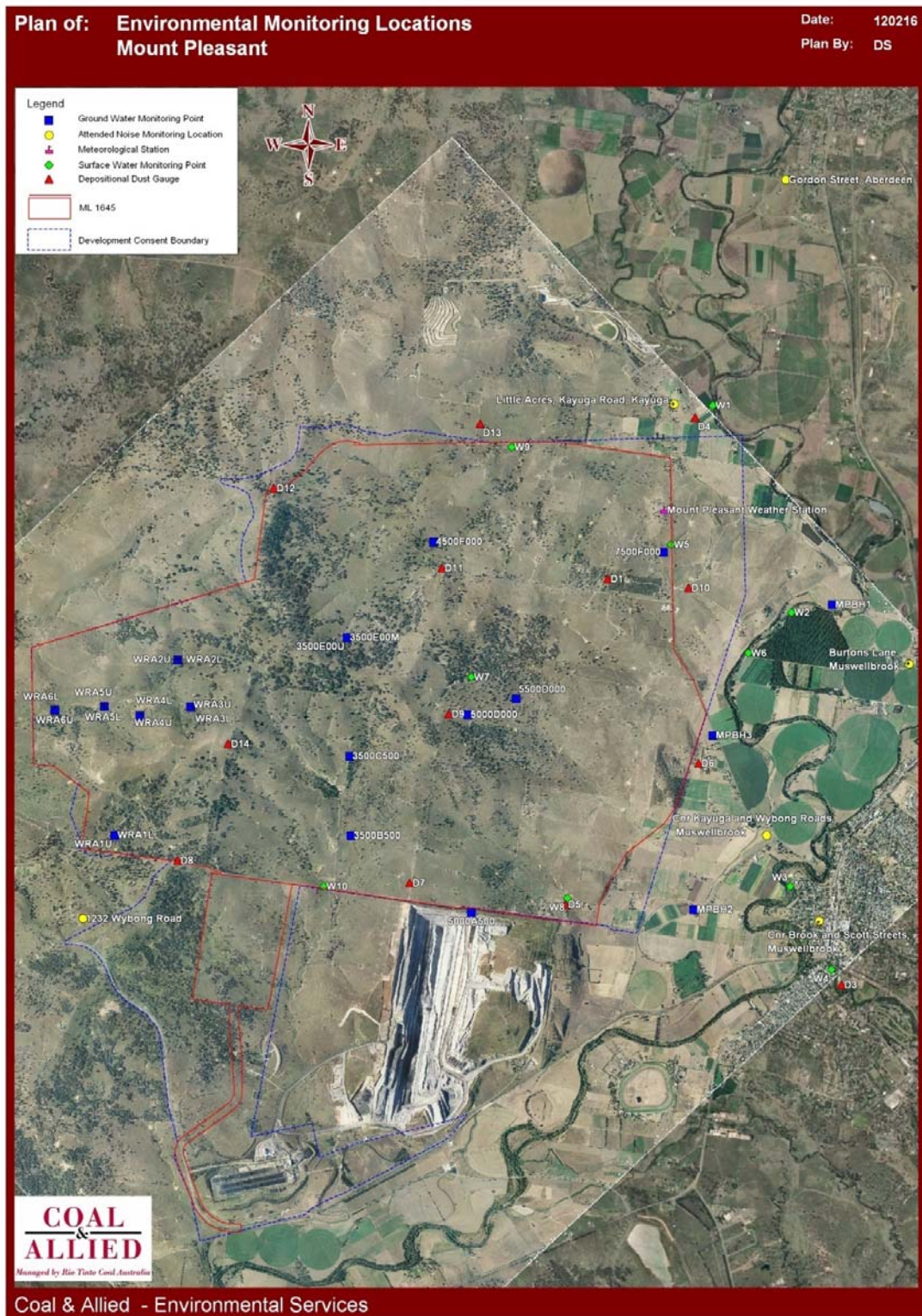


Figure 1 – Environmental Monitoring Locations

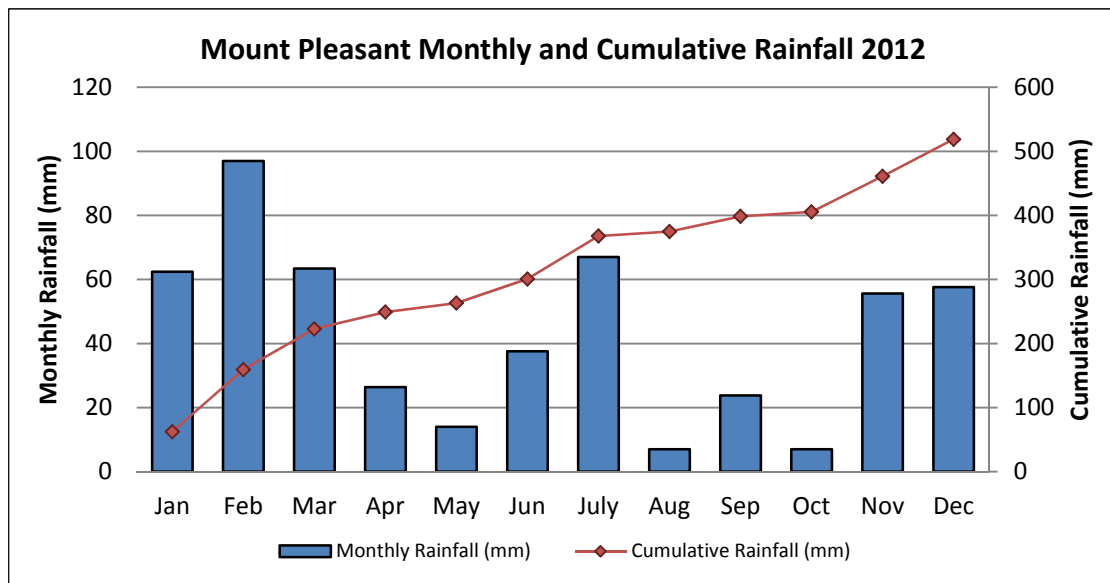


Figure 2 - Monthly and Cumulative Rainfall for 2012

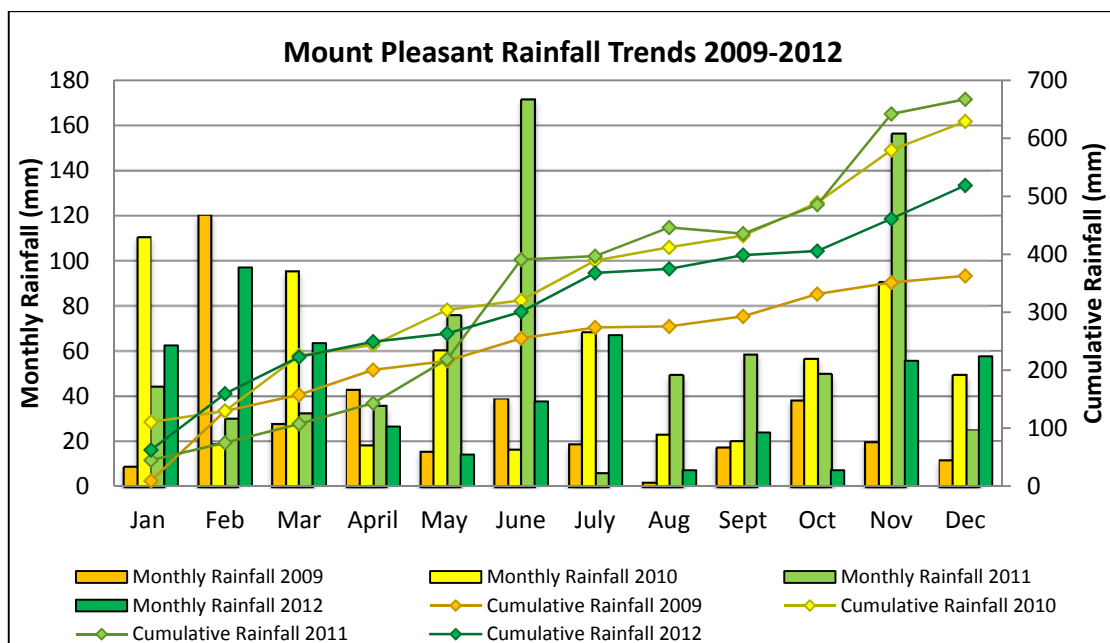


Figure 3 - Monthly and Cumulative Rainfall 2009-2012

2.2.2 Temperature

During 2012, the maximum temperature recorded at MTP Meteorological Station was 40.3°C (2nd December 2012). The minimum temperature recorded was -3.2°C (16th May 2012). Daily maximum and minimum temperatures at the MTP meteorological station during 2012 are illustrated in Figure 4, with temperature trends from 2007 to 2012 shown in Figure 5.

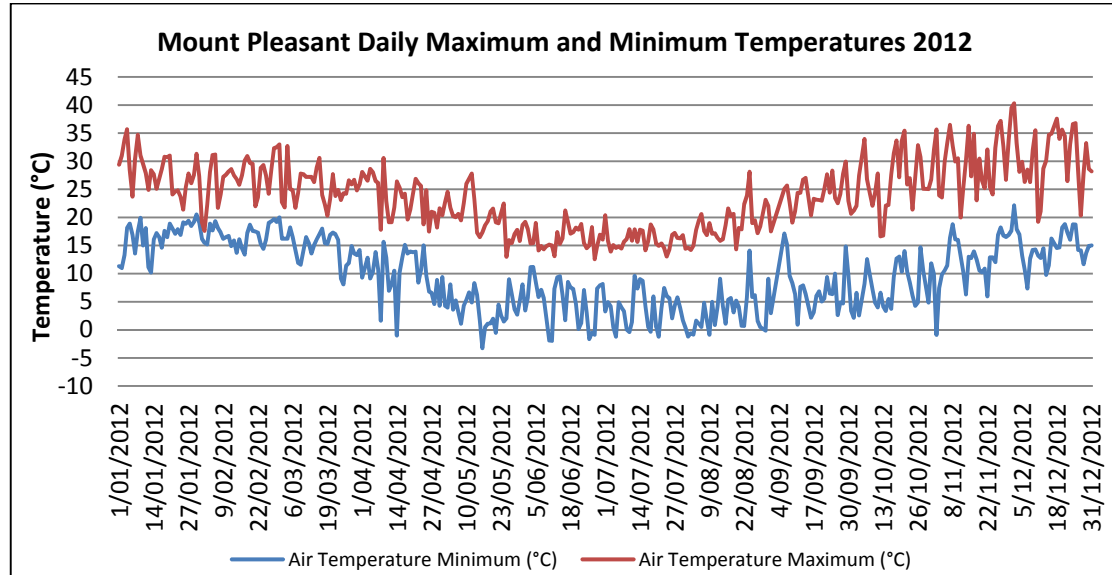


Figure 4 - Daily Maximum and Minimum Temperature 2012

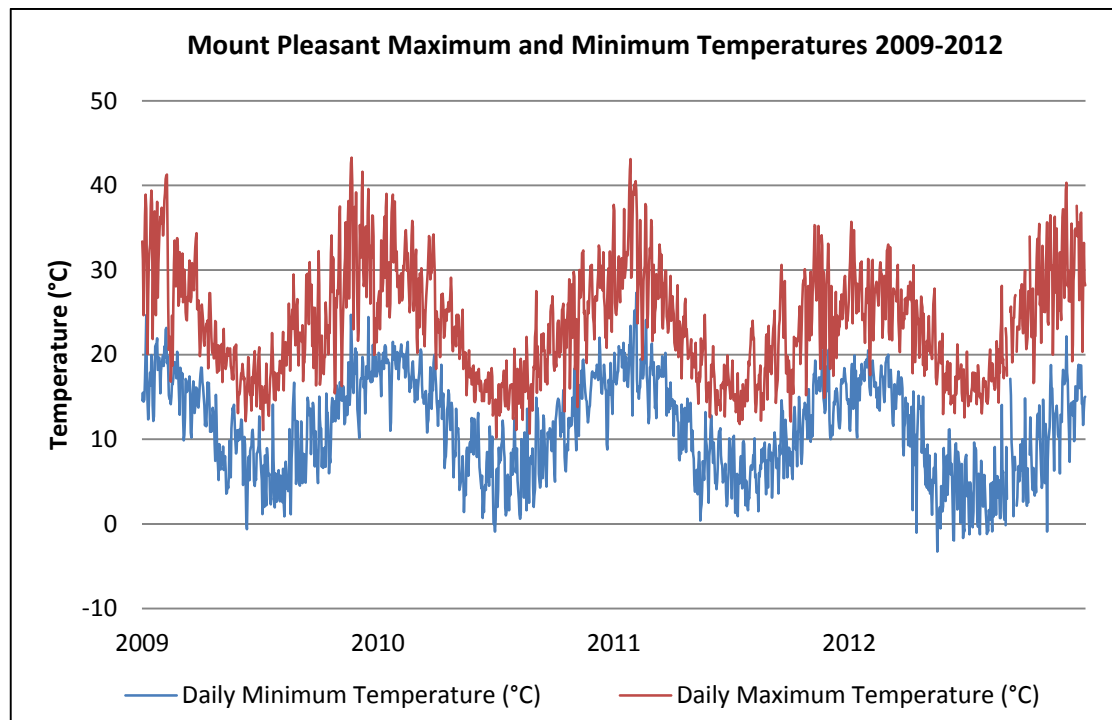


Figure 5 - Daily Maximum and Minimum Temperatures 2009-2012

Figure 5 shows that generally there have been no significant temperature fluctuations between annual cycles in the years 2007 to 2012. The summers of 2008/2009, 2009/2010 and 2010/2011 were warmer than the summer of 2007/2008, with a greater number of days above 35 degrees. The first half of the 2011/2012 summer shows similar conditions to the summer of 2007/2008, with relatively few days above 35 degrees. The 2012 winter was cooler than the preceding years, with a greater number of days below 2 degrees.

2.2.3 Wind Speed and Direction

During the 2012 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 2012 reporting period. Monthly wind roses are presented in **Appendix 2**.

The maximum wind speed recorded throughout 2012 was 25.0m/s on 8th of September 2012. The average maximum wind speed was 9.34m/s. Maximum wind velocities throughout 2012 are shown Figure 7.

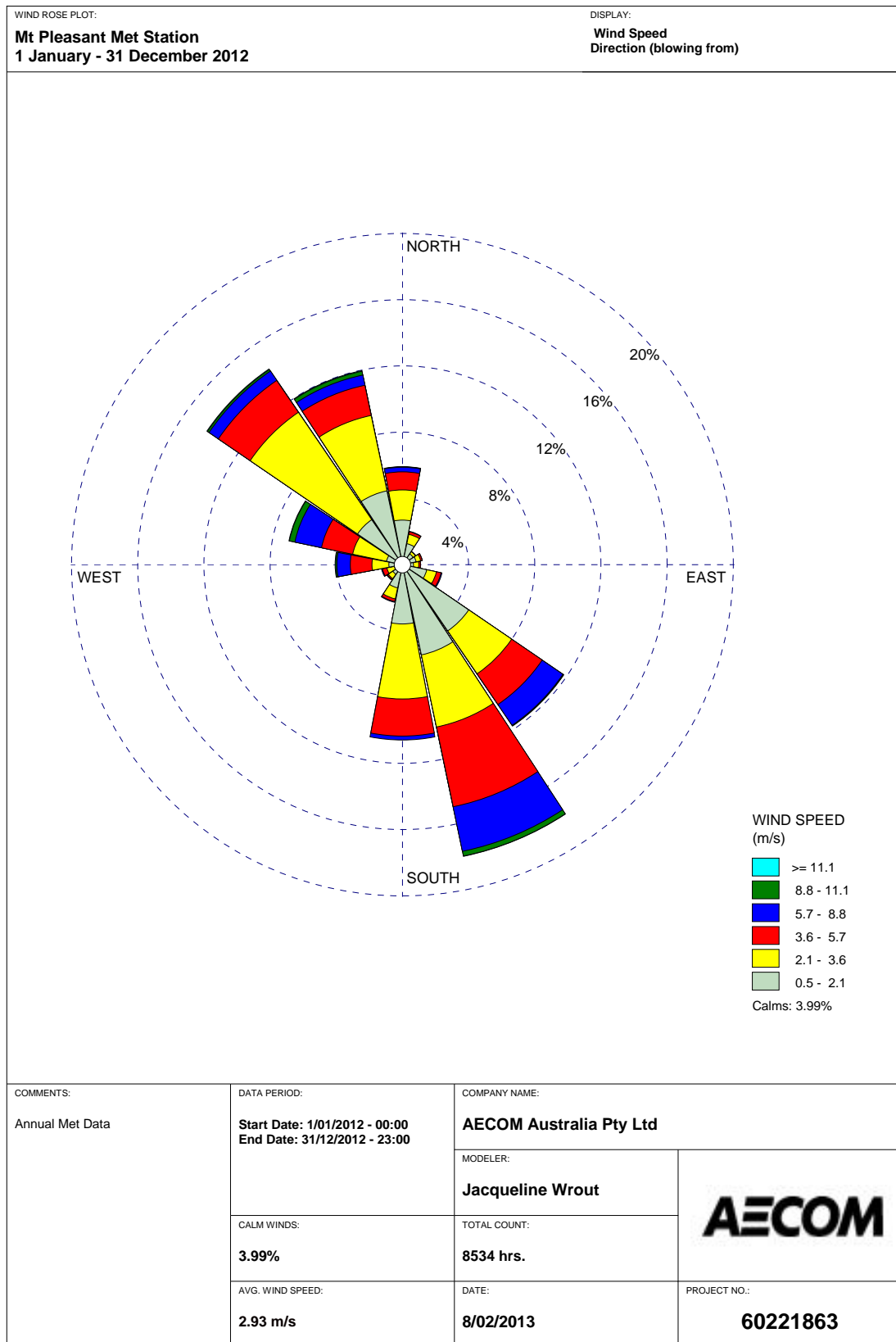


Figure 6 - Annual Windrose 2012 (wind direction as percentage of time)

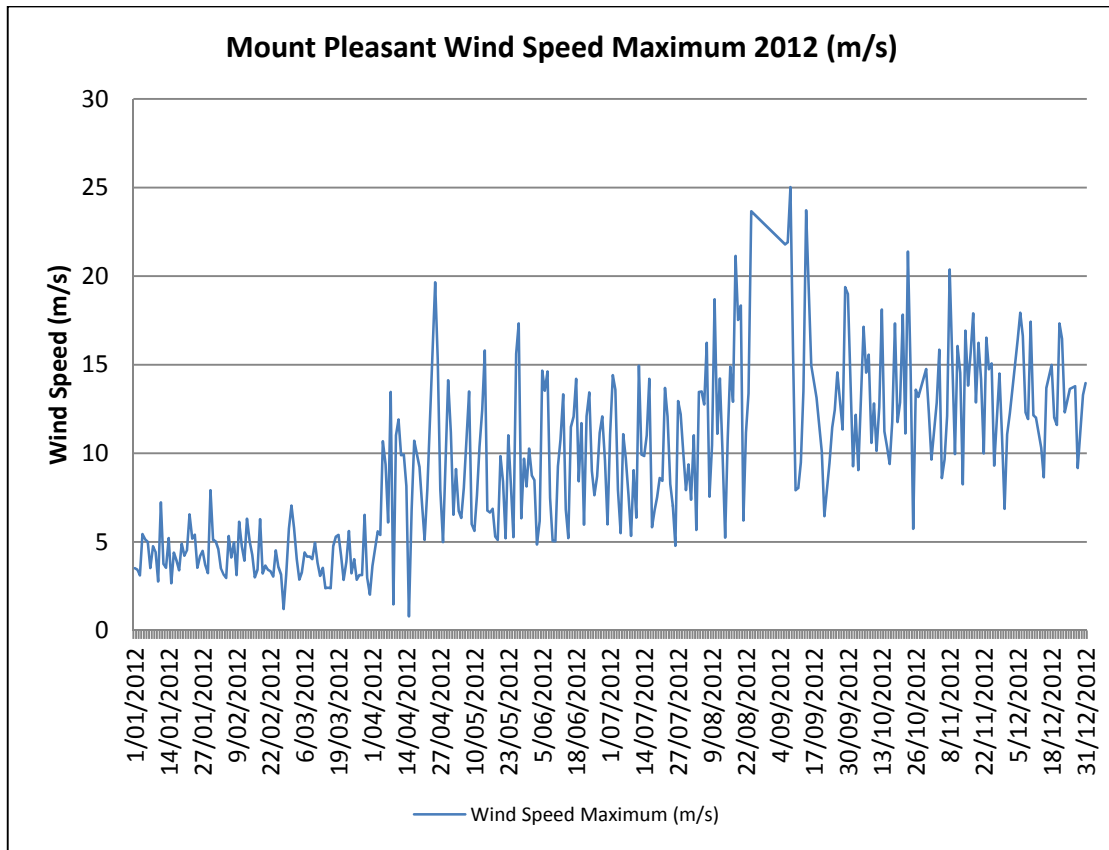


Figure 7 - Maximum Wind Speeds 2012

2.3 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. 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 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 2.2 g/m² per month in 2012, which is below the development consent long term criteria for deposited dust of 4g/m²/month.

Data collected in 2012 will be used to establish baseline air quality.

Data recovery (samples collected and analysed) for the 13 depositional dust gauges during 2012 was 100%. 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. Assessment of contamination was based on field observations, laboratory analysis, historical data and wind patterns. Samples can include organic material such as bird droppings, insects and vegetation. Insoluble solids may have been from a localised source such as livestock or farm activities. Selected elevated monthly results have been assessed to determine MTP contribution to each result, and assess the validity of including the high results in compliance assessment. As a result, a number of monthly results have been excluded from compliance assessment in 2012. A summary of contaminated gauges and results of independent compliance assessment is provided in Table 6.

Table 6 - Dust Deposition Contaminated Samples 2012

| Gauge Number | Month of | Insoluble Matter (g/m ² /month) | Comments | Review for compliance assessment |
|--------------|-----------|--|--|----------------------------------|
| D3 | September | 4.6 | Contaminated by insect and dust. | |
| | November | 4.0 | Contaminated with insects vegetation and bird droppings. | |

| | | | | |
|----|----------|------|---|--|
| D4 | October | 4.9 | Contaminated by insects | Analysis of the sample revealed a low ash to insoluble solids ratio of 31% suggesting a high level of contamination by organic matter. Therefore this result has been excluded from calculation of the annual rolling average. |
| D5 | April | 6.1 | Contaminated by insects, bird droppings and dust | Analysis of the sample revealed a low ash to insoluble solids ratio of 30% suggesting a high level of contamination by organic matter. Therefore this result has been excluded from calculation of the annual rolling average. |
| | November | 5.3 | Contaminated by insects and bird droppings | |
| | December | 11.6 | Contaminated by insects and bird droppings | Analysis of the sample revealed a low ash to insoluble solids ratio of 34% suggesting a high level of contamination by organic matter. Therefore this result has been excluded from calculation of the annual rolling average. |
| D6 | June | 6.1 | Contaminated by insects and bird droppings. | Analysis of the sample revealed a low ash to insoluble solids ratio of 30% suggesting a high level of contamination by organic matter. Therefore this result has been excluded from calculation of the annual rolling average. |
| | November | 4.5 | Contaminated by insects, bird droppings, plastic and vegetation | |
| D7 | January | 9.9 | Contaminated by insects and bird droppings | |
| | February | 23 | Contaminated insects and dust | |
| | March | 11.8 | Contaminated by insects and bird droppings. | |
| | April | 9.7 | Contaminated by insects, bird droppings and dust | |

| | | | | |
|----|-----------|------|--|--|
| | May | 13.7 | Contaminated by insects and dust. | |
| | June | 20.3 | Contaminated by insects and dust. | |
| | July | 7.1 | Contaminated by insects, bird droppings and dust | |
| | August | 10.6 | Contaminated by insects, bird droppings and vegetation | |
| | September | 10.6 | Contaminated by insects and dust | |
| | October | 15.4 | Contaminated by insects, bird droppings and dust | |
| | November | 10.9 | Contaminated by insects and bird droppings | |
| | December | 11.2 | Contaminated by insects and dust | |
| D8 | April | 6.2 | Contaminated by insects, bird droppings and dust. | Analysis of the sample revealed a low ash to insoluble solids ratio of 45% suggesting a high level of contamination by organic matter. Therefore this result has been excluded from calculation of the annual rolling average. |
| | June | 8.5 | Contaminated by insects and bird droppings | Analysis of the sample revealed a low ash to insoluble solids ratio of 35% suggesting a high level of contamination by organic matter. Therefore this result has been excluded from calculation of the annual rolling average. |
| | August | 4.6 | Contaminated by insects and bird droppings | |
| | September | 7.7 | Contaminated by insects bird droppings and dust. | Analysis of the sample revealed a low ash to insoluble solids ratio of 32% suggesting a high level of contamination by organic matter. Therefore this result has been excluded from calculation of the annual rolling average. |

| | | | | |
|-----|-----------|-----|---|--|
| | November | 4.4 | Contaminated by insects and dust | |
| D10 | January | 4.8 | Contaminated by insects and bird droppings. | Analysis of the sample revealed a low ash to insoluble solids ratio of 40% suggesting a high level of contamination by organic matter. Therefore this result has been excluded from calculation of the annual rolling average. |
| | July | 9.2 | Contaminated by insects, vegetation and bird droppings. | Analysis of the sample revealed a low ash to insoluble solids ratio of 26% suggesting a high level of contamination by organic matter. Therefore this result has been excluded from calculation of the annual rolling average. |
| | August | 6.0 | Contaminated by insects, vegetation and bird droppings. | Analysis of the sample revealed a low ash to insoluble solids ratio of 43% suggesting a high level of contamination by organic matter. Therefore this result has been excluded from calculation of the annual rolling average. |
| | September | 8.5 | Contaminated by insects, bird droppings and dust. | Analysis of the sample revealed a low ash to insoluble solids ratio of 21% suggesting a high level of contamination by organic matter. Therefore this result has been excluded from calculation of the annual rolling average. |
| | October | 4.0 | Contaminated by insects and bird droppings | Analysis of the sample revealed a low ash to insoluble solids ratio of 43% suggesting a high level of contamination by organic matter. Therefore this result has been excluded from calculation of the annual rolling average. |
| | November | 6.9 | Contaminated by insects and bird droppings | Analysis of the sample revealed a low ash to insoluble solids ratio of 23% suggesting a high level of contamination by organic matter. Therefore this result has been excluded from calculation of the annual rolling average. |

| | | | | |
|-----|----------|-----|---|--|
| | December | 8.8 | Contaminated with insects, bird droppings and vegetation. | Analysis of the sample revealed a low ash to insoluble solids ratio of 22% suggesting a high level of contamination by organic matter. Therefore this result has been excluded from calculation of the annual rolling average. |
| D12 | June | 5.0 | Contaminated with insects and vegetation. | Analysis of the sample revealed a low ash to insoluble solids ratio of 20% suggesting a high level of contamination by organic matter. Therefore this result has been excluded from calculation of the annual rolling average. |
| D13 | November | 4.3 | Contaminated with insects and bird droppings. | Analysis of the sample revealed a low ash to insoluble solids ratio of 35% suggesting a high level of contamination by organic matter. Therefore this result has been excluded from calculation of the annual rolling average. |

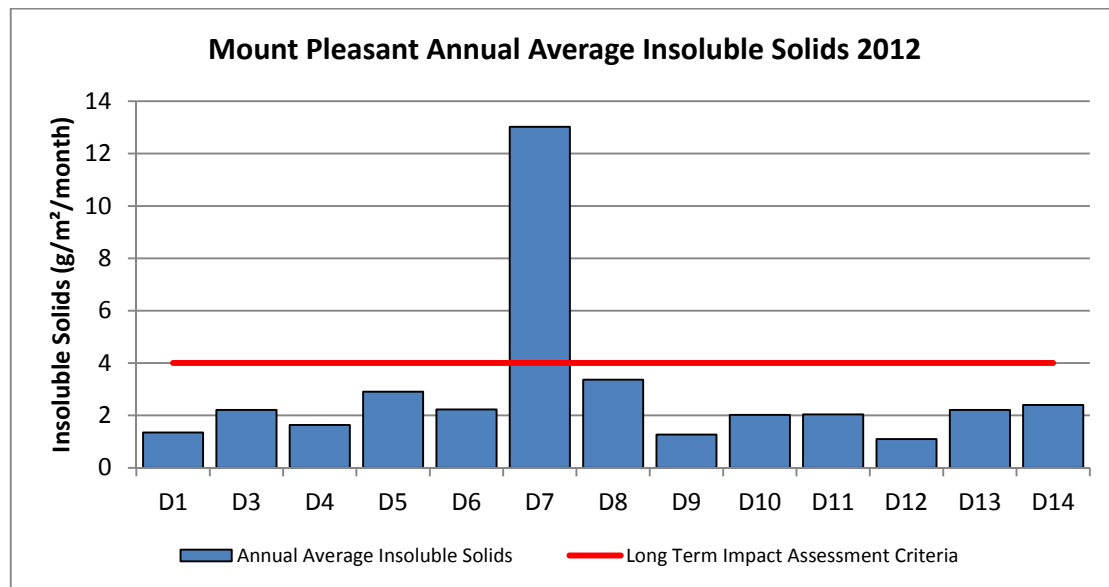


Figure 8 - Annual Average Insoluble Solids 2012

Figure 8 shows 12 of the 13 sites measured deposited dust below the annual impact assessment criteria. Site D7 recorded results above the long term impact assessment criteria, with an annual average of 13.0 g/m² 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. The results from this station over the past four years confirm the modelling undertaken for mining and are not representative of the depositional dust levels received at non-mine owned residences.

Figure 9 provides a comparison between annual average dust deposition levels at each of the monitoring sites from 2003 to 2012. Dust gauge D7, as predicted, has exceeded the long term criteria in all years.

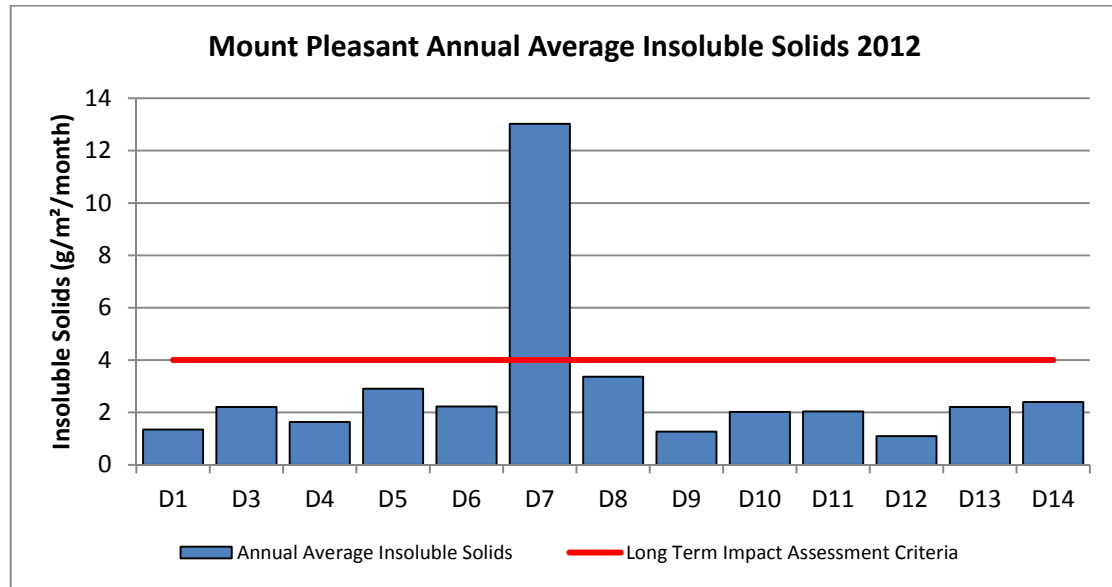


Figure 8 - Annual Average Insoluble Solids 2012

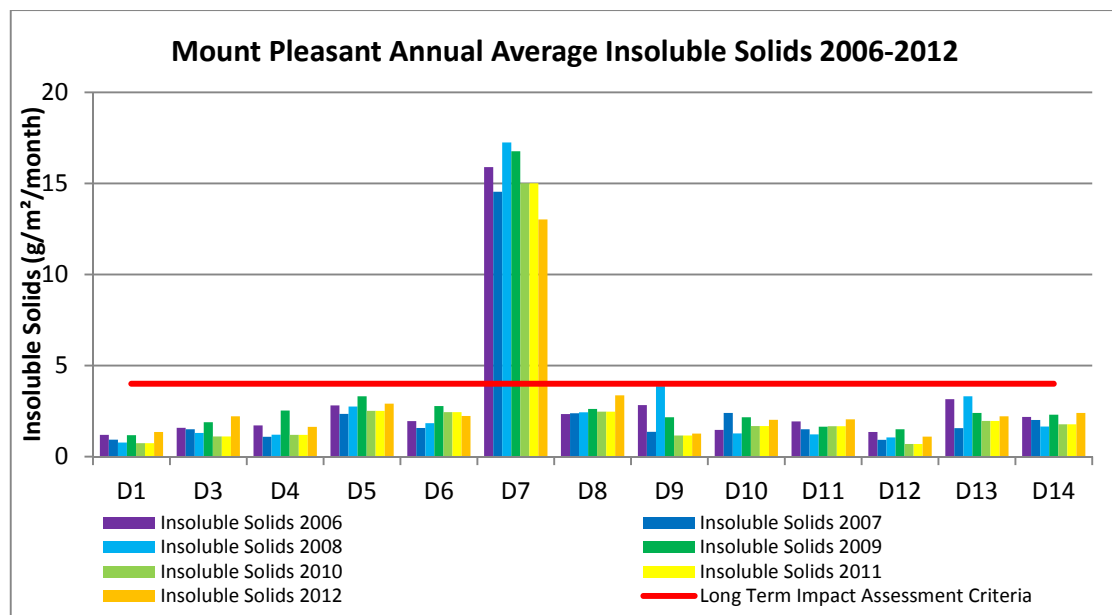


Figure 9 - Annual Average Insoluble Solids 2006 – 2012

Figure 10 shows that two of the 13 sites registered a decrease in insoluble solids from the previous year. While eleven sites registered an increase in insoluble solids, all monitoring sites were below the maximum allowable annual average increase criteria of 2 g/m²/month.

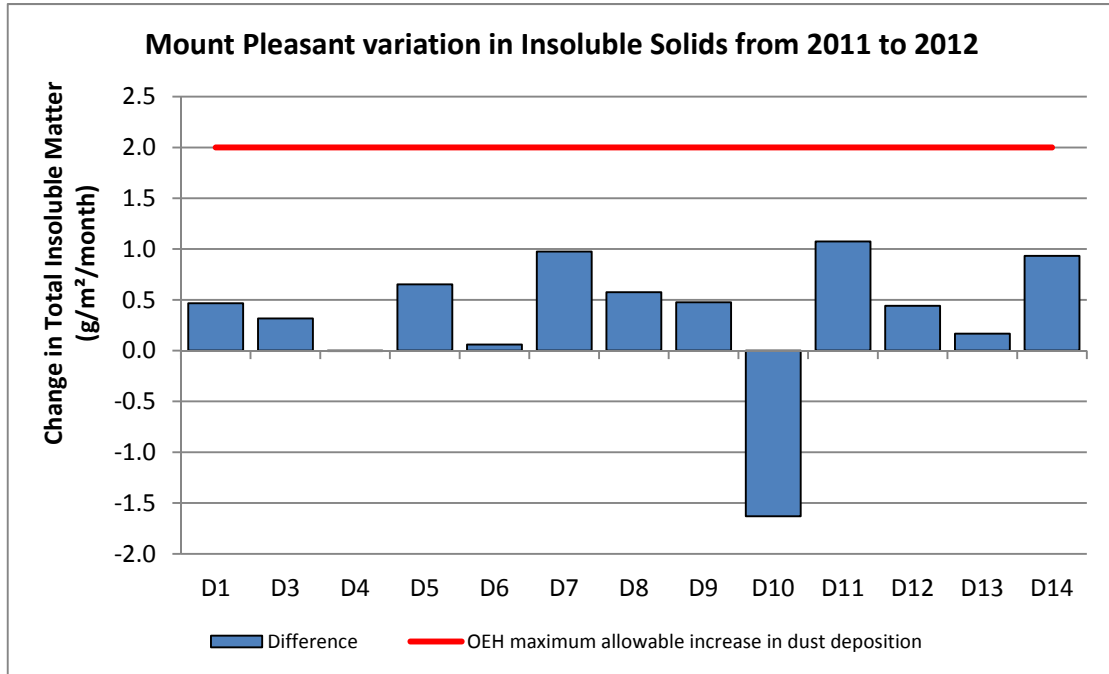


Figure 10 – Variation in Annual Average Insoluble Solids from 2011 to 2012

2.4 Surface Water Monitoring

There are 10 surface water monitoring sites located in the natural watercourses surrounding MTP (Figure). 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 in 2012 can be found in **Appendix 2**.

Water quality is evaluated through the parameters of pH, electrical conductivity and Total Suspended Solids (TSS). Table 7 shows water quality criteria for watercourses as outlined in the ANZECC Guidelines (2000) NSW Lowland Rivers.

Table 7 - Surface water quality criteria

| Parameter | Lower Limit | Upper Limit |
|-------------------------|----------------|------------------|
| pH | 6.5 | 8.5 |
| Electrical Conductivity | 125 μ S/cm | 2,200 μ S/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 points 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 . 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.

2.4.1 pH Levels

The pH of surface water ranged from 6.9 to 8.5 in 2012, as seen in Figure 11. The low monthly rainfall may have contributed to the raised pH levels recorded at W2

and W8 as shown in Figure 11. The calculated average pH for MTP in 2012 was 7.9 pH units. The average pH remained the same as 2010 and 2011.

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.

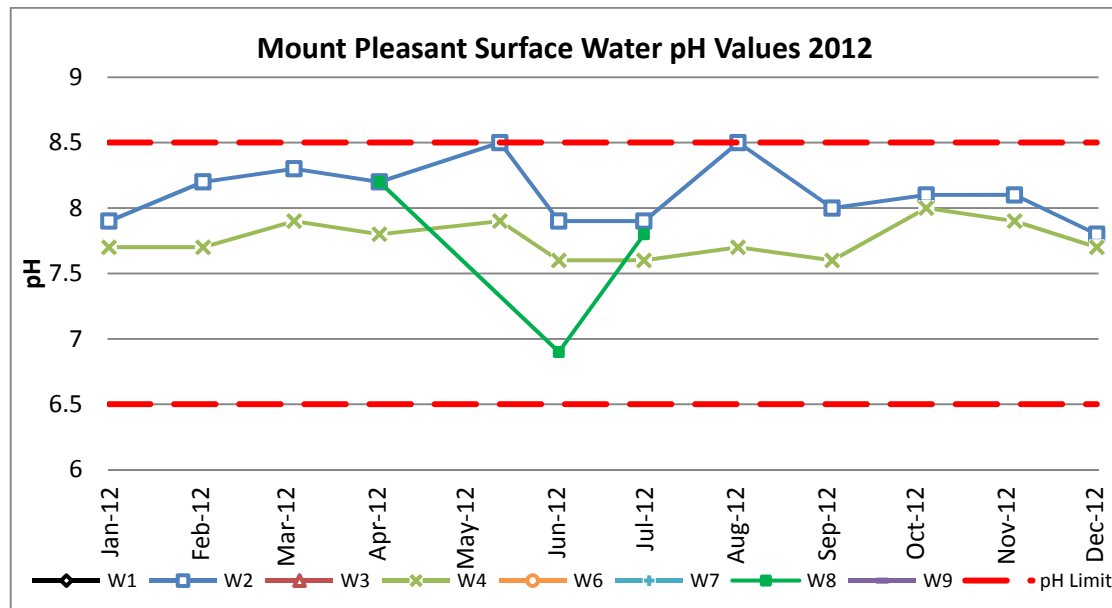


Figure 11 - Surface Water pH 2012

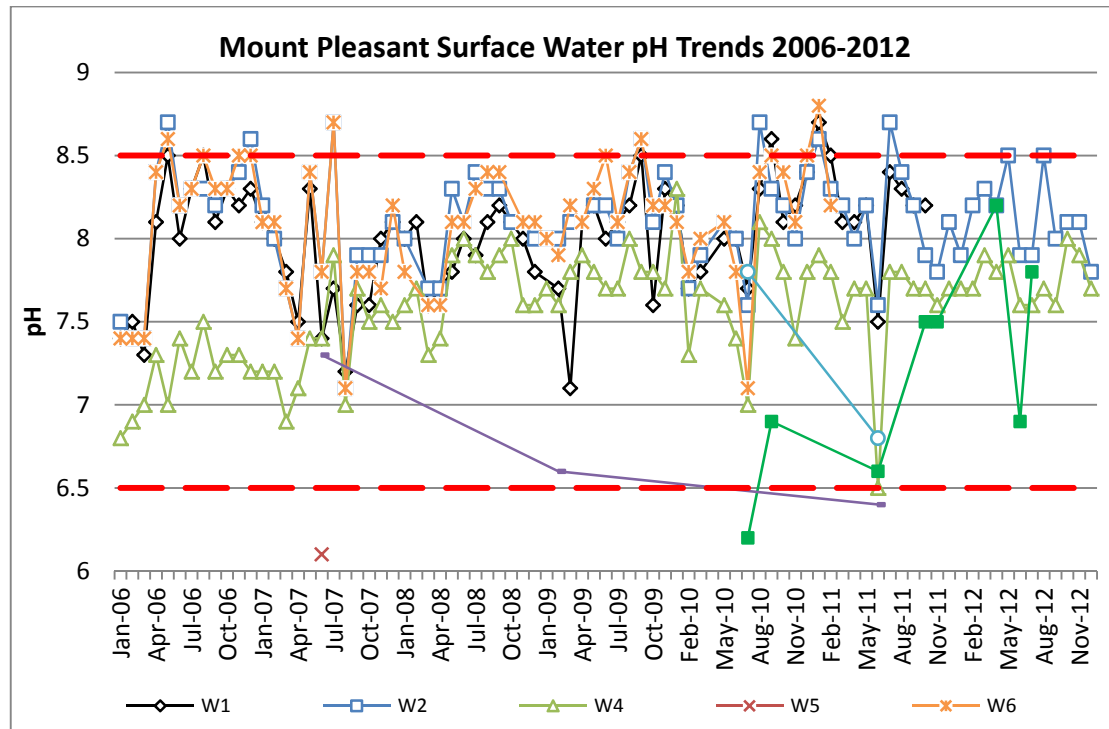


Figure 12 - Surface Water pH Trends 2006-2012

2.4.2 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 338 to 588 $\mu\text{S}/\text{cm}$. Figure 13 shows site W4 (Muscle Creek) registered significantly higher EC values (highest of 3040 $\mu\text{S}/\text{cm}$ in November) 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.

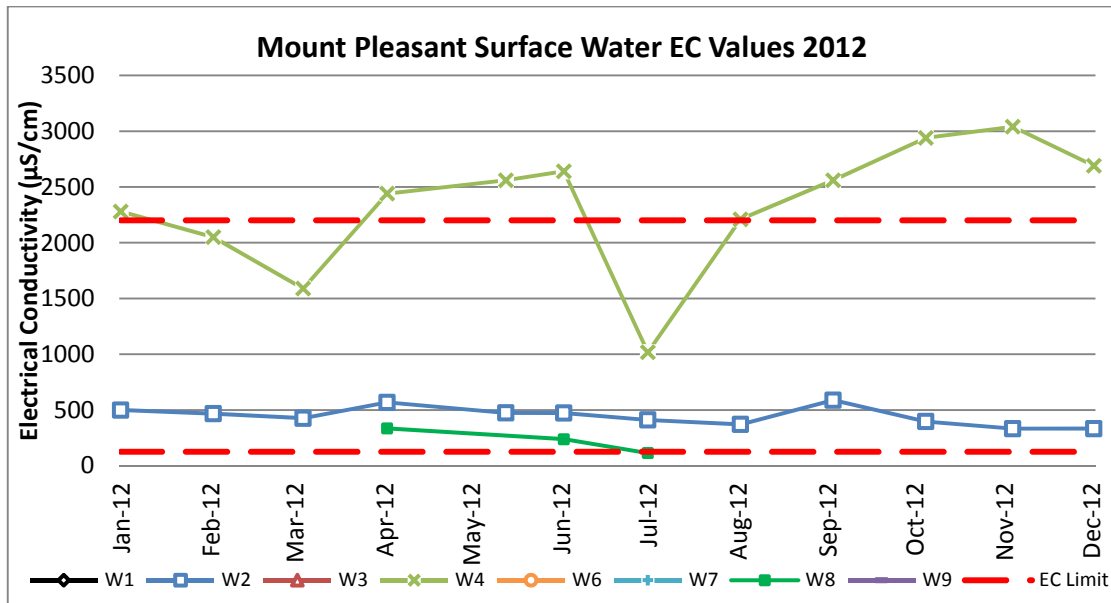


Figure 13 - Surface Water Electrical Conductivity 2012

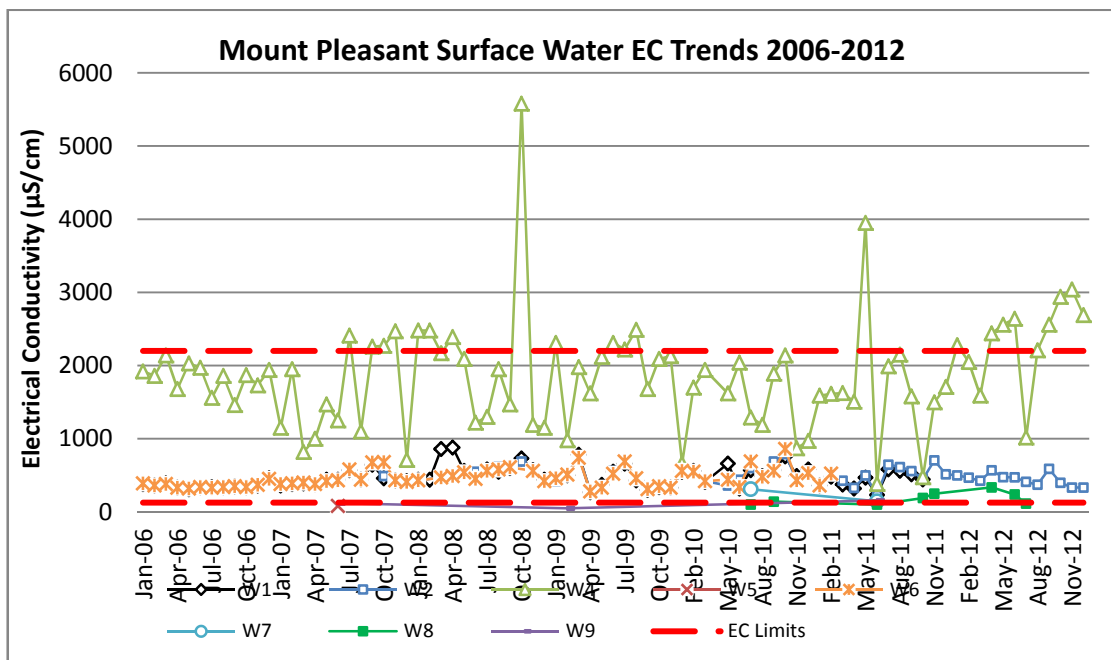


Figure 14 - Surface Water Electrical Conductivity Trends 2006 – 2012

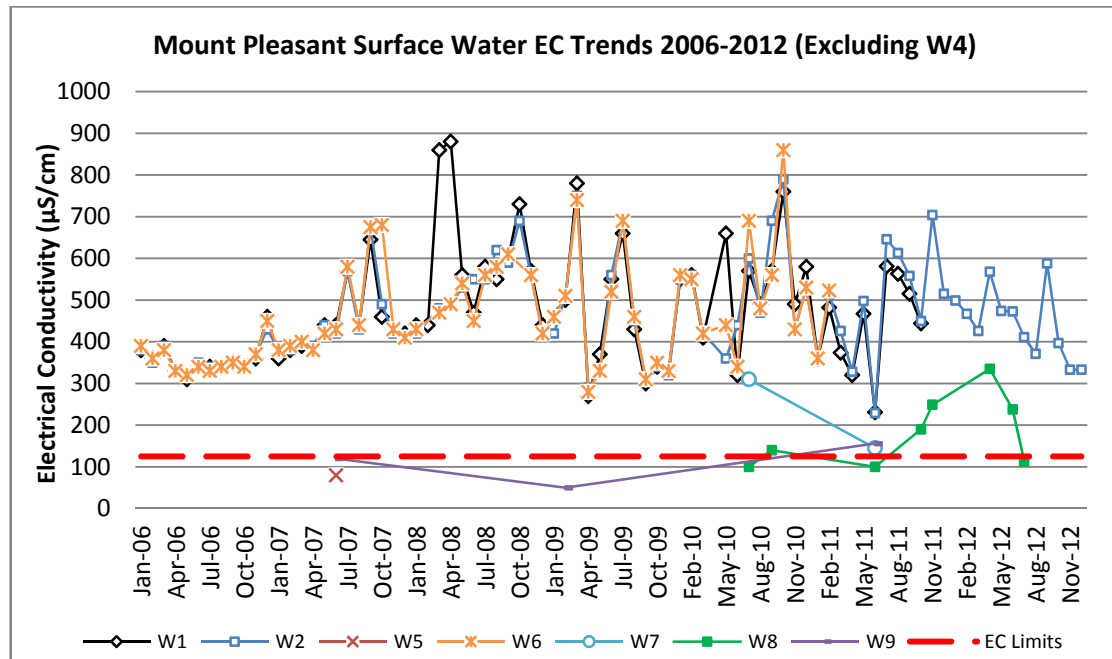


Figure 15 - Surface Water Electrical Conductivity Trends (excluding W4) 2006 – 2012

2.4.3 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, such as in late 2008 or early 2009.

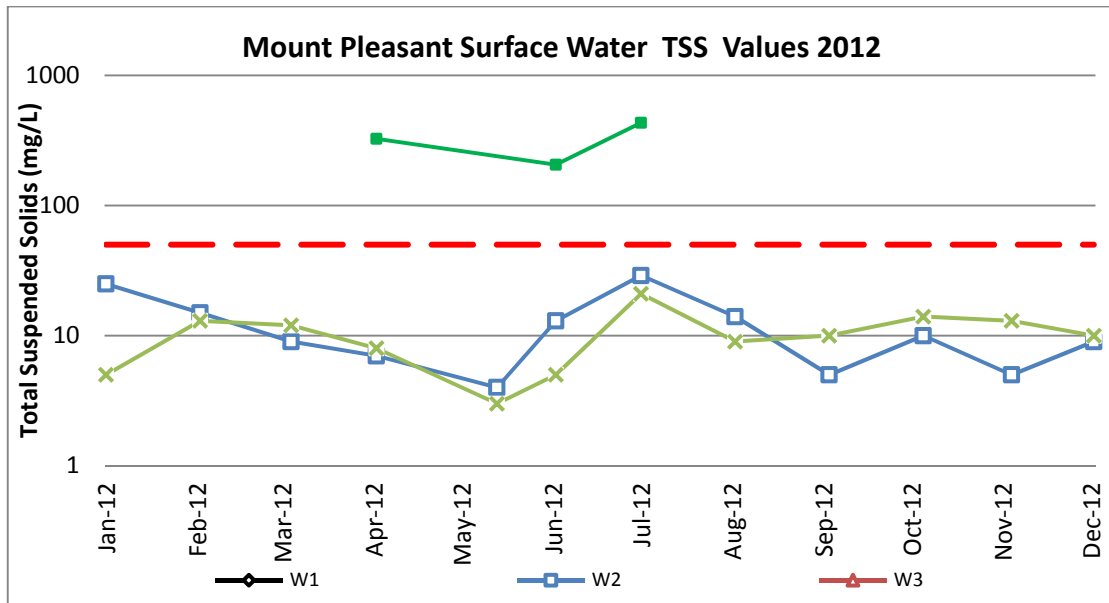


Figure 16 - Surface Water Total Suspended Solids 2012

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

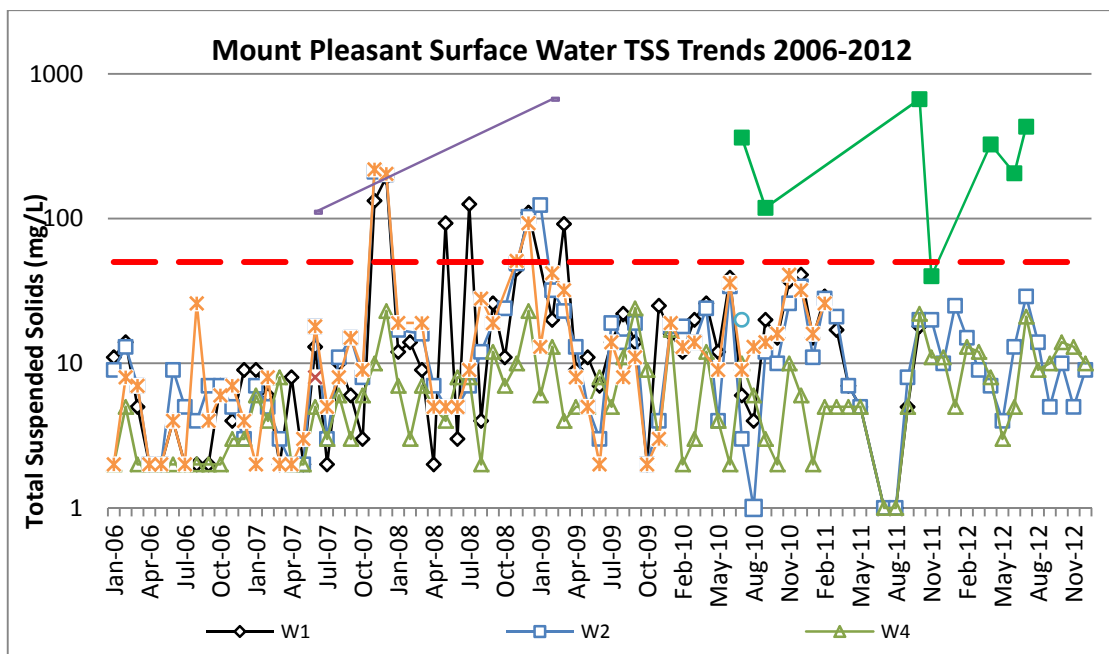


Figure 17 - Surface Water Total Suspended Solids Trends 2006– 2012

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

2.5 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 . 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).

2.5.1 Standing Water Levels

In 2012, SWL's remained relatively stable across all bore sites (Figure 18, Figure 19 and Figure 20), with the exception of a significant rise in standing water level at Central bore (Figure 18) 4500F000 during August and November 2012. The reason for the isolated increase is unknown, standing water level trends at this location will continue to be monitored in 2013.

Figure 19 shows that at the central and eastern groundwater bores, SWL's have remained relatively constant over the period 2006 – 2012.

Figure 20 illustrates a greater fluctuation at the western bores from 2006-2012. 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.

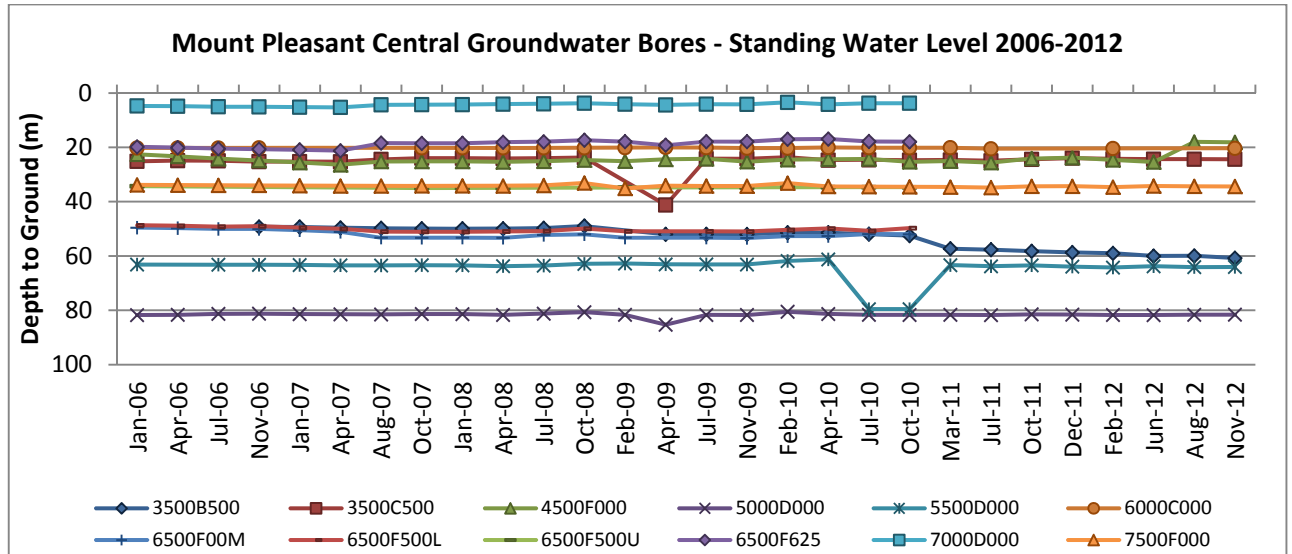


Figure 18 – Central Groundwater Boreholes Standing Water Levels 2006 – 2012

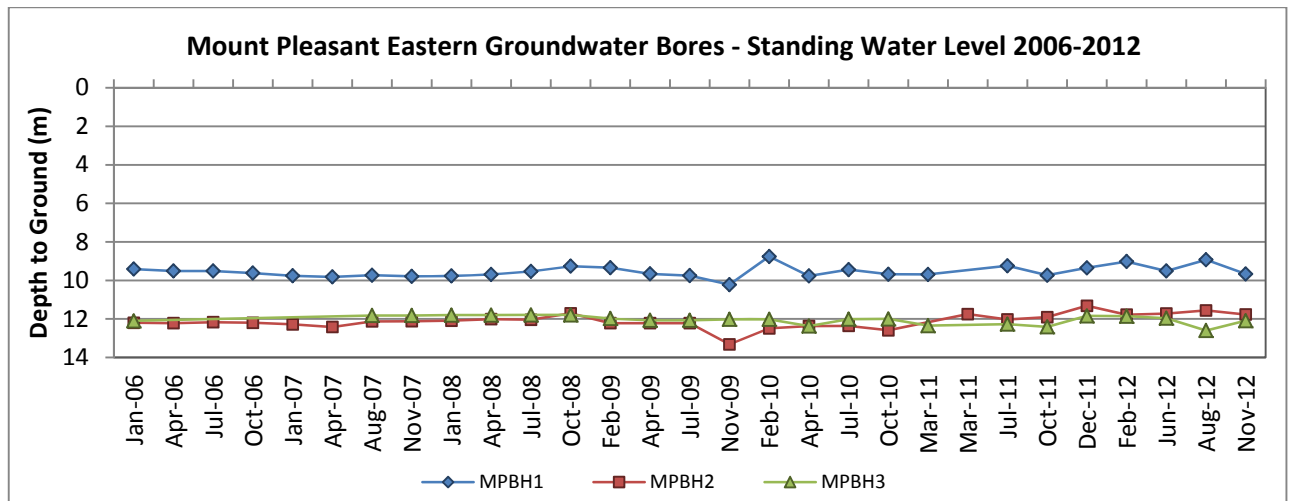


Figure 19 – Eastern Groundwater Boreholes Standing Water Levels 2006 – 2012

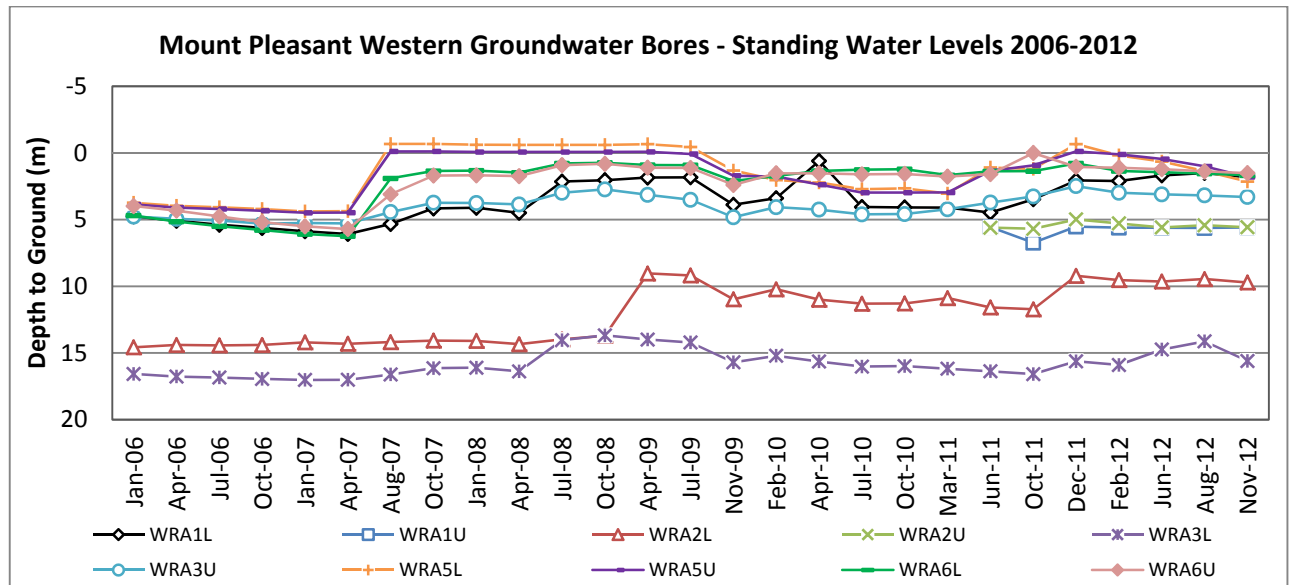


Figure 20 - Western Groundwater Boreholes Standing Water Levels 2006 – 2012

2.5.2 pH Levels

The pH levels for MTP central groundwater bore sites ranged from 6.5 to 7.6 pH units and were relatively stable throughout 2012 as seen in Figure 21. 3500C500 and 5000D000 both registered a variation greater than 0.5 over the course of 2012, with 3500C500 varying from a pH of 7.7 to 7.2, and 5000D000 varying from a pH of 6.7 to 7.3. There were no results for sites 6500F500U, 6000C000, 7000D000, 6500F00M, 6500F625 or 6500F500L as these bores were dry on all sampling dates in 2012. 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, as illustrated Figure 21.

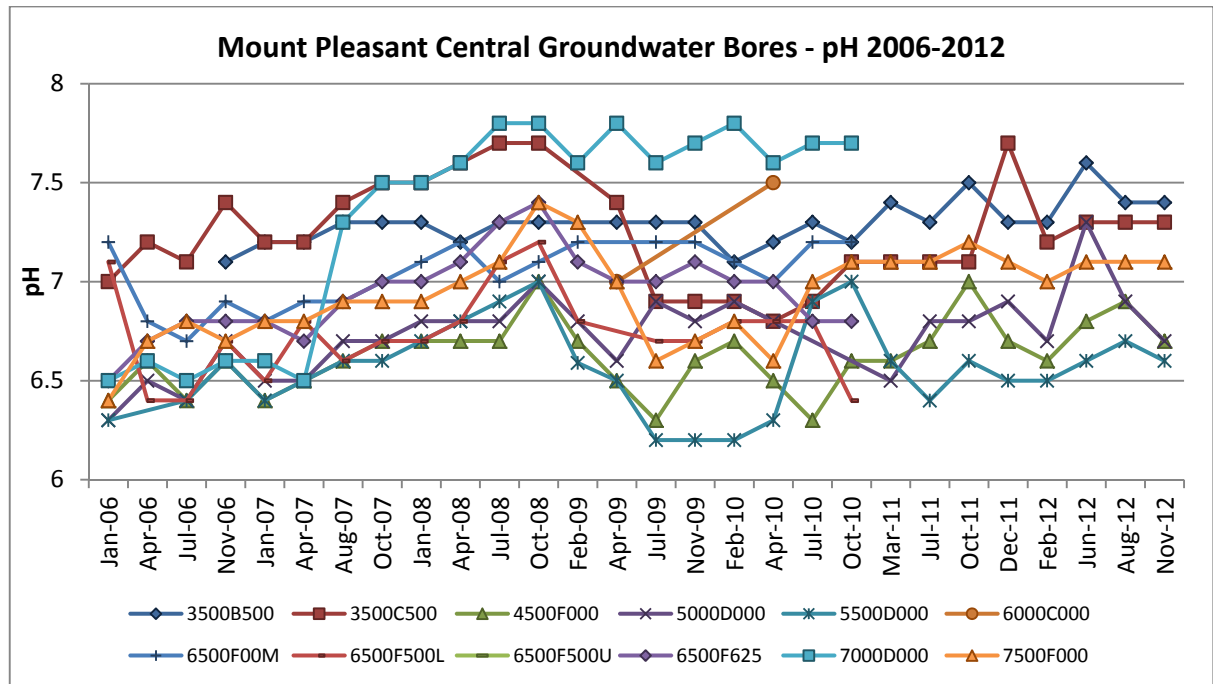


Figure 21 – Central Groundwater Boreholes pH Levels 2006 – 2012

The pH at the MTP eastern groundwater bores ranged from 6.8 to 7.8 pH units in 2012. 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 2012. None of the eastern groundwater bores registered a variation greater than 0.5 over the course of 2012. This figure also shows the eastern groundwater bores have experienced frequent fluctuations in pH between 2006 and 2012, but have stayed in the 6.0 to 8.0 range.

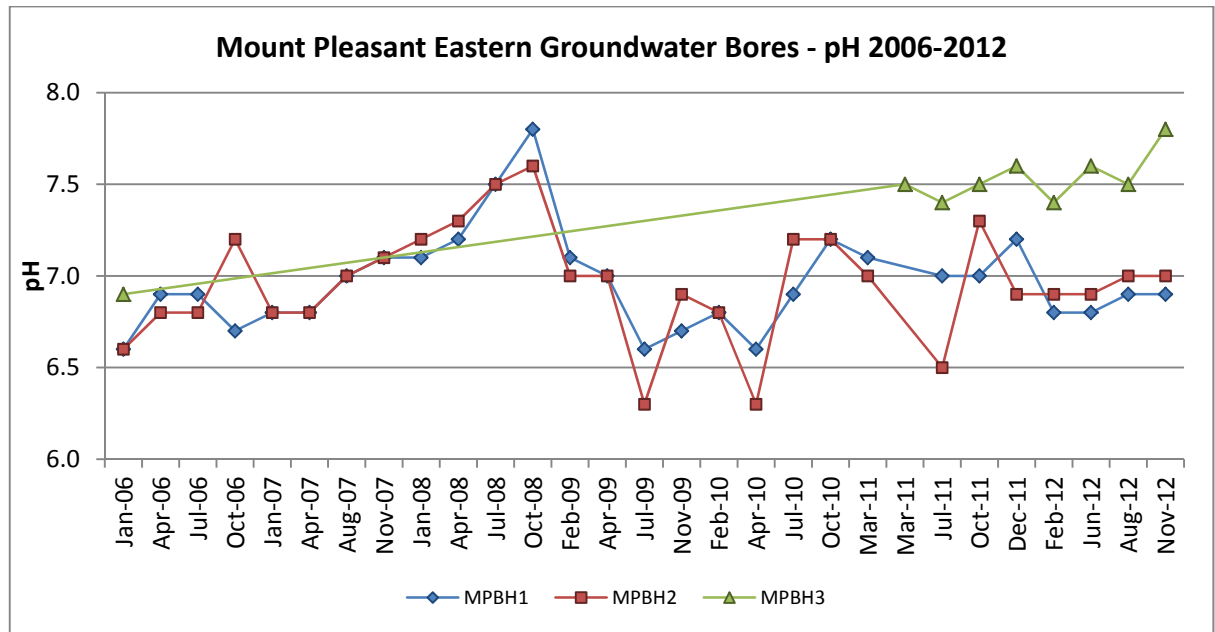


Figure 22 – Eastern Groundwater Boreholes pH Levels 2006 – 2012

The pH levels for MTP western groundwater bores registered pH levels between 6.5 and 8.2 pH units as seen in Figure 23. WRA2L, WRA5L, WRA5U and WRA6L recorded a fluctuation of more than 0.5 pH units over the course of the year, where the pH for WRA2L decreased from 8.0 to 7.1 to 7.8, the pH for WRA5L decreased from 8.2 to 7.1 to 7.9, the pH of WRA5U decreased from 7.8 to 7.3 and the pH of WRA6L increased from 7.0 to 7.7. Results for WRA1U and WRA2U are absent as both bores were dry on all sampling dates in 2012. This figure also indicates that pH levels at the western bore sites have experienced frequent fluctuations in pH between 2006 and 2012, but have generally remained within the 6.5 to 8.0 range.

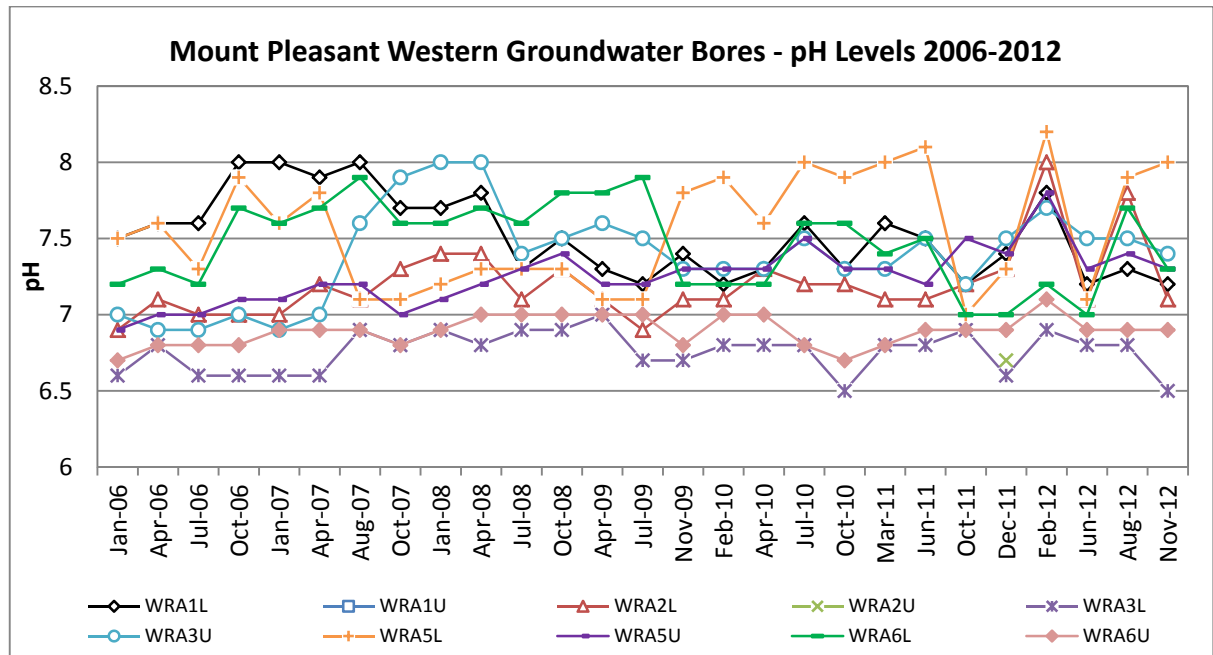


Figure 23 – Western Groundwater Boreholes pH Levels 2006 – 2012

2.5.3 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 2450 μ S/cm to 4060 μ S/cm between February and June monitoring events, while 4500F000 increased from 2110 μ S/cm to 9650 μ S/cm to 2470 μ S/cm between February to August monitoring events. This result is not in keeping with historical records for the site, and is potentially anomalous. Electrical Conductivity levels will continue to be monitored throughout 2013 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 2012. Central bores 3500C500, 6500F625 and 7000D000 have experienced substantial variations in EC since 2005, as seen Figure 24. 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.

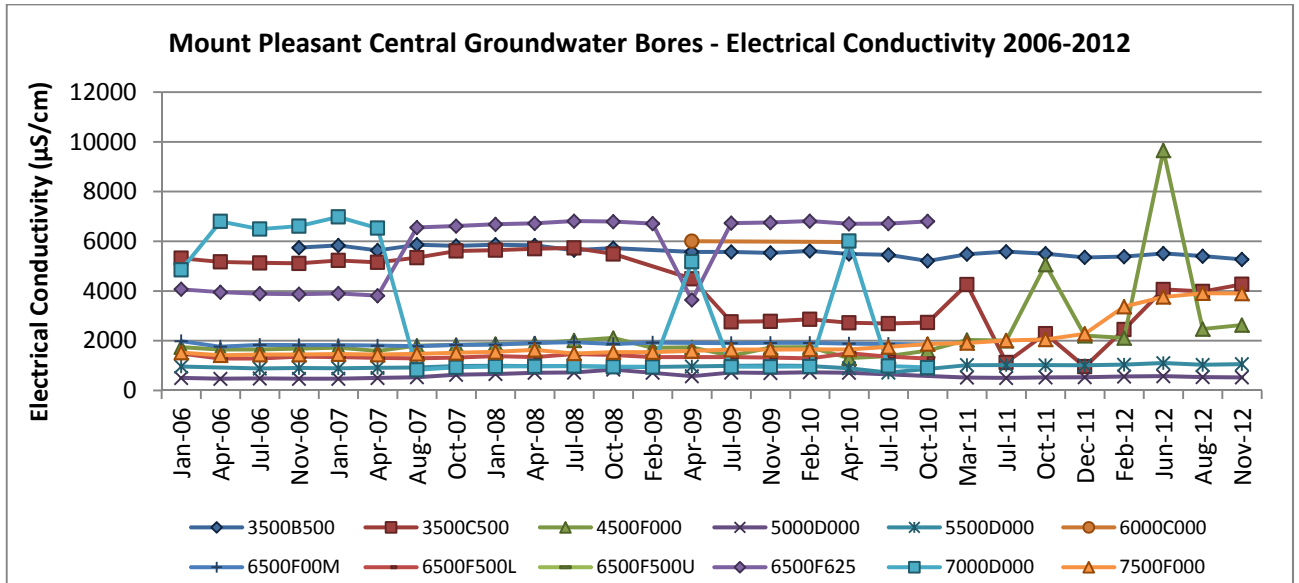


Figure 24 - Central Groundwater Boreholes Electrical Conductivity 2006 – 2012

In the eastern groundwater bores, EC levels remained fairly constant throughout 2012 with the exception of MPBH3, as indicated in Figure 25. Longer term trends reveal only minor fluctuations in the EC at the eastern boreholes. MPBH3 has historically been dry accounting for the scarcity of EC results at this site. However, results were available from 2011 to 2012 and show EC levels between 3130µS/cm and 4690µS/cm, which is noticeably higher than the EC levels at MPBH1 and MPBH2.

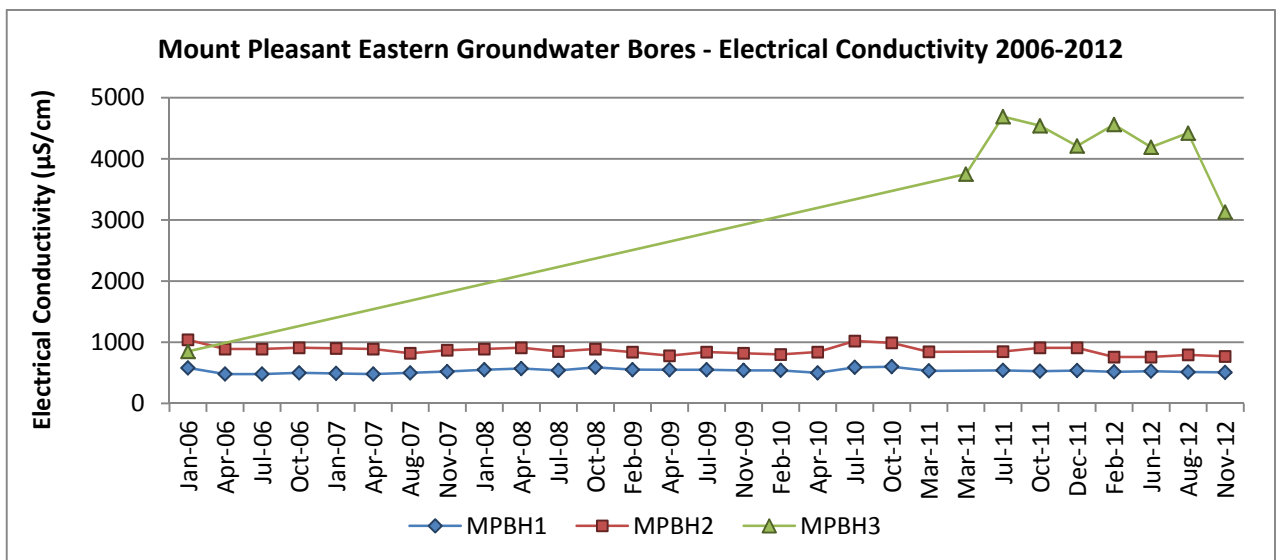


Figure 25 – Eastern Groundwater Boreholes Electrical Conductivity 2006 – 2012

In 2012, the EC level at the majority of the western groundwater bores remained reasonably constant as shown in Figure 26. WRA2L and WRA6U showed a slight increase in EC levels throughout the year. WRA2L increased from 2230 μ S/cm to 5370 μ S/cm to 3060 μ S/cm between February to August 2012. 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 3000 μ S/cm between 2006 and 2012. These trends show that variations of greater than 2000 μ S/cm occur commonly at the western groundwater bore sites.

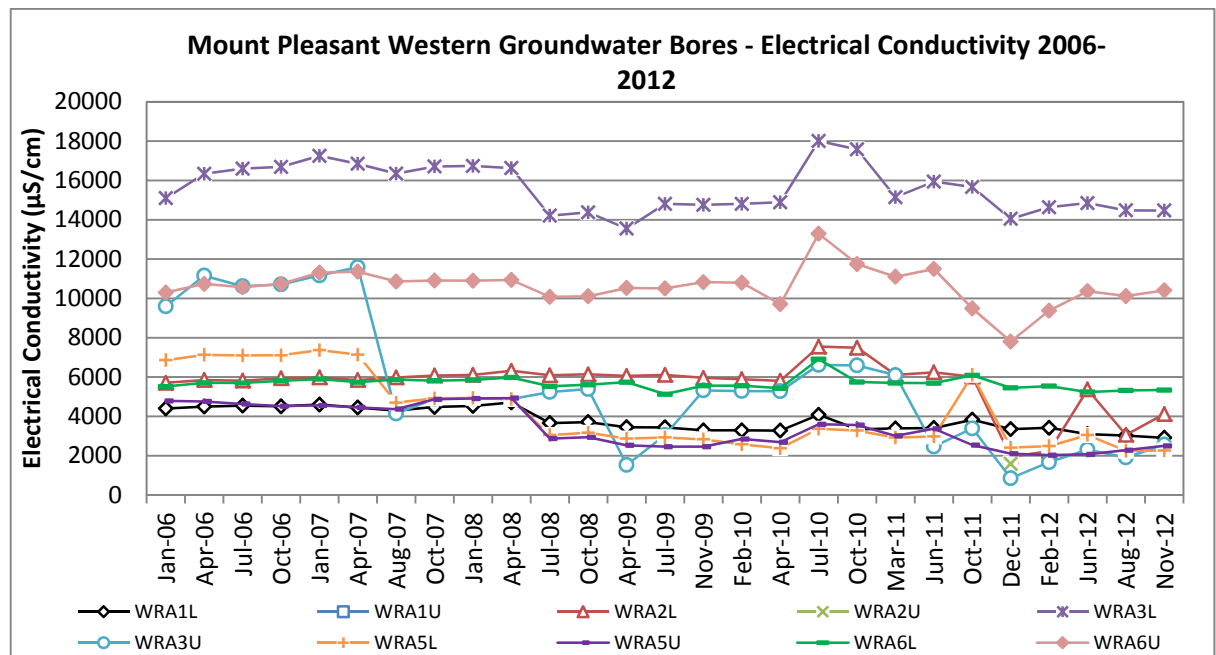


Figure 26 – Western Groundwater Boreholes Electrical Conductivity 2006 – 2012

2.6 Noise Monitoring

Attended noise monitoring is conducted by an independent consultant. Attended noise monitoring was conducted once per quarter at six sites during 2012. The results are summarised in Table 8 and shown in Figure 1.

Table 8 – 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 |

2.6.1 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 2012 is summarised in Table 9. 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.

It should be noted that the noise monitoring data provided in Table 9 is presenting all noise frequencies and noise sources, in the absence of an active operation. When in operation, mining noise is typically presented as frequencies <1000Hz from a

particular direction and source. Therefore monitoring data during an active operation would typically be lower than the total (all frequency) data currently recorded.

Table 9 – Attended Noise Monitoring Data

| Location | Quarter 1 | | | | Quarter 2 | | | |
|--------------|--------------------|---------------------|---------------------|---------------------|--------------------|---------------------|---------------------|---------------------|
| | L _{A1} dB | L _{A10} dB | L _{Aeq} dB | L _{A90} dB | L _{A1} dB | L _{A10} dB | L _{Aeq} dB | L _{A90} dB |
| Burtons Lane | 58 | 54 | 49 | 39 | 54 | 49 | 45 | 40 |
| Aberdeen | 52 | 48 | 44 | 35 | 46 | 43 | 40 | 35 |
| Kayuga | 43 | 37 | 36 | 32 | 46 | 42 | 39 | 34 |
| Kayuga Road | 48 | 46 | 45 | 43 | 53 | 44 | 43 | 39 |
| Wybong Road | 44 | 38 | 38 | 35 | 46 | 35 | 34 | 29 |
| Muswellbrook | 46 | 43 | 41 | 40 | 46 | 41 | 39 | 35 |
| Location | Quarter 3 | | | | Quarter 4 | | | |
| | L _{A1} dB | L _{A10} dB | L _{Aeq} dB | L _{A90} dB | L _{A1} dB | L _{A10} dB | L _{Aeq} dB | L _{A90} dB |
| Burtons Lane | 57 | 53 | 48 | 37 | 50 | 47 | 44 | 37 |
| Aberdeen | 53 | 47 | 43 | 34 | 51 | 46 | 42 | 36 |
| Kayuga | 45 | 42 | 38 | 28 | 36 | 33 | 31 | 29 |
| Kayuga Road | 46 | 43 | 39 | 34 | 45 | 43 | 40 | 35 |
| Wybong Road | 42 | 34 | 33 | 30 | 37 | 36 | 34 | 32 |
| Muswellbrook | 47 | 44 | 40 | 35 | 45 | 37 | 36 | 33 |

Definitions

- L_A The A-weighted root mean squared (RMS) noise level at any instant
- L_{A1} The noise level which is exceeded for 1 per cent of the time
- L_{A10} The noise level which is exceeded for 10 per cent of the time, which is approximately the average of the maximum noise levels
- L_{A90} The level exceeded for 90 per cent of the time, which is approximately the average of the minimum noise levels. The L_{A90} level is often referred to as the “background” noise level and is commonly used to determine noise criteria for assessment purposes.
- L_{Aeq} 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

3 Land Management

3.1 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 2012.

3.2 Topsoil Stripping, Landscape and Land Management

No topsoil stripping was undertaken at MTP in 2012.

Weed Control works in 2012 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 of the Mt Pleasant Rivercare Project, a joint Coal & Allied and Upper Hunter CMA project. Works included riparian zone weed control, river bank fencing and the planting of approximately 3,500 native tree and understorey species designed to promote bank stability and native flora biodiversity.

In 2012 there was routine fence replacement/maintenance conducted on adjoining buffer properties.

3.3 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 the event of a bushfire at MTP, Coal & Allied's emergency response procedure is triggered.

3.4 Rehabilitation

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

3.5 Fauna and Flora Management

As construction and mining are yet to commence, the majority of flora and fauna management works in 2012 were aimed at maintaining the landscape as discussed in section 3.2, however in 2012 preliminary work was conducted to establish a permanent base for native grass seed harvesting.

4 External Relations

4.1 External Relations

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

In practice this means:

- Having robust relationships with our communities of interest - this requires understanding the issues and needs of different stakeholders as well as active engagement.
- Effectively contributing to communities - this requires 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 reflect the Rio Tinto Communities Standard, which provides a framework for community activities across all operations. These objectives also form the primary goals for the Mount Pleasant Project, and are reflected in both the Muswellbrook multi year plan and various stakeholder engagement plans specific to the Mount Pleasant Project.

4.2 Communities Knowledge Base

Effectively contributing to communities requires a good understanding of the socio-economic environment in which Coal & Allied operates, as well as the community's vision for the future.

In February 2008, the Hunter Valley Research Foundation (HVRF) prepared a Hunter Valley Community Baseline Study for Coal & Allied. The study reported that 17% of Coal & Allied employees live within the Muswellbrook LGA and 4% within the Upper Hunter Shire LGA.

In 2012 Coal & Allied engaged the Hunter Valley Research Foundation to update this baseline work, incorporating the 2011 Australian Bureau of Statistics Census results. This work is expected to be complete in the first quarter of 2013.

To support the knowledge base provided by the Community Baseline Study, a detailed Situational Analysis of employment, education and health indicators and issues for Aboriginal communities in the Upper Hunter Valley was undertaken in 2011.

In addition to these studies, Coal & Allied has continued to participate in the Upper Hunter region domestic omnibus survey, and remained informed about other local research activities including the HVRF Environmental Attitudes Survey and Wellbeing Watch to ensure we remain informed about our communities

The information gathered through these studies has been used to inform Coal & Allied's community relations programmes, Coal & Allied's Community Development Fund and the Aboriginal Community Development Fund. Results have also supported presentations to senior managers and staff, Community Consultative Committees, all operational sites and projects, and a range of community partners.

4.3 Sustainable communities

Coal & Allied operates in accordance with sustainable development principles, as we believe it will result in long term benefits to both society and our business. We also recognise that sustainable development is not a goal a single organisation can achieve, nor is it a single project that can ever be completed and ticked off. It is about the way we work, within our business and in our interactions with others, to meet the objectives of social wellbeing, environmental stewardship and economic prosperity, throughout the life of a mine and beyond.

On this basis, we that believe Coal & Allied's projects, operations and products can contribute constructively to the global transition to sustainable development. Information about Coal & Allied's approach to sustainable development in 2012, including targets and results, is available on the Rio Tinto Coal Australia website: <http://www.riotintocoalaustralia.com.au>

Through the Mount Pleasant Project, Coal & Allied contributes to programmes identified by, and preferably in partnership with, local communities. Coal & Allied's belief is that effective partnerships stem from shared goals, mutual commitment and proven outcomes. We support a range of organisations that share our goal of delivering sustainable outcomes for the communities in which we operate.

Local projects and initiatives supported in 2012 included:

- Aberdeen Tigers Rugby League Club,
- Merriwa Springtime Show,
- Muswellbrook Shire Council Solar Boat Challenge,
- Muswellbrook Black Coal Cup,
- Muswellbrook High School Disability (Special Education Unit) Futsal team,
- Paint the Town REaD community reading programme,
- Muswellbrook PCYC Healthy Kids programme,
- Wildlife Aid, Cancer Council Relay for Life (Scone, Merriwa and Muswellbrook),
- Upper Hunter Eisteddfod, St Helier's Heavy Horse Field Day,
- Denman Sandy Hollow Junior Rugby League Club,
- Scone High School Student Representative Council motivational speaker, and
- Upper Hunter Physical Culture Club.

In 2012, Coal & Allied also continued to implement our SD&Me programme, which engages our employees and contractors in all aspects of sustainability, including community, environment, knowledge about coal and its use, and wellbeing. As part of this programme, Coal & Allied has enabled employees and their families to participate in events such as the Winery Running Festival at no cost, and has matched employee giving for a wide range of causes including Cancer Council's Biggest Morning Tea, and support for the Muswellbrook Hospital Auxillary.



Photo 1 - Coal & Allied staff and their families participated in the Hunter Valley Winery Running Festival

4.4 Community Relations

4.4.1 Communication

Members of the community are encouraged to engage in ways that suit them. A number of potential 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, see below copy of advertisement in Figure 27.



Figure 27 – Coal & Allied Shopfronts and Community Information Line advertising

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.

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.

During 2012, and in response to the findings of the 2011 Aboriginal Situational Analysis, Coal & Allied focussed on improving communication channels and tools to better inform community members about the Coal & Allied Aboriginal Community Development Fund and wider Aboriginal Relations activities. In addition, we will establish regular 'Drop in Days' for Aboriginal community members at a range of locations across the Upper Hunter from 2013.

Coal & Allied provides regular updates on the Mount Pleasant project, and other activities in the community, through our Muswellbrook Community Newsletter. Four editions of the Muswellbrook newsletter were distributed to Muswellbrook and surrounding communities in 2012.

4.4.2 Consultation

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.

The Mount Pleasant team engages 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 2012, Coal & Allied has undertaken a range of consultation activities, including:

- MTP Community Consultative Committee (CCC) meetings;
- Updates for business community, including the Muswellbrook Chamber of Commerce breakfast held at the Coal & Allied shopfront in September 2012;
- Provided information on employment opportunities with Coal & Allied via employment information sessions hosted in the Muswellbrook shopfront;
- Mobile shopfront information sessions in the outlying community of Merriwa, and presentation to the Merriwa Progress Association and other key stakeholder groups regarding Coal & Allied's offset lands;
- 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.

In May 2012, Coal & Allied also convened an aboriginal employment and business development workshop in Muswellbrook, involving key Coal & Allied site teams, contract labour providers, Rio Tinto Procurement and Aboriginal Relations representatives. Since then, engagement has increased significantly across relevant Rio Tinto/Coal & Allied teams to identify and gradually implement a range of improvements in recruitment and procurement processes.

We have also increased our engagement with local Aboriginal businesses to better understand their challenges and how Coal & Allied can play a more effective role new and existing business development. One example of this is Coal & Allied's support for Wanaruah Local Aboriginal Land Council (WLALC) and Greening Australia to work together to investigate the feasibility of WLALC developing an Environmental and Land Management Enterprise.

Community Consultative Committee (CCC)

The Mount Pleasant CCC was formed in 2004, and has been meeting 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.

In 2012, meetings were held in March, June and November. At each meeting, presentations provided members with an update on the progress of the Mount Pleasant Project; project approvals; environmental monitoring data; land management; and external relations. Over the year, CCC members also enjoyed interesting guest presentations on topics including cultural heritage and the Mount Pleasant biodiversity offsets.

The Mount Pleasant CCC is made up of community and Council representatives, and in 2012 members and attendees have included:

- Cr Karen Portolan (Chair/Deputy Chair)
- Cr Jeff Drayton (Deputy Chair – ceased September 2012)
- Mr Darryl Fitzgerald
- Mr Craig Flemming
- Mr Jonathon Moore
- Mr Tim Troon
- Mr Trevor Parkinson
- Ms Llewellyn Bates (commenced September 2012).

An additional CCC community member, Mr Rod Upton, was approved by the Muswellbrook Shire Council in December 2012.

The approved minutes of the CCC meetings are located in the Muswellbrook Library for public viewing. In accordance with our Development Consent, copies of the minutes are also available on the Coal & Allied website (www.riotintocoalaustralia.com.au).

4.4.3 Community Development

In 2012 Coal & Allied continued its focus on the long term sustainability of the communities where it operates, with almost \$2 million invested across the Hunter in partnerships with community groups and businesses.

Key areas of focus have included education, economic, environment and social/cultural, with 33 programmes supported by our Community Development Fund and Aboriginal Development Consultative Committee this year. Our funds have continued to enable us to build capacity, not dependency, and contribute to the long term sustainability of our surrounding communities.

For more information about our Community Development Funds, including a full listing of partnerships, visit www.riotintocoalaustralia.com.au.



Photo 2 - Coal & Allied's community partners at the 2012 end of year celebration

Coal & Allied Community Development Fund

In 2011 Coal & Allied recommitment \$4.5 million to a fifth round of funding for the Coal & Allied Community Development Fund (CDF), to be allocated over a 3 year period (2012 – 2014). Following this, the CDF has continued its support for local projects promoting community capacity in the Hunter region throughout 2012. Figure 28 shows the 2012 project investment profile.

The CDF has contributed more than \$12 million since 1999 into community projects in the LGA areas of Maitland, Cessnock, Singleton, Muswellbrook and Upper Hunter. More than 112 projects have been supported since the fund's inception and 25 programmes remain active in the community. 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.

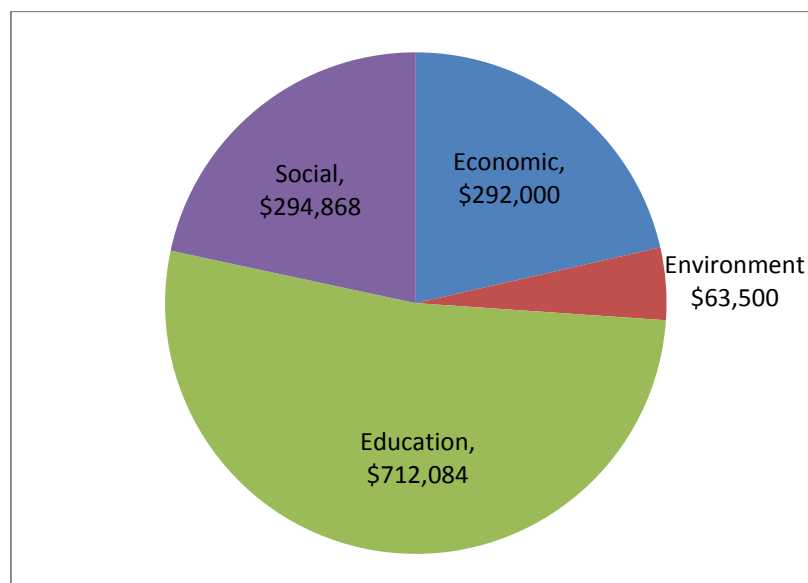


Figure 28 - Coal & Allied CDF 2012 project investment profile

In 2012, the CDF committed \$1,362,452 for 12 new programmes that will help deliver long term benefits for communities in the CDF catchment area, listed in Table 10 below. Table 11 lists the currently active programmes for which funding was approved prior to 2012.

Table 10 - Coal & Allied Community Development Fund projects approved in 2012

| <u>Programme</u> | <u>Partner</u> |
|--|---|
| School Swimming Scheme | <i>Muswellbrook South Public School</i> |
| Play Up Programme | <i>Upper Hunter Education Fund Inc</i> |
| Local SME Supply Chain Participation project | <i>HunterNet</i> |
| Building Skills and Leadership Capacity in Rural NSW | <i>Royal Agricultural Society Foundation</i> |
| The Hunter Youth Leadership Project | <i>Outward Bound</i> |
| Upper Hunter Beef Bonanza | <i>Upper Hunter Beef Bonanza</i> |
| People in Your Neighbourhood – Sustainability Street | <i>Muswellbrook Council</i> |
| Vocational Training Consultant | <i>St Phillips Christian Education Foundation</i> |
| Coal and Community | <i>The University of Newcastle</i> |
| Tocal Steer Challenge | <i>Tocal Agricultural College</i> |
| Singleton Placemaking Project | <i>Singleton Council</i> |
| Scholarships | <i>The University of Newcastle</i> |

Table 11 - Currently active Coal & Allied CDF programmes (approved prior to 2012)

| <u>Programme (year approved)</u> | <u>Partner</u> |
|---|--|
| Hunter Landcare Network – Climate Profiles (2007) | <i>Hunter Landcare Network</i> |
| Time Capture... The Making of (2008) | <i>Maitland City Council</i> |
| Healthy Dads, Healthy Kids (2009) | <i>Hunter Medical Research Institute</i> |
| Singleton Business Development & Funding Coordinator (2010) | <i>Singleton Council</i> |
| Upper Hunter Business Investment Advisory Forum (2010) | <i>Industry Development Centre</i> |
| Upper Hunter Education Foundation Fund (2011) | <i>Upper Hunter Education Fund</i> |
| Upper Hunter Science & Engineering Challenge (2011) | <i>The University of Newcastle</i> |
| Upper Hunter Shire Council Community Engagement (2011) | <i>Upper Hunter Shire Council</i> |
| River Paramedics (2011) | <i>Conservation Volunteers Australia</i> |

| | |
|--|---|
| Cessnock Community Grants Officer Project (2011) | <i>Maitland City Council</i> |
| Hunter Valley Creative Communities (2011) | <i>The Song Room</i> |
| Microenterprise Development in the Hunter (2011) | <i>Many Rivers Microfinance</i> |
| Business Growth Seminars (2011) | <i>Hunter Region Business Enterprise Centre</i> |
| Community Liaison and Grants Officer (2011) | <i>Muswellbrook Council</i> |

Coal & Allied Aboriginal Community Development Fund

(Previously the Aboriginal Development Consultative Committee (ADCC))

It was considered timely in 2012 to update the name of the committee to reflect the fact that the ADCC had operated effectively for 6 years as a community and economic development fund. Upper Hunter Aboriginal communities were canvassed about this and the name was officially changed to the Aboriginal Community Development Fund (ACDF) in November 2012.

Education remained a strong focus for the ACDF in 2012, as shown in Figure 30. Long standing ACDF education programmes were independently evaluated and demonstrated that they continued to deliver strong results for participants, both in terms of academic outcomes and post school pathways. As such, we committed to sustain and in some cases, increase our support for these programmes for another 3 years. Partnerships for Success (Polly Farmer Foundation) after school tuition programme in Muswellbrook and the KaWul cultural and education programme in Singleton, are two examples. A new scholarship programme will be established in 2013 with the University of Newcastle which will provide two industry based scholarships and one philanthropic grant for a high performing school leaver. Aboriginal students from the Upper Hunter Valley will have priority access to this programme.

We commissioned Principals Australia to undertake a number of 'education snapshots'. Snapshots identify what impact ACDF programmes having, highlight strengths and improvement opportunities for Aboriginal education practice in the school and provide a sound knowledge base for ACDF investment decisions.

The ACDF also focused on identifying projects which have the potential to strengthen existing Aboriginal businesses, foster new businesses and/or create employment for local Aboriginal people. To this end, strategic business planning, business consultants and feasibility studies were among the initiatives supported in 2012.

Wupa @ Wanaruah Art and Cultural Event and NAIDOC Week programmes were again stand-outs in our cultural programmes and the Singleton Schools Aboriginal Dance Group continues to inspire small schools to engage dance teachers and establish dance groups.

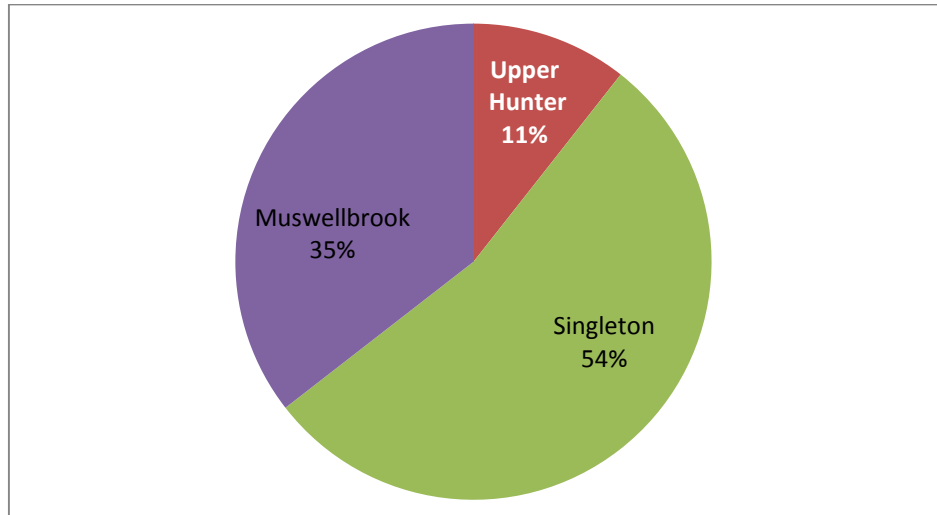


Figure 29 - Coal & Allied ACDF investment by location in 2012

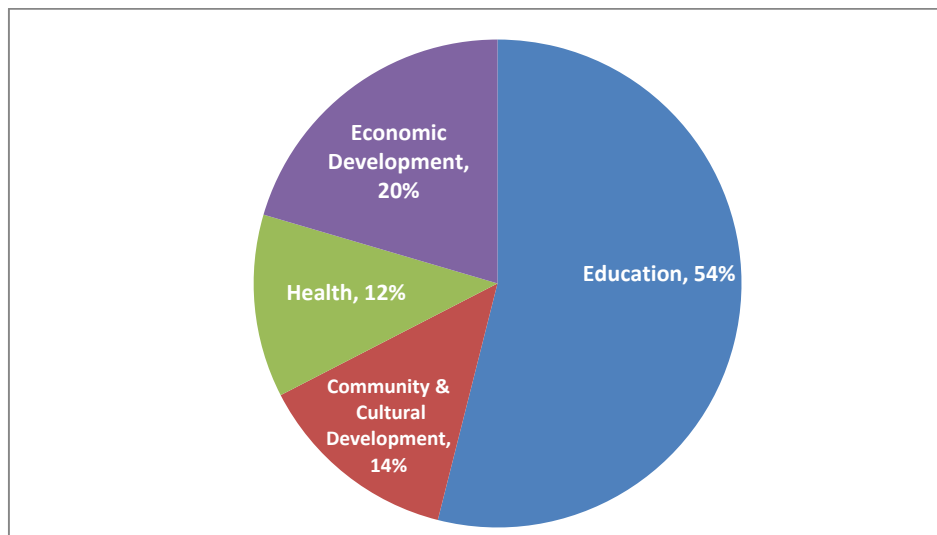


Figure 30 - Coal & Allied ACDF 2012 investment profile

The ACDF committed more than 99.5% (\$585,000) of available funds (\$590,000). 86% per cent of these projects and programmes were aligned to ADCF highest funding priorities for 2012. Table 12 below lists the programmes, scholarships and exceptional circumstances grants approved in 2012 and Table 13 lists the approved projects to commence in 2013.

Table 12 - Coal & Allied Aboriginal Community Development Fund projects and sponsorships approved in 2012

| <i>Programme</i> | <i>Partner</i> |
|---|------------------------------------|
| Exploring University Pathways - My Future | <i>Hunter Valley Youth Express</i> |
| Strategic Plan Development | <i>Yunaga Mine Services</i> |
| Partnerships for Success | <i>Polly Farmer Foundation</i> |

| | |
|---|--|
| Parents and Learning | <i>Napranum</i> |
| School to Work Transition Programme | <i>Dare to Lead</i> |
| Ka-Wul Cultural and Education Resource Centre | <i>Singleton High School</i> |
| Ungooroo Labour Hire Initiative | <i>Ungooroo Aboriginal Corporation</i> |
| Indigenous Youth School Based Traineeships | <i>Singleton Council</i> |
| Warrai Wanni School Readiness Programme | <i>Muswellbrook South School</i> |
| Singleton NAIDOC Week programmes | <i>Singleton Management Group</i> |
| Muswellbrook NAIDOC Week programmes | <i>Wanaruah Local Aboriginal Land Council</i> |
| Microfinance Development in the Hunter | <i>Many Rivers Microfinance</i> |
| ROAR Programme | <i>Merriwa Central School</i> |
| Social and Emotional Wellbeing Worker | <i>Upper Hunter Drug and Alcohol Service</i> |
| Sustainable Employment & Training | <i>Compass Housing Inc.</i> |
| <u>Sponsorships</u> | <u>Partner</u> |
| NAIDOC Week Indigenous Women's Dinner | <i>Mandurah Business Chamber</i> |
| 2012 NSW Rugby League Knockout | <i>Wararuah United Rugby League Knockout</i> |
| 2012 NSW Rugby League Knockout | <i>Googars Rugby League</i> |
| Wupa @ Wanaruah Exhibition 2012 | <i>Ungooroo Aboriginal Corp in partnership</i> |
| NAIDOC Art Prize | <i>Muswellbrook Shire Council</i> |
| Upper Hunter NAIDOC Week Awards 2012 | <i>Wanaruah Local Aboriginal Land Council</i> |
| <u>Exceptional Circumstances Grant</u> | |
| Funeral Expenses | <i>Elder Barbara Foot</i> |

Table 13 - Coal & Allied Aboriginal Community Development Fund approved projects to commence in 2013

| <u>Programme</u> | <u>Partner</u> |
|---|--|
| Aboriginal Environmental Enterprise Strategic Support | <i>Wanaruah Local Aboriginal Land Council</i> |
| Bangarra Dance Excursion | <i>Singleton & Muswellbrook High Schools</i> |
| Indigenous Scholarships | <i>University of Newcastle</i> |
| Aboriginal Cultural Program | <i>Rosary Park Catholic School</i> |

4.4.4 Relationships

Building strong relationships means that the community doesn't just see us when we need something from them and that when they come to us with issues or questions, they know they will get an open and honest response.

In 2012, Coal & Allied has continued to build strong relationships with stakeholders including:

- near neighbour engagement, with consultation to provide project updates at key project milestones and activities;
- 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.

Relationships with the local community have been strengthened through our involvement in local community events, including Bursting with Energy Expo which celebrated its 11th year in 2012. 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.



Photo 3 - Learning about energy generation at Bursting with Energy Expo

Across the Hunter Valley, Coal & Allied has also continued to focus on the Coal & Allied Aboriginal Employment Strategy. Each site has continued to progress towards the RTCA target of 5% Aboriginal employment, and this will provide valuable information and case studies for Mount Pleasant as the project progresses.

4.4.5 Partnerships

Coal & Allied has retained an active partnership programme in 2012 with key organisations that provide a service 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 2012, 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 well being of employees and the wider Hunter community.



Photo 4 - The Coal & Allied Rescue Helicopter in Full Flight

Hunter Central Rivers Catchment Management Authority (HRCMA)

In 2012 Coal & Allied entered its second year of 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)

In 2011 Coal & Allied and the UoN entered into a 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.



Photo 5 - University of Newcastle 2012 Coal & Allied Scholarship recipients

4.5 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 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, Aboriginal parties/stakeholders from Upper Hunter Valley Aboriginal community groups, corporations and individuals. The CHWG met on five occasions in 2012: 8th March, 17th May, 16th August, 4th October & 6th 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.

4.6 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, existing Aboriginal Heritage Management Plans, Development Consent conditions, the NPW Act (including the OEH Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010) and the EPA Act.

The 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 MTP Project 2012 cultural heritage management program consisted of one survey assessment conducted over a single day. The assessment program involved the systematic surveying of approximately 9km of 100m wide pedestrian transects. These surveys, combined with earlier comprehensive assessments conducted since 2006, have resulted in the identification and recording of nearly 1,800 Aboriginal cultural heritage locations and sites across the Project and 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.

4.7 Archaeology and Cultural Heritage Performance

There were no incidents involving the disturbance of Aboriginal archaeological or cultural heritage sites at MTP during 2012. Periodic site condition and GDP compliance inspections were conducted in various areas within the ML 1645 area during 2012.

During 2012, there were six GDPs assessed for limited development disturbance activities associated with geotechnical & environmental investigations at MTP. In all cases, 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;
- Coal & Allied Environmental Procedure 2.1 CHMS, 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, Environmental Procedure 2.1 CHMS, GDP and LODB requirements are the key operational and planning tools utilised to protect and manage Aboriginal cultural heritage at MTP.

4.8 Cultural Heritage Management Program

Mount Pleasant Coal Mine Stage 7 cultural heritage assessment survey

In May 2012, Coal & Allied commissioned Scarp Archaeology Pty Ltd to conduct an Aboriginal cultural heritage assessment of lands recently acquired by Coal & Allied as a continuation of its comprehensive assessment of ML1645. An area of approximately 80ha was subjected to a full coverage assessment survey involving a series of 100m wide pedestrian transects. The fieldwork was conducted over one day by a field team consisting of five CHFOs, a technical advisor (Scarp), a Coal & Allied data management officer and a site supervisor. The study recorded two Aboriginal cultural heritage isolated artefact site locations.

4.9 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 must be prepared by December 2013. The 2004 oral history report will form part of the detailed history.

In late 2005, RTCA commissioned Environmental Resources Management Australia to report and provide guidance on the nature, condition, potential significance and management of all known historic heritage places located on Coal & Allied owned lands in the Hunter Valley, including the ML 1645 area. However, the ML 1645 area does not contain any historic heritage sites listed in either the Coal & Allied historic heritage places register or the NSW Heritage Register.

RTCA established the Community Heritage Advisory Group (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 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. Further consultation with groups like the CHAG & historical research will be conducted over 2012/2013 to complement the oral history & produce historical report for the MTP locality in fulfilment of this condition of the consent.

5 Activities proposed in the next AEMR period

The Mount Pleasant Project is continuing through a review period that will run into 2013. The review is focused on providing the best value case under the current financial environment for Rio Tinto to consider investing in construction.

No proposed modification to the approved project is anticipated in 2013. In 2012 an application for an Environmental Protection Licence (EPL) was lodged with the NSW Environmental Protection Authority and it is likely the EPL will be granted in 2013.

Ongoing works will continue to maintain compliance with the Development consent and the EPBC approval.

Coal & Allied has an environmental monitoring programme in place at MTP, and this monitoring will continue during 2013. 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 2012 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 2012 |
| 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"> The general layout of the development is shown in Appendix 2; and The statement of commitments is reproduced in Appendix 3. | |
| 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"> Under Part 4A of the EP&A Act, the Applicant is required to obtain construction and occupation certificates for the proposed building works; Part 8 of the EP&A Regulation sets out the requirements for the certification of the development; 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. | |
| 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 2012 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 border="1"> <thead> <tr> <th>Receiver</th> <th>Receiver</th> </tr> </thead> <tbody> <tr> <td>43, 44 - J.B Moore</td> <td>143, 161, 237 - J.S. & N.M. Lonergan</td> </tr> <tr> <td>45 - B.A. & T.E. Strachan</td> <td>147 - M.J. & R.G. Adnum</td> </tr> <tr> <td>47 - B.L. & M.L. Bates</td> <td>156 - J.E. & 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. & M.S. Ducey</td> </tr> <tr> <td>101 - C. Austin</td> <td>129 - R.M. & 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. & G.M. Yore</td> </tr> <tr> <td>108 - J.S. Gibson</td> <td>146 - C.R. & N.J. Hoath</td> </tr> <tr> <td>112 - B.D. Barry</td> <td>153 - G.M. Casey</td> </tr> <tr> <td>118 - J. & C. Hayes</td> <td>157 - R.B. Parkinson & S.A. Peberdy</td> </tr> <tr> <td>120, 308 - D.L. & P.A. Moore</td> <td>229 - C. Horne</td> </tr> <tr> <td>121 - C & J.M. Moore</td> <td>263 - R.R. & 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> </tbody> </table> <p>Notes:</p> <ul style="list-style-type: none"> To identify the locations referred to in Table 1, see the figures in Appendix 5; and All land is noise affected, except receiver 67 which is air quality affected. | Receiver | Receiver | 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 2012 written requests were received from some landholders listed in Table 1 and actioned in accordance with the procedures in Schedule 4. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Receiver | Receiver | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| ADDITIONAL NOISE AND DUST MITIGATION UPON REQUEST | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 border="1"> <thead> <tr> <th>Receiver</th> <th>Receiver</th> </tr> </thead> <tbody> <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 - Pursler</td> <td>231 - Wicks</td> </tr> <tr> <td>78, 80 - W.J. Adnum</td> <td>240 - MacIntyre</td> </tr> <tr> <td>79 - W.J. & 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> </tbody> </table> <p>Note:</p> <p>To identify the locations referred to in Table 2, see figures in Appendix 5.</p> | Receiver | Receiver | 68 - Googe | 203 - Millard | 74 - Sormaz | 205 - Dapkos Pty Ltd | 77 - Pursler | 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. | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Receiver | Receiver | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 68 - Googe | 203 - Millard | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 74 - Sormaz | 205 - Dapkos Pty Ltd | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 77 - Pursler | 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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| NOISE | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| Noise Criteria | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| 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 privately-owned land or on more than 25 percent of any privately-owned land.</p> <p><i>Table 3: Noise criteria dB(A)</i></p> <table border="1"> <thead> <tr> <th rowspan="2">Location</th> <th colspan="2">Evening</th> <th colspan="2">Night</th> </tr> <tr> <th>L_{Aeq}(15min)</th> <th>L_{Aeq}(15min)</th> <th>L_{Aeq}(15min)</th> <th>L_{Aeq}(1min)</th> </tr> </thead> <tbody> <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="5">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> </tbody> </table> | Location | Evening | | Night | | L _{Aeq} (15min) | L _{Aeq} (15min) | L _{Aeq} (15min) | L _{Aeq} (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. |
| Location | Evening | | Night | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |
| | L _{Aeq} (15min) | L _{Aeq} (15min) | L _{Aeq} (15min) | L _{Aeq} (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 | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | | |

| CONDITION NUMBER | | CONDITION | | | | | DESCRIPTION OF PERFORMANCE for 2012 reporting period |
|--|---|---------------------------------|-------------------------------------|-----------------------------------|----|----|--|
| | NAG 8 | 35 | 42 | 41 | 41 | 45 | |
| | | 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"> To identify the locations referred to in Table 3, see the figures in Appendices 5 and 6. 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. | | | | | | |
| | 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. | | | | | | This condition has not been triggered. |
| | <i>Table 4: Noise Acquisition Criteria dB(A)</i> | | | | | | |
| | Location | Day L _{Aeq} (15min) | Evening L _{Aeq} (15min) | Night L _{Aeq} (15min) | | | |
| | All privately-owned land in NAG 1, NAG 2, NAG 3, NAG 4, and NAG10 | 40 | 40 | 40 | | | |
| | 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"> To identify the locations referred to in Table 4, see the figures in Appendices 5 and 6; 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 For this condition to apply, the exceedances of the criteria must be systematic. | | | | | | |
| 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. | | | | | | No activity in 2012. |
| | <i>Table 5: Cumulative Noise Criteria dB(A) L_{Aeq}(period)</i> | | | | | | |
| | Location | Day | Evening | Night | | | |
| | NAG 8, 9 | 55 | 45 | 40 | | | |
| | All other privately-owned land | 50 | 45 | 40 | | | |
| | Notes: | | | | | | |
| | <ul style="list-style-type: none"> To identify the locations referred to in Table 5, see the figures in Appendices 5 and 6; and 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 | | | | | | |
| 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. | | | | | | This condition has not been triggered. |
| | <i>Table 6: Cumulative Noise Criteria dB(A) L_{Aeq}(period)</i> | | | | | | |
| | Location | Day | Evening | Night | | | |
| | NAG 8, 9 | 60 | 50 | 45 | | | |
| | All other privately-owned land | 55 | 50 | 45 | | | |
| | Notes: | | | | | | |
| | <ul style="list-style-type: none"> To identify the locations referred to in Table 6, see the figures in Appendices 5 and 6; 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 For this condition to apply, the exceedances of the criteria must be systematic. | | | | | | |
| 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 2012. |
| 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 2012 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"> • uses a combination of real-time and supplementary attended monitoring to evaluate the performance of the development; • includes a protocol for determining exceedances of the relevant conditions of this consent; and | | | | | | | | | | | | | | | | | | | | | |
| 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. | | | | | | | | | | | | | | | | | | | | |
| <i>Table 7: Blasting Criteria</i> | | | | | | | | | | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Location</th> <th>Airblast Overpressure (dB(Lin Peak))</th> <th>Ground vibration (mm/s)</th> <th>Allowable Exceedance</th> </tr> </thead> <tbody> <tr> <td></td> <td>120</td> <td>10</td> <td>0%</td> </tr> <tr> <td>Residence on privately owned land</td> <td>115</td> <td>5</td> <td>5% of the total number of blasts over a 12 month period</td> </tr> <tr> <td>Historic heritage status</td> <td>-</td> <td>10</td> <td>0%</td> </tr> <tr> <td>All public infrastructure</td> <td>-</td> <td>50</td> <td>0%</td> </tr> </tbody> </table> | | 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% |
| 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. | This condition has not been triggered. | | | | | | | | | | | | | | | | | | | | |
| Blasting Frequency | | | | | | | | | | | | | | | | | | | | | | |
| Unless otherwise agreed by the Director-General, the Applicant may carry out a maximum of: | | This condition has not been triggered. | | | | | | | | | | | | | | | | | | | | |
| 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"> • establish the baseline condition of the buildings and/or structures on the land, or update the previous property inspection report; • identify any measures that should be implemented to minimise the potential blasting impacts of the development on these buildings and/or structures; and | | | | | | | | | | | | | | | | | | | | | |
| 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"> • protect the safety of people and livestock in the surrounding area; • protect public or private infrastructure/property in the surrounding area; • minimise the dust and fume emissions of the blasting on site; and • minimise blasting impacts on heritage items in the vicinity of the site; | | | | | | | | | | | | | | | | | | | | | |
| 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 2012 reporting period | |
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| 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"> 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 the Applicant has: <ul style="list-style-type: none"> 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 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. | | |
| 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 2012. | |
| 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. | |
| <i>Table 8: Long term criteria for particulate matter</i> | | | |
| Pollutant | Averaging Period | | ^d Criterion |
| Total Suspended Solids (TSP) matter | Annual | | ^a 90 µg/m ³ |
| Particulate Matter < 10 µm (PM ₁₀) | Annual | | ^a 30 µg/m ³ |
| <i>Table 9: Short term criteria for particulate matter</i> | | | |
| Pollutant | Averaging Period | | ^d Criterion |
| Particulate Matter < 10 µm (PM ₁₀) | 24 hour | | ^a 50 µg/m ³ |
| <i>Table 10: Long term criteria for deposited dust level</i> | | | |
| Pollutant | Averaging Period | | Maximum increase in deposited dust level |
| ^c Deposited dust | Annual | ^b 2 g/m ² /month | ^a 4 g/m ² /month |
| Notes to Tables 8-10: ^a Total impact (i.e. incremental increase in concentrations due to the development plus background concentrations due to all other sources); ^b incremental impact (i.e. incremental increase in concentrations due to the development on its own); ^c 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 ^d 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. | |
| <i>Table 11: Long term acquisition criteria for particulate matter</i> | | | |
| Pollutant | Averaging Period | | ^d Criterion |
| Total Suspended Solids (TSP) matter | Annual | | ^a 90 µg/m ³ |
| Particulate Matter < 10 µm (PM ₁₀) | Annual | | ^a 30 µg/m ³ |
| <i>Table 12: Short term acquisition criteria for particulate matter</i> | | | |
| Pollutant | Averaging Period | | ^d Criterion |
| Particulate Matter < 10 µm (PM ₁₀) | 24 hour | | ^a 150 µg/m ³ |
| Particulate Matter < 10 µm (PM ₁₀) | 24 hour | | ^a 50 µg/m ³ |
| <i>Table 13: Long term acquisition criteria for deposited dust</i> | | | |
| Pollutant | Averaging Period | Maximum increase in deposited dust level | Maximum total deposited dust level |
| ^c Deposited dust | Annual | ^b 2 g/m ² /month | ^a 4 g/m ² /month |

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| | Notes to Table 11-13: ^a Total impact (i.e. incremental increase in concentrations due to the development plus background concentrations due to all other sources); ^b Incremental impact (i.e. incremental increase in concentrations due to the development on its own); ^c 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 ^d Excludes extraordinary events such as bushfires, prescribed burning, dust storms, seafog, fire incidents or any other activity agreed by the Director-General. | |
| | Operating Conditions | |
| 22. | The Applicant shall: | |
| 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; | This condition has not been triggered. |
| 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. | |
| | Air Quality and Greenhouse Gas Management Plan | |
| 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"> ● uses a combination of real-time monitors and supplementary monitors to evaluate the performance of the development; ● includes PM_{2.5} monitoring (although this obligation could be satisfied by the regional air quality monitoring network if sufficient justification is provided); ● includes a protocol for determining exceedances of the relevant conditions of this consent; and | |
| 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. | |
| | METEOROLOGICAL MONITORING | |
| 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. | |
| | SOIL & WATER | |
| Note: | Under the Water Act 1912 and/or the Water Management Act 2000, the Applicant is required to obtain water licences for the development. | |
| | Water Supply | |
| 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. |
| | Water Discharges | |
| 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. | |
| | Compensatory Water Supply | |
| 27. | 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. 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. 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. 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. | This condition has not been triggered. |
| | Water Management Plan | |
| 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) | Site Water Balance, which must: <ul style="list-style-type: none"> ● include details of: <ul style="list-style-type: none"> ○ sources and security of water supply; ○ water use on site; ○ water management on site; ○ any off-site transfers; and ● investigate and implement all reasonable and feasible measures to minimise water use by the development; | |

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

| CONDITION NUMBER | CONDITION | DESCRIPTION OF PERFORMANCE for 2012 reporting period |
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| | Biodiversity Management Plan | |
| 32. | The Applicant shall prepare and implement a Biodiversity Management Plan for the development to the satisfaction of the Director-General. This plan must: | |
| 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"> • a description of the short, medium, and long term measures that would be implemented to: <ul style="list-style-type: none"> o manage the remnant vegetation and habitat on the site and in the offset area/s (if and when applicable); and o implement the offset strategy (if and when applicable), including detailed performance and completion criteria; • 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"> o implementing revegetation and regeneration within the disturbance areas and offset areas, including establishment of canopy, sub-canopy (if relevant), understorey and ground strata; o maximising salvage and beneficial use of resources in areas that are to be impacted, including vegetative, soil and cultural heritage resources; o protecting vegetation and soil outside the disturbance areas; o rehabilitating creeks and drainage lines on the site, to minimise net loss of stream length and aquatic habitat; o managing salinity; o conserving and reusing topsoil; o undertaking pre-clearance surveys; o managing impacts on fauna; o landscaping the site and along public roads to minimise visual and lighting impacts; o collecting and propagating seed; o salvaging and reusing material from the site for habitat enhancement; o salvaging, transplanting and/or propagating threatened flora and native grassland; o controlling weeds and feral pests; o managing grazing and agriculture on site; o controlling access; and o bushfire management; • a program to monitor and report on the effectiveness of these measures, and progress against the performance and completion criteria; • 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 • details of who would be responsible for monitoring, reviewing, and implementing the plan. | The Biodiversity Management Plan is in preparation |
| | HERITAGE | |
| 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. | |
| | Aboriginal Heritage Conservation Strategy | |
| 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: | |
| 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; | The Aboriginal Heritage Conservation Strategy is in preparation. |
| 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. |
| | Oral History | |
| 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: | |
| 35 (a) | be prepared by suitably qualified and experienced persons whose appointment has been endorsed by the Director-General; | In 2003, Veritas Archaeology and History Service was commissioned to prepare the oral history report of the area. The Mount Pleasant Oral History Project report was submitted to MSC, the DG and the Muswellbrook and Upper Hunter Historical Society in 2004. |
| 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 2012 reporting period |
|---|---|--|
| Aboriginal Heritage Management Plan | | |
| 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"> ● a detailed plan for the implementation of the approved Aboriginal Heritage Conservation Strategy (required under condition 34); ● a description of the measures that would be implemented to: <ul style="list-style-type: none"> ○ comply with the requirements of any Aboriginal Heritage impact Permit issued for the development, including any approved archaeological testing and salvage program; ○ store the Aboriginal objects salvaged, both during construction and in the long term; ○ protect, monitor and/or manage all Aboriginal objects on site until the impacts of the development on these objects is unavoidable; ○ minimise the blasting impacts of the development on Aboriginal objects in the vicinity of the site; ○ manage the discovery of any human remains or previously unidentified Aboriginal objects on site; ○ enable Aboriginal stakeholders to get reasonable access to the site during the development; ○ ensure Aboriginal stakeholders are consulted about the conservation and management of Aboriginal cultural heritage on site; and ○ ensure construction personnel receive suitable heritage inductions prior to carrying out any development on site, and that suitable records are kept of these inductions. | |
| TRANSPORT | | |
| Relocation of Rail Loop or Conveyor/Service Corridor | | |
| 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 |
| Road Works | | |
| 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: | |
| 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 | Following discussions with council the applicant has provided a schedule of the road construction works on the 23/12/2011 |
| 40 (b) | update this schedule annually, to the satisfaction of Council. | |
| Road Maintenance | | |
| 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. |
| Road Access and Signage | | |
| 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. |
| Monitoring of Coal Transport | | |
| 44. | The Applicant shall: | This condition has not been triggered. |
| 44 (a) | keep records of the: <ul style="list-style-type: none"> ● amount of coal transported from the site (on a monthly basis); and ● date and time of each train movement generated by the development; and | |
| 44 (b) | make these records available on its website at the end of each calendar year. | |

| CONDITION NUMBER | CONDITION | DESCRIPTION OF PERFORMANCE for 2012 reporting period | | | | | | | | | | | | |
|--|--|---|---------|-----------|--|------------------------------|------------------------|--|------------|------------------------------------|----------|------------------------------------|-----------|--|
| | VISUAL | | | | | | | | | | | | | |
| | Visual Amenity and Lighting | | | | | | | | | | | | | |
| 45. | The Applicant shall: | | | | | | | | | | | | | |
| 45 (a) | implement all reasonable and feasible measures to minimise the visual and off-site lighting impacts of the development; | This condition has not been triggered. | | | | | | | | | | | | |
| 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"> ● along the access road to the mine site; ● around the water storage dams and coal preparation plant; ● at other areas identified as necessary for the maintenance of satisfactory visual amenity; and | | | | | | | | | | | | | |
| 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. | | | | | | | | | | | | |
| | <i>Table 14: Rehabilitation Objectives</i> | | | | | | | | | | | | | |
| | <table border="1"> <thead> <tr> <th>Feature</th> <th>Objective</th> </tr> </thead> <tbody> <tr> <td>Mine Site (as a whole), including the final void</td> <td>Safe, stable & 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> </tbody> </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 2012 reporting period |
|------------------|--|---|
| | Rehabilitation Management Plan | |
| 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. | |
| | Schedule 4 - ADDITIONAL PROCEDURES | |
| | NOTIFICATION OF LANDOWNERS | |
| 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"> ● 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; ● 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; ● 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; ● 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 | |
| 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: | |
| 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 | This condition has not been triggered. |
| 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). | |
| | INDEPENDENT REVIEW | |
| 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"> ● consult with the landowner to determine his/her concerns; ● conduct monitoring to determine whether the development is complying with the relevant criteria; and ● if the development is not complying with these criteria then: <ul style="list-style-type: none"> o 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; o identify the measures that could be implemented to ensure compliance with the relevant criteria; and | |
| 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 2012 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"> existing and permissible use of the land, in accordance with the applicable planning instruments at the date of the written request; and 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; | |
| 6 (b) | the reasonable costs associated with: <ul style="list-style-type: none"> relocating within the Muswellbrook, Singleton or Scone local government area, or to any other local government area determined by the Director-General; and 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 | |
| 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. <p>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:</p> <ul style="list-style-type: none"> consider submissions from both parties; 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; prepare a detailed report setting out the reasons for any determination; and provide a copy of the report to both parties. <p>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.</p> <p>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.</p> <p>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.</p> <p>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.</p> | |
| 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"> keep the local community and relevant agencies informed about the operation and environmental performance of the development; receive, handle, respond to, and record complaints; resolve any disputes that may arise during the course of the development; respond to any non-compliance; respond to emergencies; and | |
| 1 (f) | include: <ul style="list-style-type: none"> copies of any strategies, plans and programs approved under the conditions of this consent; and a clear plan depicting all the monitoring to be carried out in relation to the development. | |
| 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"> the relevant statutory requirements (including any relevant consent, licence or lease conditions); any relevant limits or performance measures/criteria; 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; | |
| 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 2012 reporting period |
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| 2 (d) | a program to monitor and report on the: <ul style="list-style-type: none"> ● impacts and environmental performance of the development; ● effectiveness of any management measures (see c above); | 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"> ● incidents; ● complaints; ● non-compliances with statutory requirements; and ● exceedances of the impact assessment criteria and/or performance criteria; and | |
| 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"> ● relevant statutory requirements, limits or performance measures/criteria; ● monitoring results of previous years; and ● relevant predictions in the EIS; | |
| 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: www.riotintoaustralia.com.au |
| 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 2012 |
| 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"> ● This audit team must be led by a suitably qualified auditor and include experts in any fields specified by the Director-General. ● The audits can be coordinated with similar auditing requirements for the Bengalla mine. | |

| CONDITION NUMBER | CONDITION | DESCRIPTION OF PERFORMANCE for 2012 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. |
| ACCESS TO INFORMATION | | |
| 11. | The Applicant shall: | |
| 11 (a) | <p>make the following information publicly available on its website:</p> <ul style="list-style-type: none"> ● the EIS; ● all current statutory approvals for the development; ● approved strategies, plans and programs required under the conditions of this consent; ● 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; ● a complaints register, which is to be updated on a monthly basis; ● minutes of CCC meetings; ● the annual reviews (over the last 5 years); ● any independent environmental audit, and the Applicant's response to the recommendations in any audit; ● any other matter required by the Director-General; and | This information is available on the Rio Tinto Coal Australia Website: www.riotintocoalaustralia.com.au |
| 11 (b) | keep this information up to date, | |
| | to the satisfaction of the Director-General. | |

Appendix 2

Environmental Monitoring Results



**Mount Pleasant
Meteorological Monitoring Results 2012**

| 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) |
|------------|--------------------------|------------------------------|------------------------------|---------------------------|---------------------------|---------------|--------------------------|
| 1/01/2012 | 3.51 | 11.30 | 29.40 | 67.10 | 79.30 | 0.0 | 0.0 |
| 2/01/2012 | 3.43 | 11.00 | 31.00 | 65.80 | 78.00 | 0.0 | 0.0 |
| 3/01/2012 | 3.11 | 13.30 | 33.90 | 66.00 | 78.40 | 0.0 | 0.0 |
| 4/01/2012 | 5.44 | 18.10 | 35.70 | 65.50 | 73.10 | 0.0 | 0.0 |
| 5/01/2012 | 5.14 | 18.90 | 28.50 | 67.90 | 78.40 | 19.0 | 19.0 |
| 6/01/2012 | 5.01 | 16.90 | 23.70 | 71.10 | 82.90 | 0.2 | 19.2 |
| 7/01/2012 | 3.52 | 13.60 | 30.30 | 68.60 | 81.70 | 0.0 | 19.2 |
| 8/01/2012 | 4.76 | 17.50 | 34.70 | 67.60 | 75.50 | 4.8 | 24.0 |
| 9/01/2012 | 4.43 | 19.90 | 31.00 | 67.20 | 78.10 | 0.4 | 24.4 |
| 10/01/2012 | 2.77 | 15.00 | 29.50 | 45.50 | 72.10 | 0.2 | 24.6 |
| 11/01/2012 | 7.23 | 18.10 | 27.90 | 58.10 | 67.10 | 0.0 | 24.6 |
| 12/01/2012 | 3.76 | 11.10 | 24.90 | 57.60 | 69.10 | 0.0 | 24.6 |
| 13/01/2012 | 3.54 | 10.20 | 28.40 | 59.30 | 71.60 | 0.0 | 24.6 |
| 14/01/2012 | 5.22 | 16.10 | 27.70 | 60.30 | 66.60 | 0.0 | 24.6 |
| 15/01/2012 | 2.66 | 17.20 | 25.10 | 62.60 | 69.70 | 2.2 | 26.8 |
| 16/01/2012 | 4.39 | 16.50 | 26.90 | 62.90 | 72.50 | 0.6 | 27.4 |
| 17/01/2012 | 3.93 | 14.60 | 28.60 | 61.70 | 73.10 | 0.0 | 27.4 |
| 18/01/2012 | 3.39 | 17.60 | 30.80 | 63.00 | 69.00 | 0.0 | 27.4 |
| 19/01/2012 | 4.90 | 16.50 | 30.70 | 62.80 | 70.40 | 0.0 | 27.4 |
| 20/01/2012 | 4.22 | 18.90 | 31.00 | 62.60 | 74.50 | 0.0 | 27.4 |
| 21/01/2012 | 4.52 | 18.00 | 24.10 | 62.90 | 67.50 | 0.0 | 27.4 |
| 22/01/2012 | 6.55 | 17.10 | 24.60 | 63.40 | 70.60 | 1.6 | 29.0 |
| 23/01/2012 | 5.19 | 17.90 | 24.80 | 64.70 | 71.50 | 0.4 | 29.4 |
| 24/01/2012 | 5.41 | 16.90 | 23.70 | 63.90 | 70.00 | 0.6 | 30.0 |
| 25/01/2012 | 3.54 | 19.10 | 21.40 | 66.80 | 76.70 | 23.6 | 53.6 |
| 26/01/2012 | 4.20 | 18.90 | 25.40 | 72.20 | 81.10 | 3.8 | 57.4 |
| 27/01/2012 | 4.49 | 19.40 | 27.80 | 70.00 | 82.10 | 1.2 | 58.6 |
| 28/01/2012 | 3.70 | 18.50 | 26.10 | 69.00 | 76.50 | 0.0 | 58.6 |
| 29/01/2012 | 3.24 | 19.20 | 27.60 | 68.70 | 79.80 | 0.0 | 58.6 |
| 30/01/2012 | 7.91 | 20.50 | 31.30 | 69.00 | 78.90 | 0.6 | 59.2 |
| 31/01/2012 | 5.12 | 19.10 | 27.30 | 68.60 | 75.50 | 3.2 | 62.4 |
| 1/02/2012 | 5.01 | 16.20 | 19.10 | 72.40 | 83.60 | 29.0 | 91.4 |
| 2/02/2012 | 4.58 | 15.50 | 17.60 | 83.50 | 94.40 | 22.4 | 113.8 |
| 3/02/2012 | 3.50 | 15.20 | 22.30 | 88.20 | 93.20 | 6.2 | 120.0 |
| 4/02/2012 | 3.15 | 18.90 | 28.10 | 78.60 | 88.80 | 0.0 | 120.0 |
| 5/02/2012 | 2.96 | 17.70 | 31.10 | 77.50 | 86.10 | 0.0 | 120.0 |
| 6/02/2012 | 5.33 | 19.30 | 31.20 | 74.90 | 87.30 | 0.0 | 120.0 |
| 7/02/2012 | 4.12 | 18.10 | 21.70 | 77.30 | 80.30 | 0.6 | 120.6 |
| 8/02/2012 | 4.97 | 17.30 | 24.10 | 78.20 | 86.50 | 0.6 | 121.2 |
| 9/02/2012 | 3.13 | 16.20 | 27.20 | 76.20 | 92.00 | 0.0 | 121.2 |
| 10/02/2012 | 6.14 | 16.50 | 27.60 | 75.20 | 87.60 | 0.0 | 121.2 |
| 11/02/2012 | 4.74 | 16.70 | 28.20 | 76.70 | 92.20 | 3.6 | 124.8 |
| 12/02/2012 | 3.94 | 14.90 | 28.60 | 76.50 | 88.90 | 0.0 | 124.8 |
| 13/02/2012 | 6.30 | 15.90 | 27.50 | 74.60 | 84.70 | 0.0 | 124.8 |
| 14/02/2012 | 5.02 | 13.70 | 26.80 | 73.70 | 88.90 | 0.0 | 124.8 |
| 15/02/2012 | 4.27 | 16.10 | 25.80 | 73.50 | 87.00 | 0.0 | 124.8 |
| 16/02/2012 | 3.00 | 14.50 | 27.50 | 73.30 | 87.30 | 0.0 | 124.8 |
| 17/02/2012 | 3.44 | 13.40 | 30.10 | 73.00 | 90.00 | 0.0 | 124.8 |
| 18/02/2012 | 6.28 | 17.20 | 30.90 | 73.40 | 89.20 | 2.0 | 126.8 |
| 19/02/2012 | 3.21 | 18.70 | 29.70 | 76.30 | 89.10 | 0.0 | 126.8 |
| 20/02/2012 | 3.66 | 17.60 | 29.50 | 75.00 | 95.70 | 28.0 | 154.8 |
| 21/02/2012 | 3.43 | 17.50 | 22.00 | 90.10 | 94.60 | 2.8 | 157.6 |
| 22/02/2012 | 3.35 | 17.30 | 23.60 | 89.50 | 96.10 | 0.0 | 157.6 |

**Mount Pleasant
Meteorological Monitoring Results 2012**

| | | | | | | | |
|------------|-------|-------|-------|-------|-------|------|-------|
| 23/02/2012 | 3.05 | 15.30 | 28.80 | 83.40 | 92.00 | 0.0 | 157.6 |
| 24/02/2012 | 4.52 | 14.40 | 29.30 | 80.70 | 90.60 | 0.0 | 157.6 |
| 25/02/2012 | 3.60 | 16.00 | 27.50 | 79.40 | 93.50 | 0.2 | 157.8 |
| 26/02/2012 | 3.15 | 19.00 | 24.20 | 80.00 | 84.10 | 1.4 | 159.2 |
| 27/02/2012 | 1.21 | 19.30 | 28.60 | 81.50 | 89.90 | 0.2 | 159.4 |
| 28/02/2012 | 3.13 | 19.70 | 32.30 | 80.00 | 95.10 | 0.0 | 159.4 |
| 29/02/2012 | 5.75 | 19.20 | 32.50 | 78.40 | 94.70 | 0.0 | 159.4 |
| 1/03/2012 | 7.05 | 20.00 | 33.00 | 80.00 | 92.50 | 1.8 | 161.2 |
| 2/03/2012 | 5.79 | 16.20 | 22.70 | 81.80 | 90.70 | 24.2 | 185.4 |
| 3/03/2012 | 4.03 | 16.20 | 21.80 | 90.50 | 94.90 | 18.8 | 204.2 |
| 4/03/2012 | 2.88 | 16.20 | 32.70 | 90.70 | 96.80 | 0.2 | 204.4 |
| 5/03/2012 | 3.29 | 18.20 | 25.10 | 92.20 | 98.50 | 1.4 | 205.8 |
| 6/03/2012 | 4.40 | 16.50 | 24.80 | 86.50 | 97.50 | 0.0 | 205.8 |
| 7/03/2012 | 4.16 | 14.20 | 21.70 | 84.60 | 90.30 | 0.6 | 206.4 |
| 8/03/2012 | 4.17 | 11.90 | 24.40 | 82.00 | 90.80 | 0.2 | 206.6 |
| 9/03/2012 | 4.03 | 11.60 | 27.80 | 78.80 | 94.60 | 0.0 | 206.6 |
| 10/03/2012 | 4.96 | 14.10 | 27.70 | 80.80 | 91.80 | 0.0 | 206.6 |
| 11/03/2012 | 3.81 | 16.50 | 27.20 | 84.40 | 92.80 | 0.0 | 206.6 |
| 12/03/2012 | 3.09 | 15.50 | 27.20 | 82.50 | 92.90 | 0.0 | 206.6 |
| 13/03/2012 | 3.54 | 13.60 | 27.20 | 79.30 | 92.20 | 0.0 | 206.6 |
| 14/03/2012 | 2.38 | 15.10 | 26.30 | 82.00 | 92.60 | 0.2 | 206.8 |
| 15/03/2012 | 2.41 | 16.10 | 28.90 | 81.10 | 93.70 | 0.0 | 206.8 |
| 16/03/2012 | 2.39 | 17.00 | 30.60 | 83.80 | 95.00 | 0.0 | 206.8 |
| 17/03/2012 | 4.76 | 18.00 | 24.00 | 81.60 | 89.10 | 10.0 | 216.8 |
| 18/03/2012 | 5.28 | 15.40 | 22.30 | 80.40 | 95.60 | 1.8 | 218.6 |
| 19/03/2012 | 5.39 | 15.30 | 20.30 | 86.20 | 90.50 | 3.4 | 222.0 |
| 20/03/2012 | 4.22 | 16.90 | 23.30 | 87.40 | 97.70 | 0.4 | 222.4 |
| 21/03/2012 | 2.86 | 17.30 | 27.70 | 85.90 | 97.30 | 0.2 | 222.6 |
| 22/03/2012 | 3.87 | 17.00 | 23.80 | 82.40 | 90.90 | 0.0 | 222.6 |
| 23/03/2012 | 5.61 | 16.00 | 24.90 | 81.70 | 91.90 | 0.0 | 222.6 |
| 24/03/2012 | 3.23 | 9.20 | 23.10 | 80.10 | 90.40 | 0.0 | 222.6 |
| 25/03/2012 | 4.02 | 8.10 | 24.30 | 83.20 | 92.30 | 0.0 | 222.6 |
| 26/03/2012 | 2.87 | 11.40 | 24.20 | 80.60 | 92.90 | 0.0 | 222.6 |
| 27/03/2012 | 3.13 | 11.90 | 26.60 | 78.90 | 92.20 | 0.0 | 222.6 |
| 28/03/2012 | 3.13 | 14.90 | 25.90 | 81.50 | 91.90 | 0.0 | 222.6 |
| 29/03/2012 | 6.52 | 13.60 | 26.70 | 78.90 | 94.00 | 0.0 | 222.6 |
| 30/03/2012 | 2.98 | 13.30 | 24.80 | 78.30 | 86.10 | 0.0 | 222.6 |
| 31/03/2012 | 2.02 | 14.20 | 25.90 | 77.90 | 91.70 | 0.2 | 222.8 |
| 1/04/2012 | 3.64 | 9.30 | 28.10 | 76.90 | 91.00 | 0.0 | 222.8 |
| 2/04/2012 | - | - | - | - | - | - | 222.8 |
| 3/04/2012 | 5.59 | 12.83 | 26.54 | 41.66 | 95.10 | 0.0 | 222.8 |
| 4/04/2012 | 5.39 | 9.15 | 28.62 | 25.41 | 97.70 | 0.0 | 222.8 |
| 5/04/2012 | 10.68 | 10.31 | 28.02 | 33.87 | 92.10 | 0.0 | 222.8 |
| 6/04/2012 | 9.38 | 13.82 | 26.50 | 44.39 | 97.40 | 0.0 | 222.8 |
| 7/04/2012 | 6.10 | 10.74 | 26.12 | 32.61 | 98.80 | 0.0 | 222.8 |
| 8/04/2012 | 13.46 | 1.62 | 17.80 | 25.76 | 82.20 | 0.0 | 222.8 |
| 9/04/2012 | 1.47 | 15.65 | 30.56 | 34.61 | 94.60 | 6.6 | 229.4 |
| 10/04/2012 | 11.01 | 12.81 | 22.94 | 30.83 | 66.67 | 0.0 | 229.4 |
| 11/04/2012 | 11.91 | 6.96 | 19.13 | 29.25 | 82.30 | 0.0 | 229.4 |
| 12/04/2012 | 9.89 | 8.18 | 19.14 | 48.58 | 90.50 | 0.0 | 229.4 |
| 13/04/2012 | 9.93 | 10.51 | 21.79 | 44.08 | 92.40 | 0.0 | 229.4 |
| 14/04/2012 | 8.15 | -1.04 | 26.40 | 33.37 | 99.70 | 0.0 | 229.4 |
| 15/04/2012 | 0.80 | 10.13 | 25.32 | 39.28 | 99.00 | 0.0 | 229.4 |
| 16/04/2012 | 6.83 | 12.88 | 23.61 | 50.92 | 91.00 | 0.0 | 229.4 |

**Mount Pleasant
Meteorological Monitoring Results 2012**

| | | | | | | | |
|------------|-------|-------|-------|-------|-------|------|-------|
| 17/04/2012 | 10.71 | 15.11 | 24.21 | 54.72 | 95.30 | 0.0 | 229.4 |
| 18/04/2012 | - | 13.59 | 19.64 | 70.29 | 97.30 | 7.6 | 237.0 |
| 19/04/2012 | 9.22 | 13.93 | 21.43 | 70.75 | 97.40 | 0.0 | 237.0 |
| 20/04/2012 | 7.12 | 13.83 | 24.14 | 55.95 | 98.60 | 0.0 | 237.0 |
| 21/04/2012 | 5.11 | 13.89 | 26.86 | 35.88 | 96.90 | 0.0 | 237.0 |
| 22/04/2012 | 7.96 | 8.41 | 26.10 | 39.27 | 96.90 | 0.0 | 237.0 |
| 23/04/2012 | - | 10.67 | 25.59 | 50.69 | 99.80 | 0.0 | 237.0 |
| 24/04/2012 | - | 15.01 | 18.77 | 72.48 | 96.40 | 12.0 | 249.0 |
| 25/04/2012 | 19.65 | 9.64 | 24.81 | 31.22 | 96.70 | 0.2 | 249.2 |
| 26/04/2012 | 15.30 | 6.83 | 17.49 | 38.84 | 74.77 | 0.0 | 249.2 |
| 27/04/2012 | 7.95 | 6.56 | 21.00 | 42.24 | 87.70 | 0.0 | 249.2 |
| 28/04/2012 | 4.99 | 4.60 | 20.83 | 45.24 | 97.10 | 0.0 | 249.2 |
| 29/04/2012 | - | 8.86 | 18.21 | 70.86 | 98.50 | 0.0 | 249.2 |
| 30/04/2012 | 14.12 | 4.28 | 21.62 | 45.65 | 97.90 | 0.0 | 249.2 |
| 1/05/2012 | 11.18 | 9.36 | 20.41 | 40.92 | 92.40 | 0.0 | 249.2 |
| 2/05/2012 | 6.53 | 4.26 | 22.69 | 35.67 | 98.30 | 0.0 | 249.2 |
| 3/05/2012 | 9.11 | 3.97 | 24.56 | 39.86 | 98.20 | 0.0 | 249.2 |
| 4/05/2012 | 6.76 | 8.07 | 21.76 | 44.22 | 97.20 | 6.6 | 255.8 |
| 5/05/2012 | 6.35 | 3.58 | 20.25 | 45.09 | 98.20 | 0.0 | 255.8 |
| 6/05/2012 | 8.05 | 5.22 | 20.06 | 36.10 | 94.00 | 0.0 | 255.8 |
| 7/05/2012 | - | 3.18 | 20.62 | 27.41 | 94.10 | 0.0 | 255.8 |
| 8/05/2012 | 13.49 | 1.08 | 19.49 | 25.41 | 81.40 | 0.0 | 255.8 |
| 9/05/2012 | 6.00 | 4.31 | 22.53 | 29.07 | 89.50 | 0.0 | 255.8 |
| 10/05/2012 | 5.62 | 5.32 | 25.99 | 25.22 | 83.70 | 0.0 | 255.8 |
| 11/05/2012 | 7.62 | 6.63 | 26.90 | 20.30 | 84.50 | 0.0 | 255.8 |
| 12/05/2012 | 10.36 | 4.86 | 27.81 | 23.39 | 85.90 | 0.0 | 255.8 |
| 13/05/2012 | 12.45 | 8.29 | 23.26 | 27.85 | 76.66 | 0.0 | 255.8 |
| 14/05/2012 | 15.80 | 6.20 | 17.29 | 34.93 | 66.60 | 0.0 | 255.8 |
| 15/05/2012 | 6.77 | 1.69 | 16.49 | 32.74 | 86.80 | 0.0 | 255.8 |
| 16/05/2012 | 6.66 | -3.28 | 17.32 | 33.49 | 91.80 | 0.0 | 255.8 |
| 17/05/2012 | 6.87 | 0.46 | 18.59 | 50.18 | 92.80 | 0.0 | 255.8 |
| 18/05/2012 | 5.31 | 1.07 | 19.34 | 39.46 | 98.10 | 0.0 | 255.8 |
| 19/05/2012 | 5.11 | 1.14 | 21.01 | 25.20 | 97.20 | 0.0 | 255.8 |
| 20/05/2012 | 9.84 | 1.96 | 21.55 | 21.91 | 89.40 | 0.0 | 255.8 |
| 21/05/2012 | 8.39 | -0.53 | 19.13 | 41.31 | 96.10 | 0.0 | 255.8 |
| 22/05/2012 | 5.20 | 4.46 | 18.98 | 48.16 | 99.40 | 0.0 | 255.8 |
| 23/05/2012 | 11.01 | 2.56 | 20.73 | 25.47 | 96.90 | 0.0 | 255.8 |
| 24/05/2012 | 8.21 | 1.47 | 22.47 | 21.91 | 81.60 | 0.0 | 255.8 |
| 25/05/2012 | 5.27 | 2.09 | 12.98 | 51.69 | 97.10 | 3.0 | 258.8 |
| 26/05/2012 | 15.62 | 8.96 | 15.96 | 48.83 | 97.30 | 3.8 | 262.6 |
| 27/05/2012 | 17.33 | 6.36 | 15.45 | 47.16 | 79.29 | 0.0 | 262.6 |
| 28/05/2012 | 6.33 | 3.69 | 17.02 | 43.70 | 92.10 | 0.0 | 262.6 |
| 29/05/2012 | 9.69 | 2.70 | 17.78 | 42.81 | 95.40 | 0.0 | 262.6 |
| 30/05/2012 | 8.13 | 5.16 | 15.82 | 74.55 | 96.40 | 0.4 | 263.0 |
| 31/05/2012 | 10.26 | 8.05 | 18.62 | 57.40 | 96.70 | 0.2 | 263.2 |
| 1/06/2012 | 8.75 | 3.45 | 19.20 | 53.37 | 98.30 | 0.0 | 263.2 |
| 2/06/2012 | 8.48 | 5.71 | 17.95 | 69.75 | 99.40 | 0.2 | 263.4 |
| 3/06/2012 | 4.85 | 11.13 | 15.35 | 80.40 | 98.50 | 5.6 | 269.0 |
| 4/06/2012 | 6.18 | 11.17 | 15.42 | 87.40 | 99.00 | 15.2 | 284.2 |
| 5/06/2012 | 14.66 | 8.50 | 18.99 | 54.00 | 98.50 | 0.2 | 284.4 |
| 6/06/2012 | 13.53 | 5.85 | 14.12 | 50.75 | 96.60 | 5.8 | 290.2 |
| 7/06/2012 | 14.62 | 7.10 | 14.89 | 58.94 | 96.50 | 0.0 | 290.2 |
| 8/06/2012 | 7.48 | 5.61 | 14.32 | 62.72 | 97.40 | 1.2 | 291.4 |
| 9/06/2012 | 5.05 | 1.88 | 14.90 | 48.07 | 99.10 | 0.2 | 291.6 |

**Mount Pleasant
Meteorological Monitoring Results 2012**

| | | | | | | | |
|------------|-------|-------|-------|-------|-------|------|-------|
| 10/06/2012 | 5.03 | -1.91 | 15.15 | 34.48 | 99.40 | 0.2 | 291.8 |
| 11/06/2012 | 9.27 | -1.97 | 15.01 | 57.81 | 98.70 | 0.0 | 291.8 |
| 12/06/2012 | 10.77 | 7.38 | 13.09 | 84.30 | 97.10 | 1.8 | 293.6 |
| 13/06/2012 | 13.33 | 9.31 | 17.38 | 58.47 | 97.40 | 2.2 | 295.8 |
| 14/06/2012 | 6.83 | 9.51 | 15.31 | 73.43 | 96.90 | 0.6 | 296.4 |
| 15/06/2012 | 5.21 | 6.22 | 16.27 | 60.84 | 99.20 | 0.2 | 296.6 |
| 16/06/2012 | 11.48 | 1.71 | 21.21 | 37.37 | 98.90 | 0.2 | 296.8 |
| 17/06/2012 | 12.07 | 8.51 | 19.16 | 47.39 | 92.50 | 2.4 | 299.2 |
| 18/06/2012 | 14.20 | 7.55 | 17.12 | 42.48 | 86.80 | 0.0 | 299.2 |
| 19/06/2012 | 8.42 | 7.24 | 17.39 | 38.89 | 78.06 | 0.0 | 299.2 |
| 20/06/2012 | 11.70 | 4.58 | 18.16 | 44.48 | 82.70 | 0.0 | 299.2 |
| 21/06/2012 | 5.97 | 0.15 | 17.84 | 33.43 | 97.70 | 0.0 | 299.2 |
| 22/06/2012 | 12.10 | 1.21 | 18.84 | 34.15 | 92.90 | 0.0 | 299.2 |
| 23/06/2012 | 13.43 | 7.07 | 15.45 | 41.54 | 91.30 | 1.2 | 300.4 |
| 24/06/2012 | 9.01 | 3.05 | 14.54 | 44.15 | 87.70 | 0.0 | 300.4 |
| 25/06/2012 | 7.63 | -1.66 | 15.01 | 41.26 | 93.30 | 0.0 | 300.4 |
| 26/06/2012 | 8.70 | -0.54 | 18.26 | 35.68 | 95.40 | 0.0 | 300.4 |
| 27/06/2012 | 11.15 | -0.89 | 12.57 | 70.10 | 95.40 | 0.0 | 300.4 |
| 28/06/2012 | 12.08 | 7.38 | 14.99 | 62.00 | 96.20 | 0.0 | 300.4 |
| 29/06/2012 | 9.59 | 7.92 | 16.92 | 60.76 | 96.90 | 0.0 | 300.4 |
| 30/06/2012 | 5.99 | 8.15 | 16.07 | 69.26 | 99.40 | 0.2 | 300.6 |
| 1/07/2012 | 11.06 | 3.27 | 20.36 | 30.17 | 98.30 | 0.2 | 300.8 |
| 2/07/2012 | 14.41 | 4.94 | 15.84 | 32.21 | 86.50 | 0.0 | 300.8 |
| 3/07/2012 | 13.59 | 4.20 | 13.92 | 48.86 | 82.00 | 0.0 | 300.8 |
| 4/07/2012 | 7.93 | 0.50 | 15.08 | 37.08 | 93.00 | 0.0 | 300.8 |
| 5/07/2012 | 5.49 | -1.23 | 14.59 | 45.86 | 95.00 | 0.0 | 300.8 |
| 6/07/2012 | 11.08 | 4.90 | 14.84 | 51.52 | 96.80 | 1.0 | 301.8 |
| 7/07/2012 | 9.72 | 3.99 | 14.48 | 64.17 | 96.30 | 1.0 | 302.8 |
| 8/07/2012 | 7.63 | 3.30 | 15.68 | 46.04 | 96.90 | 0.6 | 303.4 |
| 9/07/2012 | 5.34 | 0.06 | 16.14 | 43.91 | 97.80 | 0.0 | 303.4 |
| 10/07/2012 | 9.04 | -0.39 | 17.88 | 43.35 | 97.70 | 0.0 | 303.4 |
| 11/07/2012 | 6.37 | 1.44 | 15.87 | 63.89 | 99.30 | 0.0 | 303.4 |
| 12/07/2012 | 14.94 | 9.60 | 17.86 | 63.04 | 96.00 | 14.6 | 318.0 |
| 13/07/2012 | 9.93 | 7.34 | 15.64 | 84.20 | 98.20 | 5.8 | 323.8 |
| 14/07/2012 | 9.85 | 8.99 | 17.80 | 80.90 | 97.60 | 37.6 | 361.4 |
| 15/07/2012 | 11.01 | 8.70 | 17.62 | 45.86 | 92.40 | 1.0 | 362.4 |
| 16/07/2012 | 14.20 | 4.23 | 14.15 | 45.55 | 83.40 | 0.0 | 362.4 |
| 17/07/2012 | 5.83 | 0.54 | 15.79 | 44.90 | 93.70 | 0.0 | 362.4 |
| 18/07/2012 | 6.78 | -0.34 | 18.74 | 34.84 | 98.10 | 0.0 | 362.4 |
| 19/07/2012 | 7.53 | 5.91 | 17.84 | 46.33 | 93.00 | 0.0 | 362.4 |
| 20/07/2012 | 8.60 | 0.63 | 15.37 | 42.16 | 98.60 | 0.0 | 362.4 |
| 21/07/2012 | 8.45 | -1.23 | 14.96 | 43.33 | 98.10 | 0.0 | 362.4 |
| 22/07/2012 | 13.69 | 3.78 | 15.35 | 53.86 | 92.20 | 0.0 | 362.4 |
| 23/07/2012 | 12.08 | 7.44 | 14.55 | 62.82 | 94.10 | 0.4 | 362.8 |
| 24/07/2012 | 8.27 | 6.02 | 13.05 | 73.35 | 97.40 | 2.6 | 365.4 |
| 25/07/2012 | 7.03 | 5.61 | 14.32 | 71.94 | 97.40 | 0.2 | 365.6 |
| 26/07/2012 | 4.78 | 2.05 | 16.88 | 53.32 | 99.60 | 0.4 | 366.0 |
| 27/07/2012 | 12.95 | 4.26 | 17.24 | 50.91 | 93.70 | 1.8 | 367.8 |
| 28/07/2012 | 12.20 | 5.76 | 16.34 | 37.11 | 89.80 | 0.0 | 367.8 |
| 29/07/2012 | 10.08 | 3.89 | 16.26 | 41.39 | 86.50 | 0.0 | 367.8 |
| 30/07/2012 | 7.92 | 1.69 | 16.84 | 39.72 | 89.90 | 0.0 | 367.8 |
| 31/07/2012 | 9.37 | 0.39 | 14.45 | 35.44 | 94.80 | 0.0 | 367.8 |
| 1/08/2012 | 7.38 | -1.18 | 14.60 | 45.33 | 91.30 | 0.0 | 367.8 |
| 2/08/2012 | 11.01 | -0.62 | 14.21 | 39.56 | 96.10 | 0.0 | 367.8 |

**Mount Pleasant
Meteorological Monitoring Results 2012**

| | | | | | | | |
|------------|-------|-------|-------|-------|-------|-----|-------|
| 3/08/2012 | 5.67 | -0.85 | 14.99 | 32.18 | 95.40 | 0.0 | 367.8 |
| 4/08/2012 | 13.46 | 1.62 | 17.80 | 25.76 | 82.20 | 0.0 | 367.8 |
| 5/08/2012 | 13.49 | 1.08 | 19.49 | 25.41 | 81.40 | 0.0 | 367.8 |
| 6/08/2012 | 12.76 | 0.50 | 20.60 | 21.91 | 82.00 | 0.0 | 367.8 |
| 7/08/2012 | 16.23 | 4.77 | 17.63 | 28.85 | 64.22 | 0.0 | 367.8 |
| 8/08/2012 | 7.55 | 1.62 | 16.85 | 26.22 | 77.92 | 0.0 | 367.8 |
| 9/08/2012 | 10.45 | -0.89 | 18.97 | 26.17 | 89.20 | 0.0 | 367.8 |
| 10/08/2012 | 18.69 | 4.95 | 17.09 | 29.16 | 63.97 | 0.0 | 367.8 |
| 11/08/2012 | 11.10 | 0.84 | 17.18 | 29.91 | 81.30 | 0.0 | 367.8 |
| 12/08/2012 | 14.22 | 4.16 | 16.34 | 43.22 | 79.61 | 0.0 | 367.8 |
| 13/08/2012 | 10.19 | 9.07 | 15.85 | 44.12 | 69.21 | 0.0 | 367.8 |
| 14/08/2012 | 5.24 | 4.21 | 16.12 | 45.75 | 88.80 | 0.0 | 367.8 |
| 15/08/2012 | 10.83 | 1.08 | 18.63 | 28.00 | 95.60 | 0.0 | 367.8 |
| 16/08/2012 | 14.89 | 5.32 | 21.58 | 23.99 | 70.19 | 0.0 | 367.8 |
| 17/08/2012 | 12.91 | 5.64 | 20.26 | 25.38 | 70.38 | 0.0 | 367.8 |
| 18/08/2012 | 21.14 | 3.11 | 20.61 | 19.68 | 78.60 | 0.2 | 368.0 |
| 19/08/2012 | 17.53 | 5.17 | 14.34 | 41.18 | 73.30 | 0.2 | 368.2 |
| 20/08/2012 | 18.34 | 3.98 | 18.12 | 29.59 | 85.20 | 0.0 | 368.2 |
| 21/08/2012 | 6.21 | 0.71 | 17.89 | 30.02 | 87.90 | 0.0 | 368.2 |
| 22/08/2012 | 11.17 | 0.69 | 22.33 | 27.17 | 84.60 | 0.0 | 368.2 |
| 23/08/2012 | 13.38 | 5.74 | 23.83 | 39.46 | 85.00 | 0.0 | 368.2 |
| 24/08/2012 | 23.66 | 14.06 | 28.12 | 25.03 | 91.10 | 6.6 | 374.8 |
| 25/08/2012 | - | 5.84 | 19.01 | 18.69 | 81.80 | 0.0 | 374.8 |
| 26/08/2012 | - | 6.15 | 19.48 | 30.88 | 63.09 | 0.0 | 374.8 |
| 27/08/2012 | - | 1.62 | 17.21 | 33.47 | 85.40 | 0.0 | 374.8 |
| 28/08/2012 | - | 0.50 | 18.47 | 39.53 | 89.20 | 0.0 | 374.8 |
| 29/08/2012 | - | - | - | - | - | - | 374.8 |
| 30/08/2012 | - | -0.15 | 23.12 | 28.46 | 97.20 | 0.0 | 374.8 |
| 31/08/2012 | - | 9.07 | 22.06 | 26.94 | 60.16 | 0.0 | 374.8 |
| 1/09/2012 | - | 2.97 | 17.51 | 23.99 | 67.78 | 0.0 | 374.8 |
| 2/09/2012 | - | - | - | - | - | - | 374.8 |
| 3/09/2012 | - | - | - | - | - | - | 374.8 |
| 4/09/2012 | - | - | - | - | - | - | 374.8 |
| 5/09/2012 | - | - | - | - | - | - | 374.8 |
| 6/09/2012 | 21.79 | 17.13 | 25.06 | 18.66 | 37.68 | 0.0 | 374.8 |
| 7/09/2012 | 21.91 | 15.16 | 25.67 | 23.42 | 47.46 | 0.0 | 374.8 |
| 8/09/2012 | 25.02 | 9.62 | 22.65 | 20.90 | 55.39 | 0.0 | 374.8 |
| 9/09/2012 | 15.77 | 8.33 | 19.08 | 32.58 | 58.08 | 0.0 | 374.8 |
| 10/09/2012 | 7.91 | 6.38 | 21.08 | 25.57 | 84.80 | 0.0 | 374.8 |
| 11/09/2012 | 8.04 | 0.90 | 24.35 | 23.02 | 93.00 | 0.0 | 374.8 |
| 12/09/2012 | 9.49 | 7.65 | 24.38 | 32.80 | 85.90 | 0.0 | 374.8 |
| 13/09/2012 | 13.51 | 7.90 | 26.73 | 25.12 | 96.20 | 0.0 | 374.8 |
| 14/09/2012 | 23.71 | 6.38 | 27.03 | 27.44 | 78.47 | 2.6 | 377.4 |
| 15/09/2012 | - | - | - | - | - | - | 377.4 |
| 16/09/2012 | 14.96 | 2.16 | 20.36 | 24.04 | 86.10 | 0.0 | 377.4 |
| 17/09/2012 | - | 3.14 | 23.31 | 28.62 | 97.20 | 0.0 | 377.4 |
| 18/09/2012 | 13.14 | 6.02 | 23.17 | 30.31 | 89.20 | 7.2 | 384.6 |
| 19/09/2012 | - | 6.83 | 23.10 | 31.48 | 96.90 | 4.8 | 389.4 |
| 20/09/2012 | 10.07 | 5.04 | 22.98 | 23.80 | 97.00 | 0.0 | 389.4 |
| 21/09/2012 | 6.45 | 5.61 | 25.07 | 25.35 | 90.50 | 0.0 | 389.4 |
| 22/09/2012 | - | 9.38 | 27.66 | 25.06 | 91.90 | 0.2 | 389.6 |
| 23/09/2012 | 9.46 | 6.46 | 24.40 | 20.53 | 88.90 | 0.0 | 389.6 |
| 24/09/2012 | 11.46 | 6.36 | 28.32 | 16.40 | 94.20 | 0.0 | 389.6 |
| 25/09/2012 | 12.45 | 9.98 | 23.48 | 17.25 | 63.55 | 0.0 | 389.6 |

**Mount Pleasant
Meteorological Monitoring Results 2012**

| | | | | | | | |
|------------|-------|-------|-------|-------|-------|-----|-------|
| 26/09/2012 | 14.56 | 2.63 | 22.53 | 31.45 | 82.60 | 0.0 | 389.6 |
| 27/09/2012 | - | 4.86 | 24.18 | 33.44 | 95.40 | 0.0 | 389.6 |
| 28/09/2012 | 11.35 | 4.69 | 27.77 | 26.24 | 97.30 | 0.0 | 389.6 |
| 29/09/2012 | 19.38 | 14.82 | 29.95 | 26.58 | 63.75 | 0.0 | 389.6 |
| 30/09/2012 | 19.00 | 9.53 | 22.94 | 31.96 | 95.10 | 9.0 | 398.6 |
| 1/10/2012 | 14.13 | 3.45 | 20.66 | 18.45 | 69.15 | 0.0 | 398.6 |
| 2/10/2012 | 9.27 | 2.13 | 21.20 | 25.98 | 86.00 | 0.0 | 398.6 |
| 3/10/2012 | 12.17 | 6.56 | 22.07 | 33.18 | 88.80 | 0.0 | 398.6 |
| 4/10/2012 | 9.05 | 2.56 | 27.49 | 9.24 | 95.40 | 0.0 | 398.6 |
| 5/10/2012 | - | - | - | - | - | - | 398.6 |
| 6/10/2012 | 17.14 | 8.19 | 33.95 | 12.28 | 83.50 | 0.0 | 398.6 |
| 7/10/2012 | 14.55 | 12.57 | 26.81 | 43.26 | 92.60 | 0.0 | 398.6 |
| 8/10/2012 | 15.57 | 9.84 | 24.32 | 17.65 | 92.20 | 0.0 | 398.6 |
| 9/10/2012 | 10.59 | 7.17 | 22.07 | 28.70 | 82.40 | 0.0 | 398.6 |
| 10/10/2012 | 12.81 | 4.84 | 24.40 | 20.00 | 92.30 | 0.0 | 398.6 |
| 11/10/2012 | 10.14 | 3.99 | 27.80 | 20.50 | 92.20 | 0.0 | 398.6 |
| 12/10/2012 | 12.60 | 6.59 | 16.65 | 50.26 | 90.80 | 3.4 | 402.0 |
| 13/10/2012 | 18.11 | 4.17 | 16.78 | 43.52 | 84.60 | 1.8 | 403.8 |
| 14/10/2012 | 11.24 | 3.35 | 22.11 | 23.67 | 91.70 | 0.0 | 403.8 |
| 15/10/2012 | 10.34 | 5.47 | 22.21 | 27.88 | 90.80 | 0.0 | 403.8 |
| 16/10/2012 | 9.40 | 3.72 | 27.62 | 13.44 | 94.00 | 0.0 | 403.8 |
| 17/10/2012 | 11.76 | 9.44 | 31.43 | 10.45 | 61.41 | 0.0 | 403.8 |
| 18/10/2012 | 17.33 | 12.68 | 33.66 | 9.43 | 81.70 | 0.0 | 403.8 |
| 19/10/2012 | 11.76 | 13.02 | 27.14 | 31.64 | 86.70 | 0.0 | 403.8 |
| 20/10/2012 | 12.87 | 10.35 | 33.65 | 16.73 | 95.20 | 0.0 | 403.8 |
| 21/10/2012 | 17.82 | 13.99 | 35.44 | 5.16 | 89.90 | 0.0 | 403.8 |
| 22/10/2012 | 11.12 | 10.28 | 25.87 | 27.90 | 97.40 | 0.0 | 403.8 |
| 23/10/2012 | 21.38 | 8.43 | 26.98 | 11.71 | 84.00 | 1.8 | 405.6 |
| 24/10/2012 | 14.63 | 6.09 | 21.39 | 28.62 | 81.90 | 0.0 | 405.6 |
| 25/10/2012 | 5.74 | 4.26 | 27.18 | 8.79 | 88.70 | 0.0 | 405.6 |
| 26/10/2012 | 13.59 | 4.90 | 32.85 | 12.25 | 86.60 | 0.0 | 405.6 |
| 27/10/2012 | 13.18 | 14.68 | 30.71 | 13.98 | 61.43 | 0.0 | 405.6 |
| 28/10/2012 | - | 10.55 | 25.09 | 16.36 | 65.93 | 0.0 | 405.6 |
| 29/10/2012 | - | - | - | - | - | - | 405.6 |
| 30/10/2012 | 14.75 | 4.83 | 25.03 | 27.54 | 90.60 | 0.0 | 405.6 |
| 31/10/2012 | 12.24 | 11.81 | 26.79 | 30.22 | 81.10 | 0.0 | 405.6 |
| 1/11/2012 | 9.65 | 9.88 | 32.13 | 19.35 | 84.80 | 0.0 | 405.6 |
| 2/11/2012 | - | -0.90 | 35.64 | 11.78 | 69.78 | 0.0 | 405.6 |
| 3/11/2012 | 12.86 | 7.44 | 23.90 | 28.63 | 73.22 | 0.0 | 405.6 |
| 4/11/2012 | 15.85 | 9.86 | 23.55 | 34.89 | 83.60 | 0.0 | 405.6 |
| 5/11/2012 | 8.60 | 10.56 | 29.98 | 23.97 | 87.80 | 0.0 | 405.6 |
| 6/11/2012 | 9.65 | 11.45 | 33.24 | 20.10 | 93.50 | 0.0 | 405.6 |
| 7/11/2012 | 12.11 | 16.37 | 36.47 | 12.48 | 72.02 | 0.0 | 405.6 |
| 8/11/2012 | 20.37 | 18.77 | 32.77 | 25.26 | 70.47 | 0.0 | 405.6 |
| 9/11/2012 | - | 16.10 | 29.98 | 34.48 | 93.60 | 5.2 | 410.8 |
| 10/11/2012 | 9.96 | 16.01 | 30.52 | 23.77 | 95.70 | 0.0 | 410.8 |
| 11/11/2012 | 16.05 | 13.07 | 20.00 | 56.37 | 83.40 | 0.0 | 410.8 |
| 12/11/2012 | 14.54 | 10.34 | 25.11 | 25.60 | 89.00 | 0.0 | 410.8 |
| 13/11/2012 | 8.25 | 6.31 | 30.22 | 13.94 | 90.50 | 0.0 | 410.8 |
| 14/11/2012 | 16.92 | 12.98 | 36.30 | 13.67 | 87.90 | 0.8 | 411.6 |
| 15/11/2012 | 13.82 | 12.80 | 27.33 | 37.77 | 91.40 | 0.0 | 411.6 |
| 17/11/2012 | 15.67 | 13.94 | 34.87 | 6.56 | 92.50 | 2.6 | 414.2 |
| 18/11/2012 | 17.90 | 12.49 | 23.04 | 49.35 | 93.70 | 0.2 | 414.4 |
| 19/11/2012 | 12.87 | 10.56 | 30.45 | 15.06 | 93.00 | 0.0 | 414.4 |

**Mount Pleasant
Meteorological Monitoring Results 2012**

| | | | | | | | |
|------------|-------|-------|-------|-------|--------|------|-------|
| 20/11/2012 | 16.23 | 10.23 | 26.61 | 19.89 | 80.60 | 0.2 | 414.6 |
| 21/11/2012 | 14.18 | 10.88 | 25.22 | 38.41 | 88.20 | 0.0 | 414.6 |
| 22/11/2012 | 9.99 | 5.96 | 32.08 | 16.93 | 93.70 | 0.0 | 414.6 |
| 23/11/2012 | 16.52 | 12.88 | 25.38 | 43.72 | 81.40 | 0.0 | 414.6 |
| 24/11/2012 | 14.74 | 12.87 | 24.09 | 51.64 | 84.00 | 0.0 | 414.6 |
| 25/11/2012 | 15.07 | 12.05 | 32.39 | 33.70 | 93.00 | 0.0 | 414.6 |
| 26/11/2012 | 9.31 | 16.83 | 36.23 | 18.26 | 83.20 | 1.4 | 416.0 |
| 27/11/2012 | - | 18.20 | 37.18 | 20.37 | 94.40 | 32.8 | 448.8 |
| 28/11/2012 | 14.50 | 16.79 | 32.59 | 35.29 | 92.20 | 12.2 | 461.0 |
| 29/11/2012 | 10.96 | 16.52 | 26.70 | 60.33 | 94.20 | 0.2 | 461.2 |
| 30/11/2012 | 6.87 | 16.89 | 33.68 | 31.18 | 94.70 | 0.0 | 461.2 |
| 1/12/2012 | 11.07 | 17.66 | 39.49 | 19.92 | 93.90 | 0.0 | 461.2 |
| 2/12/2012 | 12.26 | 22.14 | 40.31 | 18.73 | 79.28 | 0.0 | 461.2 |
| 3/12/2012 | - | 17.90 | 33.24 | 39.71 | 88.40 | 8.6 | 469.8 |
| 4/12/2012 | - | 16.96 | 28.11 | 53.69 | 91.40 | 0.2 | 470.0 |
| 5/12/2012 | 16.42 | 13.22 | 29.88 | 14.18 | 100.00 | 0.0 | 470.0 |
| 6/12/2012 | 17.93 | 10.71 | 26.31 | 18.06 | 53.60 | 0.0 | 470.0 |
| 7/12/2012 | 16.62 | 7.34 | 28.48 | 17.34 | 74.25 | 0.0 | 470.0 |
| 8/12/2012 | 12.32 | 12.67 | 26.30 | 43.29 | 83.90 | 0.0 | 470.0 |
| 9/12/2012 | 11.93 | 14.22 | 31.98 | 27.31 | 89.80 | 0.0 | 470.0 |
| 10/12/2012 | 17.43 | 14.31 | 35.48 | 24.72 | 92.40 | 2.4 | 472.4 |
| 11/12/2012 | 12.15 | 13.21 | 19.22 | 69.29 | 93.90 | 0.4 | 472.8 |
| 12/12/2012 | 12.02 | 12.80 | 21.14 | 68.04 | 95.20 | 0.8 | 473.6 |
| 13/12/2012 | - | 14.49 | 28.75 | 29.55 | 95.90 | 0.0 | 473.6 |
| 14/12/2012 | 10.31 | 9.78 | 30.12 | 23.94 | 95.20 | 0.0 | 473.6 |
| 15/12/2012 | 8.65 | 11.51 | 34.70 | 15.16 | 89.40 | 0.0 | 473.6 |
| 16/12/2012 | 13.69 | 16.24 | 34.90 | 19.24 | 83.10 | 0.0 | 473.6 |
| 17/12/2012 | - | - | - | - | - | - | 473.6 |
| 18/12/2012 | 14.99 | 14.55 | 37.58 | 14.99 | 81.60 | 0.0 | 473.6 |
| 19/12/2012 | 12.03 | 14.68 | 33.99 | 17.54 | 85.40 | 0.0 | 473.6 |
| 20/12/2012 | 11.60 | 18.17 | 35.62 | 30.94 | 88.50 | 0.0 | 473.6 |
| 21/12/2012 | 17.33 | 18.81 | 34.49 | 26.62 | 82.70 | 0.0 | 473.6 |
| 22/12/2012 | 16.46 | 17.33 | 26.45 | 49.28 | 79.39 | 0.0 | 473.6 |
| 23/12/2012 | 12.31 | 16.04 | 33.00 | 35.94 | 90.80 | 0.0 | 473.6 |
| 24/12/2012 | - | 18.75 | 36.60 | 19.38 | 91.80 | 10.4 | 484.0 |
| 25/12/2012 | 13.63 | 18.71 | 36.77 | 24.45 | 90.70 | 4.6 | 488.6 |
| 26/12/2012 | - | 14.21 | 28.42 | 59.03 | 95.00 | 24.2 | 512.8 |
| 27/12/2012 | 13.79 | 14.12 | 20.34 | 58.82 | 95.40 | 0.2 | 513.0 |
| 28/12/2012 | 9.17 | 11.69 | 27.73 | 33.73 | 85.00 | 0.0 | 513.0 |
| 29/12/2012 | - | 13.65 | 33.20 | 33.19 | 92.80 | 5.8 | 518.8 |
| 30/12/2012 | 13.29 | 14.92 | 28.62 | 27.37 | 77.98 | 0.0 | 518.8 |
| 31/12/2012 | 13.96 | 15.02 | 28.21 | 40.74 | 86.90 | 0.0 | 518.8 |

- denotes lack or loss of meteorological data on this day.

**Mount Pleasant
Depositional Dust Monitoring Results 2012**

| Station | Date | Insoluble Solids (g.m ² .month) | Ash Content (g.m ² .month) | Comment |
|---------|------------|--|---------------------------------------|-------------------------------------|
| D1 | 19/01/2012 | 1.5 | 1.0 | Insects |
| D1 | 20/02/2012 | 1.4 | 0.7 | Dust, Insects |
| D1 | 23/03/2012 | 0.8 | 0.4 | Dust, Insects |
| D1 | 20/04/2012 | 0.9 | 0.7 | Dust, Insects |
| D1 | 31/05/2012 | 0.8 | 0.4 | Dust, Insects |
| D1 | 20/06/2012 | 0.7 | 0.5 | Insects |
| D1 | 19/07/2012 | 0.7 | 0.5 | Insects |
| D1 | 20/08/2012 | 1.1 | 0.8 | Insects, Vegetation |
| D1 | 21/09/2012 | 1.2 | 0.7 | Dust, Insects |
| D1 | 23/10/2012 | 3.0 | 1.1 | Insects |
| D1 | 22/11/2012 | 2.0 | 1.4 | Insects |
| D1 | 20/12/2012 | 2.1 | 1.3 | Insects |
| D3 | 19/01/2012 | 3.6 | 2.5 | Insects, Bird Droppings |
| D3 | 20/02/2012 | 1.5 | 1.0 | Dust, Insects |
| D3 | 22/03/2012 | 1.9 | 1.1 | Insects |
| D3 | 20/04/2012 | 1.4 | 1.0 | Dust, Insects |
| D3 | 31/05/2012 | 1.4 | 0.8 | Dust, Insects |
| D3 | 20/06/2012 | 1.2 | 0.9 | Insects, Dust, Bird droppings |
| D3 | 19/07/2012 | 1.0 | 0.7 | Dust, Insects |
| D3 | 20/08/2012 | 1.9 | 1.4 | Insects, Bird Droppings |
| D3 | 21/09/2012 | 4.6 | 2.4 | Dust, Insects |
| D3 | 23/10/2012 | 2.1 | 1.5 | Insects, Bird droppings |
| D3 | 22/11/2012 | 4.0 | 2.6 | Insects, Vegetation, Bird droppings |
| D3 | 20/12/2012 | 1.9 | 1.2 | Insects, Vegetation |
| D4 | 19/01/2012 | 1.4 | 0.5 | Insects |
| D4 | 20/02/2012 | 2.0 | 1.3 | Dust, Insects |
| D4 | 22/03/2012 | 1.5 | 0.9 | Insects |
| D4 | 20/04/2012 | 3.0 | 1.7 | Insects, Bird Droppings |
| D4 | 31/05/2012 | 1.1 | 0.7 | Dust, Insects |
| D4 | 20/06/2012 | 0.6 | 0.5 | Insects |
| D4 | 19/07/2012 | 1.5 | 1.0 | Insects, Bird Droppings |
| D4 | 20/08/2012 | 2.3 | 1.2 | Insects, Bird Droppings |

**Mount Pleasant
Depositional Dust Monitoring Results 2012**

| | | | | |
|----|------------|------|------|--|
| D4 | 21/09/2012 | 1.6 | 0.8 | Dust, Insects |
| D4 | 23/10/2012 | 4.9 | 1.5 | Insects |
| D4 | 22/11/2012 | 2.1 | 1.4 | Insects |
| D4 | 20/12/2012 | 0.9 | 0.6 | Insects |
| D5 | 19/01/2012 | 3.6 | 2.2 | Insects, Bird Droppings |
| D5 | 20/02/2012 | 2.5 | 1.0 | Dust, Insects |
| D5 | 22/03/2012 | 3.6 | 2.0 | Insects, Bird Droppings |
| D5 | 20/04/2012 | 6.1 | 1.8 | Insects, Bird Droppings, Dust |
| D5 | 31/05/2012 | 2.2 | 1.4 | Dust, Insects |
| D5 | 20/06/2012 | 1.8 | 1.1 | Insects |
| D5 | 19/07/2012 | 0.6 | 0.4 | Insects |
| D5 | 20/08/2012 | 2.3 | 1.7 | Insects |
| D5 | 21/09/2012 | 3.3 | 1.5 | Dust, Insects |
| D5 | 23/10/2012 | 3.9 | 2.6 | Insects, Bird Droppings, Vegetation |
| D5 | 22/11/2012 | 5.3 | 3.2 | Insects, Bird Droppings |
| D5 | 20/12/2012 | 11.6 | 3.9 | Insects, Bird Droppings |
| D6 | 19/01/2012 | 2.7 | 1.8 | Insects |
| D6 | 20/02/2012 | 0.9 | 0.6 | Dust, Insects |
| D6 | 22/03/2012 | 1.4 | 0.9 | Insects, Bird Droppings |
| D6 | 20/04/2012 | 1.6 | 1.0 | Dust, Insects, Bird Droppings |
| D6 | 31/05/2012 | 2.0 | 1.4 | Dust, Insects, Bird Droppings |
| D6 | 20/06/2012 | 7.3 | 2.8 | Insects, Bird Droppings |
| D6 | 19/07/2012 | 1.0 | 0.6 | Insects |
| D6 | 20/08/2012 | 3.9 | 2.1 | Insects, Bird Droppings |
| D6 | 21/09/2012 | 0.8 | 0.5 | Dust, Insects |
| D6 | 23/10/2012 | 3.0 | 1.7 | Insects, Bird Droppings, Vegetation |
| D6 | 22/11/2012 | 4.5 | 2.6 | Insects, Bird droppings, Plastic, Vegetation |
| D6 | 20/12/2012 | 2.7 | 1.7 | Insects, Bird Droppings |
| D7 | 19/01/2012 | 9.9 | 8.3 | Insects, Bird Droppings |
| D7 | 20/02/2012 | 23.0 | 19.0 | Dust, Insects |
| D7 | 22/03/2012 | 11.8 | 9.0 | Insects, Bird Droppings |
| D7 | 20/04/2012 | 9.7 | 7.1 | Bird Droppings, Insects, Dust |
| D7 | 31/05/2012 | 13.7 | 10.5 | Dust, Insects |

**Mount Pleasant
Depositional Dust Monitoring Results 2012**

| | | | | |
|-----|------------|------|------|-------------------------------------|
| D7 | 20/06/2012 | 20.3 | 17.1 | Dust, Insects |
| D7 | 19/07/2012 | 7.1 | 5.1 | Bird Droppings, Insects, Dust |
| D7 | 20/08/2012 | 10.6 | 7.8 | Insects, Vegetation, Bird Droppings |
| D7 | 21/09/2012 | 12.7 | 8.8 | Dust, Insects |
| D7 | 23/10/2012 | 15.4 | 11.8 | Bird Droppings, Insects, Dust |
| D7 | 22/11/2012 | 10.9 | 7.3 | Insects, Birds Droppings |
| D7 | 20/12/2012 | 11.2 | 8.7 | Dust, Insects |
| D8 | 19/01/2012 | 3.8 | 2.8 | Insects |
| D8 | 20/02/2012 | 3.4 | 1.4 | Dust, Insects |
| D8 | 22/03/2012 | 2.7 | 1.8 | Dust, Insects |
| D8 | 20/04/2012 | 6.2 | 2.8 | Dust, Insects, Bird Droppings |
| D8 | 31/05/2012 | 3.0 | 1.5 | Dust, Insects, Bird Droppings |
| D8 | 20/06/2012 | 8.5 | 3.0 | Insects, Bird Droppings |
| D8 | 19/07/2012 | 1.7 | 1.1 | Insects, Vegetation, Bird Droppings |
| D8 | 20/08/2012 | 4.6 | 2.8 | Insects, Bird Droppings |
| D8 | 21/09/2012 | 7.7 | 2.5 | Dust, Insects, Bird Droppings |
| D8 | 23/10/2012 | 3.1 | 2.3 | Insects |
| D8 | 22/11/2012 | 4.4 | 3.3 | Insects, Vegetation |
| D8 | 20/12/2012 | 3.6 | 2.5 | Insects |
| D9 | 19/01/2012 | 1.9 | 1.1 | Insects |
| D9 | 20/02/2012 | 1.4 | 0.7 | Dust, Insects |
| D9 | 22/03/2012 | 1.0 | 0.5 | Dust, Insects |
| D9 | 20/04/2012 | 1.7 | 1.2 | Dust, Insects |
| D9 | 31/05/2012 | 0.8 | 0.6 | Dust, Insects |
| D9 | 20/06/2012 | 1.0 | 0.8 | Insects |
| D9 | 19/07/2012 | 0.8 | 0.6 | Insects |
| D9 | 20/08/2012 | 1.0 | 0.7 | Insects |
| D9 | 21/09/2012 | 0.8 | 0.5 | Dust, Insects |
| D9 | 23/10/2012 | 1.7 | 1.0 | Insects |
| D9 | 22/11/2012 | 1.5 | 1.1 | Insects |
| D9 | 20/12/2012 | 1.6 | 1.0 | Insects |
| D10 | 19/01/2012 | 4.8 | 1.9 | Insects, Bird Droppings |
| D10 | 20/02/2012 | 2.9 | 1.3 | Dust, Insects |

**Mount Pleasant
Depositional Dust Monitoring Results 2012**

| | | | | |
|-----|------------|-----|-----|-------------------------------------|
| D10 | 22/02/2012 | 1.6 | 1.0 | Insects |
| D10 | 20/04/2012 | 0.8 | 0.7 | Dust, Insects |
| D10 | 31/05/2012 | 1.3 | 0.8 | Dust, Insects |
| D10 | 20/06/2012 | 3.5 | 1.6 | Insects, Vegetation, Bird Droppings |
| D10 | 19/07/2012 | 9.2 | 2.4 | Insects, Vegetation, Bird Droppings |
| D10 | 20/08/2012 | 6c | 2.6 | Insects, Vegetation, Bird Droppings |
| D10 | 21/09/2012 | 8.5 | 1.8 | Dust, Insects, Bird Droppings |
| D10 | 23/10/2012 | 4c | 1.7 | Insects, Bird Droppings |
| D10 | 22/11/2012 | 6.9 | 1.6 | Insects, Bird Droppings |
| D10 | 20/12/2012 | 8.8 | 1.9 | Insects, Vegetation, Bird Droppings |
| D11 | 19/01/2012 | 2.5 | 1.3 | Insects |
| D11 | 20/02/2012 | 1.0 | 0.7 | Dust, Insects |
| D11 | 23/03/2012 | 1.9 | 0.9 | Insects |
| D11 | 20/04/2012 | 1.2 | 0.9 | Dust, Insects |
| D11 | 31/05/2012 | 0.9 | 0.7 | Dust, Insects |
| D11 | 20/06/2012 | 2.8 | 1.5 | Insects, Bird Droppings |
| D11 | 19/07/2012 | 0.9 | 0.5 | Insects |
| D11 | 20/08/2012 | 2.6 | 1.4 | Insects, Bird Droppings |
| D11 | 21/09/2012 | 0.9 | 0.6 | Dust, Insects |
| D11 | 23/10/2012 | 3.7 | 2.0 | Insects, Bird Droppings |
| D11 | 22/11/2012 | 3.3 | 1.8 | Insects, Bird Droppings |
| D11 | 20/12/2012 | 2.8 | 1.6 | Insects |
| D12 | 19/01/2012 | 0.9 | 0.7 | Insects |
| D12 | 20/02/2012 | 1.1 | 0.6 | Dust, Insects |
| D12 | 22/03/2012 | 0.9 | 0.4 | Insects |
| D12 | 20/04/2012 | 1.1 | 0.8 | Dust, Insects |
| D12 | 31/05/2012 | 0.5 | 0.4 | Dust, Insects |
| D12 | 20/06/2012 | 5.0 | 1.0 | Insects, Vegetation |
| D12 | 19/07/2012 | 0.4 | 0.2 | Insects |
| D12 | 20/08/2012 | 0.7 | 0.6 | Insects, Vegetation |
| D12 | 21/09/2012 | 1.4 | 0.5 | Dust, Insects |
| D12 | 23/10/2012 | 3.2 | 1.8 | Insects |
| D12 | 22/11/2012 | 1.0 | 0.7 | Insects, Vegetation |

**Mount Pleasant
Depositional Dust Monitoring Results 2012**

| | | | | |
|-----|------------|-----|-----|-------------------------------------|
| D12 | 20/12/2012 | 0.9 | 0.6 | Insects |
| D13 | 19/01/2012 | 1.1 | 0.6 | Insects |
| D13 | 20/02/2012 | 1.0 | 0.4 | Dust, Insects |
| D13 | 22/03/2012 | 3.2 | 1.4 | Insects, Bird Droppings |
| D13 | 20/04/2012 | 1.0 | 0.7 | Dust, Insects |
| D13 | 31/05/2012 | 1.7 | 0.9 | Dust, Insects |
| D13 | 20/06/2012 | 2.3 | 0.8 | Insects, Bird Droppings |
| D13 | 19/07/2012 | 1.4 | 1.0 | Insects |
| D13 | 20/08/2012 | 3.2 | 1.7 | Insects, Bird Droppings |
| D13 | 21/09/2012 | 3.0 | 1.4 | Dust, Insects |
| D13 | 23/10/2012 | 2.8 | 1.4 | Insects, Vegetation, Bird Droppings |
| D13 | 22/11/2012 | 4.3 | 1.5 | Insects, Bird Droppings |
| D13 | 20/12/2012 | 1.5 | 1.0 | Insects, Vegetation |
| D14 | 19/01/2012 | 3.7 | 2.6 | Insects |
| D14 | 20/02/2012 | 2.8 | 1.7 | Dust, Insects |
| D14 | 22/03/2012 | 2.9 | 1.8 | Insects |
| D14 | 20/04/2012 | 2.7 | 2.1 | Insects |
| D14 | 31/05/2012 | 1.5 | 1.0 | Dust, Insects |
| D14 | 20/06/2012 | 1.6 | 1.0 | Insects |
| D14 | 19/07/2012 | 0.8 | 0.5 | Insects, Vegetation |
| D14 | 20/08/2012 | 1.1 | 0.8 | Insects |
| D14 | 21/09/2012 | 1.6 | 1.0 | Dust, Insects, Bird Droppings |
| D14 | 23/10/2012 | 3.3 | 2.3 | Insects, Vegetation |
| D14 | 22/11/2012 | 3.8 | 2.7 | Insects, Vegetation |
| D14 | 20/12/2012 | 3.0 | 1.9 | Insects |

ALS Water Resources Group NATIONAL

HYWROSEV69 01/12/2012

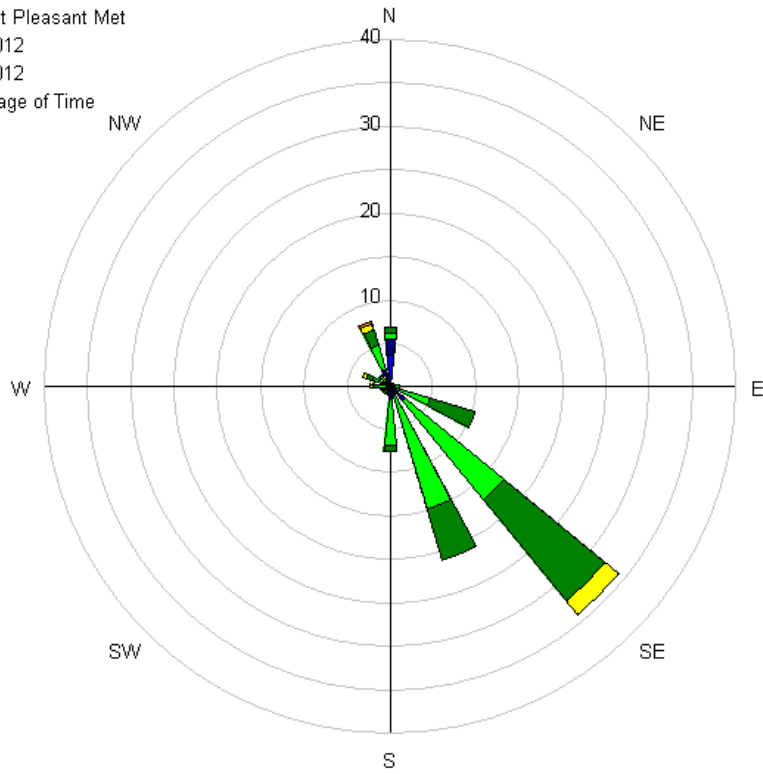
Site 5CAMPTLE Mt Pleasant Met

Start Time 00:00_01/01/2012

End Time 00:00_01/02/2012

Wind Direction as Percentage of Time

- 0-0.5 m/s
- 0.5-1.0 m/s
- 1.0-3.0 m/s
- 3.0-5.0 m/s
- 5.0-7.0 m/s
- 7.0-10.0 m/s
- >10.0 m/s



ALS Water Resources Group NATIONAL

HYWROSEV69 01/23/11/2012

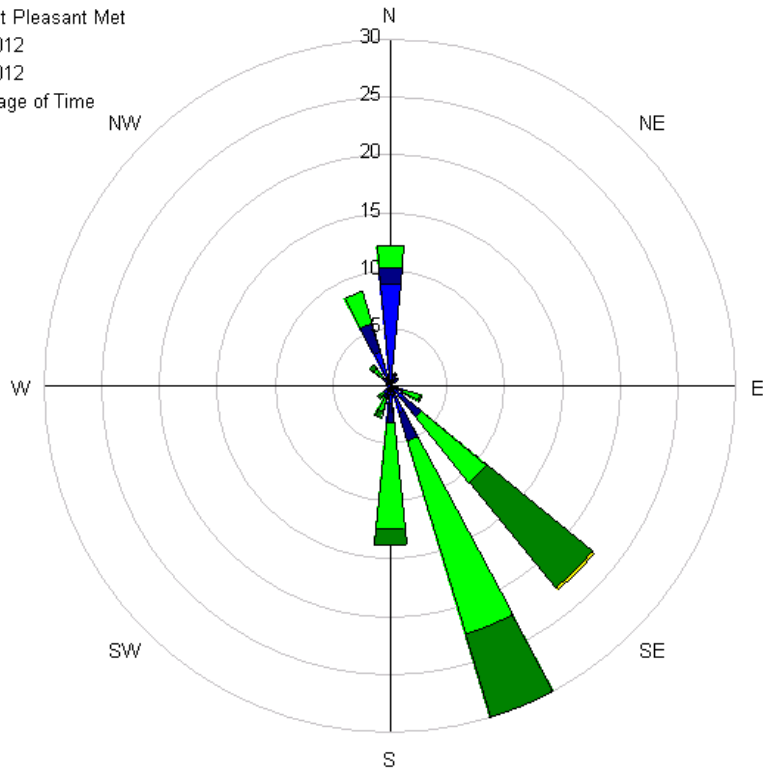
Site 5CAMPTLE Mt Pleasant Met

Start Time 00:00_01/02/2012

End Time 00:00_01/03/2012

Wind Direction as Percentage of Time

- 0-0.5 m/s
- 0.5-1.0 m/s
- 1.0-3.0 m/s
- 3.0-5.0 m/s
- 5.0-7.0 m/s
- 7.0-10.0 m/s
- >10.0 m/s



ALS Water Resources Group NATIONAL

HYWROSEV69 01/01/2012

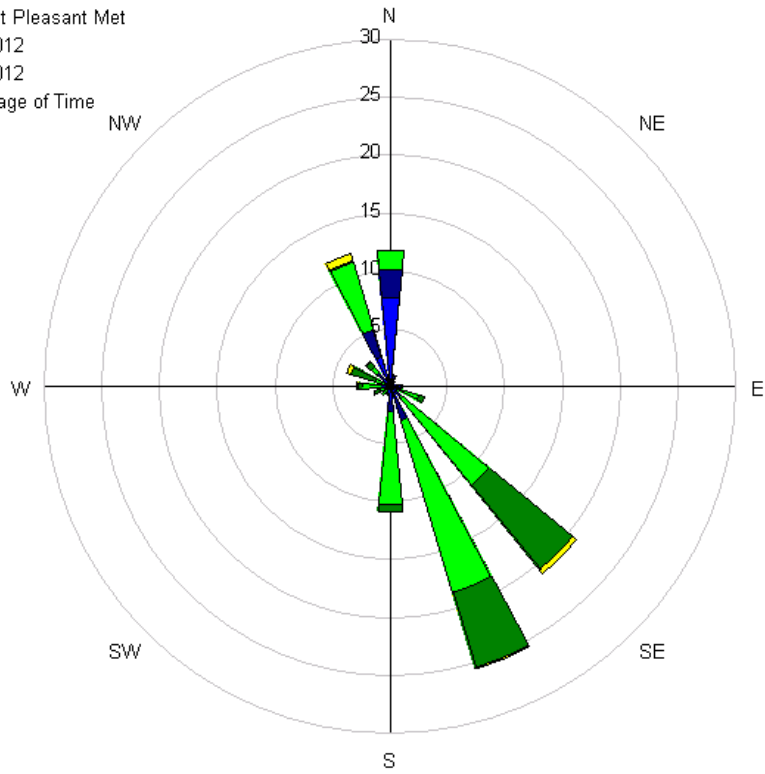
Site 5CAMTPLE Mt Pleasant Met

Start Time 00:00_01/03/2012

End Time 00:00_01/04/2012

Wind Direction as Percentage of Time

- 0-0.5 m/s
- 0.5-1.0 m/s
- 1.0-3.0 m/s
- 3.0-5.0 m/s
- 5.0-7.0 m/s
- 7.0-10.0 m/s
- >10.0 m/s

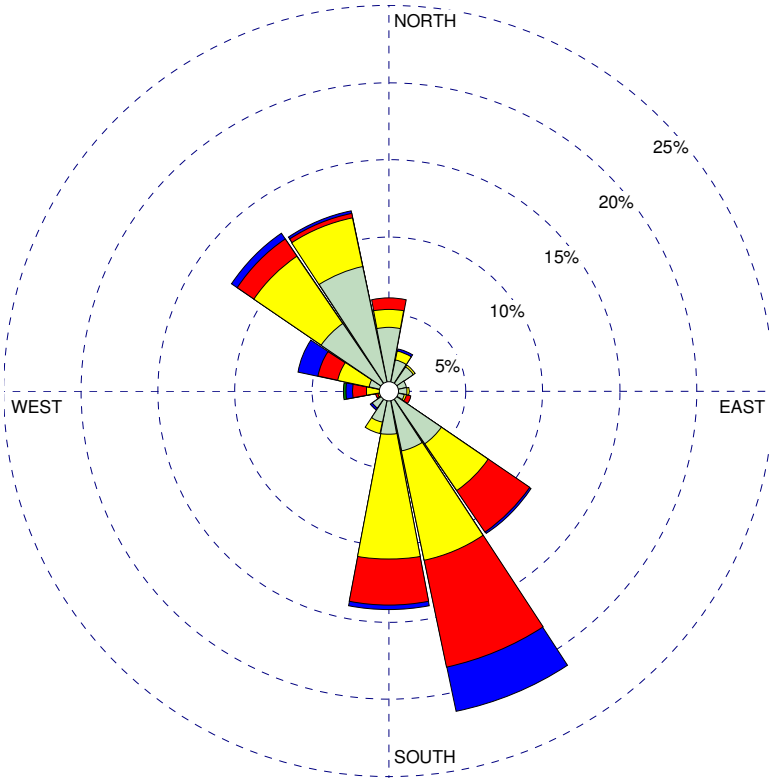


WIND ROSE PLOT:

**Mt Pleasant Met Data
April 2012 (00 to 23)**

DISPLAY:

**Wind Speed
Direction (blowing from)**



WIND SPEED
(m/s)

- >= 11.1
- 8.8 - 11.1
- 5.7 - 8.8
- 3.6 - 5.7
- 2.1 - 3.6
- 0.5 - 2.1

Calms: 0.29%

COMMENTS:

Figure 1

DATA PERIOD:

**Start Date: 2/04/2012 - 00:00
End Date: 30/04/2012 - 23:00**

COMPANY NAME:

AECOM

MODELER:

Ralph Brown



CALM WINDS:

0.29%

TOTAL COUNT:

680 hrs.

AVG. WIND SPEED:

2.73 m/s

DATE:

4/05/2012

PROJECT NO.:

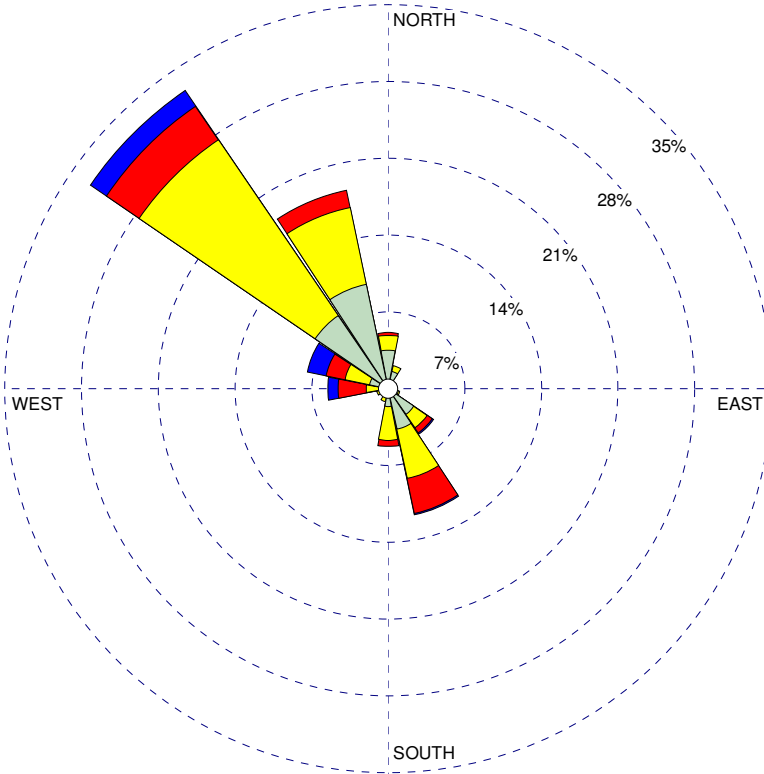
60221863

WIND ROSE PLOT:

Mt Pleasant Met Station
May 2012 (00:00 to 23:00)

DISPLAY:

Wind Speed
Direction (blowing from)



WIND SPEED
(m/s)

- >= 11.1
- 8.8 - 11.1
- 5.7 - 8.8
- 3.6 - 5.7
- 2.1 - 3.6
- 0.5 - 2.1

Calms: 0.27%

COMMENTS:

Figure 1

DATA PERIOD:

Start Date: 1/05/2012 - 00:00
End Date: 31/05/2012 - 23:00

COMPANY NAME:

AECOM

MODELER:

Ralph Brown



CALM WINDS:

0.27%

TOTAL COUNT:

743 hrs.

AVG. WIND SPEED:

2.64 m/s

DATE:

8/06/2012

PROJECT NO.:

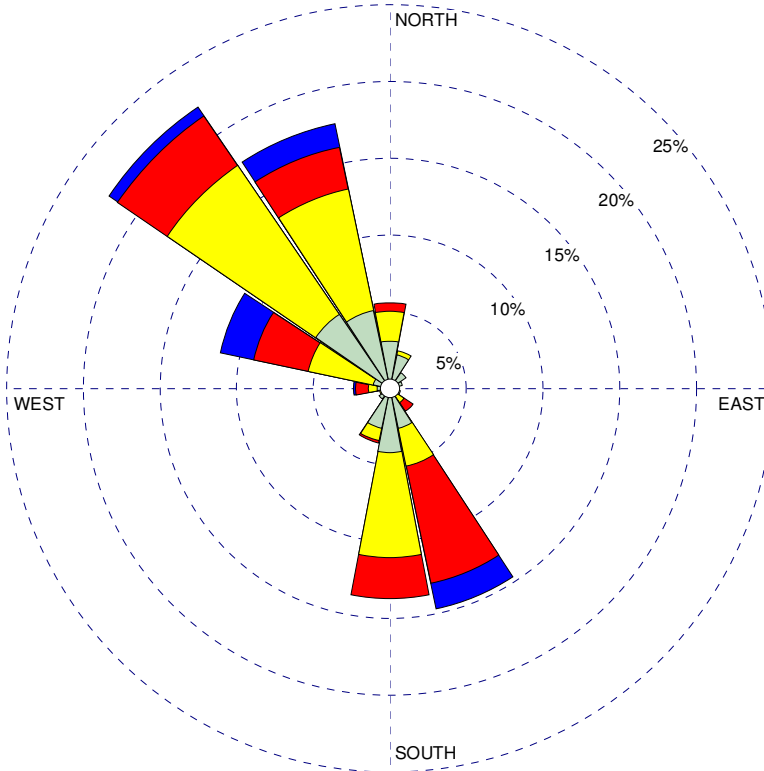
60221863

WIND ROSE PLOT:

Mt Pleasant Met Station
June 2012 (00:00 to 23:00)

DISPLAY:

Wind Speed
Direction (blowing from)



WIND SPEED
(m/s)

- >= 11.1
- 8.8 - 11.1
- 5.7 - 8.8
- 3.6 - 5.7
- 2.1 - 3.6
- 0.5 - 2.1

Calms: 0.28%

COMMENTS:

Figure 1

DATA PERIOD:

Start Date: 1/06/2012 - 00:00
End Date: 30/06/2012 - 23:00

COMPANY NAME:

AECOM

MODELER:

Ralph Brown



CALM WINDS:

0.28%

TOTAL COUNT:

718 hrs.

AVG. WIND SPEED:

2.96 m/s

DATE:

9/07/2012

PROJECT NO.:

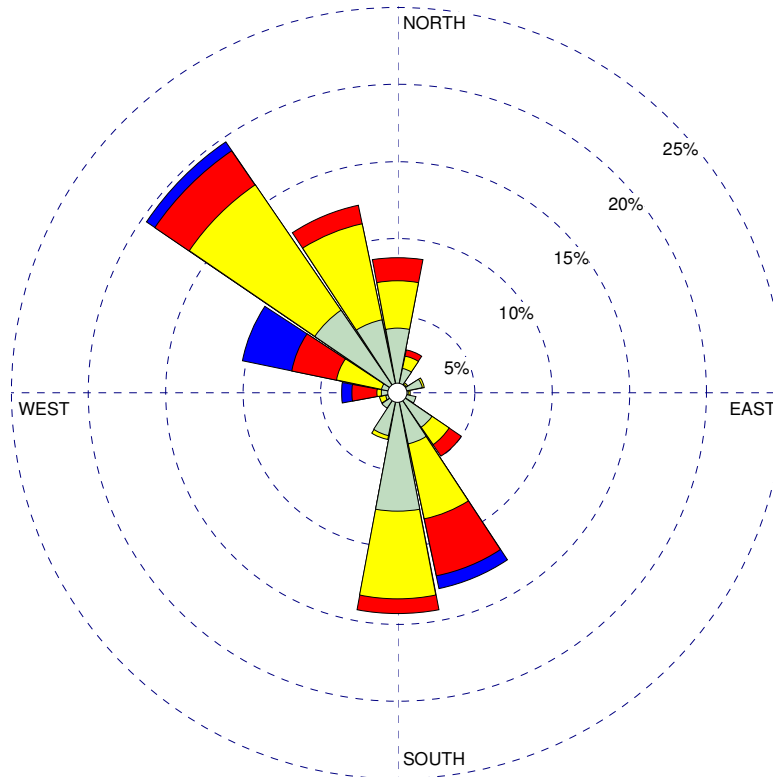
60221863

WIND ROSE PLOT:

Mt Pleasant Met Station
July 2012 (00:00 to 23:00)

DISPLAY:

Wind Speed
Direction (blowing from)



WIND SPEED
(m/s)

- >= 11.1
 - 8.8 - 11.1
 - 5.7 - 8.8
 - 3.6 - 5.7
 - 2.1 - 3.6
 - 0.5 - 2.1
- Calms: 0.27%

COMMENTS:

Figure 1

DATA PERIOD:

Start Date: 1/07/2012 - 00:00
End Date: 31/07/2012 - 23:00

COMPANY NAME:

AECOM

MODELER:

Ralph Brown



CALM WINDS:

0.27%

TOTAL COUNT:

743 hrs.

AVG. WIND SPEED:

2.58 m/s

DATE:

8/08/2012

PROJECT NO.:

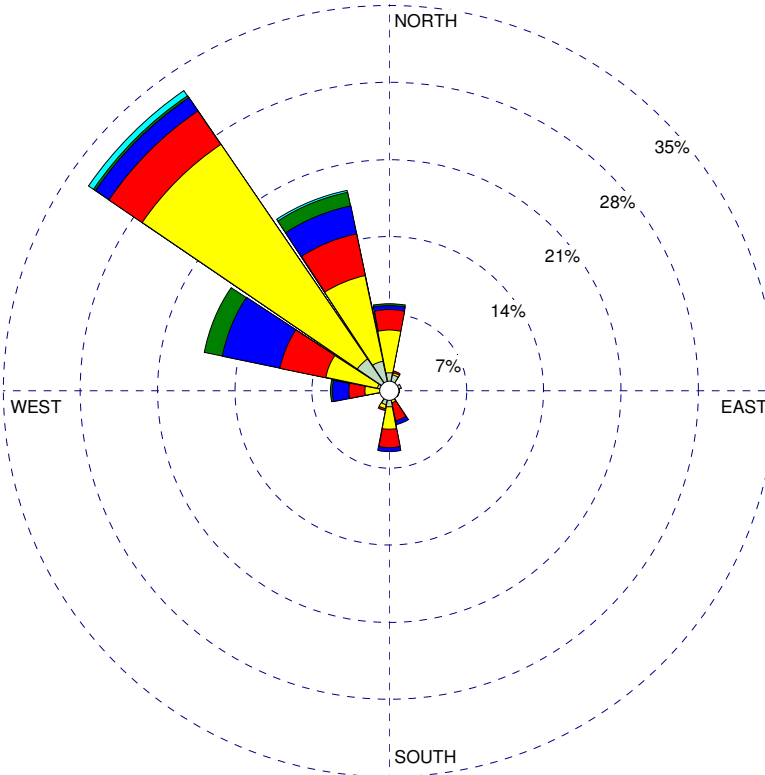
60221863

WIND ROSE PLOT:

Mt Pleasant Met Station
1 to 23 August 2012 (00:00 to 23:00)

DISPLAY:

Wind Speed
Direction (blowing from)



WIND SPEED
(m/s)

- >= 11.1
 - 8.8 - 11.1
 - 5.7 - 8.8
 - 3.6 - 5.7
 - 2.1 - 3.6
 - 0.5 - 2.1
- Calms: 0.00%

COMMENTS:

Figure 1
 No data available 24/08/12 to
 31/08/12

DATA PERIOD:

Start Date: 1/08/2012 - 00:00
End Date: 23/08/2012 - 16:00

COMPANY NAME:

AECOM

MODELER:

Ralph Brown



CALM WINDS:

0.00%

TOTAL COUNT:

544 hrs.

AVG. WIND SPEED:

3.70 m/s

DATE:

13/09/2012

PROJECT NO.:

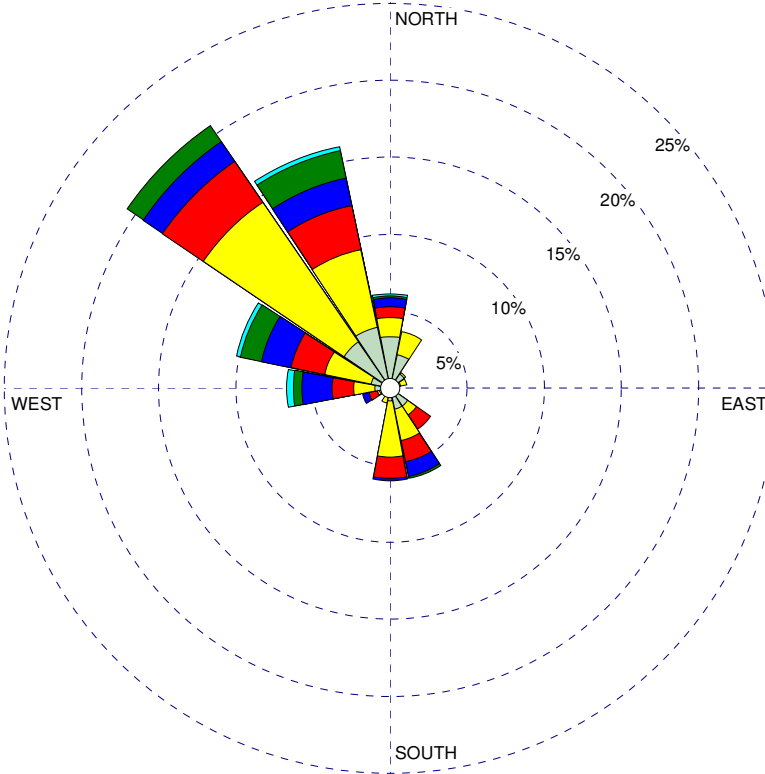
60221863

WIND ROSE PLOT:

Mt Pleasant Met Station
5 to 30 September 2012 (00:00 to 23:00)

DISPLAY:

Wind Speed
Direction (blowing from)



WIND SPEED
(m/s)

- >= 11.1
- 8.8 - 11.1
- 5.7 - 8.8
- 3.6 - 5.7
- 2.1 - 3.6
- 0.5 - 2.1

Calms: 15.14%

COMMENTS:

Figure 1
 No data available 01/09/12 to
 04/09/12

DATA PERIOD:

Start Date: 1/09/2012 - 00:00
End Date: 30/09/2012 - 23:00

COMPANY NAME:

AECOM

MODELER:

Sally Snowden



CALM WINDS:

15.14%

TOTAL COUNT:

719 hrs.

AVG. WIND SPEED:

3.16 m/s

DATE:

4/10/2012

PROJECT NO.:

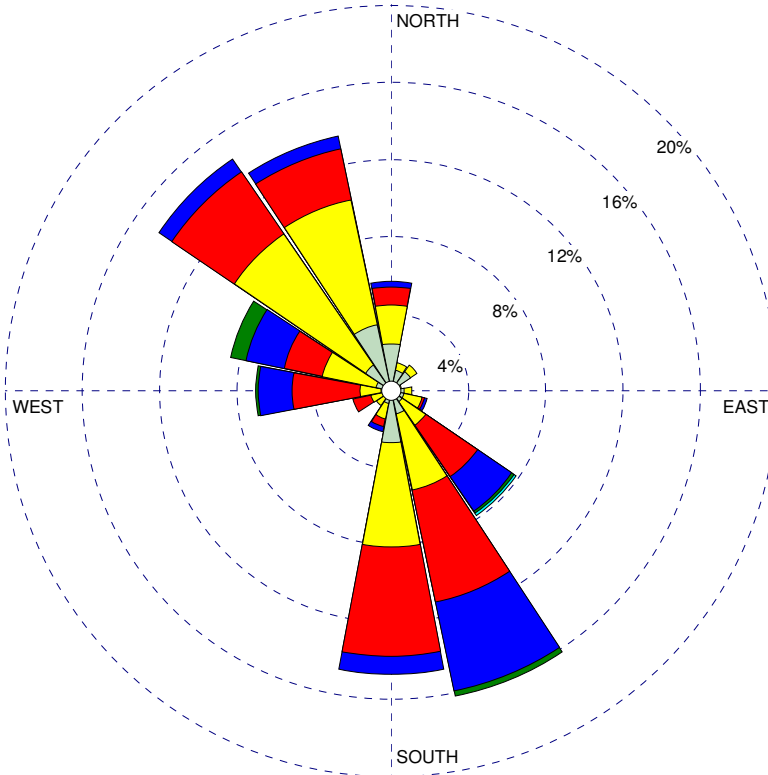
60221863

WIND ROSE PLOT:

Mt Pleasant Met Station
1 October to 31 October 2012 (00:00 to 23:00)

DISPLAY:

Wind Speed
Direction (blowing from)



WIND SPEED
(m/s)

- >= 11.1
 - 8.8 - 11.1
 - 5.7 - 8.8
 - 3.6 - 5.7
 - 2.1 - 3.6
 - 0.5 - 2.1
- Calms: 0.54%

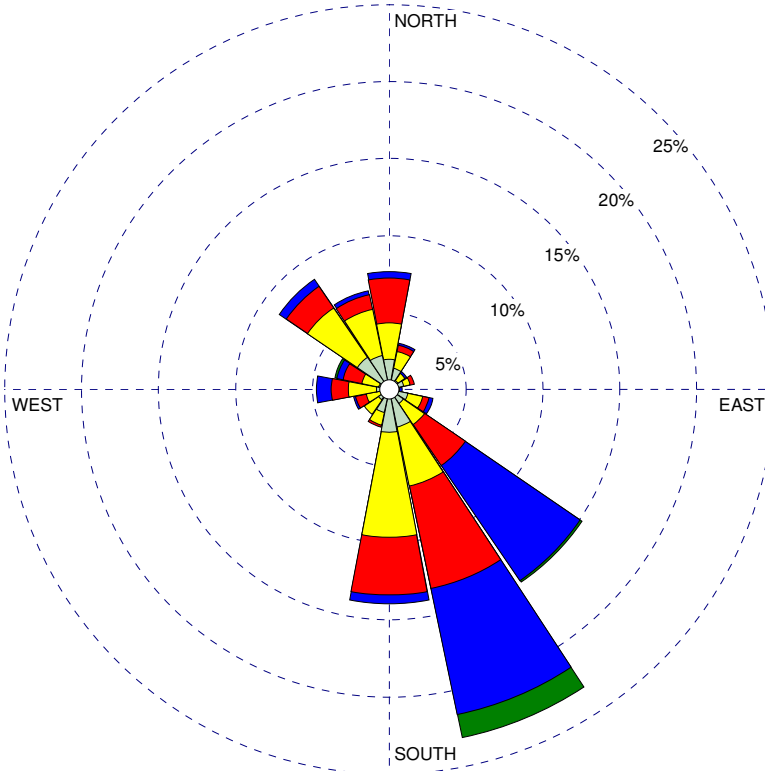
| | | | |
|------------------|---|---------------|--------------|
| COMMENTS: | DATA PERIOD: | COMPANY NAME: | |
| | Start Date: 1/10/2012 - 00:00 End Date: 31/10/2012 - 23:00 | AECOM | |
| | CALM WINDS: | MODELER: | |
| 0.54% | Sally Snowden | | |
| AVG. WIND SPEED: | TOTAL COUNT: | DATE: | PROJECT NO.: |
| 3.68 m/s | 743 hrs. | 13/11/2012 | 60221863 |

WIND ROSE PLOT:

Mt Pleasant Met Station
1 November to 30 November 2012

DISPLAY:

Wind Speed
Direction (blowing from)



WIND SPEED
(m/s)

- >= 11.1
 - 8.8 - 11.1
 - 5.7 - 8.8
 - 3.6 - 5.7
 - 2.1 - 3.6
 - 0.5 - 2.1
- Calms: 0.00%

COMMENTS:

Figure 1

DATA PERIOD:

Start Date: 1/11/2012 - 00:00
End Date: 30/11/2012 - 23:00

COMPANY NAME:

AECOM Australia Pty Ltd

MODELER:

Jacqueline Wrout

CALM WINDS:

0.00%

TOTAL COUNT:

719 hrs.

AVG. WIND SPEED:

3.86 m/s

DATE:

12/12/2012

PROJECT NO.:

60221863

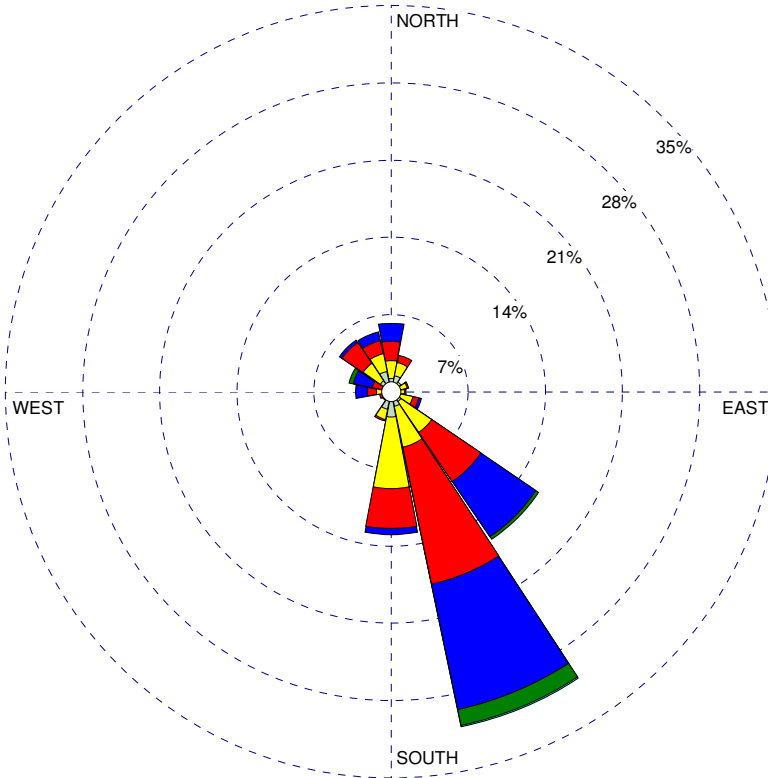


WIND ROSE PLOT:

Mt Pleasant Met Station
1 December to 31 December 2012

DISPLAY:

Wind Speed
Direction (blowing from)



WIND SPEED
(m/s)

- >= 11.1
 - 8.8 - 11.1
 - 5.7 - 8.8
 - 3.6 - 5.7
 - 2.1 - 3.6
 - 0.5 - 2.1
- Calms: 0.54%

COMMENTS:

Figure 1

DATA PERIOD:

Start Date: 1/12/2012 - 00:00
End Date: 31/12/2012 - 23:00

COMPANY NAME:

AECOM Australia Pty Ltd

MODELER:

Jacqueline Wrout

CALM WINDS:

0.54%

TOTAL COUNT:

743 hrs.

AVG. WIND SPEED:

4.26 m/s

DATE:

9/01/2013

PROJECT NO.:

60221863

AECOM

Mount Pleasant Surface Water Monitoring Results 2012

| Station | Date | EC Field ($\mu\text{S}/\text{cm}$) | pH | TSS (mg/L) | Comment |
|---------|------------|--------------------------------------|-----|------------|---------------------|
| W1 | 19/01/2012 | | | | NO ACCESS |
| W1 | 20/02/2012 | | | | NO ACCESS |
| W1 | 22/03/2012 | | | | NO ACCESS |
| W1 | 20/04/2012 | | | | NO ACCESS |
| W1 | 31/05/2012 | | | | NO ACCESS |
| W1 | 20/06/2012 | | | | NO ACCESS |
| W1 | 19/07/2012 | | | | NO ACCESS |
| W1 | 20/08/2012 | | | | NO ACCESS |
| W1 | 21/09/2012 | | | | NO ACCESS |
| W1 | 23/10/2012 | | | | NO ACCESS |
| W1 | 22/11/2012 | | | | NO ACCESS |
| W1 | 20/12/2012 | | | | NO ACCESS |
| W2 | 19/01/2012 | 499 | 7.9 | 25 | |
| W2 | 20/02/2012 | 467 | 8.2 | 15 | |
| W2 | 22/03/2012 | 426 | 8.3 | 9 | |
| W2 | 20/04/2012 | 568 | 8.2 | 7 | |
| W2 | 31/05/2012 | 474 | 8.5 | 4 | |
| W2 | 20/06/2012 | 473 | 7.9 | 13 | |
| W2 | 19/07/2012 | 411 | 7.9 | 29 | |
| W2 | 20/08/2012 | 371 | 8.5 | 14 | |
| W2 | 21/09/2012 | 588 | 8.0 | 5 | |
| W2 | 23/10/2012 | 397 | 8.1 | 10 | |
| W2 | 22/11/2012 | 333 | 8.1 | 5 | |
| W2 | 20/12/2012 | 333 | 7.8 | 9 | |
| W3 | 19/01/2012 | | | | SITE AUTO MONITORED |
| W3 | 20/02/2012 | | | | SITE AUTO MONITORED |
| W3 | 22/03/2012 | | | | SITE AUTO MONITORED |
| W3 | 20/04/2012 | | | | SITE AUTO MONITORED |
| W3 | 31/05/2012 | | | | SITE AUTO MONITORED |
| W3 | 20/06/2012 | | | | SITE AUTO MONITORED |
| W3 | 19/07/2012 | | | | SITE AUTO MONITORED |
| W3 | 20/08/2012 | | | | SITE AUTO MONITORED |
| W3 | 21/09/2012 | | | | SITE AUTO MONITORED |
| W3 | 23/10/2012 | 458 | 8.1 | 20 | SITE AUTO MONITORED |
| W3 | 22/11/2012 | | | | SITE AUTO MONITORED |
| W3 | 20/12/2012 | | | | SITE AUTO MONITORED |

Mount Pleasant Surface Water Monitoring Results 2012

| | | | | | |
|----|------------|------|-----|----|----------------|
| W4 | 19/01/2012 | 2280 | 7.7 | 5 | |
| W4 | 20/02/2012 | 2050 | 7.7 | 13 | |
| W4 | 22/03/2012 | 1589 | 7.9 | 12 | |
| W4 | 20/04/2012 | 2440 | 7.8 | 8 | |
| W4 | 31/05/2012 | 2560 | 7.9 | 3 | |
| W4 | 20/06/2012 | 2640 | 7.6 | 5 | |
| W4 | 19/07/2012 | 1018 | 7.6 | 21 | |
| W4 | 20/08/2012 | 2210 | 7.7 | 9 | |
| W4 | 21/09/2012 | 2560 | 7.6 | 10 | |
| W4 | 23/10/2012 | 2940 | 8.0 | 14 | |
| W4 | 22/11/2012 | 3040 | 7.9 | 13 | |
| W4 | 20/12/2012 | 2690 | 7.7 | 9 | |
| W5 | 19/01/2012 | | | | DRY |
| W5 | 20/02/2012 | | | | DRY |
| W5 | 22/03/2012 | | | | DRY |
| W5 | 20/04/2012 | | | | DRY |
| W5 | 31/05/2012 | | | | DRY |
| W5 | 20/06/2012 | | | | DRY |
| W5 | 19/07/2012 | | | | DRY |
| W5 | 20/08/2012 | | | | DRY |
| W5 | 21/09/2012 | | | | DRY |
| W5 | 23/10/2012 | | | | DRY |
| W5 | 22/11/2012 | | | | DRY |
| W5 | 20/12/2012 | | | | DRY |
| W6 | 19/01/2012 | | | | NO SAFE ACCESS |
| W6 | 20/02/2012 | | | | NO SAFE ACCESS |
| W6 | 22/03/2012 | | | | NO SAFE ACCESS |
| W6 | 20/04/2012 | | | | NO SAFE ACCESS |
| W6 | 31/05/2012 | | | | NO SAFE ACCESS |
| W6 | 20/06/2012 | | | | NO SAFE ACCESS |
| W6 | 19/07/2012 | | | | NO SAFE ACCESS |
| W6 | 20/08/2012 | | | | NO SAFE ACCESS |
| W6 | 21/09/2012 | | | | NO SAFE ACCESS |
| W6 | 23/10/2012 | | | | NO SAFE ACCESS |
| W6 | 22/11/2012 | | | | NO SAFE ACCESS |
| W6 | 20/12/2012 | | | | NO SAFE ACCESS |
| W7 | 19/01/2012 | | | | DRY |

Mount Pleasant Surface Water Monitoring Results 2012

| | | | | | |
|-----|-------------|------|-----|-----|-----|
| W7 | 20/02/2012 | | | | DRY |
| W7 | 23/03/2012 | | | | DRY |
| W7 | 20/04/2012 | | | | DRY |
| W7 | 31/05/2012 | | | | DRY |
| W7 | 20/06/2012 | | | | DRY |
| W7 | 19/07/2012 | | | | DRY |
| W7 | 20/08/2012 | | | | DRY |
| W7 | 21/09/2012 | | | | DRY |
| W7 | 23/10/2012 | | | | DRY |
| W7 | 22/11/2012 | | | | DRY |
| W7 | 20/12/20012 | | | | DRY |
| W8 | 19/01/2012 | | | | DRY |
| W8 | 20/02/2012 | | | | DRY |
| W8 | 23/03/2012 | | | | DRY |
| W8 | 20/04/2012 | 335 | 8.2 | 326 | |
| W8 | 31/05/2012 | | | | DRY |
| W8 | 20/06/2012 | 238 | 6.9 | 206 | |
| W8 | 19/07/2012 | 1137 | 7.8 | 433 | |
| W8 | 20/08/2012 | | | | DRY |
| W8 | 21/09/2012 | | | | DRY |
| W8 | 23/10/2012 | | | | DRY |
| W8 | 22/11/2012 | | | | DRY |
| W8 | 20/12/2012 | | | | DRY |
| W9 | 20/12/2012 | | | | DRY |
| W9 | 19/01/2012 | | | | DRY |
| W9 | 20/02/2012 | | | | DRY |
| W9 | 22/03/2012 | | | | DRY |
| W9 | 20/04/2012 | | | | DRY |
| W9 | 31/05/2012 | | | | DRY |
| W9 | 20/06/2012 | | | | DRY |
| W9 | 19/07/2012 | | | | DRY |
| W9 | 20/08/2012 | | | | DRY |
| W9 | 21/09/2012 | | | | DRY |
| W9 | 23/10/2012 | | | | DRY |
| W9 | 22/11/2012 | | | | DRY |
| W9 | 20/12/2012 | | | | DRY |
| W10 | 19/01/2012 | | | | DRY |

**Mount Pleasant
Surface Water Monitoring Results 2012**

| | | | | | |
|-----|------------|--|--|--|-----|
| W10 | 20/02/2012 | | | | DRY |
| W10 | 22/03/2012 | | | | DRY |
| W10 | 20/04/2012 | | | | DRY |
| W10 | 31/05/2012 | | | | DRY |
| W10 | 20/06/2012 | | | | DRY |
| W10 | 19/07/2012 | | | | DRY |
| W10 | 20/08/2012 | | | | DRY |
| W10 | 21/09/2012 | | | | DRY |
| W10 | 23/10/2012 | | | | DRY |
| W10 | 22/11/2012 | | | | DRY |
| W10 | 20/12/2012 | | | | DRY |

**Mount Pleasant
Groundwater Monitoring Results 2012**

| Sample Location | Sample Date | Depth to Ground (metres) | Depth to Standpipe (metres) | Electrical Conductivity (µS/cm) | pH | Comments |
|-----------------|-------------|--------------------------|-----------------------------|---------------------------------|-----|---------------------------------|
| 3500B500L | 24/02/2012 | 59.02 | 59.44 | 5380 | 7.3 | |
| 3500B500L | 21/06/2012 | 60.03 | 60.45 | 5510 | 7.6 | |
| 3500B500L | 24/08/2012 | 59.97 | 60.39 | 5400 | 7.4 | |
| 3500B500L | 1/11/2012 | 60.78 | 61.20 | 5270 | 7.4 | |
| 3500C500S | 24/02/2012 | 23.97 | 24.25 | 2450 | 7.2 | |
| 3500C500S | 4/07/2012 | 24.09 | 24.37 | 4060 | 7.3 | |
| 3500C500S | 24/08/2012 | 24.09 | 24.37 | 3980 | 7.3 | |
| 3500C500S | 1/11/2012 | 24.11 | 24.39 | 4270 | 7.3 | |
| 4500F000 | 24/02/2012 | 24.04 | 24.63 | 2110 | 6.6 | |
| 4500F000 | 6/28/2012 | 24.81 | 25.40 | 9650 | 6.8 | |
| 4500F000 | 24/08/2012 | 18.00 | 18.00 | 2470 | 6.9 | |
| 4500F000 | 1/11/2012 | 18.14 | 18.14 | 2630 | 6.7 | |
| 5000D000S | 24/02/2012 | 81.50 | 81.75 | 558 | 6.7 | |
| 5000D000S | 4/07/2012 | 81.53 | 81.78 | 572 | 7.3 | |
| 5000D000S | 24/08/2012 | 81.41 | 81.66 | 536 | 6.9 | |
| 5000D000S | 1/11/2012 | 81.40 | 81.63 | 522 | 6.7 | |
| 5500D000 | 24/02/2012 | 64.04 | 64.27 | 1036 | 6.5 | |
| 5500D000 | 21/06/2012 | 63.81 | 64.05 | 1098 | 6.6 | |
| 5500D000 | 24/08/2012 | 64.11 | 64.35 | 1030 | 6.7 | |
| 5500D000 | 1/11/2012 | 64.07 | 64.31 | 1058 | 6.6 | |
| 6000C000L | 24/02/2012 | 20.42 | 20.42 | - | - | Insufficient water for sampling |
| 6000C000L | 21/06/2012 | 20.64 | 20.64 | - | - | Dry |
| 6000C000L | 24/08/2012 | 20.69 | 20.69 | - | - | Dry |
| 6000C000L | 1/11/2012 | 20.36 | 20.36 | - | - | Insufficient water for sampling |
| 6500F00M | 24/02/2012 | - | - | - | - | Dry |
| 6500F00M | 21/06/2012 | - | - | - | - | Dry |
| 6500F00M | 24/08/2012 | - | - | - | - | Dry |
| 6500F00M | 1/11/2012 | - | - | - | - | Dry |
| 6500F500L | 24/02/2012 | - | - | - | - | Dry |
| 6500F500L | 21/06/2012 | - | - | - | - | Dry |
| 6500F500L | 24/08/2012 | - | - | - | - | Dry |
| 6500F500L | 1/11/2012 | - | - | - | - | Dry |
| 6500F500U | 24/02/2012 | - | - | - | - | Dry |
| 6500F500U | 21/06/2012 | - | - | - | - | Dry |
| 6500F500U | 24/08/2012 | - | - | - | - | Dry |
| 6500F500U | 1/11/2012 | - | - | - | - | Dry |
| 6500F625 | 24/02/2012 | - | - | - | - | Dry |
| 6500F625 | 21/06/2012 | - | - | - | - | Dry |

**Mount Pleasant
Groundwater Monitoring Results 2012**

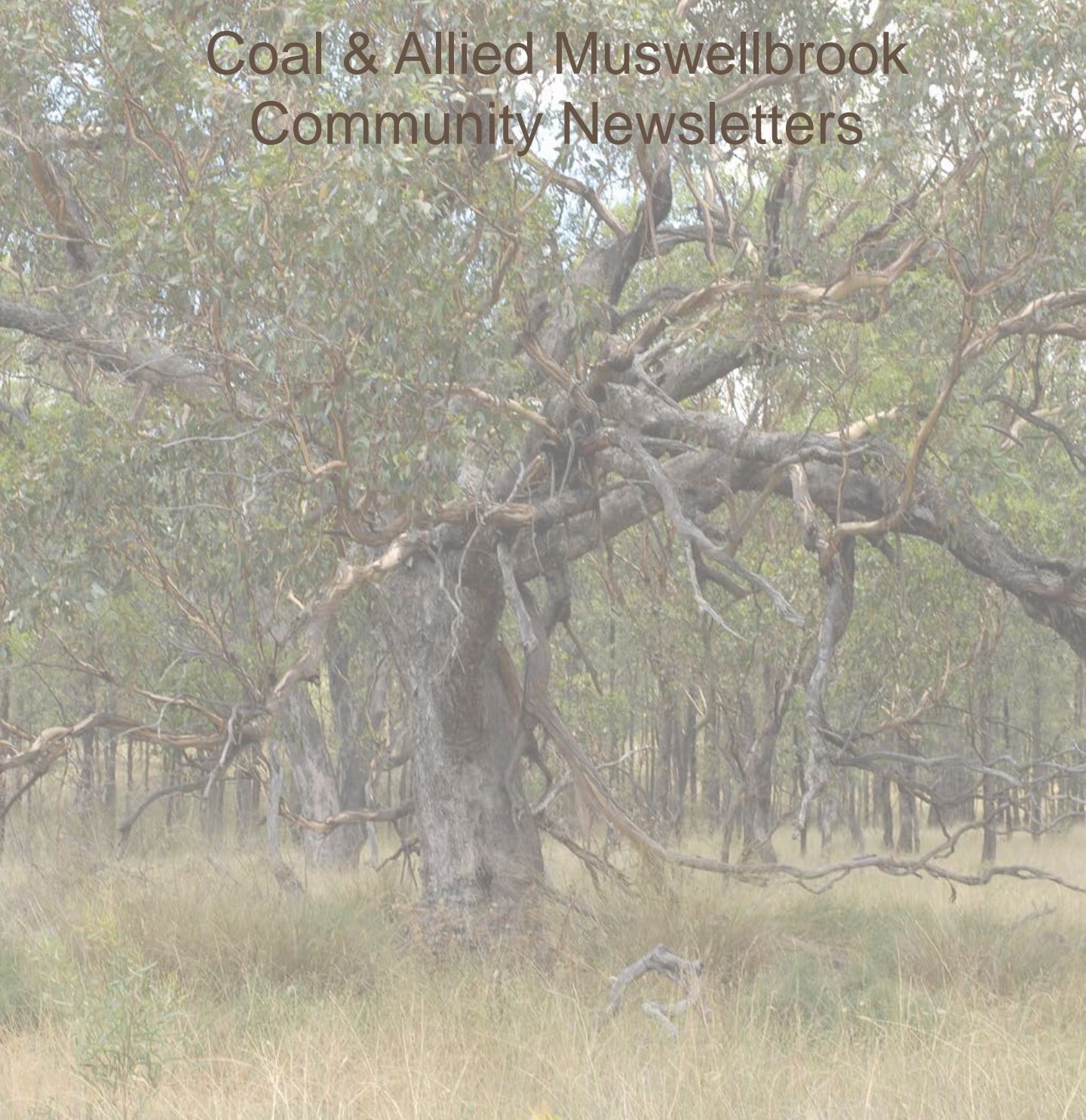
| | | | | | | |
|----------|------------|-------|-------|-------|-----|---------------------------------|
| 6500F625 | 24/08/2012 | - | - | - | - | Dry |
| 6500F625 | 1/11/2012 | - | - | - | - | Dry |
| 7000D000 | 24/02/2012 | - | - | - | - | Dry |
| 7000D000 | 21/06/2012 | - | - | - | - | Dry |
| 7000D000 | 24/08/2012 | - | - | - | - | Dry |
| 7000D000 | 1/11/2012 | - | - | - | - | Dry |
| 7500F000 | 24/02/2012 | 34.32 | 34.65 | 3370 | 7.0 | |
| 7500F000 | 5/06/2012 | 34.25 | 34.56 | 3760 | 7.1 | |
| 7500F000 | 24/08/2012 | 34.36 | 34.67 | 3910 | 7.1 | |
| 7500F000 | 1/11/2012 | 34.41 | 34.72 | 3900 | 7.1 | |
| WRA1L | 2/28/2012 | 1.75 | 2.10 | 3420 | 7.8 | |
| WRA1L | 7/06/2012 | 1.33 | 1.68 | 3100 | 7.2 | |
| WRA1L | 23/08/2012 | 1.15 | 1.50 | 3020 | 7.3 | |
| WRA1L | 1/11/2012 | 1.46 | 1.81 | 2910 | 7.2 | |
| WRA1U | 28/02/2012 | 5.56 | 5.60 | - | - | Dry |
| WRA1U | 7/06/2012 | 5.57 | 5.61 | - | - | Dry |
| WRA1U | 23/08/2012 | 5.58 | 5.62 | - | - | Dry |
| WRA1U | 1/11/2012 | 5.54 | 5.58 | - | - | Dry |
| WRA2L | 28/02/2012 | 8.96 | 9.53 | 2230 | 8.0 | |
| WRA2L | 8/06/2012 | 9.07 | 9.64 | 5370 | 7.1 | |
| WRA2L | 23/08/2012 | 8.88 | 9.45 | 3060 | 7.8 | |
| WRA2L | 1/11/2012 | 9.14 | 9.71 | 4120 | 7.1 | |
| WRA2U | 28/02/2012 | 5.28 | 5.28 | - | - | Insufficient water for sampling |
| WRA2U | 8/06/2012 | 5.58 | 5.58 | - | - | Dry |
| WRA2U | 23/08/2012 | 5.42 | 5.42 | - | - | Dry |
| WRA2U | 1/11/2012 | 5.57 | 5.57 | - | - | Dry |
| WRA3L | 28/02/2012 | 15.38 | 15.90 | 14640 | 6.9 | |
| WRA3L | 8/06/2012 | 14.22 | 14.74 | 14850 | 6.8 | |
| WRA3L | 23/08/2012 | 13.61 | 14.13 | 14480 | 6.8 | |
| WRA3L | 1/11/2012 | 15.08 | 15.60 | 14470 | 6.5 | |
| WRA3U | 28/02/2012 | 2.85 | 2.98 | 1672 | 7.7 | |
| WRA3U | 8/06/2012 | 2.97 | 3.10 | 2310 | 7.5 | |
| WRA3U | 23/08/2012 | 3.05 | 3.18 | 1910 | 7.5 | |
| WRA3U | 1/11/2012 | 3.17 | 3.30 | 2560 | 7.4 | |
| WRA5L | 28/02/2012 | -0.49 | 0.18 | 2490 | 8.2 | |
| WRA5L | 8/06/2012 | -0.01 | 0.64 | 3050 | 7.1 | |
| WRA5L | 23/08/2012 | 0.71 | 1.36 | 2250 | 7.9 | |
| WRA5L | 1/11/2012 | 1.49 | 2.14 | 2260 | 8.0 | |
| WRA5U | 28/02/2012 | -0.02 | 0.10 | 2030 | 7.8 | |

**Mount Pleasant
Groundwater Monitoring Results 2012**

| | | | | | | |
|----------------|------------|-------|-------|-------|-----|--|
| WRA5U | 8/06/2012 | 0.33 | 0.45 | 2070 | 7.3 | |
| WRA5U | 23/08/2012 | 0.88 | 1.00 | 2280 | 7.4 | |
| WRA5U | 1/11/2012 | 1.68 | 1.80 | 2500 | 7.3 | |
| WRA6L | 28/02/2012 | 0.82 | 1.35 | 5540 | 7.2 | |
| WRA6L | 8/06/2012 | 0.91 | 1.44 | 5240 | 7.0 | |
| WRA6L | 23/08/2012 | 1.01 | 1.54 | 5320 | 7.7 | |
| WRA6L | 1/11/2012 | 1.14 | 1.67 | 5340 | 7.3 | |
| WRA6U | 28/02/2012 | 1.05 | 1.10 | 9380 | 7.1 | |
| WRA6U | 8/06/2012 | 1.16 | 1.21 | 10370 | 6.9 | |
| WRA6U | 23/08/2012 | 1.32 | 1.37 | 10120 | 6.9 | |
| WRA6U | 1/11/2012 | 1.46 | 1.51 | 10410 | 6.9 | |
| MPBH1 (bore3) | 24/02/2012 | 9.02 | 9.38 | 517 | 6.8 | |
| MPBH1 (Bore3) | 28/06/2012 | 9.51 | 9.87 | 527 | 6.8 | |
| MPBH1 (Bore3) | 23/08/2012 | 8.93 | 9.29 | 512 | 6.9 | |
| MPBH1 (Bore3) | 1/11/2012 | 9.67 | 10.03 | 507 | 6.9 | |
| MPBH2 | 24/02/2012 | 11.78 | 12.21 | 758 | 6.9 | |
| MPBH2 | 7/06/2012 | 11.72 | 12.15 | 759 | 6.9 | |
| MPBH2 | 8/23/2012 | 11.56 | 11.99 | 794 | 7.0 | |
| MPBH2 | 1/11/2012 | 11.77 | 12.20 | 769 | 7.0 | |
| MPBH3 (Bore 2) | 24/02/2012 | 11.53 | 11.86 | 4560 | 7.4 | |
| MPBH3 (Bore 2) | 7/06/2012 | 11.63 | 11.96 | 4190 | 7.6 | |
| MPBH3 (Bore 2) | 23/08/2012 | 12.27 | 12.60 | 4420 | 7.5 | |
| MPBH3 (Bore 2) | 1/11/2012 | 11.76 | 12.09 | 3130 | 7.8 | |

Appendix 3

Coal & Allied Muswellbrook Community Newsletters



Coal & Allied community newsletter Muswellbrook edition

Issue 9 - February 2012



Pictured: Coal & Allied thanks its community partners and re-commits community development funding.

Coal & Allied thanks community partners and commits to continued support for the Hunter Valley

Coal & Allied has moved into 2012 by thanking its 150 community partners and re-committing its support to the Hunter Valley.

Over the next three years \$4.5M in support will be available through the Coal & Allied Community Development Fund for projects that help build a more sustainable future for the Hunter Valley.

It is the fifth time Coal & Allied has re-committed to the Community Development Fund since it was established in 1999. But for the first time the funding will increase by 50 per cent, reflecting the growing quality and diversity of the programmes put forward by local community organisations.

Coal & Allied Principal Community Investment Stephen Sneddon said the company is excited to partner with local organisations to continue to invest in

projects that have real benefits for the Hunter Valley.

"Coal & Allied is committed to a long term future in the Hunter Valley," Stephen said.

"The Coal & Allied Community Development Fund has invested more than \$11 million so far to support over 100 diverse projects to strengthen the sustainability of communities in the Hunter Valley.

"I'd like to acknowledge and thank our community partners for their hard work in delivering the programmes over the years.

"We're proud to extend our funding so we can continue our commitment to support projects that address educational, economic, environmental, and social needs of local communities, to enable them to work towards a more sustainable

future for their community."

One of the many programmes that benefits from working in partnership with the Coal & Allied Community Development Fund is the award-winning Healthy Dads, Healthy Kids.

Launched in 2010, Healthy Dads, Healthy Kids is a partnership between Coal & Allied, the Hunter Medical Research Institute, the University of Newcastle, Hunter New England Health, and the community.

This is a community owned programme designed by local researchers to tackle obesity by helping fathers to lose weight with their children.

To find out how your organisation can apply to partner with the Coal & Allied Community Development Fund, contact Principal Community Investment Stephen Sneddon on (02) 6575 5802.



Graham Gageler - Mount Pleasant

Welcome to the first edition of the Muswellbrook community newsletter for 2012. We hope you had a happy and safe Christmas break.

On 23 November our Community Development Fund and Aboriginal Development Consultative Committee held their annual end of year function to celebrate another successful year of community partnerships. As you can read on the cover, we announced another three years of funding for our community fund. We look forward to seeing the ongoing sustainability in the Muswellbrook region and beyond through these two partnership bodies.

Our information drop in sessions in Merriwa are scheduled to recommence in late February, with the team also expecting to visit Cassilis in early 2012. Further details about our 2012 information sessions will be available in the Merriwa Ringer early this year.

Thank you to everyone who attended the environmental management plan update sessions in December for our Mount Pleasant Project around land, water, noise and air quality management including participants who were involved in our initial 2007 focus groups. During 2012 we are anticipating a Rio Tinto investment decision to proceed with the construction and operation of this Project, pending approval by the Federal Government under the EPBC Act.

I would like to thank the community for their comments, suggestions and support in 2011 and anticipate the continued strengthening of our relationships with the community in 2012.



Andrea Sutton - Bengalla

As we begin 2012 it is good to look back and celebrate the successes of last year. Not only did we safely finish the year and achieve our goals on a production front, but we were able to partner with a number of great community organisations, as shown on page three. We look forward to supporting more community organisations again this year.

In this edition we provide an update on planning underway at Bengalla to continue our operations for another 21 years, and remain a long term employer in the region.

Over the coming months we will be talking to interested community members about our plans to extend the life of Bengalla, which has been operating near Muswellbrook for more than 12 years.

The proposal would enable mining to continue to the west, away from Muswellbrook and on land owned by the mine and Coal & Allied. You can read more on the back page of this newsletter.

The calendars are already quickly filling with some great local events. I am pleased to announce we have continued our support of the Upper Hunter Show which is on again on March 23-24 as well as our involvement in Bursting with Energy Expo.

Finally, congratulations to our five undergraduate scholarship winners from Muswellbrook High School. We wish you all the best with your future studies.



Pictured: Bengalla scholarship winners with Andrea Sutton and Muswellbrook High School Principal Gareth Erskine. L-R Cassandra Pickham, Sarah Rodham, Daniel Rivers, Sam Hume and Ali Ward.

2011 Community Survey

Thank you to all of the community members who took the time to give us your feedback around how you like to receive information. As a result over \$750 has been donated to local charities including almost \$400 to the most voted charity – the Muswellbrook Hospital Auxiliary Group. It's never too late to tell us what you think – be sure to contact us at any time with any questions, comments or queries, or drop in to our shopfront.





1



2



3



4a



4b



5



5



6

1 Healthy Dads, Healthy Kids

Ian Spicer and son Glen are one of the more than 155 families who have participated in the Healthy Dads, Healthy Kids programme from Hunter Valley communities.

2 Beef Bonanza

The sixth annual Upper Hunter Beef Bonanza held in Scone in November attracted hundreds of beef enthusiasts, including more than 460 junior competitors from schools across the state. The three-day event, supported by the Coal & Allied Community Development Fund, provided educational opportunities and competitions for young people to learn about the cattle industry, as well as giving local livestock producers a chance to benchmark the quality of their own cattle production.

3 Polly Farmer

The Muswellbrook Enrichment Centre, coordinated by The Graham (Polly) Farmer Foundation, involves regular after-school sessions at Muswellbrook

TAFE where Aboriginal students receive support with their studies from a team of dedicated tutors, including Muswellbrook High School teacher Michael Sneesby, pictured with Mel Barwick. Students also participate in a range of activities that develop academic, social, cultural and leadership skills.

4 Tree Planting

Muswellbrook primary students sprouted green thumbs over the past few months, planting more than 520 trees across the community as part of an environmental programme with schools and Bengalla. In September St James Primary School planted around 400 native trees along Overton Road, and in November Muswellbrook South Public School visited Bengalla to plant 120 native trees across the site. a) Muswellbrook South Public School students with Bengalla's Environmental team. And b) St James Primary School students discuss the environmental benefits of planting with Environmental Advisor Calvin Leech.

5 Solar Boat Challenge

Teams of students from Years 2 to 10 from eight local primary and secondary schools put their solar skills to the test to take part in the fourth annual Muswellbrook Shire Solar Boat Challenge. The challenge, designed to help students learn more about sustainable development and renewable energy, provides a practical and fun way for students to explore how solar energy works and its environmental benefits. Coal & Allied, through its Bengalla and Mount Pleasant operations, was again proud to be a major sponsor of the event.

6 Indigenous Garden

An underused area of the Muswellbrook High School will be transformed this year into a multi-faceted educational resource complete with a native and bush tucker garden and murals as part of a joint sponsorship by Coal & Allied, BHP Billiton Mt Arthur Coal and Xstrata Mangoola Coal.

Bengalla looks to the long term

Interested community members will have the opportunity to talk with Coal & Allied in coming months on plans to continue operations at Bengalla, which has been operating near Muswellbrook for more than 12 years.

Bengalla General Manager Operations Andrea Sutton said the proposal would enable mining to continue to the west, away from Muswellbrook and on land owned by the mine and Coal & Allied.

“Our existing approvals run until 2017, so we will soon be applying for a new Development Consent to remain a long term employer in the region and continue operations at Bengalla for another 21 years beyond 2017,” Andrea said.

“In Bengalla’s original Environmental Impact Statement, drafted before we commenced mining operations in 1999, we anticipated these areas would be mined in the future - and we are now seeking approval from Government and input from the community to do so.

“Our application will also seek to provide us with an increased production upper limit of 15 million tonnes of coal, so we have that option in future.

“This continuation will provide ongoing employment for our entire

existing workforce, with the potential to create up to another 500 new permanent jobs at increased full production.

“We will continue to manage our environmental impacts to a best practice standard and are committed to keeping the community informed about our operations.”

Community information meetings to discuss the proposal will be held in March.

“We want to answer any questions people may have and to hear any suggestions about potential initiatives to help minimise impacts, so we can deliver the best outcome for the community,” Andrea said.

The face to face sessions will be part of an ongoing consultation programme, in addition to Coal & Allied’s existing contact with the Upper Hunter community through its shopfronts

and information sessions, freecall information line and website.

An initial notice of Bengalla’s intention to apply for a Development Consent has been lodged with the New South Wales Government, seeking the Director-General’s environmental impact assessment requirements. It is expected an application for a Development Consent under Part 4 of the *Environmental Planning and Assessment Act 1979* will be lodged during 2012.

Community information sessions will be held in Coal & Allied’s shopfront at 19 Bridge Street, Muswellbrook, from 9am – 12pm each Thursday in March. Call our freecall community information line on 1800 727 745 for more information.



Mount Pleasant Community Consultative Committee

| | | |
|--------------------------------|--|-----------|
| Cr Karen Portolan (Chair) | PO Box 122 Muswellbrook 2333 | 6549 3700 |
| Cr Jeff Drayton (Deputy Chair) | PO Box 122 Muswellbrook 2333 | 6549 3700 |
| Jonathon Moore | “Gilgai” Wybong Road, Muswellbrook 2333 | 6547 9164 |
| Trevor Parkinson | 71 Brecht Street, Muswellbrook 2333 | 6543 2445 |
| Timothy Troon | 16 Birralee Street, Muswellbrook 2333 | 6541 2094 |

Coal & Allied representatives

| | | |
|-------------------|---|-----------|
| Graham Gageler | General Manager Operations Mount Pleasant Project | 6549 0504 |
| Elizabeth Yeo | Specialist Community Relations | 6549 0517 |
| Kirstin Macmillan | Environmental Specialist – Mount Pleasant Project | 6549 0503 |

Bengalla Community Consultative Committee

| | | |
|------------------------------|--|-----------|
| Cr Karen Portolan (Chair) | PO Box 122 Muswellbrook 2333 | 6541 3700 |
| Cr Malcom Ogg (Deputy Chair) | PO Box 122 Muswellbrook 2333 | 6549 3700 |
| Kevin Lecky | 33 Woodlands Ridge Road Muswellbrook 2333 | 6541 2873 |
| Craig Flemming | PO Box 122 Muswellbrook 2333 | 6549 3700 |
| Noel Downs | PO Box 127 Muswellbrook 2333 | 6543 1288 |

Coal & Allied representatives

| | | |
|---------------|---|-----------|
| Andrea Sutton | General Manager Operations Bengalla | 6542 9500 |
| Debbie Day | Community Relations & Personal Assistant to the General Manager | 6542 9500 |
| Amy Harburg | Environmental Specialist | 6542 9500 |

Community Info line:

1800 727 745

Environmental Hotline:

1800 656 892

Blasting hotlines:

Bengalla: 02 6542 9591

HVO: 1800 888 733

MTW: 1800 099 669

Email:

cnacommunityrelations@riotinto.com



Coal & Allied community newsletter Muswellbrook edition

Issue 10 - July 2012



Coal & Allied supports Muswellbrook Hospital to help sick children

In partnership with Variety, the Children's Charity, Coal & Allied is helping to ensure local children get access to the best possible care by providing video conferencing equipment at Muswellbrook Hospital.

Variety's Vision for Life is an Australian-first programme that will use state-of-the-art, high definition remote controlled video conferencing equipment to connect Muswellbrook doctors with specialists in larger hospitals outside the region.

Variety has raised over \$35,000 to deliver the project, including \$10,000 from Coal & Allied's Bengalla and Mount Pleasant Project site donation committees.

Variety Corporate Partnerships and Community Relations Manager Peter Harvey said the funding will help provide better care for local children.

"Along with Coal & Allied's donation we held a fundraising luncheon which has seen us raise more than we needed for the

programme. As such we now have additional funds to support the many appeals put to Variety from the local community," Peter said.

"The equipment will not only assist in providing health care for children in the community, but money will be saved on emergency transportation to larger hospitals."

Bengalla General Manager Operations Andrea Sutton said she was pleased to support Muswellbrook Hospital to provide health care to families in the local community.

"As a major employer in the region, health and wellbeing is one of our core values," Andrea said.

"This donation is an extension of our commitment to the health and wellbeing of our workforce and their families, most of whom live in the Muswellbrook community."

Variety is a national not-for-profit organisation empowering children who are sick, disadvantaged, or who have special needs.



Muswellbrook Hospital will benefit from the Vision for Life programme thanks to support from Coal & Allied and Variety's fundraising efforts. Inset images courtesy of Variety, the Children's Charity.



Tod Claytor – Mount Pleasant

This is my first newsletter acting in the role of General Manager Operations Mount Pleasant, following the medical retirement of Graham Gageler earlier this year. On behalf of the Mount Pleasant project team I would like to thank Graham for his expert guidance within the Mount Pleasant project team, as well as his considerable achievements within Rio Tinto over many years of service.

We are continuing to work towards a decision by Rio Tinto on whether to invest in constructing the Mount Pleasant Project. In February we welcomed the Federal Government's decision to grant approval for the Mount Pleasant Project under the Environment Protection and Biodiversity Conservation Act (EPBC).

We have also finalised our Voluntary Planning Agreement (VPA) for community enhancement with Muswellbrook Shire Council, which will provide a significant contribution of more than \$700,000 a year for road improvements and other projects and programmes to benefit the local community. The agreement also supports four local apprenticeships for the operation.

On a safety note, it was great to see the Apex 'Learn to Ride' bike path officially opened earlier this year. This joint community development project between Coal & Allied, Bengalla, Mt Arthur Coal and Apex Club of Muswellbrook will provide a safe track for use by children in the community.



Andrea Sutton - Bengalla

I was very pleased to see St Joseph's Aberdeen High School graduate, Hayden Nicol, named our 2012 Bengalla engineering scholarship winner recently. We are committed to encouraging youth in the Upper Hunter to consider careers in engineering and wish Hayden all the best with his degree.

On site our expansion work was completed in April and includes an upgrade to our coal handling and

preparation plant and other infrastructure, as well as purchasing additional mining equipment. This work has increased our capacity from the current run of mine (ROM) production rate of 7.8 million tonnes per year to 9.3 million tonnes per year. As I mentioned in our previous Muswellbrook newsletter, this year we intend to apply for a new Development Consent to continue mining at Bengalla for another 21 years beyond our current approval. Thank you to everyone who visited the shopfront to speak with our Approvals team at information sessions on our plans. We will continue to consult with the community as we move forward.

Bengalla is also pleased to have finalised its VPA with the Muswellbrook Shire Council for modifications to its development consent approved by the State Government last year. The agreement will provide significant contributions of more than \$400,000 a year to benefit the local community, in addition to other ongoing support through our Community Development Fund, Aboriginal Development Consultative Community and site donations.

Pictured: Bengalla Technical Services Manager Dave Mitchell congratulates 2012 Bengalla Engineering Scholarship winner Hayden Nicol.



Commitment to Aboriginal communities

In late 2011 Hunter Valley Research Foundation in partnership with the Wollotuka Institute at the University of Newcastle completed a situational analysis on Upper Hunter Aboriginal communities. We commissioned this research to provide current and locally relevant information about access to education, health and employment and a range of related issues.

The analysis identified a need to:

- Fill service gaps in health and dental services that are accessible, affordable and culturally appropriate
- Provide relevant courses to support parents in their children's education and appropriate community based resources and/or training to support pathways for employment of Aboriginal people

- Increase awareness of Aboriginal cultural behaviours that may hinder employment organisations working closely with the Aboriginal community
- Increase information sharing about health and community support programmes and employment opportunities.

These findings will guide the development of a Strategic Investment Plan for the Coal & Allied Aboriginal Development Consultative Committee (ADCC) and ongoing implementation of our Aboriginal Employment Strategy. For more information, please contact Specialist Aboriginal Relations Cate Sims at cate.sims@riotinto.com or 6575 5906.

Muswellbrook bursts with energy

The Bursting with Energy Expo was again a drawcard at the Upper Hunter Regional Show in March, attracting over 600 students and many community members.

Representatives from the local mining and energy industries brought together interactive displays and simulations where students and community members were able to get hands on with energy and learn more about electricity generation, the local mining industry and a range of sustainable and environmental programmes underway in the region.

Special guests Questacon entertained and educated local students with exciting and inspiring examples of science and innovation while Vox Bandicoot brought energy to life with their educational theatre focused on sustainability.

There were activities for the whole family to enjoy and those wondering what driving a giant mining truck felt like, a simulator display provided a behind the wheel on a real mine site experience.



1

Bengalla mine welcomes interested students

In late May students from St Josephs High School Aberdeen and Muswellbrook High attended an apprentice information session at Bengalla to learn more about the opportunities for local students. The students and their parents toured the maintenance workshop and had the opportunity to talk to Bengalla's apprentice mentor, Ken Andrews, Novaskill representative Andrew Hutchinson and Electrical Apprentice Simone Marskell.



2

Muswellbrook South Public School students grow green thumbs

Through the 'Lettuce Out' programme Muswellbrook South Public School has transformed an existing garden into an organic vegetable garden to feed a healthy canteen menu and become part of a gardening and cooking programme for students.

Bengalla and the Mount Pleasant project has helped teach students how to prepare the garden and plant and care for the different vegetables. The thriving garden is now producing several crops including corn, tomatoes, lettuce, spinach, carrots, beetroot and herbs.

Muswellbrook students interview mining professionals in 'Pathways4Girls'

On 27 March Year 10 female students from Muswellbrook, Scone, Aberdeen and Merriwa schools learnt what a day in the life of a mining professional would be like in the 'Pathways4Girls' career information sessions.

Female mining professionals working in a number of specialties at Coal & Allied shared their mining industry experiences in a "speed dating" type format, providing each attendee with a taste of the variety of roles available in the resource sector.

Pictured:

- 1 | Electrical Apprentice Simone Marskell answers questions about the apprentice opportunities at Bengalla mine.
- 2 | Muswellbrook Hospital Auxiliary Group's Wilma Homes, Nancy Bullard, Sue Durham and Margaret McCloy take a haul truck for a spin in the simulator at the Bursting with Energy Expo.
- 3 | Jen Bowcock, Amy Harburg and Andrea Sutton from Coal & Allied with Muswellbrook High and St Joseph's High students at Pathways4Girls.
- 4 | Muswellbrook South Public School student Brendan Matthews with some of the fruits of the school's labours through the Lettuce Out programme.



3

Coal & Allied employment information sessions back in Muswellbrook by popular demand

Coal & Allied's employment information sessions in Muswellbrook provide information about the company's recruitment process and how to apply for jobs as they become available.

Sessions were held in May and June at Coal & Allied's Muswellbrook shopfront, 19 Bridge Street. The next sessions are scheduled for Singleton in July-August with sessions following in Muswellbrook in September-October. For more information or to register to attend contact 1800 727 745 or email cnacomcommunityrelations@riotinto.com



4

Upgrade approved for Bengalla Link Road

Motorists will benefit from improved safety through an upgrade to sections of Bengalla Link Road.

Bengalla Link Road runs to the west of Muswellbrook, linking Denman Road in the east with Wybong Road in the west and crossing the Hunter River at Keys Bridge. The road is used by local residents and businesses.

General Manager Operations Andrea Sutton said Bengalla is funding the work to improve road safety and as part of commitments under its development consent conditions.

"The multi-million dollar improvement works are expected to start

by July with completion anticipated April 2013, providing a better, safer route for all road users," Andrea said.

"At present, the section of road from the Denman Road intersection to the Wantana Dairy Lane intersection is showing areas of cracking.

"The improvements we are funding will include repairing and strengthening the existing pavement while upgrading drainage and the overall design of the road."

Andrea said some of the work will involve significant traffic management which will be conducted in close consultation with Council.

"I ask that motorists drive to conditions once road works commence to ensure both their safety, and the safety of construction workers.

"The improvements will be designed to consider local community requirements."

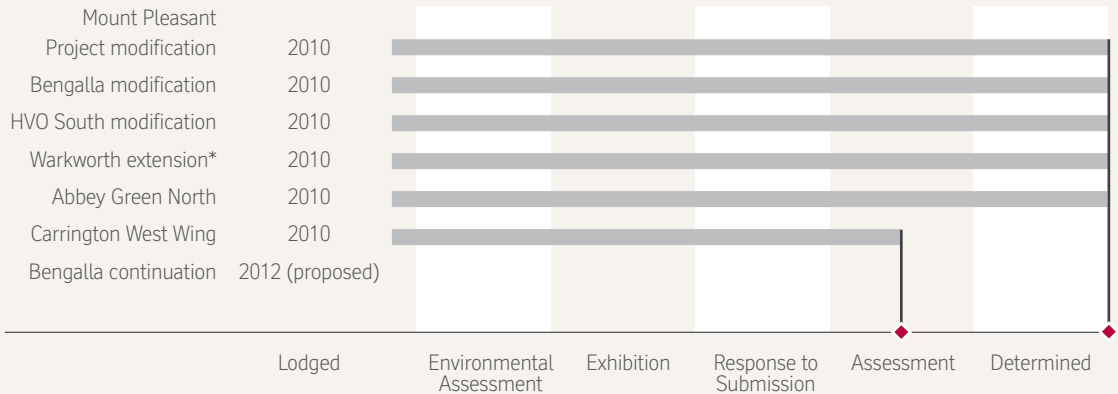
Bengalla is committed to keeping road users informed and will be placing advertisements in local papers during the construction period.

If you have any questions about this project, please drop into our shopfront at 19 Bridge Street or call our community information line on 1800 727 745.

Update on our projects

Coal & Allied has projects at various stages in NSW Government approval processes.

We will continue to provide updates and opportunities for community input.



* The Warkworth extension is subject to ongoing consideration under the Federal Government *Environmental Protection and Biodiversity Conservation Act (1999)*.

Mount Pleasant Community Consultative Committee

| | | |
|--------------------------------|--|-----------|
| Cr Karen Portolan (Chair) | PO Box 122 Muswellbrook 2333 | 6549 3700 |
| Cr Jeff Drayton (Deputy Chair) | PO Box 122 Muswellbrook 2333 | 6549 3700 |
| Jonathon Moore | "Gilgai" Wybong Road, Muswellbrook 2333 | 6547 9164 |
| Trevor Parkinson | 71 Brecht Street, Muswellbrook 2333 | 6543 2445 |
| Timothy Troon | 16 Birralee Street, Muswellbrook 2333 | 6541 2094 |

Coal & Allied representatives

| | | |
|-------------------|---|-----------|
| Tod Claytor | General Manager Operations Mount Pleasant Project | 6549 0502 |
| Elizabeth Yeo | Specialist Community Relations | 6549 0517 |
| Kirstin Macmillan | Environmental Specialist – Mount Pleasant Project | 6549 0503 |

Bengalla Community Consultative Committee

| | | |
|------------------------------|--|-----------|
| Cr Karen Portolan (Chair) | PO Box 122 Muswellbrook 2333 | 6541 3700 |
| Cr Malcom Ogg (Deputy Chair) | PO Box 122 Muswellbrook 2333 | 6549 3700 |
| Jonathon Moore | "Gilgai" Wybong Road, Muswellbrook 2333 | 6547 9164 |
| Kevin Lecky | 33 Woodlands Ridge Road Muswellbrook 2333 | 6541 2873 |
| Craig Flemming | PO Box 122 Muswellbrook 2333 | 6549 3700 |
| Noel Downs | PO Box 127 Muswellbrook 2333 | 6543 1288 |

Coal & Allied representatives

| | | |
|---------------|---|-----------|
| Andrea Sutton | General Manager Operations Bengalla | 6542 9500 |
| Debbie Day | Community Relations & Personal Assistant to the General Manager | 6542 9500 |
| Amy Harburg | Environmental Specialist | 6542 9500 |

Community Info line:

1800 727 745

Environmental Hotline:

1800 656 892

Blasting hotlines:

Bengalla: 02 6542 9591

HVO: 1800 888 733

MTW: 1800 099 669

Email:

cnacommunityrelations@riotinto.com

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Coal & Allied community newsletter Muswellbrook edition

Issue 11 - September 2012



Pictured: Students Billy Nichols, Lauren Korman, Alannah Miller and Brady Laughton with school teacher Sarah Milton and volunteer swim instructor Roger Mullins.

Muswellbrook students learn swimming and water safety skills

More than 240 Muswellbrook South Public School students and teachers have begun a 16-week programme to learn the fundamental skills of swimming and water safety thanks to a partnership with Coal & Allied.

School Principal Rebecca Langdon said the programme is being well received by the school community as it aims to ensure that students from Years Two to Six can safely and confidently enjoy the water.

"It's such an important safety initiative given that a lot of families within our school community cannot afford swimming lessons yet many children swim or play in the Hunter River or local dams," Rebecca said.

"It's the first time we've run a comprehensive programme like this and we're very pleased that the Coal & Allied

Community Development Fund has come on board to help fund it."

At the end of the programme students will be assessed on their swimming and water safety skills.

In addition to the 16-week course, the programme also provides longer term benefits with the accreditation of two teachers who will teach basic swimming and survival skills to students in the future.

Coal & Allied Principal Community Investment Stephen Sneddon said the Coal & Allied Community Development Fund was proud to partner with the school and the community in developing the water safety skills of the students, teachers and parents.

From the General Managers



Tod Claytor – Mount Pleasant

As we launch into Spring, it was great for our team to have the opportunity at the Merriwa Springtime Show to mingle with our neighbours. Coal & Allied is proud to be a major sponsor of the event for a second year.

The Mount Pleasant Project, along with Bengalla were pleased to support the Westpac Rescue Helicopter Service Black Coal Cup Charity Golf Day on 28 August.

It was a great day for an excellent cause which we have supported for 12 years. It was inspiring to see the community support for this event remains strong, with record numbers at this year's event.

As an update for the Mount Pleasant Project, we are continuing our review, investigating options to lower the cost of developing this mine. This review is expected to continue into 2013 and will be focused on providing the best value case for Rio Tinto to make a decision.

We also gave members of the Muswellbrook Chamber of Commerce and Industry an update on the project when Coal & Allied hosted the business group's breakfast meeting at our Muswellbrook shopfront during September. Some attendees also participated in a bus tour of Bengalla.



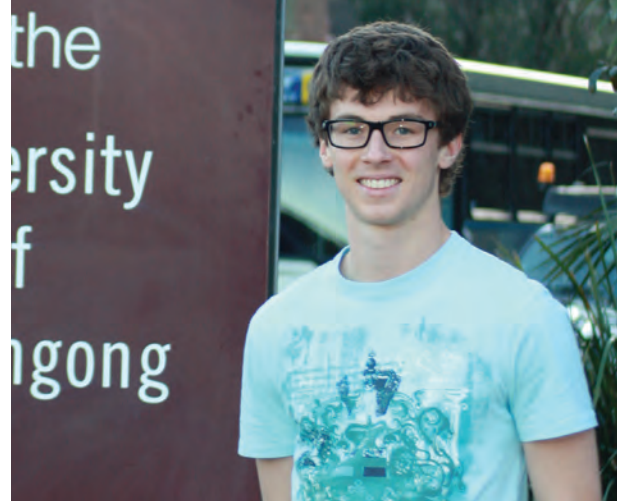
Dan Janney – Bengalla

This is my first newsletter as the General Manager Operations for Bengalla. On behalf of the team at Bengalla I would like to thank Andrea Sutton for her considerable achievements during her time here as general manager operations over the past four years and wish her all the best for her new role with Rio Tinto.

The Bengalla Community Open Day is fast approaching on Saturday 27 October. As I am new to the region I am looking forward to this opportunity to meet many of you at this fun family day out. See the back cover for more information including how to participate in a bus tour of the mine.

Bengalla's annual bird watching event was again a success on 8 September. Bengalla employees,

representatives from the Hunter Bird Observers Club and members of the community gathered to celebrate the diversity of birds in the Upper Hunter Valley. I hope that those of you who attended enjoyed scanning the skies along the riparian zone of the Hunter River for the many local species of birds in the area.



Pictured: 2011 Bengalla engineering scholarship recipient Hayden Nicol is looking forward to undertaking vacation work at Bengalla at the end of the year.

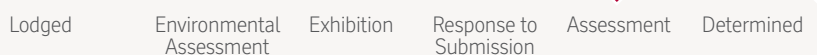
As we move into the second half of the year, Bengalla is supporting local students by providing scholarships to four Muswellbrook High School students for their university studies. A fifth scholarship has also been provided to the child of a Bengalla employee. In addition, applications have just closed for our engineering scholarship, and we look forward to announcing the winner in January. Last year's recipient Hayden Nicol (pictured above) from Muswellbrook said the scholarship has provided not only financial assistance but also hands on experience.

Finally, Bengalla was proud to support the Muswellbrook Race Club's Race Day on 5 August. Congratulations to the Club for celebrating its 150th Anniversary.

Update on our projects

Coal & Allied has a number of projects at various stages in the NSW Government approval process, including the Bengalla continuation. We will continue to provide updates and opportunities for community input. For more information contact our Community Relations team or visit our shopfront.

| Project | Year |
|-------------------------------------|-----------------|
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| Warkworth extension | 2010 |
| Abbey Green North | 2010 |
| Carrington West Wing | 2010 |
| Bengalla continuation | 2012 (proposed) |
| HVO North modification | 2012 (proposed) |



Bengalla works with farmers to increase land use and productivity

Local landowners, Bengalla, the University of Newcastle, HHM Projects and Hunter-Central Rivers Catchment Management Authority are working together to increase productivity and profitability for local farmers as part of a new soil carbon project.

The project will run for four years and aims to improve soil carbon management for farmers and develop a soil carbon model for the Upper Hunter.

Bengalla Environmental Specialist Amy Harburg said the project aims to deliver many benefits to land owners including improving agricultural productivity by increasing soil nutrient levels and water holding capacity.

"The research has the potential to deliver some really positive land-use outcomes for the region," Amy said.

The project will also look at soil carbon sequestration – removing carbon from the atmosphere and capturing it in soil. This has the potential to provide landowners with additional income, by trading sequestered carbon under the Federal Government's Carbon Farming Initiative.

The project is a commitment under Bengalla's consent conditions. Initial testing of all participating properties was completed in August.

Scholarships available for careers supporting rural and regional NSW

Five scholarships worth \$5000 each are available for Hunter Valley students who want to build careers that will help strengthen rural and regional areas of New South Wales.

The scholarships are available through a new partnership between Coal & Allied Community Development Fund and the Royal Agricultural Society of NSW Foundation and are aimed at supporting local students who are motivated to help build strong and sustainable rural and regional communities.

Royal Agricultural Society of NSW Foundation Executive Officer Jocellin Jansson said these scholarships will assist students by helping them pursue their educational and training goals.

"We're pleased that Coal & Allied has come on board to support our Rural Scholarship programme as it will help ease some of the financial challenges that rural and regional students often face," Jocellin said.

Applications close on 30 September 2012. For more information contact Royal Agricultural Society of NSW Foundation Executive Officer Jocellin Jansson on 9704 1234 or via email foundation@rasf.org.au.

Partnership to help local businesses

Coal & Allied is proud to launch a three year partnership with HunterNet to help local small to medium businesses understand and get involved in supply chains across a range of Hunter Valley industries.

HunterNet is a not-for-profit member organisation made up of a network of more than 190 small and medium-sized manufacturing, engineering and consulting companies in the Hunter region.

Coal & Allied Managing Director Bill Champion said as supply chains can be extremely complex for small to medium businesses to navigate and comprehend he is pleased to partner with HunterNet through the company's Community Development Fund.



Pictured: Bill Champion, HunterNet Chief Executive John Coyle, Member Services Manager Robert Masterson and Project Facilitator Michael Murray and Coal & Allied's Stephen Sneddon launching the partnership.

"Building upon the success of an initial programme the partnership aims to provide a model that will help businesses identify and target the best fit in a supply chain for their products and services," Bill said.

"I look forward to seeing more local businesses benefit from the region's industries."

Pictured: (Left) GSS Environmental's John Lawrie and Andrew Regan; Dr Brian Murphy, Dr Tony O'Hara, Chris Masters and Shane Curry from HHM Projects, University of Newcastle PhD student Priscilla Tremain and Amy Harburg from Bengalla.



Scholarships help students further their education

Four students from Muswellbrook, Aberdeen and Denman were among those to recently receive scholarships worth \$5000 each to help them get started in their university studies.

Coal & Allied was proud to partner with the University of Newcastle for the sixth consecutive year to help 12 students from the Hunter Valley to pursue their chosen professions with \$60,000 in scholarships through its Community Development Fund.

This year's winners include local recipients Abbey Bates, Jessie Hayne, Jessica Scott and Elizabeth Thompson.

First year Bachelor of Environmental Science student Jessie Hayne from Denman said the scholarship has helped launch her studies by buying textbooks and resources to allow her to focus on her studies rather than expenses.

"I would like to thank Coal & Allied for this scholarship, it has opened up opportunities and experiences that may not have been possible without it," Jessie said.

"When I graduate I would like to go into environmental monitoring and assessment in the mining industry as this will offer lots of different and exciting opportunities."

Coal & Allied Principal Community Investment Stephen Sneddon said the scholarships are part of the company's commitment to help build the sustainability of communities in the Upper Hunter.

"Our partnership with the University of Newcastle is not only an investment in the future of these students and those we have supported in previous years, but a long term investment in developing a diverse range of skills for the entire region," Stephen said.



Pictured: Scholarship recipients Jessie Hayne and Elizabeth Thompson with University of Newcastle Foundation CEO Louise O'Connell.



Pictured: International River Paramedics volunteers from Hong Kong, Germany and Korea and a local member take a break from their hard work on the banks of Muscle Creek.

River Paramedics rehabilitate local river banks

Community members, International River Paramedics volunteers and a Conservation Volunteers team leader spent a week undertaking rehabilitation work on Muscle Creek and the Hunter River near Muswellbrook recently as part of an ongoing rehabilitation programme.

Conservation Volunteers Northern NSW Regional Manager Leonie Winner said that 100 trees were planted and 6000 square metres of weeds were removed during the project.

"The valuable work the volunteers have done will assist to control erosion, improve water quality, restore habitats for native animals and remove harmful weeds," Leonie said.

Coal & Allied has partnered with Conservation Volunteers Australia through its Community Development Fund to support the River Paramedics programme since 2003.

The programme has seen more than 111,000 shrubs and trees planted, 650,000 square metres revegetated, 477,000 square metres weeded, three tonnes of rubbish removed and almost 9000 volunteer days contributed.



Get to know Dan

Dan Janney has just joined the Bengalla team in the role of general manager operations. Dan has answered some questions for us as we get to know him and his family.

Where were you before you moved to the Hunter Valley?

I lived in the remote town of Jabiru in the Northern Territory with my family and worked at the Ranger Uranium Mine. We lived there for about three and a half years before accepting the position with Bengalla. Prior to that I worked at Kennecott Utah Copper in the United States.

Can you tell us a little more about your family?

My wife Candice and I have three kids - Colton (14), Jacob (6) and Sarah (4). The kids are looking forward to experiencing the Hunter Valley.

What are you looking forward to living in the Hunter Valley?

I am looking forward to many aspects of living in the Hunter Valley. It is a very beautiful part of the world and there are so many things to do in this region. After living in a small remote community, we are also looking forward to having more options and conveniences around every day living.

What are your hobbies?

Hunting, fishing, mountain climbing, mountain biking, skiing and spending time with my family.

What three things should everybody know about you?

1. I grew up in a small country town in Montana, United States. 2. In a personal setting, I'm generally quiet until I get to know someone. 3. I enjoy playing the piano and the guitar.

What advice would you give your 20-year-old self if you had the chance?

I can't think of any advice that I could give to my 20 year old self, but I know my 20 year old self would have plenty to give to me now.

Community joins together to plant trees

Thanks to the joint efforts of local volunteers almost 3000 natives were planted across Muswellbrook's Karoola Park and Hyde Park in Denman to celebrate National Tree Day in July.

More than 80 community volunteers including Girl Guides, Scouts and Bengalla employees took part in the event managed by Muswellbrook Shire Council.

Muswellbrook Girl Guides Unit Leader Sally Jackson said that the Guides have been involved in tree planting activities over the last two years. This year they also cared for the seedlings a month after the planting, laying mulch with Coal & Allied staff.

"The environment is one of the major focuses in Guiding and it is important for us to nurture and care for it," Sally said.

"The girls really enjoy being part of a big project like this and it is a great way for us to contribute to the care of the environment and community."



Pictured: (Above) Muswellbrook Guides' Sally Jackson, Emily Wright, Gemma O'Leary, Angelica Say, Community Relations Officer Nataly Zelayandia, Abby McDonald, Jillian Armstrong, Alice Dunn and Cordelia Prangley undertaking mulching.

Community recognition at Hunter Business Awards

Coal & Allied proudly accepted the 'President's Award' for its contribution to the community at the 2012 Hunter Business Awards.

Hunter Business Chamber President Richard Anicich said he considered close to 1000 individuals and organisations affiliated with the Chamber when selecting a winner.

"I chose Coal & Allied because I was particularly impressed by the way the company contributes to the community outside its core business. Last year the company purchased products and services from more than 400 businesses in the Upper Hunter, injecting over \$628 million into the region's economy," Richard said.

"Through its long term community investment programme, they also invested in nearly 240 local projects in 2011, and over 60 of these were partnerships."

Richard also recognised how Coal & Allied's employees are encouraged to be active in their local communities, and since July last year have collectively raised over \$30,000 and committed almost 1600 hours to community work.

Coal & Allied Principal Community Investment Stephen Sneddon congratulated all the winners and finalists and said the company was proud to be announced the winner of the President's Award.

"Coal & Allied has been a strong and active member of the Hunter Valley community for more than 165 years, and being recognised by the Chamber for this work is an honour," Stephen said.

"While we're in the business of producing coal, we're proud of our contributions to the Hunter Valley community and we will continue to look at ways we can address their needs and challenges in the future."

Pictured: (Below) Hunter Business Chamber President Richard Anicich, Coal & Allied's Jennifer Bowcock and Stephen Sneddon and Hunter Business Chamber CEO Kristen Keegan.



Bengalla Link Road construction

Work to upgrade sections of Bengalla Link Road commenced in June and construction is progressing well with the focus continuing on the stretch between Denman Road and Wantana Road.

Works include repairing and strengthening the existing pavement, as well as upgrading drainage and the overall road design. Construction is expected to be complete in April 2013, providing a better, safer route for all road users. The construction is being funded under Bengalla's development consent commitments.

The safety of road workers and users is our first priority during this construction period. Traffic management is in place and motorists are required to slow down to 40km/h when travelling through the zone.

Speeds are being monitored for safety purposes and drivers will have seen the variable message board which is in place, to reinforce the need to slow down.

We are committed to keeping road users informed during the construction period.

If you have any questions about this project, please drop into our shopfront at 19 Bridge Street or call our community information line on 1800 727 745.



Pictured: A variable message board is in place in the construction area to show drivers their speed.

Upcoming events we are proud to support:

17 – 21 September

Upper Hunter Book Week - Children's author and illustrator Terry Denton will be visiting schools in Muswellbrook, Singleton and the Upper Hunter.

17 October

Muswellbrook Shire Council Solar Boat Challenge race day - Muswellbrook and Upper Hunter students who have designed and built solar powered, remote controlled, model boats will race against other teams. For more information visit www.solarboatchallenge.info

27 October

Bengalla Community Open Day – 10am-2pm Muswellbrook Showgrounds. Bring your family for a great day out including the opportunity to go behind the scenes on a mine tour.

Bengalla Open Day

Bengalla extends a warm welcome to all community members to join them at this year's Bengalla Community Open Day on Saturday 27 October from 10am-2pm. Held at the Muswellbrook Showground, the event will be a great day out for the whole family with a large range of displays and activities for all to enjoy.

There will be entertainment by Kyda Rock, a free barbeque and the opportunity to go behind the scenes on a guided bus tour of the mine. Tours will depart every 15 minutes from the showground between 10am and 2pm - bookings are required on the day. Children must be five years or older to take part in the tour and must be accompanied by a parent or guardian if under 12-years-old. Closed in shoes must be worn for the tour.

For more information, contact Debbie Day from Bengalla by email Debbie.Day@rtca.riotinto.com.au or phone 0459124511. For the safety of visitors and employees this event may be postponed due to rain so stay tuned to PowerFM for updates.



For more information about Coal & Allied's operations or activities in your local community:

Visit our shopfronts:

19 Bridge Street, Muswellbrook
127 John Street, Singleton

Call:

Community Information Line: 1800 727 745 (freecall)

Complaints Hotline: 1800 656 892

Environmental Hotline: 1800 656 892

Blasting hotlines:

Bengalla: 02 6542 9591

HVO: 1800 888 733

MTW: 1800 099 669

Email:

cnacommunityrelations@riotinto.com

Visit:

www.riotintocoalaustralia.com.au

Coal & Allied Industries Limited
123 Albert Street
Brisbane 4000 Australia

Mount Pleasant Community Consultative Committee

Cr Karen Portolan (Chair) 6549 3700

Cr Jeff Drayton (Deputy Chair) 6549 3700

Jonathon Moore 6547 9164

Trevor Parkinson 6543 2445

Timothy Troon 6541 2094

Coal & Allied representatives

Tod Claytor 6549 0502

Elizabeth Yeo 6549 0517

Kirstin Macmillan 6549 0503

Bengalla Community Consultative Committee

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Kevin Lecky 6541 2873

Craig Flemming 6549 3700

Noel Downs 6543 1288

Coal & Allied representatives

Dan Janney 6542 9500

Debbie Day 6542 9500

Amy Harburg 6542 9500

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Issue 12 - December 2012



Pictured: Bengalla employee Wally Boas with wife Felicity and son Zach taking part in the 'dress like a miner' at the Bengalla Open Day.

See page
5
for more
pictures from
the day.

Bengalla welcomes record crowd at their Community Open Day

More than two thousand people attended this year's Bengalla Community Open Day, taking the opportunity to go behind the scenes of a local mine and get up close to equipment bigger than their homes.

The bumper crowd at the bi-annual event enjoyed lots of free entertainment including a live broadcast from PowerFM, a free barbeque, face painting, a 'dress like a miner' photo station, interactive displays to learn more about Bengalla's operation and a guided bus tour of the site.

Bengalla General Manager Operations Dan Janney said: "The Community Day was about opening our doors so people get to know a bit more about us, what we do and our contribution to help strengthen the local community.

"It was great to see so many people come along, and have an opportunity for our employees who live in the area to show

their family what they do on the guided bus tours. I would like to thank our community partners, suppliers and employees for the part they played in the event's success and thank everyone who attended."

Some of Bengalla's community partners, including Wildlife Aid, were there on the day showcasing the initiatives that the mine supports. Bengalla's environmental experts were also on hand to talk about the types of monitoring equipment used on site as part of managing environmental impacts.

Bengalla employee Wally Boas attended the Open Day with his wife Felicity and son Zach. Wally said: "It was a great family day out, and nice to be able to show my son where his dad works. He really enjoyed the truck displays, face painting and activities. It was also great to see the many community partners and spend time with my co-workers in a relaxed setting."



Tod Claytor – Mount Pleasant

Welcome to the final edition of the Muswellbrook community newsletter for 2012. As the year quickly draws to a close, looking back it certainly has been a busy one for Coal & Allied. We were fortunate to work with many local community groups on projects that will truly build stronger and more sustainable communities surrounding our operations. Coal & Allied took time to celebrate these partnerships in November at our annual communities event. For more information on this event and on some of our community partnerships and programmes see page three.

The Mount Pleasant Project is continuing through a review period that will run into 2013. The review is focused on providing the best value case under the current financial environment for Rio Tinto to consider investing in construction.

I would like to take this opportunity to wish you and your family a happy and relaxing Christmas, and please make it a safe one by taking special care on our roads over the festive season.



Dan Janney – Bengalla

Bengalla certainly has had a jam-packed second half of 2012. The Community Open Day held in late October was a great opportunity to bring the community, our

employees, suppliers and partners together for a day of fun and festivity. I hope that all who attended found the day both enjoyable and educational as you took a closer look at our operations and our involvement in the community.

Work is continuing to upgrade and strengthen a section of Bengalla Link Road with traffic management in place. With safety as one of our business values we continue to ask road users to travel carefully and drive to conditions in the area. If you have any questions on this work please contact our Community Relations team.

Congratulations to Bengalla's Emergency Response Team for their recent success at the Queensland Mine Rescue Challenge where they competed in exercises to test theory and practice including a rescue from a building filled with smoke, a multi casualty scenario, a fire exercise, vertical rescue and road rescue.

The team performed very well in all exercises, won the fire exercise and came second in individual practical.

I would like to take the opportunity to thank the entire Bengalla team and our service providers for their dedicated efforts to work safely and productively each day. I would also like to join Tod in wishing you and your families a happy holiday season and a safe new year.

Update on our projects

Coal & Allied has a number of projects at various stages in the NSW Government approval process, including the Bengalla continuation. We will continue to provide updates and opportunities for community input. For more information contact our Community Relations team or visit our shopfront.

| | |
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| Bengalla continuation | 2012 (proposed) |
| HVO North modification | 2012 (proposed) |



Bengalla Continuation project

Bengalla is proposing to extend the life of the mine by 21 years from its current development consent, which allows mining until 2017. The Continuation project would see mining continue west, away from Muswellbrook on land that is owned by Bengalla.

As part of the Bengalla Continuation project the site is preparing an application for a Development Consent under Part 4 of the *Environmental Planning and Assessment Act 1979*. An Environmental Impact Statement (EIS) that will accompany this application is being finalised and is expected to be placed on public exhibition in 2013.

Bengalla is committed to engaging the community in this process and will ensure feedback is integrated into the Environmental Impact Statement being prepared. Bengalla will provide the community with further information of where the EIS can be viewed and how to make a submission.

If you have any questions about the Bengalla Continuation project please drop into Coal & Allied's shopfront at 19 Bridge Street or call our community information line on 1800 727 745.

In the community

Solar Boat challenge

On 17 October students from 12 local schools competed in a race with a difference, putting to the test the environmentally-friendly remote controlled solar-powered boats they had spent months creating. Bengalla and the Mount Pleasant Project were again pleased to sponsor the challenge which



Pictured: Race day for the Solar Boat challenge.

gets the students interacting with forms of alternative energy while engaging in fun and creative activities.

This year we were pleased to sponsor two schools and provide technical support for Sandy Hollow Public School, Muswellbrook Public School, Muswellbrook South Primary School and St James Public School.



Pictured: Will Rankin and Jack Price from Muswellbrook Public School with their solar boat.

Beef Bonanza

The seventh annual Upper Hunter Beef Bonanza was held over three days in early November, providing educational opportunities and competitions for young people. The Coal & Allied Community Development Fund supported the event with more than 520 students from 32 high school students from across the state participating to learn more about the cattle industry. The Bonanza also provided



Pictured: Coal & Allied's Stephen Sneddon with student Jenny Quera.

an opportunity for local livestock producers to benchmark the quality of their own cattle production. Coal & Allied principal community investment Stephen Sneddon said: "We are proud to support the Upper Hunter Beef Bonanza which promotes beef production as an important industry in the region and educates young people about career opportunities in agriculture."

Sustainability Street holiday programme



Pictured: Lily Kenah, Eden Kenah, Toby Large and Darcy Large with their scarecrows they made for community gardens.

Children learnt how to grow vegetables and make scarecrows during holiday activities as part of Muswellbrook Shire Council's Sustainability Street programme. The programme aims to increase awareness in the community about how easy it is to live sustainably and the simple steps people can take such as recycling properly and switching light bulbs to make a big difference to the sustainability of the community. The programme is a three year partnership between Muswellbrook Shire Council and the Coal & Allied Community Development Fund.

Coal & Allied celebrates partnerships

In early November Coal & Allied joined with some of its community partners, council members, local businesses, school Principals and media to celebrate programmes that benefited the local community this year. This year Coal & Allied had the opportunity to work with more than 170 projects and more than 60 programmes in partnership.

Guests had the opportunity to enjoy the beautiful gardens and chapel at the picturesque Sacred Spaces, Convent of Mercy venue in Singleton. With St Catherine's Catholic College students entertaining attendees and delicious catering prepared by Singleton High



Pictured: Coal & Allied and community partners celebrate 2012.

students, the evening was a great opportunity to reflect on a busy and successful year of partnerships.

The Coal & Allied Community Development Fund, Aboriginal

Development Consultative Community and the site donation committees would like to thank each of its partners for another great year of collaboration.

Congratulations

Bengalla 2012 undergraduate scholarship winners

Each year Bengalla offers five undergraduate scholarships each valued at \$3000. Four are awarded to Muswellbrook High School students and the fifth awarded to the child of a Bengalla employee regardless of their school.

Congratulations to this year's recipients - Tamara Peterson, Natalia Suel, Petra Franks and Nicholas Logan from Muswellbrook High School and Amelia Walsh.



Pictured: Muswellbrook High School scholarship winners.

London 2012 medallist inspires local students

More than 500 Upper Hunter Valley students had the chance to meet an Olympic hero and see Olympic gold and silver medals up close in September when Australian champion rower Drew Ginn toured the region. Drew visited schools, community groups and mines, thanks to his role as an athlete ambassador for Rio Tinto, a proud, official partner of the Australian Olympic Team.

Fresh from winning a silver medal in London, the three-time gold medallist shared his experiences about teamwork, overcoming obstacles and achieving goals with the students at Muswellbrook South Public School and Muswellbrook High School.

“Both students and teachers were mesmerised by Drew - it was an amazing opportunity to have him come and talk to us in person.”

Muswellbrook South Public School Principal Rebecca Langdon said: “Drew was an inspiration to the students,

Pictured right: Olympian Drew Ginn talking to students Daisy Ratatagia, Bianca Davies, Cassidy Watts and Rhyllie Pereira.

sharing his journey and talking about the importance of having goals and aspirations, and what is possible when you put your mind to something.

“Both students and teachers were mesmerised by Drew - it was an amazing opportunity to have him come and talk to us in person after we had just watched him at the Olympics. To see him, and the medal he won in London brought home that he was a person who had worked really hard to get to where he is.



Masterchef Andy Allen helps Bengalla support the Muswellbrook Hospital

The 2012 Masterchef winner Andy Allen joined Bengalla employees to BBQ for a good cause, raising funds for the Muswellbrook Hospital. This event was part of a larger employee-driven initiative to raise funds for the Muswellbrook Hospital Auxiliary.

Employees donated and were able to ‘buy’ a photo with the Masterchef to raise funds. Raffle tickets were also sold onsite for prizes including one week’s accommodation at Fingal Bay.

More than \$8700 was raised by Bengalla, with Coal & Allied matching this amount. The donation will go towards items required by the hospital include equipment and furniture.

Pictured above: Andy Allen with Bengalla’s Luke Holz and Shirley Smith, and Sue Durham and Eve Hulbert from Muswellbrook Hospital Auxiliary.

Seen out: Bengalla Open Day

On Saturday 27 October thousands came to take a closer look at Bengalla.

“We are going to plant our Banksia seedlings in our backyard. Do you know that Banksias drop their seeds during a bushfire, so they can grow again?”

Sarah and Ethan Wise

“We last did this tour eight years ago and it was fantastic. We drive past Bengalla every day on the way to school. This is a great opportunity to see what happens behind the fence.”

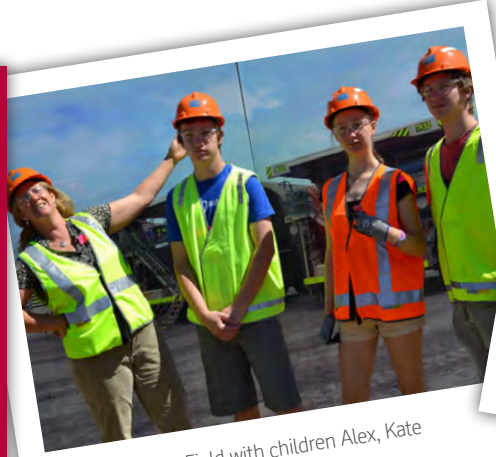
Nicola Field

“This is my first time at Bengalla Open Day. It is a great day, and wonderful atmosphere. There are so many people here. I am really looking forward to seeing the mine in action. I am definitely going to come again next time.”

Mick Wheeler

“I am getting a power switch to make it easier to turn my appliances on and off. I am also signing up for more information about Sustainability Street.”

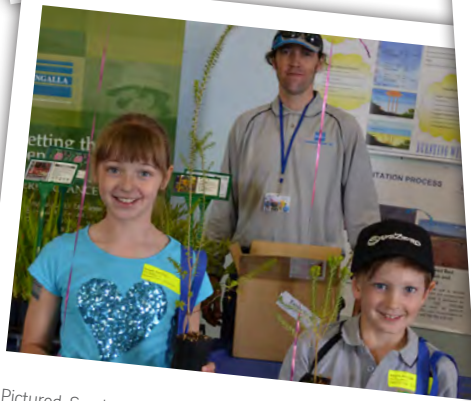
David Hartley



Pictured: Nicola Field with children Alex, Kate and Chris 'dress like a miner'.



Pictured: Senior Constable Keli with Isabella and Sienna Osborne at the Muswellbrook PCYC display.



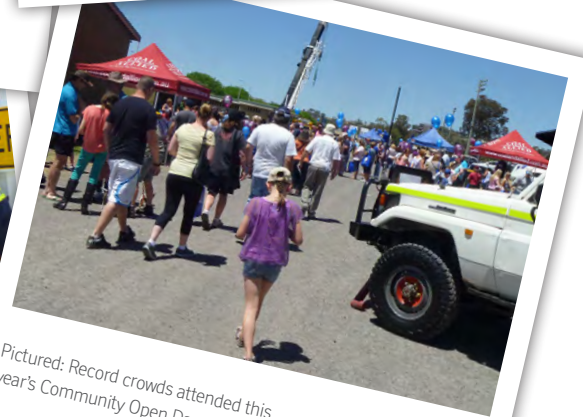
Pictured: Sarah and Ethan Wise with Bengalla Environmental Advisor Calvin Leech.



Pictured: Isobel Dimmock, Jessica Dimmock, Charlotte Bell and Matilda Dimmock with seeds to plant.



Pictured: Russell Hartin, Mick Murdoch, John Brady and Kurt El-Sayed manning the Maintenance display.



Pictured: Record crowds attended this year's Community Open Day.



Pictured: Becky Lockyer, Trent Stapleton and Nataly Fay trial Coal & Allied's energy bike.



Pictured: Cassandra Mpeleris from St James School with her 3rd prize winning colouring in artwork.

Bengalla shares environmental practices with international guests and NSW mining industry

Bengalla's environmental team have had a busy couple of months showcasing the leading practice work taking place on site.

In September, journalists, mining executives, university heads and professors and Government advisors from Mongolia visited Bengalla to take a closer look at how the site manages rehabilitation and air quality control.

Bengalla recognises that noise and dust can be issues for neighbouring communities and minimising the effect of these operational impacts is an ongoing focus. An extensive air and noise monitoring network helps Bengalla manage these impacts from its operations.

Bengalla is progressive in its approach to reducing dust and uses cover crop on disturbed areas to minimise dust while rehabilitating land as soon as possible to reduce exposed areas. Rehabilitation is a key part of the mine plan for Bengalla and scheduled well in advance.

In late October Bengalla presented at the NSW Minerals Council Environment and Community Conference about its Soil Carbon Project, and the development of a soil carbon model.

Environmental Specialist Amy Harburg said: "Bengalla is one year into a four year project partnering with local farmers and Government stakeholders to develop farm management practices that aim to improve soil carbon levels and soil productivity in the Hunter Valley. The project has progressed well with a large amount of soil mapping already being completed and the development of a soil carbon model is well underway."



Bengalla Link Road construction update

The ongoing upgrade work on Bengalla Link Road is continuing between Denman Road and Wantana Lane. Works have now moved to the Denman Road end, as well as the opposite end on the section between Keys Bridge and Wantana Lane. Works include repairing and strengthening the existing pavement, as well as upgrading drainage and the overall road design.

The first section of roadway is now mostly complete with some further works to be undertaken on the east-bound section. Construction is expected to be complete in March 2013, ahead of our original schedule.

We thank road users for their patience during this upgrade and remind drivers that a variable speed limit of between 40km/hr and 60km/hr is being enforced in the area. Speeds are being monitored for safety purposes and drivers will have seen the variable message boards which are in place to reinforce the need to slow down. The safety of road workers and users is our first priority during this construction period.

This upgrade will provide a better, safer route for all road users and the construction is being funded under Bengalla's development consent commitments.

We are committed to keeping road users informed during the construction period. If you have any questions about this project, please drop into the Coal & Allied shopfront at 19 Bridge Street or call our community information line on 1800 727 745.

For more information about Coal & Allied's operations or activities in your local community:

Visit our shopfronts:

127 John Street, Singleton
19 Bridge Street, Muswellbrook

Call:

Coal & Allied Information Line
1800 727 745 (freecall)
Community Complaints Hotline
1800 656 892 (freecall)

Email:

cnacommunityrelations@riotinto.com

Visit:

www.riotintocoalaustralia.com.au

Coal & Allied Industries Limited
123 Albert Street
Brisbane 4000 Australia

Mount Pleasant Community Consultative Committee

| | |
|----------------------------------|-----------|
| Cr Karen Portolan (Deputy Chair) | 6549 3700 |
| Jonathon Moore | 6547 9164 |
| Trevor Parkinson | 6543 2445 |
| Timothy Troon | 6541 2094 |
| Llewellyn Bates | 6547 9170 |

Coal & Allied representatives

| | |
|---------------|-----------|
| Tod Clayton | 6549 0502 |
| Elizabeth Yeo | 6549 0501 |

Bengalla Community Consultative Committee

| | |
|-------------------------------|-----------|
| Cr Karen Portolan (Chair) | 6541 3700 |
| Cr Malcolm Ogg (Deputy Chair) | 6549 3700 |
| Jonathon Moore | 6547 9164 |
| Kevin Lecky | 6541 2873 |
| Craig Flemming | 6549 3700 |
| Noel Downs | 6543 1288 |

Coal & Allied representatives

| | |
|-------------|-----------|
| Dan Janney | 6542 9500 |
| Debbie Day | 6542 9500 |
| Amy Harburg | 6542 9500 |

MOUNT PLEASANT PROJECT

Coal & Allied Operations Pty Ltd

ABN 16 000 023 656

19 Bridge Street, Muswellbrook

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