MOUNT PLEASANT PROJECT





Annual Environmental Review 2015

Name of Mine

Titles/Mining Leases

MOP Commencement Date

AEMR Commencement Date

AEMR Completion Date

Name of Mining Lease Holder

Name of Operators

Reporting Officer Title

Signature

Date

Mount Pleasant Open Cut Coal Project

Mining Lease 1645

Authorisation 459

MOP not yet prepared

1 January 2015

31 December 2015

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24 February 2016

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1. Introduction

1.1. Scope

This Annual Review (AR) has been developed 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 2015 reporting period, 1 January 2015 to 31 December 2015.

Copies of this report will be submitted to:

- NSW Department of Planning and Environment (DP&E);
- NSW Department of Industry, Division of Mineral 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.

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1.3. Mount Pleasant Project Personnel 2015

The personnel responsible for environmental performance at MTP in 2015 are detailed in Table 1 – Mount Pleasant Project Personnel 2015

Name	Position
Tim Kassulke	General Manager – Health, Safety, Environment & Communities
Colin Mackey	General Manager Projects – Aluminium and Energy Projects
Michael Lloyd	Specialist - Project Approvals
Nicola Proctor	Specialist - Community Relations
David Patterson	Senior Advisor – Health, Safety and Environment

Table 1 – Mount Pleasant Project Personnel 2015

1.4. Consents, Titles and Licences

The development consent, Commonwealth approval, mining titles and water licences held by Coal & Allied for MTP are detailed in Table 2, Table 3 and Table 4.

Table 2 – Approvals	s for the Mount	Pleasant Project
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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 3 – Mount Pleasant Project Mining Titles

Title Type		Purpose	Grant Date	Expiry Date	Status
Auth 459	Authorisation	Prospecting	07/04/1992	08/04/2015	Renewal Pending
ML 1645	ML 1645 Mining Lease Prospecting and Mining Coal		17/12/2010	16/12/2031	Granted
ML 1713	Mining Lease	Prospecting and Coal Mining	02/02/2015	01/02/2036	Granted
ML 1708	Mining Lease	Prospecting and Coal Mining	02/02/2015	01/02/2036	Granted
ML 1709	Mining Lease	Prospecting and Coal Mining	02/02/2015	01/02/2036	Granted

Table 4 – Mount Pleasant Project Water Licences

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

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

Licence Number	Type of licence	Purpose	Legislation	Description	Date Licensed	Approved Extraction (ML)	Actual Extraction 2015 (ML)
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

* Irrigation purposes only

2. Environmental Management

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

2.1. Management Plans

The Development Consent requires the proponent to submit management plans and strategies prior to carrying out any development on site.

Table 5 - Mount Pleasant Management Plans and Status below summarises the status of the Mount Pleasant Management Plans as at January 2015.

Plan Name	DA 97/92 reference	Status (January 2015)
Noise Management Plan - Construction	Schedule 3, Condition 9	Approved - 2 December 2015
Air Quality and Greenhouse Gas Management Plan – Construction	Schedule 3, Condition 23	Approved – 2 October 2015
Water Management Plan – Construction	Schedule 3, Condition 28	Approved – 23 July 2012
Landscape Management Plan	Schedule 3, Condition 47	Approved – 20 July 2012
Waste Management Plan – Construction	Schedule 3, Condition 52	Approved – 27 April 2012
Rehabilitation Strategy	Schedule 3, Condition 54	Approved – 27 Feb 2012
Biodiversity and Rehabilitation management Plan (biodiversity portion only)	Schedule 3, Condition 56	Approved – 21 May 2012
Environmental Management Strategy	Schedule 5, Condition 1	Approved – 31 Jan 2013
Blast Management Plan	Schedule 3, Condition 17	To be developed (Prior to any blasting on site)
Offset Strategy	Schedule 3, Condition 29	To be developed
Aboriginal Heritage Conservation Strategy and Management Plan	Schedule 3, Condition 33 & 36	To be approved

Table 5 – Mount Pleasant Management Plans and Status

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 prepared, submitted and approved as the construction project transitions to an operating mine. Given the time that has elapsed since the majority of these plans were approved, a review and approval process was implemented and is almost complete.

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 3 years of operation. To provide for ease of understanding, the Biodiversity and Rehabilitation Management Plan and the Rehabilitation Strategy have been combined in to a single document (the Rehabilitation Management Plan). This Plan combines all of the elements from both original documents, containing no original management activities not contained in the previous documents.

2015

3. Compliance activities

3.1. Compliance Review

Schedule 5, Condition 9 of the development consent requires an independent environmental audit to be completed as of March 2014 (and every 3 years thereafter). Given the Mount Pleasant Mine has not yet commenced construction or operation it was determined by the Director General that the need for such an audit is diminished. Instead the independent audit was completed using the following:

- A one-on-one compliance review will be undertaken as suggested by Coal & Allied by the end of March 2014 (completed 13/03/2014). Any outcomes of this review will be completed in a time agreed to during the review;
- Further one-on-one reviews will be undertaken every 3 years from March 2014 whilst construction works for the mine are yet to commence;
- Should construction commence then a full Independent Environmental Audit will be undertaken within 12 months of the date of commencement and every 3 years thereafter, as described in Condition 9 Schedule 5. The Director General approves this change to auditing requirements, but reserves the right to make further changes if required.

These changes, as described above, were approved by the Director General who reserves the right to make further changes.

As an independent audit was completed in 2014, an audit was not undertaken in 2015. Construction of Wybong Road and Mount Pleasant is proposed to commence during 2016. Based on the above requirements, the first full independent environmental audit is proposed to occur in Q2 or Q3 of 2017, dependent upon actual construction commencement. Table 6 below is a summary of the actions that were identified in the 2014 Audit. Observations from Rio Tinto regarding the status of the actions have been included.

DA 97/92	Condition	Observation	Action / Comment
Schedule 3, Condition 8	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.	Observation: environmental monitoring results need to be extracted/copied from the annual review and separately added to website in new section to be more user friendly.	There was no site activity during 2015.
Schedule 3, Condition 9	The Applicant shall prepare and implement a Noise Management Plan for the development to the satisfaction of the Director- General.	Plan was approved in December 2015.	The Noise Management Plan - Construction was approved in December 2015.
Schedule 3, Condition 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.	Plan was approved in October 2015.	The Air Quality and Greenhouse Gas Management Plan - Construction was approved in October 2015.
Schedule 3,	The Applicant shall prepare	Compliant. Observation:	A standing agenda item is included

Table 6 – Mount Pleasant Compliance Summary Observations

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Condition 32	and implement a Biodiversity Management	P&I have requested all mining companies to	to the CCC inviting feedback.
	Plan for the development to the satisfaction of the Director-General.	review their respective BMPs. A review of the BMP has been undertaken.	
Schedule 3, Condition 33	The Applicant shall prepare and implement an Aboriginal Heritage Conservation Strategy for the development to the satisfaction of the Director- General.	Plan yet to be approved, undergoing review by Coal & Allied. P&I satisfied with the progress	The Aboriginal Heritage Conservation Strategy is a schedule to the ACHMP described in condition 36
Schedule 3, Condition 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	Compliant, plan approved. Requirements of the plan are ongoing.	A final version of the plan was submitted in January 2015.
Schedule 3, Condition 36	The Applicant shall prepare and implement an Aboriginal Heritage Management Plan for the development to the satisfaction of the Director- General.	Plan has now been approved (as an interim plan).	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 and an additional review has been completed. This plan is currently being resubmitted.
Schedule 5, Condition 11	The Applicant shall make the following information publicly available ort its website.	Compliant. Observation: environmental monitoring results need to be extracted/copied from the annual review and separately added to website in new section to be more user friendly.	This information is available on the Rio Tinto Coal Australia Website: www.riotintocoalaustralia.com.au

3.2. Annual Environmental Monitoring Report (AEMR) Review

The NSW Trade and Investment - Division of Resources and Energy (DRE) completed an inspection review of the Mount Pleasant Lease on the 9th September 2014. The inspection covered the expansion of the existing farm dam and upgrade of the track to the existing residence. The inspection identified some issues that were summarised in an action plan which has been summarised in Table 7 below.

Table 7 – Action	Plan from	response to	DRE AEMR	inspection review	v.
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Ref.	Issue / Observation	Action	Coal & Allied Response	Timing
5	Derelict road tanker present on site (see	Remove the tanker	Tank to be removed when suitable	Commencement of construction or prior to
	plate 1)		equipment is available	renewal of Mining

	(i.e. commencement of	Lease 1645
	construction)	

All other actions identified in the DRE AEMR inspection have been closed out, as previously identified in the 2014 Mount Pleasant AEMR.

4. Environmental Monitoring

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 2015. Appendix 1 shows the location of all monitoring sites.

4.1. Meteorological Monitoring

Meteorological monitoring includes total monthly rainfall and cumulative rainfall for 2015, monthly maximum and minimum temperatures, maximum wind speeds and monthly and annual wind roses. A new meteorological station located off Kayuga Road was constructed in 2011 and brought online in April 2012. A copy of the full extract of monitoring results data is presented in **Appendix 2** with summaries provided below.

4.1.1.Rainfall

During the 2015 reporting period, approximately 536.6mm of rain was recorded at the MTP meteorological station over 90 days. The highest daily rainfall for 2015 was 38.6mm on August 28. Monthly rainfall distribution, number of wet days and cumulative rainfall is summarised in Table 8. Monthly rainfall records and cumulative rainfall (January 2015 - December 2015) are illustrated in Figure 1. A comparison of rainfall trends since 2013 are presented in Figure 2.

	Jan	Feb	Mar	Apr	Мау	Jun	July	Aug	Sep	Oct	Nov	Dec
Monthly Rainfall 2015 (mm)	94.6	17.2	1.0	45.0	68.4	27.2	19.0	58.0	22.6	40.4	77.8	77.4
Cumulative Rainfall 2015 (mm)	94.6	111.8	112.8	157.8	226.2	253.4	272.4	330.4	353	393.4	471.2	548.6
Wet Days*	10	3	2	6	8	6	9	6	5	9	7	8

 Table 8 - Rainfall Summary for MTP 2015

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



Figure 1 - Monthly and Cumulative Rainfall for 2015



Figure 2 - Monthly and Cumulative Rainfall 2013-2015

4.1.2. Temperature

During 2015, the maximum temperature recorded at MTP Meteorological Station was 41.5°C (20th March 2015). The minimum temperature recorded was -2.8°C (29th July 2015). Daily maximum and minimum temperatures at the MTP meteorological station during 2015 are illustrated in Figure 3, with temperature trends from 2011 to 2015 shown in Figure 4.



Figure 3 - Daily Maximum and Minimum Temperature 2015



Figure 4 - Daily Maximum and Minimum Temperatures 2011-2015

Figure 4 shows that generally there have been no significant temperature fluctuations between annual cycles in the years 2011 to 2015.

4.1.3. Wind Speed and Direction

During the 2015 reporting period, prevailing and dominant winds varied seasonally, with South South Easterlies dominant the majority of the year and North Westerly winds dominant in winter. Dominant wind speeds ranging from 1.1m/s to 7.9m/s were measured for the greatest proportion of time.

Figure 5 shows wind speed and direction as a percentage of time for the 2015 reporting period.





4.2. 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*. Results from dust gauge D3 are representative of Muswellbrook town centre. The annual average for this site was 1.5 g/m² per month in 2015. **Error! Reference source not found.** illustrates the location of the dust monitoring network. Monthly dust deposition monitoring results are provided in **Appendix 2**.

Data recovery (samples collected and analysed) for the 13 depositional dust gauges during 2015 was 100%. Figure 6 shows 12 of the 13 sites recorded levels below the annual impact assessment criteria. Site D7 recorded results above the annual impact assessment criteria, with an annual average of 5.8 g/m^2 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, and has consistently displayed elevated levels above the MTP trigger level. Site D7 has previously displayed levels above the annual impact assessment criteria for depositional dust. Proximity to the Bengalla mine and a lack of consistent rain throughout the year may have contributed to this elevated result.



Figure 7 provides a comparison between annual average dust deposition levels at each of the monitoring sites from 2012 to 2015. Dust gauge D7 has exceeded the long term criteria in all years.

Figure 6 - Annual Average Insoluble Solids 2015



Figure 7 - Annual Average Insoluble Solids 2012 – 2015

4.3. Surface Water Monitoring

There are 10 surface water monitoring sites located in the natural watercourses surrounding MTP (**Error! Reference source not found.**). 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 equivalent. 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. It was not possible to safely access sites W1 and W6, therefore monitoring was not undertaken and regular flow rates for W1 are based on previous records. 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. The full results of monthly surface water monitoring from 2015 can be found in **Appendix 2**.

Water quality is evaluated through the parameters of pH, electrical conductivity and Total Suspended Solids (TSS). Table 9 shows water quality criteria for watercourses as outlined in the ANZECC Guidelines (2000) NSW Lowland Rivers.

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

Table 9 - Surface water quality criteria

The Hunter River is sampled at two sites upstream (W1 & W2) and two sites downstream (W6 & W3) of the proposed Mount Pleasant release point to establish baseline data prior to the commencement of mining activities. Site W1 is located furthest upstream of the MTP lease boundary, while site W3 is furthest downstream as seen in **Error! Reference source not found.** Access to Site W1 and W6 were not monitored during 2015 due to the lack of safe site access. 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.

4.3.1.**pH**

The pH of surface water ranged from pH 6.8 to 8.3 in 2015, as seen in Figure 8- Surface Water pH Trend 2014 - 2015

. The calculated average pH for MTP in 2015 was pH 7.6. 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 9. 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 8- Surface Water pH Trend 2014 - 2015



Figure 9 - Surface Water pH Trend 2014 – 2015

4.3.2. Electrical Conductivity

During the reporting period, the EC levels at the monitoring locations stayed within the target range of 125 to 2200 μ S/cm. Figure 10 shows site W4 (Muscle Creek) registered higher EC values and experienced greater fluctuations than the Hunter River sites.



Figure 11 shows longer term data and demonstrates that the EC is consistently higher and more variable at W4. This is likely due to the location of W4 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 600µS/cm to 3000µS/cm is normal.

W8 is a historically dry location and only experiences flow after extremely heavy rainfall events. W9 is located in an ephemeral waterway. The low EC levels recorded at W8 and W9 are typical of heavy rainfall events.



Figure 10 - Surface Water Electrical Conductivity 2015



Figure 11 - Surface Water Electrical Conductivity Trend 2014 – 2015

4.3.3. 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 for W8 and W9 on all sampling occasions (as seen in Figure 12). The elevated TSS samples at W8 and W9 generally coincide with heavy rainfall events which cause increased runoff. Figure 13 shows TSS trends fluctuate yearly following high rainfall and sites monitored on the Hunter River are generally below the 50mg/L criterion.



Figure 12 - Surface Water Total Suspended Solids 2015 NB: This graph has been plotted on a logarithmic scale.



Figure 13 - Surface Water Total Suspended Solids Trends 2014–2015 NB: This graph has been plotted on a logarithmic scale.

4.4. 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 **Error! Reference source not found.** Monitoring results are displayed in Figure 14 to Figure 22. 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).

4.3.4. Standing Water Levels

SWL's have remained relatively stable across all bore sites during the period 2013 - 2015, with the exception of 5000D000 (S) however this bore recovered to it's typical standing level within 3 months. This is illustrated in Figure 14, Figure 15 & Figure 16.

WRA2L shows a decline in standing water levels steadily over the last three years. Longer term trends show that the standing water levels increased from a lower level for a period, before beginning to decline again. It is possible that this may be attributed to water extraction for agricultural purposes.



Figure 14 – Central Groundwater Boreholes Standing Water Levels 2013 – 2015



Figure 15 – Eastern Groundwater Boreholes Standing Water Levels 2012 – 2014



Figure 16 – Western Groundwater Boreholes Standing Water Levels 2013 – 2015

4.3.5.pH Levels

pH for all bores across the lease has generally remained within the 6.5 to 8.0 range. Central groundwater bore sites ranged from pH 6.0 to 8.0 as shown by Figure 17. There were no results for site 6500F625 as the bore was dry on all sampling dates in 2015.



Figure 17 – Central Groundwater Boreholes pH Levels 2013 – 2015

The pH at the eastern groundwater bores ranged from pH 6.6 to 8.1 in 2015 as shown in Figure 18.



Figure 18 – Eastern Groundwater Boreholes pH Levels 2013 – 2015

The pH levels for the western groundwater bores were between pH 6.5 and 8.10 as shown in Figure 19. Results for WRA1U and WRA2U are absent as the bore was dry on sampling dates in 2015.



Figure 19 – Western Groundwater Boreholes pH Levels 2013 – 2015

4.3.6. Electrical Conductivity

The eastern bore EC levels remained fairly constant throughout 2015, with the exception of MPBH3 (2) which fluctuates steadily as shown in Figure 20.



Figure 20 – Eastern Groundwater Boreholes Electrical Conductivity 2013 – 2015

EC trended upwards for the majority of the central groundwater bore sites as shown by Figure 21. Bore 4500F000 continued to spike during Q2 of each year and bore 3500C500 increased from 1910 μ S/cm in 2014 to peak at 9600 μ S/cm before declining to 7780 μ S/cm at the end of 2015. The results for bores 3500C500 and 4500F000 showed fluctuations similar to those recorded in recent years; however these are not in keeping with longer term records for the site. The fluctuations experienced in central bores are typical for the area as they are greatly affected by the weather conditions as such EC levels can increase fluctuate significantly between wet and dry periods. Results are not available for 6500F625 as the bore was dry in 2015.



Figure 21 - Central Groundwater Boreholes Electrical Conductivity 2013 – 2015

In 2015, the EC level at the majority of the western groundwater bores remained reasonably constant as shown in Figure 22. WRA3U showed the most variation in EC levels throughout the year.

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 3000μ S/cm between 2013 and 2015. These trends show that variations of greater than 2000μ S/cm occur commonly at the western groundwater bore sites.



Figure 22 - Western Groundwater Boreholes Electrical Conductivity 2013 – 2015

4.5. Noise Monitoring

Noise monitoring (attended or unattended) was not undertaken during 2015. There was no activity within the site boundaries from associated MTP works. As sufficient background data exists for the site, it was not considered necessary to undertake monitoring for 2015. Noise monitoring is to commence as outlined in the Noise Management Plan (Construction) in the identified locations.

5. Land Management

5.1. 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 2015.

5.2. Topsoil Stripping, Landscape and Land Management

No topsoil stripping was undertaken at MTP in 2015.

Weed Control works in 2015 focussed on controlling African Boxthorn *Lycium Ferocissimum* and St John's Wort *Hypericum perforatum*. The elevation of *Lycium Ferocissimum* to a Weed of National Significance (WONS) has increased the need for control and planned eradication within the Mine Lease area and outlying properties. Weed management works were conducted in May/June and November followed by a review by the Upper Hunter Weeds Authority in December. Further control works will continue in 2016.

In May 2015 a 1080 baiting program targeting feral dogs and foxes was conducted under the direction of the Local Land Services and in conjunction with the Wybong Wild Dog Association.

In October a specialist vertebrate pest management contractor was engaged to implement a feral pig control program. At the completion of the program a total of 37 pigs had been euthanized.

In 2015 there was routine fence replacement/maintenance conducted on adjoining buffer properties to enable grazing of livestock to the project area, to assist with pasture based fuel load management.

5.3. Bushfire Management

The Bushfire Management Plan developed in 2003 for all Coal & Allied owned land is reviewed 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:

- Slashing of vegetation along roads and internal tracks which are used as fire trails and assist dividing the site into control zones;
- The use of livestock to reduce pasture based fuel loads on land suitable for grazing; and
- A network of water supply points to assist the NSW Rural Fire Service (RFS) with logistical support.

In 2015 the following activities were undertaken in respect to fire preparation:

- Maintenance of 20km of boundary and roadside firebreaks;
- Maintenance of 5 km of internal firebreaks and trails;

- Audits and maintenance of eight (8) 'RFS Ready' tanks equipped with Static Water signage, • STORZ fittings/valves and external levitators. Tanks were inspected prior to the start of the bushfire season in August/September 2015 with tanks topped up by water tankers where necessary; and
- Slashing work was conducted in Native Grass Seed Harvest Areas. •

The NSW RFS Hunter Regional Command was briefed in September 2016 regarding the status of bushfire mitigation, maintenance works and has been regularly updated regarding the occupancy status of residential property in adjoining buffer areas. In the event of a bushfire at Mount Pleasant, the Coal & Allied emergency response procedure is triggered.

5.4. Rehabilitation

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

5.5. Fauna and Flora Management

As construction and mining are yet to commence, the majority of flora and fauna management works in 2015 were aimed at maintaining the landscape as discussed above.

6. Community Relations

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

We are committed to:

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

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

Community relations activities have been tailored to suit the current status of the Mount Pleasant Project, and planning and execution of community relations work has considered that the Mount Pleasant Project is currently undergoing internal review and future timeframes and construction plans remain uncertain. In 2015, Coal & Allied has undertaken local community relations activities in Muswellbrook across three task areas: a) communication, b) consultation and engagement, and c) community development. These activities are outlined in detail in the following sections.

6.1. Communication

Members of the community are encouraged to engage in ways that suit them. A number of points of contact have been established. The Coal & Allied shopfronts in Muswellbrook (77 Bridge Street) and Singleton (127 John Street) continue to ensure that Coal & Allied is an active and accessible member of the community.

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

In addition, Coal & Allied operates a free call 24-hour Community Complaints Hotline (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, Coal & Allied community newsletters and website. During 2015 no complaints or enquiries relating to the Mount Pleasant Project were received on this contact line.

The community are also invited to find out more about our operations and projects online, and can view copies of our latest newsletters, public reports and information about our Community Consultative Committee (CCC) at http://www.riotinto.com/energy/mount-pleasant-project-10428.aspx. Coal & Allied provides updates on the Mount Pleasant project, and other activities in the community, through our community newsletters.

Coal & Allied has previously distributed a Hunter Valley Community Newsletter, containing regular updates about Coal & Allied operations and its community activities, to businesses and residences in the Singleton and Muswellbrook Local Government Areas (LGAs). In 2015, an autumn edition of the newsletter was issued, before Coal & Allied transitioned to full-page newspaper advertorials.

Newspaper advertorials were published in The Singleton Argus, Muswellbrook Chronicle and The Scone Advocate in the months of June and November. The three publications have a combined readership of approximately 16,000 throughout the Singleton, Muswellbrook and Upper Hunter Shire LGAs. In 2016, Coal & Allied intends to continue placing these full-page advertorials as yet another way to communicate about its operations.

6.2. Consultation & Engagement

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

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

In 2015, Coal & Allied has undertaken a range of consultation and engagement activities, including:

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

6.2.1. Community Consultative Committee (CCC)

The Mount Pleasant CCC was formed in 2004, and has met regularly since. The CCC is an important communication and engagement tool, as the group acts as the point of contact to provide feedback between Coal & Allied and the community. The Mount Pleasant CCC is made up of community representatives from a variety of areas. For further information on the community representatives on the Mount Pleasant CCC for 2015, please contact the signatory at the front of the document.

In 2015, Mount Pleasant CCC meetings were held in April, June and October.

	,
Date	Overview
March 2015	An update was provided on the ongoing Mount Pleasant Project study work, including improvements of the mine design. The program of Early Works; such as, Wybong Road upgrade was also discussed.
	The 2014 Mount Pleasant Annual Review, was presented to CCC members, including results of environmental monitoring, such as; meteorology, air quality, surface water, ground water and noise.
August 2015	Coal & Allied provided an overview of the completion of the Pre-feasibility Study, including the mine plan which will be studied moving forward in the Feasibility Study. An update was also provided of the Wybong Road upgrade. In addition to the introduction of a new independent chairperson of CCC.
October 2015	At the request of the members, the final meeting for 2015 was a site visit to better understand the mine, on the ground.
	The sale of Rio Tinto's 40% ownership in Bengalla was also discussed, in addition to the restructure of ownership of Coal & Allied, meaning Mount Pleasant Project is now 100% owned by Rio Tinto.

*The approved minutes of the CCC meetings are available online at www.riotintocoalaustralia.com.au

2015

6.3. Community Development

In 2015 Coal & Allied continued our focus on the long term sustainability of the communities where we operate through our community development programmes:

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

Key areas of focus for community development in 2015 have included education, economic development, environment and health, with 23 new and 28 ongoing programmes were supported by Coal & Allied's CDF and ACDF over the year. Together these programmes contributed almost \$1.35 million in 2015 to support capacity building and contribute to the long term sustainability of surrounding communities.



Figure 23 - Coal & Allied's community partners at the 2015 end of year celebration

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

6.3.1.Coal & Allied Community Development Fund

This year marked 17 years of operation of the CDF, which has invested \$14.5 million to support more than 120 community projects across the areas of health, education, environment and economic development in the Hunter Valley since its inception in 1999.

In 2015, the CDF invested more than \$900,000 in 10 new programmes aimed at delivering long-term benefits for communities in the CDF catchment, which included the Singleton, Muswellbrook, and Upper Hunter LGAs. A further \$1.5 million is available for allocation in 2016-2017.



Figure 24 - Distribution of Community Development Fund by priority area and LGA for 2015

<u>Programme</u>	<u>Partner</u>
Enterprise Facilitation	Sirolli Institute
Supporting Children's Developing Social Competence	Early Links Inclusion Support Service
Science and Engineering Challenge, and SMART Program (2015 - 2017)	University of Newcastle
Upper Hunter Education Fund Scholarships (2015 - 2017)	Upper Hunter Education Fund
Upper Hunter Beef Bonanza Inc.	Upper Hunter Beef Bonanza
Singleton High School Agricultural Course	Singleton High School
University of Newcastle Scholarship	University of Newcastle
Singleton Community College Strategic Plan	Singleton Community College
HSC Study Camps	Upper Hunter Education Fund
Ready 4 School Program	Jerrys Plains Public School

Table 11 - Coal & Allied CDF	projects and sponsor	ships approved in 2015

Table 12 - Coal & Allied CDF projects and sponsorships approved prior to 2015

<u>Programme</u>	<u>Partner</u>
Upper Hunter Shire Council Community Engagement	Upper Hunter Shire Council
Building Skills and Leadership Capacity in Rural NSW	Royal Agricultural Society (NSW)Foundation
Hunter Youth Leadership Program	The Australian Outward Bound Development Fund
People in Your Neighbourhood- Sustainability Street	Muswellbrook Shire Council
Tocal Schools Steer Challenge (ended 31 Dec 2014)	Department of Primary Industries Tocal College

Local SME Supply Chain Participant project	HunterNet
Scholarship Program	University of Newcastle
Economic Development and Funding Coordinator	Singleton Council
Business Development Officer	Singleton Business Chamber
Singleton Place Making (ends July 2015)	Singleton Council
Science and Engineering Challenge, and SMART Program	University of Newcastle
Enterprise Facilitation	Sirolli Institute
Upper Hunter Beef Bonanza Inc. (ended 31 Dec 2014)	Upper Hunter Beef Bonanza
Supporting Children's Developing Social Competence	Early Links Inclusion Support Service
Upper Hunter Education Fund Scholarships	UHEF

6.3.2. Coal & Allied Aboriginal Community Development Fund

In 2015, the ACDF invested almost \$490,000 through 22 partnerships in education, community and business development and culture. This represented approximately 90% of available funds. These partnerships demonstrated strong potential to deliver meaningful benefit and/or long-term sustainable outcomes for Aboriginal communities in the Singleton, Muswellbrook and Upper Hunter Local Government Areas (LGA).

All flagship partnerships were aligned to ACDF strategic investment priorities, whilst smaller projects reflected a broad range of community needs and interests within established ACDF funding categories.

A longstanding and highly valued partnership is the Singleton Schools Dance Program. Through this program, Singleton High School and two town and rural primary schools employ a dance teacher each fortnight to educate and engage Aboriginal students in their culture. The participating schools have established dance groups which perform at school assemblies for NAIDOC and Reconciliation Week. A larger, inter-school dance group come together to perform at significant community events.

Now in its 6th year, the program has made a significant contribution to a visible and positive presence for Aboriginal peoples and culture within the schools and through the community performances, helped to build awareness and understanding between the school community, local Aboriginal and wider communities.

The ACDF is accessible to any Aboriginal person residing in, or who is from, the Upper Hunter Valley, or organisation undertaking a project to benefit specific Aboriginal target groups or wider Aboriginal communities in the Upper Hunter Valley.





Figure 25 - Distribution of ACDF investments by priority area and LGA for 2015

In 2015, the ACDF invested \$641,030 (100% of available funds) in programmes aligned with its priority funding areas of economic development; health; community and cultural development; and education.

<u>Programme</u>	<u>Partner</u>
Max Potential	Future Achievement Australia Foundation
Microenterprise Development in the Upper Hunter (Renewed)	Many Rivers Microfinance
Wonnarua Mining Rehabilitation Operations	Wonnarua Mining Rehab Pty Ltd (Wonnarua Nation Aboriginal Corp)
Study Assistance	Fiona Murray
The Australian Outward Bound Scholarships	Australian Outward Bound
Ka Wul - New Definition (Renewed)	Singleton High School
Singleton Art Prize	Rotary Club of Singleton on Hunter Inc.
Aboriginal Business Development and Employment Forum	NSW Indigenous Chamber of Commerce
Partnerships for Success (Renewed)	Polly Farmer Foundation
Administration Traineeship	Wanaruah Local Aboriginal Land Council
Muswellbrook Youth Workshop	Bangarra Dance Theatre
NAIDOC Celebrations	St James Primary School
Les Elvin Funeral Expenses	NSW Indigenous Chamber of Commerce

Table 13 - Coal & Allied ACDF projects and sponsorships approved in 2015

Table 14 - Coal & Allied ACDF projects and sponsorships approved prior to 2015

<u>Programme</u>	Partner_
Strategic planning and operational support	Wonnarua Nation Aboriginal Corp
Ka-wul New Beginnings	Singleton High School
NAIDOC Week	Singleton Schools Management Group
YINPI - Post School Pathways Program	Singleton High School
Warrae Wanni School Readiness (renewed 2014-2015)	Muswellbrook South School
Kawul - New Directions	Singleton High School
Parents and Learning (PAL)	Napranum Pre-School
Dookal Group Pty Ltd	Ungooroo Aboriginal Corporation
NAIDOC week activities	Wanaruah Local Aboriginal Land Council
Singleton Schools Aboriginal Dance Group (renewed)	Broke Public School
The Gundi Programme (2014 – 2016)	St Heliers Corrective Centre
Industry scholarships	University of Newcastle
Wupa@Wanaruah Art and Cultural Event	Ungooroo Aboriginal Corporation

6.3.3. Mount Pleasant Site Donations funding

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

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

Local projects and initiatives supported in 2015 included:

- Book Week author visits
- Mount Pleasant Oral History Project
- Merriwa Festival of the Fleeces
- Upper Hunter Eisteddfod
- Wildlife Aid.
- Muswellbrook Polocrosse Club

6.4. Partnerships

Coal & Allied has sustained an active partnership programme in 2015 with key organisations that provide services valued by the community and have an approach to their business that is aligned with Coal & Allied principles.

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

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 2015, Coal & Allied continued its sponsorship of the HRF. The HRF is a not for profit organisation whose research assists organisations in the region with stakeholder engagement and business development.

Westpac Rescue Helicopter Service

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

The University of Newcastle (UoN)

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

6.5. 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's cultural heritage program. Guided by the Rio Tinto Communities and Social Performance Standard & Cultural Heritage Management Procedure, the RTCA Cultural Heritage Unit has developed a Cultural Heritage Management System (CHMS) that applies across all RTCA owned projects and operations, including MTP.

RTCA established the Coal & Allied Upper Hunter Valley Aboriginal Cultural Heritage Working Group (CHWG) in September 2005. This acts as the primary forum for Aboriginal community consultation on matters pertaining to cultural heritage. The CHWG is comprised of representatives from RTCA and Aboriginal parties/stakeholders from Upper Hunter Valley Aboriginal community groups, corporations and individuals. The CHWG met on four occasions during 2015: 4th June, 3rd September, 19th November and 18th December.

As any development activities at MTP will require assessment and Aboriginal Heritage Impact Permit (AHIP) approvals under Part 6 of the *National Parks and Wildlife Act 1974* (NPW Act), CHWG discussions are held in accordance with the Office of Environment & Heritage's (OEH) "Aboriginal cultural heritage consultation requirements for proponents 2010".

6.5.1. 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 MTP Aboriginal Cultural Heritage Management Plan, Development Consent (DA92/97) conditions, Rio Tinto Cultural Heritage Management Standard, RTCA CHMS Work Procedures, the NPW Act (including the OEH Aboriginal Cultural Heritage Consultation Requirements for Proponents 2010) and the EPA Act.

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

- Ongoing consultation and involvement of the local Aboriginal community in all matters pertaining to Aboriginal cultural heritage management;
- Compliance with existing Aboriginal CHMP's and Development Consent conditions;
- A cultural heritage Geographic Information System (GIS) and Cultural Heritage Zone Plan (CHZP) incorporating cultural heritage spatial and aspatial data (site location, description,

assessments, date recorded, associated reports, management provisions and various other details to assist with the management of sites);

- A Ground Disturbance Permit (GDP) system for the assessment and approval of ground disturbing activities to ensure these activities do not disturb cultural heritage places;
- Limit of Disturbance Boundary (LODB) procedures to demarcate approved disturbance areas and delineate areas not to be disturbed;
- Ongoing cultural heritage site inspections, monitoring and auditing along with regular compliance inspections of development works;
- Protective management measures such as fencing/barricading sites to avoid disturbance, protective buffer zones, cultural heritage off-set areas; and
- Communicating cultural heritage issues and site awareness to personnel via the Coal & Allied intranet and tool box training sessions.

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

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); and
 - 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:
 - o contains a detailed plan for the implementation of the AHCS; and
 - 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 the participation of relevant Aboriginal parties through the CHWG, initiated additional systematic Aboriginal cultural heritage assessments of the entire MTP Project area (ML 1645 and other associated Coal & Allied, Bengalla Coal Mine and state owned lands) and associated infrastructure corridors, and the proposed Broomfield Aboriginal Cultural Heritage Conservation Area, to inform the development of the AHMP. These additional heritage assessments have been progressively undertaken in stages between 2006 and 2011, the results of which have informed the development of the AHMP and AHIP approval for MTP.

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

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.

The AHMP was conditionally approved by DP&E in August 2015, allowing only for the construction of early works at MTP, with full approval contingent on the resolution of the Broomfield Conservation Area within the AHCS. Coal & Allied is continuing discussions on this matter with DP&E and other parties with interests in the Broomfield Conservation Area lands.

Prior to the commencement of early works 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.

6.5.2. Archaeology and Cultural Heritage Performance

Under the provisions of the MTP ACHMP, a scarred tree Verification and Compliance Inspection was conducted at MTP in 2015. This compliance inspection was conducted by representatives of the Aboriginal community nominated by the CHWG assisted by RTCA/Coal & Allied personnel and an independent Technical Advisor. The 2015 MTP scarred tree verification and compliance inspection was conducted over two days in July, with 23 scarred tree sites inspected. The purpose of the fieldwork was to afford the Aboriginal Stakeholders & CNA:

- The opportunity to visit the MTP area to inspect operational compliance with ACHMP provisions & GDP procedures, particularly with regard to scarred tree management;
- To inspect & monitor the condition & management of scarred trees;
- To review the effectiveness & performance of the ACHMP provisions in the management of cultural heritage at the mine; and
- The opportunity to determine whether or not potential scarred trees are of traditional Aboriginal cultural origin so that appropriate management measures can be implemented.

There were no incidents involving the disturbance of Aboriginal archaeological or cultural heritage sites at MTP during 2015 and periodic site condition inspections were also conducted in various areas within the ML 1645 area during 2015 with no un-authorised disturbances being identified.

During 2015, there were 18 GDPs assessed for limited disturbance activities associated with offsets properties management, early works & investigations, as well as development associated with Bengalla activities on MTP lands. These works were conducted on an Aboriginal cultural heritage sites avoidance basis so that no cultural sites were impacted upon by these activities.

6.6. Historic Heritage

The MTP original development consent required an oral history to be prepared. Coal & Allied commissioned Veritas Archaeology & History Service (Muswellbrook) to prepare this oral history and it was submitted in early 2004. Under the modified development consent conditions, a detailed history (including detailed historical research & oral history) of the Mt Pleasant locality was to be prepared by December 2013.

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

In 2015 historic heritage sites were managed to ensure no impacts from early works activities occurred. Going forward where warranted, specific archaeological management measures will be developed for specific sites. Where appropriate, these works will be conducted with the participation of interested community members, such as representatives from the Muswellbrook Local and Family History Society and the RTCA Community Heritage Advisory Group (CHAG). RTCA established the CHAG in 2012 as a community consultation forum for all matters pertaining to management of historic

heritage of the region such as historical groups, individuals and local government.

(non-Indigenous) heritage located on RTCA lands. The CHAG will continue to meet in 2016 and is comprised of community representatives with particular knowledge and interests in the historic

7. Activities proposed in the next Annual Review period

Coal & Allied has an environmental monitoring programme in place at MTP, and this monitoring will continue during 2016. 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.

Preliminary air quality modelling has been undertaken to ensure compliance of the approved operation with air quality standards. Discussions are ongoing with the Environmental Protection Authority regarding the submission of an Environmental Protection Licence. Ongoing works will continue to maintain compliance with the Development Consent and the EPBC approval, such as the historic heritage detailed recording work mention in Chapter 4 above.

Appendix 1 – Environmental Monitoring Locations



Appendix 2 – Environmental Monitoring Results

Mount Pleasant Depositional Dust Monitoring Results 2015							
Station	Date	Dep - Ash (g/m2/month)	Dep - Insoluble (g/m2/month)	Comment			
D1	16/01/2015	1.0c	1.7c	Dust, insects			
D1	17/02/2015	0.50	0.90	Dust, insects			
D1	18/03/2015	1.20	2.10	Dust, insects			
D1	17/04/2015	0.70	1.20	Insects			
D1	15/05/2015	0.40	0.50	insects, vegetation			
D1	16/06/2015	0.40	0.80	Insects			
D1	17/07/2015	0.30	0.60	Insects			
D1	14/08/2015	0.40	1.10	Insects			
D1	14/09/2015	0.50	0.70	Dust, Insects			
D1	14/10/2015	0.70	1.20	Insects			
D1	13/11/2015	0.80	1.40	Insects			
D1	15/12/2015	0.60	1.00	Insects			
D10	16/01/2015	0.70	1.30	Dust, insects			
D10	17/02/2015	0.20	0.50	Dust, insects, bird droppings			
D10	18/03/2015	0.60	0.90	Dust, insects			
D10	17/04/2015	0.60	0.90	Insects			
D10	15/05/2015	0.30	0.60	Insects, vegetation			
D10	16/06/2015	0.40	0.60	Insects			
D10	17/07/2015	0.30	0.40	Insects			
D10	14/08/2015	0.10	0.30	Insects			
D10	14/09/2015	0.60	1.20	Dust, Insects			
D10	14/10/2015	0.60	1.00	Insects			
D10	13/11/2015	0.50	0.90	Insects			
D10	15/12/2015	0.50	0.80	Insects			
D11	16/01/2015	0.50	1.00	Dust, insects			
D11	17/02/2015	0.50	0.80	Dust, insects			
D11	18/03/2015	1.20	1.80	Dust, insects			
D11	17/04/2015	0.90	1.40	Insects, vegetation			
D11	15/05/2015	2.8c	4.5c	Insects, vegetation			
D11	16/06/2015	0.30	0.50	Insects			
D11	17/07/2015	1.4c	2.8c	Insects, bird droppings			
D11	14/08/2015	0.60	1.20	Insects			
D11	14/09/2015	0.40	0.80	Dust, Insects			
D11	14/10/2015	1.80	3.20	Insects, bird droppings			
D11	13/11/2015	1.20	2.00	Insects			
D11	15/12/2015	0.60	1.10	Insects			
D12	16/01/2015	0.50	0.90	Dust, insects			
D12	17/02/2015	0.30	0.60	Dust, insects			
D12	18/03/2015	2.5c	5.3c	Dust, insects, bird droppings			
D12	17/04/2015	0.50	0.90	Insects			
D12	15/05/2015	0.20	0.40	Insects, Vegetation			
D12	16/06/2015	0.30	0.80	Insects			
D12	17/07/2015	0.20	0.40	Insects			
D12	14/08/2015	1.4c	5.6c	Insects, Bird Droppings			
D12	14/09/2015	1.2c	3.8c	Dust, Insects, Vegetable Matter, Bird Droppings			
D12	14/10/2015	2.0c	5.7c	insects, bird droppings			
D12	13/11/2015	0.70	1.30	Insects, broken funnel			
D12	15/12/2015	0.40	0.90	Insects, vegetation			
D13	16/01/2015	0.90	2.10	Dust. insects			
D13	17/02/2015	0.90	1.90	Dust, insects			
D13	18/03/2015	1.50	2.7c	Dust, insects			
D13	17/04/2015	1.4c	9 60	Insects, vegetation, bird droppings			
D13	15/05/2015	1.4c	7 50	Insects, vegetation, Bird droppings			
D13	16/06/2015	2 40	3 80	Insects vegetation			
D12	17/07/2015	<u> </u>	4 Oc	Insects			
D13	14/08/2015	1,30	3 40	Insects, Bird Droppings			
- 10		2.55	0110				

Mount Pleasant Depositional Dust Monitoring Results 2015							
Station	Station Date Dep - Ash (g/m2/month) Dep - Insoluble (g/m2/month) Comment						
D13	14/09/2015	0.20	0.40	Dust, Insects			
D13	14/10/2015	1.7c	5.8c	insects, vegetation, bird droppings			
D13	13/11/2015	0.70	1.20	Insects			
D13	15/12/2015	1.3c	4.3c	Insects			

Mount Pleasant Depositional Dust Monitoring Results 2015							
Station	Date	Dep - Ash (g/m2/month)	Dep - Insoluble (g/m2/month)	Comment			
D14	16/01/2015	2.4c	9.8c	Dust, insects			
D14	17/02/2015	0.70	1.40	Dust, insects			
D14	18/03/2015	2.7c	3.7c	Dust. Insects			
D14	17/04/2015	2.20	4.00	Insects			
D14	15/05/2015	0.60	1.40	Insects, vegetation			
D14	16/06/2015	1.40	1.80	Insects			
D14	17/07/2015	0.60	1.10	Insects			
D14	14/08/2015	0.80	1.60	Insects, Bird Droppings			
D14	14/09/2015	0.60	1.00	Dust, Insects			
D14	14/10/2015	2.00	3.00	Insects			
D14	13/11/2015	2.20	3.20	Insects			
D14	15/12/2015	2.00	3.20	Insects			
D3	16/01/2015	0.80	1.30	Dust, insects			
D3	17/02/2015	0.90	1.40	Duct, insects			
D3	18/03/2015	1.70	2.60	Dust, insects			
D3	17/04/2015	1.60	2.20	Insects			
D3	15/05/2015	0.50	1.00	Insects			
D3	16/06/2015	0.60	0.80	Insects			
D3	17/07/2015	0.50	0.70	Insects			
D3	14/08/2015	0.50	0.70	Insects + vegetation			
D3	14/09/2015	1.00	1.70	Dust, Insects			
D3	14/10/2015	1.50	2.30	Insects			
D3	13/11/2015	1.30	2.10	Insects			
D3	15/12/2015	1.00	1.50	Insects			
D4	16/01/2015	0.60	1.10	Dust Insects			
D4	17/02/2015	0.30	0.80	Dust Insects			
D4	18/03/2015	1.20	1.90	Dust insects			
D4	17/04/2015	0.70	1.10	Insects			
D4	15/05/2015	10.70	13.20	Insects, Vegetation			
D4	16/06/2015	0.70	1.10	Insects, spider			
D4	17/07/2015	0.30	0.50	Insects			
D4	14/08/2015	0.20	0.30	Insects			
D4	14/09/2015	0.50	1.50	Dust, Insects			
D4	14/10/2015	1.1c	3.0c	Insects - lots			
D4	13/11/2015	1.10	2.20	Insects			
D4	15/12/2015	1.60	3.00	Insects			
D5	16/01/2015	0.90	1.50	Dust, insects			
D5	17/02/2015	1.60	2.50	Bird droppings, dust, insects			
D5	18/03/2015	3.4c	7.1c	Bird droppings, dust, insects			
D5	17/04/2015	1.90	3.30	Bird droppings, insects			
D5	15/05/2015	1.60	2.50	insects, Vegetaion, Suspended solids			
D5	16/06/2015	1.50	2.70	Insects, bird droppings			
D5	17/07/2015	1.00	1.60	Insects, bird droppings			
D5	14/08/2015	0.70	1.10	Insects, Bird Droppings			
D5	14/09/2015	1.00	1.50	Dust. Insects			
D5	14/10/2015	2.30	3.60	Insects, bird droppings			
D5	13/11/2015	1.30	2.30	Insects, bird droppings			
D5	15/12/2015	2.00	3.60	Insects, brid droppings			
D6	16/01/2015	2c	4.4c	Dust, insects, bird droppings			
D6	18/02/2015	1.10	2.00	Dust, insects			
D6	18/03/2015	2.2c	3.6c	Dust, insects			
D6	17/04/2015	2.10	3.50	Insects, vegetation, bird droppings			
D6	15/05/2015	1.00	1.50	Insects, Vegetaion			
D6	16/06/2015	1.00	1.80	Insects, bird droppings			
D6	17/07/2015	1.00	1.90	Insects			
D6	14/08/2015	0.70	1.10	Insects, Bird Droppings			

	Mount Pleasant Depositional Dust Monitoring Results 2015						
Station	Station Date Dep - Ash (g/m2/month) Dep - Insoluble (g/m2/month) Comment						
D6	14/09/2015	1.10	2.00	Insect, Dust, Bird Droppings			
D6	14/10/2015	1.60	3.20	Insects, bird droppings			
D6	13/11/2015	1.50	3.70	Insects			
D6	15/12/2015	1.90	3.90	Insects, bird droppings			
-	-			-			

Mount Pleasant Depositional Dust Monitoring Results 2015							
Station	on Date Dep - Ash (g/m2/month)		Dep - Insoluble (g/m2/month)	Comment			
D7	16/01/2015	1.9c	4c	Dust, insects			
D7	17/02/2015	3.90	5.30	Dust, insects			
D7	18/03/2015	9.0c	11.6c	Dust, insects			
D7	17/04/2015	8.0c	12.6c	Insects, bird droppings			
D7	15/05/2015	4.60	6.00	Insects, vegetation			
D7	16/06/2015	5.20	8.00	Insects			
D7	17/07/2015	7.1c	10.6c	Insects, spider			
D7	14/08/2015	1.90	3.70	Insects, Vegetation, Plastic			
D7	14/09/2015	7.3c	9.3c	Dust, Insect, Bird Droppings			
D7	14/10/2015	4.5c	9.7c	Insects, bird droppings			
D7	13/11/2015	5.9c	18.5c	Insects, bird droppings			
D7	15/12/2015	3.7c	8.8c	Insects, bird droppings			
D8	16/01/2015	1.20	2.00	Dust, insects			
D8	17/02/2015	2.7c	4.2c	Insects, dust, bird droppings			
D8	18/03/2015	4.40	5.80	Dust, insects			
D8	17/04/2015	3.10	4.40	Insects			
D8	15/05/2015	0.60	0.80	Insects, Vegetation			
D8	16/06/2015	2.30	3.50	Insects, bird droppings			
D8	17/07/2015	1.10	2.00	Insects			
D8	14/08/2015	1.30	2.00	Insects, Bird Droppings			
D8	14/09/2015	3.2c	5.2c	Dust, Insects, Bird Droppings			
D8	14/10/2015	2.20	3.00	Insects			
D8	13/11/2015	2.40	3.40	Insects			
D8	15/12/2015	2.20	3.30	Insects			
D9	16/01/2015	0.70	1.50	Dust, insects			
D9	17/02/2015	1.6c	4.6c	Insects, dust, bird droppinngs			
D9	18/03/2015	1.40	1.90	Dust, insects			
D9	17/04/2015	1.10	1.70	Insects, vegetation			
D9	15/05/2015	0.50	0.70	insects			
D9	16/06/2015	0.50	0.80	insects			
D9	17/07/2015	0.50	0.70	Insects			
D9	14/08/2015	0.30	0.50	Insects			
D9	14/09/2015	0.80	1.40	Dust, Insects			
D9	14/10/2015	1.20	1.80	Insects			
D9	13/11/2015	1.30	2.50	Insects			
D9	15/12/2015	0.60	1.00	Insects			

Mount Pleasant Meteorological Monitoring Data 2015							
Date	Tempera	ature (°C)	Wind Spee	ed (m/s)	Wind Direction (Deg)	Rainfall	Cumulative Rainfall
	Minimum	Maximum	Maximum	Average	Average	(mm)	(mm)
1/01/2015	16.15	35.07	7.89	2.365	161.9	0.0	0.0
2/01/2015	20.81	31.63	11.11	3.294	180.3	0.0	0.0
3/01/2015	15.09	35.43	10.37	2.199	166.5	0.0	0.0
4/01/2015	18.71	34.83	10.06	2.547	204.1	11.2	11.2
5/01/2015	19.43	29.5	14.03	5.768	154.4	0.0	11.2
6/01/2015	17.57	31.21	13.37	3.916	156.7	0.0	11.2
7/01/2015	17.47	32.3	13.26	4.239	159.6	0.0	11.2
8/01/2015	14.94	34.78	10.03	2.207	175	0.0	11.2
9/01/2015	18.24	35.65	21.34	2.594	195.3	0.0	11.2
10/01/2015	19.84	34.66	10.77	2.525	165.1	0.8	12.0
11/01/2015	18.02	21.6	10.66	3.815	167.8	18.2	30.2
12/01/2015	17.54	25.38	14.01	4.863	155.2	2.0	32.2
13/01/2015	17.07	29.82	6.98	2.05	161.7	0.2	32.4
14/01/2015	20.34	32.92	16.48	5.616	283.3	1.2	33.6
15/01/2015	16.96	31.48	11.65	3.399	233.1	0.0	33.6
16/01/2015	16.42	33.23	12.66	3.455	258.7	0.0	33.6
17/01/2015	13.79	35.49	13.43	4.027	273	0.0	33.6
18/01/2015	12.86	33.38	13.79	3.31	190.5	0.0	33.6
19/01/2015	16.18	26	17.52	7.52	155.1	0.0	33.6
20/01/2015	14.53	27.52	180.1	5.059	166.8	25.2	58.8
21/01/2015	16.02	30.33	15.94	3.155	152.9	0.0	58.8
22/01/2015	17.23	29.84	14.63	4.178	161.9	0.0	58.8
23/01/2015	18.76	31.12	12.45	2.225	172.7	0.0	58.8
24/01/2015	17.17	33.68	125.9	2.381	180.8	18.4	77.2
25/01/2015	17.54	34	10.97	2.945	250.8	5.4	82.6
26/01/2015	17.37	25.58	15.91	7.092	152.2	0.0	82.6
27/01/2015	15.39	21.32	13.89	5.346	161.6	10.4	93.0
28/01/2015	14.27	20.55	15.73	5.08	159.4	1.6	94.6
29/01/2015	13.33	24.55	10.03	2.405	164.6	0.0	94.6
30/01/2015	9.38	27.36	10.42	2.493	214.6	0.0	94.6
31/01/2015	10.54	28.39	8.63	2.368	233.9	0.0	94.6
1/02/2015	13.48	28.76	16.05	3.21	190.9	0	0
2/02/2015	15.53	26.41	14.81	6.511	148.5	0	0
3/02/2015	14.07	26.06	12.6	4.639	144.4	0	0
4/02/2015	9.66	27.08	11.55	3.731	191.6	0	0
5/02/2015	14.98	25.13	14.67	4.749	148	0	0
6/02/2015	11.94	26.17	13.82	4.351	151.5	0	0
7/02/2015	10.64	29.01	8.12	2.638	180.9	0	0
8/02/2015	12.63	35.56	10.2	2.338	208	0	0
9/02/2015	17.78	30.59	15.23	5.314	162.1	0	0
10/02/2015	18.19	32.34	12.86	4.448	152.3	0	0
11/02/2015	14.6	32.02	12.01	3.222	156.8	0	0
12/02/2015	14.43	31.87	15.08	3.745	160.4	0	0
13/02/2015	17.4	30.83	14.8	4.444	152	0	0
14/02/2015	14.97	31.01	9.04	2.777	154.4	0	0
15/02/2015	14.8	33.32	16.7	2.443	206.6	0.8	0.8
16/02/2015	12.78	32.63	9.7	2.914	184.7	0	0.8
17/02/2015	15.69	32.22	10.93	3.356	163.3	0	0.8
18/02/2015	15.66	32.31	11.87	3.65	156.6	0	0.8
19/02/2015	15.61	30.59	13.65	4.187	161	0	0.8
20/02/2015	17.03	25.6	9.16	3.85	161.3	10.2	11
21/02/2015	17.85	26.89	15.49	6.057	159.9	0.2	11.2
22/02/2015	17.98	29.23	14.53	6.248	153.7	0	11.2
23/02/2015	18.29	30.88	11.57	5.102	157.9	0	11.2

DateUnitaryWind Speet(m)MaintaryAverageAverageAverage(mm)Consolute Anialian20/02/201513.8.730.4.813.5.84.6.9.7115.2.90.011.225/02/201517.4.729.5.417.0.24.6.7.7115.2.90.011.225/02/201517.7.730.9.912.8.431.0215.2.00.017.227/02/201517.43.0.211.0.13.40.2110.80.017.2200/201515.6.125.6.415.5.65.3.6.516.6.10.00.6200/201515.1.125.6.415.5.55.3.6.516.6.10.00.6200/201515.1.325.6.415.5.516.6.620.8.80.000.6200/201511.8.13.9.8.616.3.43.0.9.02.0.2.20.00.6200/201510.0.13.1.1.010.5.52.6.210.00.60.6200/201510.1.33.1.111.5.82.6.413.7.80.00.6200/201511.4.33.3.4.111.5.22.6.210.00.60.6200/201511.4.83.3.413.5.26.2.113.6.40.00.6200/201511.8.33.3.413.5.26.2.213.6.40.00.6200/201511.8.33.3.413.5.26.2.313.6.40.00.6200/201511.8.33.5.813.6.42.7.80.00.6<	Mount Pleasant Meteorological Monitoring Data 2015							
MomeMaxmeMaxmeNerregeMaymeMem240201013.730.4817.634.84310.41.40.011.22502201517.7720.30317.844.84710.821.91.91.22707201517.1730.30317.844.8421.91.91.71.72507201516.693.0.311.2844.8441.0.631.61.61.62607201511.83.3.411.5.641.6.41.0.20.61.6201721511.83.8.441.5.643.0.661.6.10.60.6201721511.83.8.341.5.643.0.661.6.10.60.6201721510.0110.641.5.443.0.641.6.10.60.6201721510.131.5.641.5.443.0.641.2.10.00.6201721510.141.5.441.5.441.5.441.5.441.5.440.00.6201721510.141.5.441.5.441.5.441.5.441.5.441.5.441.5.44201721511.441.5.441.5.441.5.441.5.441.5.441.5.441.5.44201721511.451.5.441.5.441.5.441.5.441.5.441.5.441.5.44201721511.451.5.441.5.441.5.441.5.441.5.441.5.441.5.44201721511.451.5.441.5.441.5.441.5.441.5.44 </th <th>Date</th> <th>Tempera</th> <th>ature (°C)</th> <th>Wind Spee</th> <th>ed (m/s)</th> <th>Wind Direction (Deg)</th> <th>Rainfall</th> <th>Cumulative Rainfall</th>	Date	Tempera	ature (°C)	Wind Spee	ed (m/s)	Wind Direction (Deg)	Rainfall	Cumulative Rainfall
24(0)/005 17.47 30.48 17.02 44.83 184.4 0 11.2 25(0)/005 17.77 30.39 102.4 30.62 156.2 0 11.2 26(0)/005 17.77 30.30 102.4 31.62 116.7.3 0 17.2 27(0)/2015 116.90 33.81 7.9. 21.08 10.07 0 0.7.2 10707/105 116.11 26.14 15.56 5.345 14.0.7 0.0 0.6 3070215 11.3 38.49 10.69 2.7.2 17.2 0.0 0.6 3070215 13.3 38.59 2.8.28 3.06 167.3 0.0 0.6 5/032015 10.33 31.9 10.52 2.924 22.52 0.0 0.6 7/032015 10.43 35.41 13.82 4.602 13.9 0.0 0.6 7/032015 13.43 32.41 13.81 13.29 2.16 0.0 0.6 7/03		Minimum	Maximum	Maximum	Average	Average	(mm)	(mm)
12 17 28.5 17.02 4.697 17.22 0 11.2 2000/2015 17.71 30.2 10.12 34.22 10.62 6 17.27 2002/2015 15.89 33.38 7.79 21.09 10.07 0 17.2 2002/2015 16.59 35.38 7.95 21.09 10.07 0.0 0.6 2002/2015 16.11 26.61 12.84 3.914 22.68 0.00 0.6 2003/2015 13.3 3.824 10.09 2.722 10.02 0.0 0.6 5/33/2015 13.53 3.53 15.5 6.606 2.22.5 0.00 0.6 5/33/2015 10.03 3.119 10.05 2.23.4 19.1 0.00 0.6 5/33/2015 14.33 3.24 1.26.4 12.56 19.9 0.0 0.6 11/00/2015 14.63 2.53 13.54 1.22.9 12.8 0.0 0.6 11/00/201	24/02/2015	18.7	30.48	15.26	4.453	149.4	0	11.2
260/2025 17.57 90.39 128.4 3102 156.2 6 17.2 27/02/2035 116.59 33.36 77.9 2108 100.7 0 17.2 28/02/2015 116.59 33.61 17.84 3.914 226.8 0.6 0.6 269/2015 16.11 26.14 13.56 5.345 14.0.7 0.0 0.6 3/07/2015 11.6 33.84 10.00 2.722 17.0.2 0.0 0.6 5/07/2015 15.6 33.53 15.5 4.606 24.8.8 0.0 0.6 5/07/2015 10.51 33.54 11.98 2.244 21.25 0.0 0.6 9/07/2015 15.44 35.1 11.62 2.544 19.1 0.0 0.6 9/07/2015 15.44 35.1 11.62 2.544 19.1 0.0 0.6 9/07/2015 15.43 35.4 11.641 2.641 17.1.8 0.0 0.6 <td< td=""><td>25/02/2015</td><td>17.47</td><td>29.54</td><td>17.02</td><td>4.957</td><td>152.2</td><td>0</td><td>11.2</td></td<>	25/02/2015	17.47	29.54	17.02	4.957	152.2	0	11.2
27/02/015 17.1 30.2 10.2 3.48 16.9 0 17.2 28/02/015 16.69 33.38 7.95 2.088 10.07 0.0 17.2 108/02015 16.11 25.44 3.914 22.68 10.0 0.6 2019/2015 15.18 3.364 10.09 2.782 170.2 0.0 0.6 603/2015 15.5 3.66 4.86 2.64 0.0 0.6 603/2015 10.51 3.06 15.34 3.99 255.2 0.0 0.6 708/2015 10.13 3.241 11.98 2.641 21.66 0.0 0.6 100/2015 14.48 3.54 11.62 2.544 191.9 0.0 0.6 10/02/2015 15.43 3.98 13.52 4.62 199.9 0.0 0.6 10/02/2015 15.4 23.36 15.12 6.21 17.6 0.0 0.6 10/02/2015 15.4 23.36 <td>26/02/2015</td> <td>17.57</td> <td>30.39</td> <td>128.4</td> <td>3.102</td> <td>156.2</td> <td>6</td> <td>17.2</td>	26/02/2015	17.57	30.39	128.4	3.102	156.2	6	17.2
28/02/015 16.69 33.81 7.95 2.108 140.7 0 17.2 10/38/2015 15.53 36.61 112.84 33.914 226.8 0.6 0.6 2/03/2015 11.8 33.64 15.99 2.782 170.2 0.0 0.6 5/03/2015 15.6 33.33 16.5 4.606 245.8 0.0 0.6 5/03/2015 10.53 30.96 15.34 33.93 25.52 0.0 0.6 7/03/2015 10.63 31.19 10.65 2.944 21.25 0.0 0.6 9/03/2015 14.48 35.1 11.62 2.641 21.66 0 0.6 9/03/2015 14.48 35.1 11.62 2.641 13.64 0.0 0.6 11/03/2015 17.85 33.41 16.41 2.864 171.8 0.0 0.6 11/03/2015 17.85 33.41 16.41 2.864 2.71 10.0 0.6 <	27/02/2015	17.1	30.2	10.12	3.452	167.8	0	17.2
1/92/0215 16.51 26.41 128.44 3.914 22.68 0.6 0.6 2/01/2015 11.81 33.84 10.02 2.782 170.2 0.0 0.6 4/03/2015 11.8 33.84 10.02 2.782 170.2 0.0 0.6 5/03/2015 11.5. 3.056 18.4 3.939 2.55.2 0.0 0.6 6/03/2015 10.53 30.056 15.84 3.939 2.55.2 0.0 0.6 7/03/2015 10.13 32.44 13.88 2.644 21.6.6 0.0 0.6 10/03/2015 11.43 3.1.4 11.42 2.594 10.1 0.0 0.6 11/02/2015 15.81 3.1.58 13.52 4.662 159.9 0.0 0.6 11/03/2015 15.83 2.2.85 15.12 5.21 11.0 0.0 0.6 11/03/2015 16.83 2.2.85 15.1 5.2 17.7 13.9 0.0 0.6	28/02/2015	16.69	33.38	7.95	2.108	140.7	0	17.2
202015 11.1 26.4 15.56 5.365 14.37 0.00 0.6 3032015 11.33 33.66 8.98 33.66 1702 0.00 0.6 5/032015 11.51 33.66 8.98 33.66 2762 0.00 0.6 5/032015 11.51 33.66 8.98 3.999 255.2 0.00 0.6 7002015 11.61 30.66 15.44 3.949 255.2 0.00 0.6 70032015 14.14 32.41 11.98 2.641 21.65 0.0 0.6 10/07/0705 15.91 31.83 13.52 4.602 159.4 0.0 0.6 11/07/0705 15.81 32.98 13.152 4.6021 159.4 0.0 0.6 13/07/0715 12.72 7.02 8.33 4.579 173.9 0.0 0.6 14/07/075 12.72 7.02 8.33 4.579 173.4 0.0 0.6 15/0	1/03/2015	16.59	36.61	128.4	3.914	226.8	0.6	0.6
300/201511.813.8410.092.72217.020.00.65/03/201519.533.8433.0619.710.00.85/03/201511.5.133.8413.5.433.9825.5.20.00.66/03/201510.0.331.1010.652.92421.2.50.00.68/03/201511.3.1313.2.1411.982.64121.6.60.00.68/03/201514.4833.111.822.50411.00.00.610/03/201514.8433.113.522.50419.100.00.611/03/201514.8433.115.422.50419.180.00.611/03/201515.842.2.3615.126.2.115.040.00.613/03/201511.6.82.2.7719.494.662.07.10.00.615/03/201511.8.82.5.7719.494.662.07.10.00.615/03/201511.8.82.5.713.04.62.0.10.00.615/03/201511.8.82.5.713.00.00.60.615/03/201511.4.83.5.68.681.9.1711.600.619/03/201511.4.83.5.68.681.9.1711.600.619/03/201511.4.83.5.68.681.9.1710.00.60.019/03/201511.4.83.5.68.681.9.1710.60.00.6 </td <td>2/03/2015</td> <td>16.11</td> <td>26.14</td> <td>15.56</td> <td>5.345</td> <td>143.7</td> <td>0.0</td> <td>0.6</td>	2/03/2015	16.11	26.14	15.56	5.345	143.7	0.0	0.6
4002/015913.393.968.893.306107.10.00.65/03/02515.5133.5310.54.60624.580.00.616/03/2015110.5120.9615.343.939255.20.000.617/02/2015110.3132.4111.982.64121.660.00.619/03/201511.4.8133.1111.622.644121.660.00.669/03/201511.4.8133.1411.6412.854117.80.000.6611/03/201511.78533.4111.6412.854117.80.000.6612/03/201511.78533.4111.6412.854117.80.000.6613/03/201511.72772.028.732.579117.590.000.6615/03/201511.5322.5913.664.711.530.000.6615/03/201511.7322.5913.664.711.530.000.6615/03/201511.7823.9913.634.66622.760.000.6615/03/201511.5523.0918.236.94414.150.000.6622/03/201511.483.841.8426.94414.150.000.6623/03/201511.4828.5114.4495.61710.630.000.6623/03/201514.5812.5214.543.641.641.6423/03/201514.8928.5414.243.64 </td <td>3/03/2015</td> <td>11.8</td> <td>33.84</td> <td>10.09</td> <td>2.782</td> <td>170.2</td> <td>0.0</td> <td>0.6</td>	3/03/2015	11.8	33.84	10.09	2.782	170.2	0.0	0.6
5092015 15.6 35.35 16.5 4.606 248.8 0.0 0.6 6/032015 10.31 30.96 15.34 3.919 255.2 0.0 0.6 7032015 10.03 31.19 10.05 2.924 212.5 0.0 0.6 8032015 14.13 32.41 11.98 2.641 216.6 0 0.6 10/07005 15.91 31.58 13.52 4.662 155.9 0.0 0.6 11/032015 17.85 33.41 16.41 2.284 171.8 0.0 0.6 12/042015 18.43 2.286 15.12 6.11 150.4 0.0 0.6 13/042015 18.74 2.257 13.49 4.66 207.1 0.0 0.6 14/032015 14.78 35.7 13.63 4.06 207.1 0.0 0.6 17/042015 14.43 35.96 8.88 191.7 216.6 0 0.6 17/042015 <td>4/03/2015</td> <td>19.3</td> <td>36.96</td> <td>8.98</td> <td>3.306</td> <td>167.1</td> <td>0.0</td> <td>0.6</td>	4/03/2015	19.3	36.96	8.98	3.306	167.1	0.0	0.6
6092015 10.51 30.96 15.44 39.99 275.2 0.0 0.6 7/04/2015 10.43 31.19 10.66 2.964 121.5 0.0 0.6 9/02/2015 14.43 32.11 11.82 2.064 191 0.0 0.6 9/01/2015 11.54 33.52 4.662 11.91 0.0 0.6 11/01/2015 17.85 33.41 16.41 2.844 171.8 0.0 0.6 12/01/2015 16.83 32.98 131.9 3.239 12.8 0.0 0.6 13/03/2015 16.83 32.98 131.9 3.239 17.3 0.0 0.6 15/03/2015 10.53 22.57 19.49 4.666 207.1 0.0 0.6 15/03/2015 14.78 35.7 136.3 4.096 276.8 0.0 0.6 15/03/2015 14.43 35.66 8.0 1.91.7 21.66 0.0 0.6 15/03/2015	5/03/2015	15.6	33.53	16.5	4.606	245.8	0.0	0.6
2700/2015 10.03 31.99 10.65 2.924 212.5 0.00 0.6 8/03/2015 14.43 32.41 11.98 2.641 216.6 0 0.6 9/03/2015 14.43 35.1 11.62 2.504 191 0.0 0.6 11/03/2015 15.91 31.58 13.52 4.662 159.9 0.0 0.6 11/03/2015 16.83 32.38 131.9 32.39 21.8 0.0 0.6 11/03/2015 11.54 23.36 151.2 6.21 150.4 0.0 0.6 15/03/2015 11.23 25.9 17.33 0.0 0.6 15/03/2015 11.478 35.7 13.63 4.666 2261 0.0 0.6 16/03/2015 14.478 35.56 8.88 1917 22.8 0.0 0.6 19/03/2015 14.48 35.6 8.48 1917 22.8 0.0 0.6 19/03/2015 14.48	6/03/2015	10.51	30.96	15.34	3.939	255.2	0.0	0.6
8/09/2015 14.13 32.41 11.88 2.641 216.6 0 0.6 9/03/2015 14.48 35.1 11.62 2.504 191 0.0 0.6 10/04/2015 15.91 31.58 13.52 4.662 15.9.9 0.0 0.6 11/03/2015 17.85 33.41 16.41 2.854 171.8 0.0 0.6 12/03/2015 15.4 23.36 15.12 6.21 150.4 0.0 0.6 13/03/2015 15.27 27.02 8.23 2.5.79 17.3.9 0.0 0.6 15/03/2015 10.58 2.7.57 19.49 4.66 207.1 0.0 0.6 15/03/2015 14.78 35.7 13.63 4.06 27.6.8 0.0 0.6 15/03/2015 14.43 35.56 8.08 1.917 21.86 0.0 0.6 12/03/2015 14.52 2.3.09 18.23 6.54 141.5 0.0 0.6	7/03/2015	10.03	31.19	10.65	2.924	212.5	0.0	0.6
990/2015 14.48 35.1 11.62 2.504 191 0.0 0.6 10/03/015 15.91 31.58 13.52 4.662 159.9 0.0 0.6 11/08/2015 17.85 33.41 16.41 2.844 17.1.8 0.0 0.6 12/03/2015 16.83 32.98 131.9 3.239 218 0.0 0.6 13/03/2015 15.42 27.02 8.73 2.579 173.9 0.0 0.6 15/03/2015 12.33 2.59 13.66 4.7 153 0.0 0.6 15/03/2015 12.33 2.59 13.66 4.7 153 0.0 0.6 19/03/2015 14.43 35.96 8.08 1917 218.6 0 0.6 20/03/2015 14.43 35.96 8.08 1917 218.6 0 0.6 21/03/2015 14.43 35.96 8.08 1917 218.6 0.0 0.6 21/03/2015<	8/03/2015	14.13	32.41	11.98	2.641	216.6	0	0.6
10/03/2015 15.91 31.58 13.52 4.662 159.9 0.0 0.6 11/03/2015 17.85 33.41 16.41 2.854 171.8 0.0 0.6 12/03/2015 15.4 2.38 13.19 3.239 2.18 0.0 0.6 14/03/2015 15.4 2.336 15.12 6.21 150.4 0.0 0.6 14/03/2015 12.27 27.02 8.23 2.579 173.9 0.0 0.6 16/03/2015 11.78 2.59 13.60 4.7 153 0.0 0.6 17/03/2015 14.78 35.7 136.3 4.086 226.8 0.0 0.6 18/03/2015 14.43 35.96 8.08 1.917 218.6 0.0 0.6 2/03/2015 15.25 23.09 18.23 6.954 14.15 0.0 0.6 2/03/2015 14.49 32.09 7.62 1.991 152.1 0.0 1.0 <td< td=""><td>9/03/2015</td><td>14.48</td><td>35.1</td><td>11.62</td><td>2.504</td><td>191</td><td>0.0</td><td>0.6</td></td<>	9/03/2015	14.48	35.1	11.62	2.504	191	0.0	0.6
11/03/2015 17.85 33.41 16.41 2.854 171.8 0.0 0.6 12/03/2015 16.83 32.98 131.9 3.239 218 0.0 0.6 13/03/2015 15.4 23.36 15.12 6.21 150.4 0.0 0.6 15/03/2015 12.27 27.02 8.23 2.579 173.9 0.0 0.6 15/03/2015 12.33 2.5.9 13.06 4.7 153 0.0 0.6 15/03/2015 18.7 28.06 6.4 2.291 191.8 0 0.6 13/03/2015 14.78 35.7 136.3 4.06 276.8 0.0 0.6 21/03/2015 14.43 35.96 8.08 1.917 218.6 0 0.6 21/03/2015 14.49 35.04 14.1.5 0.0 0.6 21/03/2015 15.4 41.5 10.7 163 0.0 1.0 22/03/2015 12.3 30.59 13	10/03/2015	15.91	31.58	13.52	4.662	159.9	0.0	0.6
12/03/2015 16.83 32.98 131.9 32.39 218 0.0 0.6 12/03/2015 15.4 23.36 15.12 6.21 150.4 0.0 0.6 12/03/2015 10.58 27.57 13.43 4.646 207.1 0 0.6 16/03/2015 12.33 25.9 13.06 4.7 153 0.0 0.6 17/03/2015 8 28.06 6.4 2.291 191.8 0 0.6 17/03/2015 14.478 35.7 136.3 4.086 276.8 0.0 0.6 20/03/2015 14.48 35.96 8.8 1.917 21.86 0 0.6 21/03/2015 14.58 19.47 4.449 241.4 0.0 0.6 21/03/2015 14.98 28.5 14.49 5.017 163 0.0 0.6 21/03/2015 14.98 28.51 10.69 3.52 17.7 0.0 1.0 25/03/2015 12.3 </td <td>11/03/2015</td> <td>17.85</td> <td>33.41</td> <td>16.41</td> <td>2.854</td> <td>171.8</td> <td>0.0</td> <td>0.6</td>	11/03/2015	17.85	33.41	16.41	2.854	171.8	0.0	0.6
13/03/201515.423.3615.126.21150.40.00.614/03/201512.2727.028.232.579173.90.00.615/03/201510.5827.5719.494.646207.100.615/03/201512.3325.913.064.71530.00.617/03/201514.7835.7136.34.086276.80.00.618/03/201514.4335.968.081.917218.600.620/03/201515.6541.519.474.449241.40.00.621/03/201515.5541.519.474.449241.40.00.621/03/201515.5514.995.01716.30.00.623/03/201514.9828.514.495.01716.30.00.624/03/201515.1435.81124.43.87426.50.41.025/03/201512.327.8610.693.521770.01.026/03/201512.327.8510.693.521770.01.027/03/201515.0825.3410.232.755176.80.01.028/03/20157.78527.8410.483.034211.70.01.030/03/201515.0825.3412.614.398163.90.01.030/03/201515.0825.4412.614.398163.90.01.0<	12/03/2015	16.83	32.98	131.9	3.239	218	0.0	0.6
14/03/2015 12.27 27.02 8.23 2.579 173.9 0.0 0.6 $15/03/2015$ 10.58 27.57 19.49 4.646 207.1 0 0.6 $16/03/2015$ 11.33 25.9 13.06 4.7 15.3 0.0 0.6 $17/03/2015$ 8 28.06 6.4 2.291 191.8 0 0.6 $18/03/2015$ 14.78 35.7 116.3 4.086 276.8 0.0 0.6 $20/03/2015$ 14.34 35.96 808 1.917 218.6 0 0.6 $20/03/2015$ 15.55 41.5 19.47 4.449 241.4 0.0 0.6 $22/03/2015$ 15.55 41.5 19.47 4.449 241.4 0.0 0.6 $22/03/2015$ 14.99 32.09 7.62 1991 152.1 0.0 0.6 $22/03/2015$ 15.14 35.81 124.4 3.874 262.5 0.4 1.0 $2/03/2015$ 12.3 30.59 13.16 3.406 248.3 0.0 1.0 $2/03/2015$ 12.3 30.59 13.16 3.406 248.3 0.0 1.0 $2/03/2015$ 7.85 7.84 10.48 3.034 211.7 0.0 1.0 $2/03/2015$ 9.45 30.01 8.51 2.562 181.4 0.0 1.0 $2/03/2015$ 16.03 28.54 10.23 2.755 176.6 0.0 0.0 <t< td=""><td>13/03/2015</td><td>15.4</td><td>23.36</td><td>15.12</td><td>6.21</td><td>150.4</td><td>0.0</td><td>0.6</td></t<>	13/03/2015	15.4	23.36	15.12	6.21	150.4	0.0	0.6
15/03/2015 10.58 27.57 19.49 4.646 207.1 0 0.6 $16/03/2015$ 12.33 25.9 13.06 4.7 153 0.0 0.6 $18/03/2015$ 14.78 35.7 136.3 4086 276.8 0.0 0.6 $18/03/2015$ 14.43 35.96 8.08 1917 218.6 0 0.6 $20/03/2015$ 15.65 41.5 19.47 4.449 241.4 0.0 0.6 $21/03/2015$ 15.25 23.09 18.23 6.954 141.5 0.0 0.6 $21/03/2015$ 14.98 22.09 7.62 1.991 152.1 0.0 0.6 $21/03/2015$ 14.98 22.09 7.62 1.991 152.1 0.0 0.6 $21/03/2015$ 15.14 35.81 124.4 3.874 262.5 0.4 1.0 $2/03/2015$ 12.3 27.86 10.69 3.52 177 0.0 1.0 $2/03/2015$ 12.3 30.59 13.16 3.406 248.3 0.0 1.0 $2/03/2015$ 7.785 27.84 10.48 3.034 211.7 0.0 1.0 $2/03/2015$ 15.08 25.34 12.61 4.398 163.9 0.0 1.0 $2/03/2015$ 15.08 25.34 12.61 4.398 163.9 0.0 1.0 $3/03/2015$ 15.68 25.4 12.61 4.398 163.9 0.0 1.0	14/03/2015	12.27	27.02	8.23	2.579	173.9	0.0	0.6
16/03/2015 12.33 25.9 13.06 4.7 153 0.0 0.6 $17/03/2015$ 8 28.06 6.4 2.291 191.8 0 0.6 $18/03/2015$ 14.78 35.7 136.3 4.086 276.8 0.0 0.6 $19/03/2015$ 14.43 35.96 8.08 1.917 218.6 0 0.6 $20/03/2015$ 15.65 41.5 19.47 4.49 241.4 0.0 0.6 $21/03/2015$ 14.98 28.5 14.49 5.017 163 0.0 0.6 $22/03/2015$ 14.98 28.5 14.49 5.017 163 0.0 0.6 $22/03/2015$ 14.93 29.9 7.52 1.991 15.1 0.0 0.6 $23/03/2015$ 12.3 27.86 10.69 3.52 177 0.0 1.0 $25/03/2015$ 12.3 30.59 13.16 3.406 248.3 0.0 1.0 $27/03/2015$ 8.59 28.25 10.01 3.169 279 0.0 1.0 $28/03/2015$ 7.785 27.84 10.23 2.755 176.8 0.0 1.0 $28/03/2015$ 16.03 28.54 10.23 2.755 176.8 0.0 1.0 $21/03/2015$ 15.08 25.34 12.61 4.388 163.9 0.0 1.0 $21/03/2015$ 16.03 28.54 10.23 2.755 176.8 0.0 1.0 <tr< td=""><td>15/03/2015</td><td>10.58</td><td>27.57</td><td>19.49</td><td>4.646</td><td>207.1</td><td>0</td><td>0.6</td></tr<>	15/03/2015	10.58	27.57	19.49	4.646	207.1	0	0.6
17/03/2015828.066.42.291191.800.6 $18/03/2015$ 14.7835.7136.34.086276.80.00.6 $19/03/2015$ 14.4835.968.081.917218.600.6 $20/03/2015$ 15.6541.519.474.449241.40.00.6 $21/03/2015$ 15.2523.0918.236.954141.50.00.6 $22/03/2015$ 14.9828.514.495.0171630.00.6 $23/03/2015$ 14.9932.097.621.991152.10.00.6 $24/03/2015$ 15.1435.81124.43.874262.50.41.0 $26/03/2015$ 12.327.8610.693.5217.70.01.0 $26/03/2015$ 7.78527.8410.483.046278.30.01.0 $27/03/2015$ 8.5928.2510.013.1692790.01.0 $29/03/2015$ 7.78527.8410.483.034211.70.01.0 $29/03/2015$ 15.0825.3410.232.755176.80.01.0 $3/03/2015$ 15.0825.4410.232.755176.80.00.0 $3/04/2015$ 13.8329.848.822.515163.60.00.0 $3/04/2015$ 14.6722.1810.9000.00.0 $3/04/2015$ 13.8418.4715.23.257169.6<	16/03/2015	12.33	25.9	13.06	4.7	153	0.0	0.6
18/03/2015 14.78 35.7 136.3 4.086 276.8 0.0 0.6 $20/03/2015$ 14.43 35.96 8.08 1.917 $221.6.6$ 0 0.6 $20/03/2015$ 15.55 41.5 19.47 4.449 241.4 0.0 0.6 $21/03/2015$ 15.25 22.09 18.23 6.954 141.5 0.0 0.6 $22/03/2015$ 14.98 28.5 14.49 5.017 163 0.0 0.6 $24/03/2015$ 112.3 27.86 10.69 3.52 177 0.0 1.0 $25/03/2015$ 12.3 30.59 13.16 3.406 248.3 0.0 1.0 $28/03/2015$ 12.3 30.59 13.16 3.406 248.3 0.0 1.0 $28/03/2015$ 12.8 30.01 8.51 2.562 181.4 0.0 1.0 $29/03/2015$ 14.67	17/03/2015	8	28.06	6.4	2.291	191.8	0	0.6
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	18/03/2015	14.78	35.7	136.3	4.086	276.8	0.0	0.6
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	19/03/2015	14.43	35.96	8.08	1.917	218.6	0	0.6
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	20/03/2015	15.65	41.5	19.47	4.449	241.4	0.0	0.6
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	21/03/2015	15.25	23.09	18.23	6.954	141.5	0.0	0.6
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	22/03/2015	14.98	28.5	14.49	5.017	163	0.0	0.6
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	23/03/2015	14.09	32.09	7.62	1.991	152.1	0.0	0.6
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	24/03/2015	15.14	35.81	124.4	3.874	262.5	0.4	1.0
26/03/2015 12.3 30.59 13.16 3.406 248.3 0.0 1.0 $27/03/2015$ 8.59 28.25 10.01 3.169 279 0.0 1.0 $28/03/2015$ 7.785 27.84 10.48 3.034 211.7 0.0 1.0 $29/03/2015$ 9.45 30.01 8.51 2.562 181.4 0.0 1.0 $30/03/2015$ 16.03 28.54 10.23 2.755 176.8 0.0 1.0 $31/03/2015$ 15.08 25.34 12.61 4.398 163.9 0.0 1.0 $1/04/2015$ 13.83 29.84 8.82 2.515 163.6 0.0 0.0 $2/04/2015$ 12.9 32.69 5.98 1.736 193.3 0.0 0.0 $3/04/2015$ 14.67 22.18 10.9 0 0 0.0 0.0 $4/04/2015$ 13.86 18.47 10.52 3.257 169.6 0.0 0.0 $4/04/2015$ 12.21 29.29 123.9 3.713 244.5 1.2 1.2 $7/04/2015$ 12.21 29.29 123.9 3.713 244.5 1.2 1.2 $4/04/2015$ 10.06 18.87 18.78 5.592 306 0.0 4.2 $9/04/2015$ 10.23 24.47 7.94 2.766 170.1 0.0 4.2 $11/04/2015$ 10.24 24.77 7.94 2.766 170.1 0.0 4.2 </td <td>25/03/2015</td> <td>12.3</td> <td>27.86</td> <td>10.69</td> <td>3.52</td> <td>177</td> <td>0.0</td> <td>1.0</td>	25/03/2015	12.3	27.86	10.69	3.52	177	0.0	1.0
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	26/03/2015	12.3	30.59	13.16	3.406	248.3	0.0	1.0
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	27/03/2015	8.59	28.25	10.01	3.169	279	0.0	1.0
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	28/03/2015	7.785	27.84	10.48	3.034	211.7	0.0	1.0
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	29/03/2015	9.45	30.01	8.51	2.562	181.4	0.0	1.0
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	30/03/2015	16.03	28.54	10.23	2.755	176.8	0.0	1.0
1/04/2015 13.83 29.84 8.82 2.515 163.6 0.0 0.0 $2/04/2015$ 12.9 32.69 5.98 1.736 193.3 0.0 0.0 $3/04/2015$ 14.67 22.18 10.9 0 0 0.0 0.0 $4/04/2015$ 13.86 18.47 10.52 3.257 169.6 0.0 0.0 $5/04/2015$ 12.81 25.56 6.62 1.624 204.4 0.0 0.0 $6/04/2015$ 12.21 29.29 123.9 3.713 244.5 1.2 1.2 $7/04/2015$ 11.56 25 21.93 5.223 262.9 3.0 4.2 $8/04/2015$ 10.06 18.87 18.78 5.592 306 0.0 4.2 $9/04/2015$ 8.08 22.43 10.2 2.596 198 0.0 4.2 $11/04/2015$ 10.44 23.47 7.94 2.706 170.1 0.0 4.2 $11/04/2015$ 10.23 24.77 12.39 2.432 217.3 0.0 4.2 $13/04/2015$ 10.27 23.53 9.89 3.427 161.9 0.0 4.2 $14/04/2015$ 7.157 23.37 6.87 2.354 198 0.0 4.2 $16/04/2015$ 12.81 31.09 9.54 2.805 276.3 0.0 4.4 $17/04/2015$ 12.81 31.09 9.54 2.805 276.3 0.0 4.4 <td>31/03/2015</td> <td>15.08</td> <td>25.34</td> <td>12.61</td> <td>4.398</td> <td>163.9</td> <td>0.0</td> <td>1.0</td>	31/03/2015	15.08	25.34	12.61	4.398	163.9	0.0	1.0
2/04/201512.932.695.981.736193.30.00.03/04/201514.6722.1810.9000.00.04/04/201513.8618.4710.523.257169.60.00.05/04/201512.8125.566.621.624204.40.00.06/04/201512.2129.29123.93.713244.51.21.27/04/201511.562521.935.223262.93.04.28/04/201510.0618.8718.785.5923060.04.29/04/20158.0822.4310.22.5961980.04.211/04/201510.4423.477.942.706170.10.04.212/04/201510.2324.7712.392.432217.30.04.213/04/201510.2723.539.893.427161.90.04.215/04/20157.15723.376.872.3541980.04.215/04/201512.8131.099.542.805276.30.04.416/04/201515.1826.2314.563.78286.20.04.4	1/04/2015	13.83	29.84	8.82	2.515	163.6	0.0	0.0
3/04/2015 14.67 22.18 10.9 0 0 0 0.0 0.0 $4/04/2015$ 13.86 18.47 10.52 3.257 169.6 0.0 0.0 $5/04/2015$ 12.81 25.56 6.62 1.624 204.4 0.0 0.0 $6/04/2015$ 12.21 29.29 123.9 3.713 244.5 1.2 1.2 $7/04/2015$ 11.56 25 21.93 5.223 262.9 3.0 4.2 $8/04/2015$ 10.06 18.87 18.78 5.592 306 0.0 4.2 $9/04/2015$ 8.08 22.43 10.2 2.596 198 0.0 4.2 $10/04/2015$ 8.35 21.18 9.97 3.369 154.7 0.0 4.2 $11/04/2015$ 10.44 23.47 7.94 2.706 170.1 0.0 4.2 $13/04/2015$ 10.27 23.53 9.89 3.427 161.9 0.0 4.2 $14/04/2015$ 7.157 23.37 6.87 2.354 198 0.0 4.2 $15/04/2015$ 8.89 28.4 10.59 2.178 189.1 0.2 4.4 $16/04/2015$ 12.81 31.09 9.54 2.805 276.3 0.0 4.4 $18/04/2015$ 16.76 25.84 9.1 3.482 166 0.0 4.4	2/04/2015	12.9	32.69	5.98	1.736	193.3	0.0	0.0
4/04/201513.8618.4710.523.257169.60.00.05/04/201512.8125.566.621.624204.40.00.06/04/201512.2129.29123.93.713244.51.21.27/04/201511.562521.935.223262.93.04.28/04/201510.0618.8718.785.5923060.04.29/04/20158.0822.4310.22.5961980.04.210/04/20158.3521.189.973.369154.70.04.211/04/201510.2324.7712.392.432217.30.04.213/04/201510.2723.539.893.427161.90.04.215/04/20157.15723.376.872.3541980.04.215/04/201512.8131.099.542.805276.30.04.416/04/201515.1826.2314.563.78286.20.04.4	3/04/2015	14.67	22.18	10.9	0	0	0.0	0.0
5/04/201512.8125.566.621.624204.40.00.06/04/201512.2129.29123.93.713244.51.21.27/04/201511.562521.935.223262.93.04.28/04/201510.0618.8718.785.5923060.04.29/04/20158.0822.4310.22.5961980.04.210/04/20158.3521.189.973.369154.70.04.211/04/201510.4423.477.942.706170.10.04.212/04/201510.2324.7712.392.432217.30.04.213/04/201510.2723.539.893.427161.90.04.214/04/20157.15723.376.872.3541980.04.215/04/201512.8131.099.542.805276.30.04.416/04/201516.7625.849.13.4821660.04.418/04/201515.1826.2314.563.78286.20.04.4	4/04/2015	13.86	18.47	10.52	3.257	169.6	0.0	0.0
6/04/201512.2129.29123.93.713244.51.21.27/04/201511.562521.935.223262.93.04.28/04/201510.0618.8718.785.5923060.04.29/04/20158.0822.4310.22.5961980.04.210/04/20158.3521.189.973.369154.70.04.211/04/201510.4423.477.942.706170.10.04.212/04/201510.2324.7712.392.432217.30.04.213/04/201510.2723.539.893.427161.90.04.214/04/20157.15723.376.872.3541980.04.215/04/201512.8131.099.542.805276.30.04.416/04/201516.7625.849.13.4821660.04.418/04/201515.1826.2314.563.78286.20.04.4	5/04/2015	12.81	25.56	6.62	1.624	204.4	0.0	0.0
7/04/201511.562521.935.223262.93.04.28/04/201510.0618.8718.785.5923060.04.29/04/20158.0822.4310.22.5961980.04.210/04/20158.3521.189.973.369154.70.04.211/04/201510.4423.477.942.706170.10.04.212/04/201510.2324.7712.392.432217.30.04.213/04/201510.2723.539.893.427161.90.04.214/04/20157.15723.376.872.3541980.04.215/04/201512.8131.099.542.805276.30.04.416/04/201516.7625.849.13.4821660.04.418/04/201515.1826.2314.563.78286.20.04.4	6/04/2015	12.21	29.29	123.9	3.713	244.5	1.2	1.2
8/04/201510.0618.8718.785.5923060.04.29/04/20158.0822.4310.22.5961980.04.210/04/20158.3521.189.973.369154.70.04.211/04/201510.4423.477.942.706170.10.04.212/04/201510.2324.7712.392.432217.30.04.213/04/201510.2723.539.893.427161.90.04.214/04/20157.15723.376.872.3541980.04.215/04/201512.8131.099.542.805276.30.04.416/04/201516.7625.849.13.4821660.04.418/04/201515.1826.2314.563.78286.20.04.4	7/04/2015	11.56	25	21.93	5.223	262.9	3.0	4.2
9/04/20158.0822.4310.22.5961980.04.210/04/20158.3521.189.973.369154.70.04.211/04/201510.4423.477.942.706170.10.04.212/04/201510.2324.7712.392.432217.30.04.213/04/201510.2723.539.893.427161.90.04.214/04/20157.15723.376.872.3541980.04.215/04/201512.8131.099.542.805276.30.04.416/04/201516.7625.849.13.4821660.04.418/04/201515.1826.2314.563.78286.20.04.4	8/04/2015	10.06	18.87	18.78	5.592	306	0.0	4.2
10/04/20158.3521.189.973.369154.70.04.211/04/201510.4423.477.942.706170.10.04.212/04/201510.2324.7712.392.432217.30.04.213/04/201510.2723.539.893.427161.90.04.214/04/20157.15723.376.872.3541980.04.215/04/20158.8928.410.592.178189.10.24.416/04/201512.8131.099.542.805276.30.04.417/04/201516.7625.849.13.4821660.04.418/04/201515.1826.2314.563.78286.20.04.4	9/04/2015	8.08	22.43	10.2	2.596	198	0.0	4.2
11/04/201510.4423.477.942.706170.10.04.212/04/201510.2324.7712.392.432217.30.04.213/04/201510.2723.539.893.427161.90.04.214/04/20157.15723.376.872.3541980.04.215/04/20158.8928.410.592.178189.10.24.416/04/201512.8131.099.542.805276.30.04.417/04/201516.7625.849.13.4821660.04.418/04/201515.1826.2314.563.78286.20.04.4	10/04/2015	8.35	21.18	9.97	3.369	154.7	0.0	4.2
12/04/201510.2324.7712.392.432217.30.04.213/04/201510.2723.539.893.427161.90.04.214/04/20157.15723.376.872.3541980.04.215/04/20158.8928.410.592.178189.10.24.416/04/201512.8131.099.542.805276.30.04.417/04/201516.7625.849.13.4821660.04.418/04/201515.1826.2314.563.78286.20.04.4	11/04/2015	10.44	23.47	7.94	2.706	170.1	0.0	4.2
13/04/201510.2723.539.893.427161.90.04.214/04/20157.15723.376.872.3541980.04.215/04/20158.8928.410.592.178189.10.24.416/04/201512.8131.099.542.805276.30.04.417/04/201516.7625.849.13.4821660.04.418/04/201515.1826.2314.563.78286.20.04.4	12/04/2015	10.23	24.77	12.39	2.432	217.3	0.0	4.2
14/04/20157.15723.376.872.3541980.04.215/04/20158.8928.410.592.178189.10.24.416/04/201512.8131.099.542.805276.30.04.417/04/201516.7625.849.13.4821660.04.418/04/201515.1826.2314.563.78286.20.04.4	13/04/2015	10.27	23.53	9.89	3.427	161.9	0.0	4.2
15/04/20158.8928.410.592.178189.10.24.416/04/201512.8131.099.542.805276.30.04.417/04/201516.7625.849.13.4821660.04.418/04/201515.1826.2314.563.78286.20.04.4	14/04/2015	7.157	23.37	6.87	2.354	198	0.0	4.2
16/04/2015 12.81 31.09 9.54 2.805 276.3 0.0 4.4 17/04/2015 16.76 25.84 9.1 3.482 166 0.0 4.4 18/04/2015 15.18 26.23 14.56 3.78 286.2 0.0 4.4	15/04/2015	8.89	28.4	10.59	2.178	189.1	0.2	4.4
17/04/2015 16.76 25.84 9.1 3.482 166 0.0 4.4 18/04/2015 15.18 26.23 14.56 3.78 286.2 0.0 4.4	16/04/2015	12.81	31.09	9.54	2.805	276.3	0.0	4.4
18/04/2015 15.18 26.23 14.56 3.78 286.2 0.0 4.4	17/04/2015	16.76	25.84	9.1	3.482	166	0.0	4.4
	18/04/2015	15.18	26.23	14.56	3.78	286.2	0.0	4.4

Mount Pleasant Meteorological Monitoring Data 2015								
Date Temperature (°C) Wind Speed (m/s) Wind Direction (Deg)	Rainfall	Cumulative Rainfall						
Minimum Maximum Maximum Average Average	(mm)	(mm)						
<u>19/04/2015</u> 12.74 22.78 13.28 3.169 207.3	0.0	4.4						
20/04/2015 9.74 14.8 13.29 2.816 170.5	0.2	4.6						
21/04/2015 10.2 14.54 122.4 4.407 200.7	0.4	5.0						
22/04/2015 12.95 16.93 7.66 1.724 236.1	17.8	22.8						
23/04/2015 12.14 21.99 5.15 1.572 210.2	21.4	44.2						
24/04/2015 11.94 23.91 9.47 3.028 293.1	0.0	44.2						
25/04/2015 9.02 24.31 16.26 3.936 288.8	0.2	44.4						
26/04/2015 8.69 18.53 14.89 5.124 285	0.6	45.0						
27/04/2015 7.775 18.88 6.93 2.201 244.2	0.0	45.0						
28/04/2015 5.168 19.3 11.09 3.114 217.6	0.0	45.0						
29/04/2015 8.35 20.32 12.79 4.067 157	0.0	45.0						
30/04/2015 10.95 20.31 16.12 5.449 152	0.0	45.0						
1/05/2015 12.41 17.76 11.11 5.029 160.8	3.6	3.6						
2/05/2015 14.3 20.89 13.58 6.281 159.2	0.0	3.6						
3/05/2015 15.86 21.83 11.5 2.839 179.7	5.8	9.4						
4/05/2015 13.75 21.37 4.53 1.296 199.4	0.2	9.6						
5/05/2015 10.41 25.22 14.13 4.113 317.1	0.2	9.8						
6/05/2015 8.59 18.56 15.32 4.855 275.6	0.0	9.8						
7/05/2015 4.419 18.66 13.45 4.001 282.1	0.0	9.8						
8/05/2015 5.115 18.14 9.72 3.105 259.4	0.0	9.8						
9/05/2015 6.561 18.66 11.43 3.686 305.1	0.0	9.8						
10/05/2015 5.202 19.35 17.64 5.731 315.4	0.0	9.8						
11/05/2015 10.98 19.28 17.36 6.938 298.3	0.0	9.8						
12/05/2015 9.64 20.34 15.27 4.363 300.2	0.0	9.8						
13/05/2015 3.737 16.69 12.83 4.182 253.7	0.0	9.8						
14/05/2015 0.664 15.99 7.69 2.523 272.9	0.0	9.8						
15/05/2015 0.767 18.47 10.25 3.104 222.2	0.0	9.8						
16/05/2015 10.47 16.41 8.96 3.365 162.3	0.0	9.8						
17/05/2015 8.86 18.91 7.92 3.57 159.9	0.2	10.0						
18/05/2015 8.77 17.37 5.81 1.876 168.8	0.0	10.0						
19/05/2015 10.37 21.88 9.24 2.138 221.5	0.0	10.0						
20/05/2015 13.06 21.72 16.57 2.942 227.7	18.8	28.8						
21/05/2015 10.2 19.49 9.52 2.348 237.8	16.2	45.0						
22/05/2015 9.81 13.67 11.58 2.313 196.1	12.4	57.4						
23/05/2015 5.703 17.06 7.23 1.908 167.7	0.6	58.0						
24/05/2015 2.457 16.47 5.94 1.822 239.5	0.2	58.2						
25/05/2015 2.663 18.47 4.11 1.81 262.9	0.0	58.2						
26/05/2015 3.059 14.92 4.18 1.687 223.5	0.0	58.2						
27/05/2015 5.709 18.54 5.42 1.781 256.6	0.2	58.4						
28/05/2015 8.83 20.73 5.55 2.06 276.5	0.0	58.4						
29/05/2015 10.07 17.73 5.98 2.242 252.3	0.0	58.4						
30/05/2015 9.61 18.82 5.06 2.162 276	0.4	58.8						
31/05/2015 7.702 15.02 10.88 2.199 239.2	9.6	68.4						
1/06/2015 1.866 15.66 14.39 4.218 246.2	0.2	0.2						
2/06/2015 -1.03 12.38 4.78 2.127 263	0.0	0.2						
3/06/2015 -1.064 14.8 4.45 2.018 254.8	0.0	0.2						
4/06/2015 -0.554 15.58 6.86 2.396 271.2	0.0	0.2						
5/06/2015 2.018 11.22	1.2	1.4						
6/06/2015 2.904 16.73 7.09 2.093 211.9	0.0	1.4						
7/06/2015 0.016 20.28 8.71 2.221 295.4	0.2	1.6						
8/06/2015 4.691 20.21 10.55 3.722 303.6	0	1.6						
9/06/2015 7.853 21.24 12.18 4.128 273.4	0	1.6						
10/06/2015 2.653 16.45 12.73 4.03 208.3	0	1.6						
11/06/2015 8.49 16.15 9.57 3.795 166.4	0	1.6						

Date Temperture (*) Wind Speet (n/s) Wind Direction (Deg) Paintal Comulative Rainfall 2506/2015 6.108 16.48 4.81 2.02 18.8 0.2 1.8 1206/2015 1.238 1.6.4 4.67 1.7.3 2.34.5 0.2 2.0 1506/2015 5.192 1.6.8 4.67 1.7.3 2.34.5 0.2 2.0 1506/2015 5.46 1.1.3 3.38 1.1 1.19.2 8.6. 10.6 1506/2015 6.77 12.51 1.2.7 1.366 2.7.8 1.3.4 2.0 1506/2015 6.77 12.51 1.3.2 3.48 2.06.6 1 2.5.2 2008/2015 6.2.54 1.4.53 4.6.6 2.1.7 2.0.0 2.5.2 2008/2015 5.44 1.5.2 3.2.6 2.2.2 2.2.2 2.2.2 2.2.2 2.2.2 2.2.2 2.2.2 2.2.2 2.2.2 2.2.2 2.2.2 2.2.2 2.2.2 2.2.2	Mount Pleasant Meteorological Monitoring Data 2015								
IndexNameNameNameNameNameName1208/02035.0.8.05.0.8.05.0.8.05.0.8.05.0.8.05.0.8.05.0.9.05.0.9.05.0.9.01508/020352.0.9.05.0.9.05.0.9.05.0.9.05.0.9.05.0.0.05.0.0.05.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0.0	Date	Tempera	ature (°C)	Wind Spee	ed (m/s)	Wind Direction (Deg)	Rainfall	Cumulative Rainfall	
12/06/2015 1.584 1.56 4.67 5.73 234.5 0 1.8 14/06/2015 2.947 17.83 5.38 1.802 21.57 0.2 2.0 15/08/2015 5.192 1.982 8.896 2.11 127.3 0.0 2.0 15/08/2015 5.192 1.93 3.38 1.1 1.92.2 4.8 1.06 15/08/2015 2.746 1.572 1.117 3.667 2.94.3 1.01 2.2 15/08/2015 2.746 1.572 1.21.4 1.348 2.06.4 1.0 2.0 20/06/2015 2.124 1.149 5.557 2.08 2.23.7 2.00 2.52 21/06/2015 2.564 1.043 2.054 2.02 2.54 2.52 22/06/2015 5.544 1.52 5.546 1.52 2.66 2.02 2.54 22/06/2015 5.646 1.52 2.66 2.02 2.54 2.02 2.54 20/06/2015<		Minimum	Maximum	Maximum	Average	Average	(mm)	(mm)	
13000015 1.94 15.6 4.67 1.73 224.5 0 1.8 140007015 2.047 176.8 5.538 1.800 115.7 0.2 2.0 150007015 9.96 113.2 8.38 1.1 192.2 8.6 10.6 150007015 9.91 15.91 11.51 2.04 13.44 24.0 150007015 2.746 16.73 11.17 3.667 2.71.3 0 24.0 150007015 2.124 13.49 5.557 2.055 22.84.3 0.00 25.2 210662015 5.424 14.53 4.84 1.954 25.3 0.00 25.2 220662015 5.424 15.23 5.46 1.231 195.2 0.00 25.2 230662015 5.045 1.231 195.2 0.22 25.6 22.6 230662015 1.340 4.67 1.237 20.83 1.02 26.6 23062015 1.384 1.675	12/06/2015	6.108	16.48	8.1	2.052	188.8	0.2	1.8	
1406/2015 5.88 1.802 21.7.3 0.2 2.0 1506/2015 5.152 1.882 8.89 2.11 127.3 0 2.0 1506/2015 9.91 15.91 11.51 2.731 126.4 13.44 2.40 1906/2015 6.77 12.51 123.4 1.48 2.66.4 1 2.50 2006/2015 0.334 13.49 5.56 1.588 2.03.1 0.00 2.52 2206/2015 0.234 14.63 4.84 1.954 2.83.7 0.00 2.52 2206/2015 2.256 10.62 1.05.2 1.05.2 0.02 2.54 2206/2015 5.44 15.52 5.46 1.233 105.2 0.02 2.56 2060/2015 1.469 1.67 1.08 3.05 1.71 0.8 2.66 2060/2015 1.469 1.57 1.08 3.05 1.71 0.8 2.66 2060/2015 1.452 1.66	13/06/2015	1.984	16.6	4.67	1.723	234.5	0	1.8	
15/08/20155.81.8.223.8.81.11.9128.6.1.0.617/08/20159.7.615.9111.512.7.112.4.8.13.42.4.013/08/20152.7.6510.7.712.5111.273.9492.0.6.1.2.02.7.013/08/20152.7.6413.7.912.5112.8.21.3.882.0.6.51.12.5.020/08/20152.3.4413.495.5.672.0.652.2.9.90.0.02.5.221/06/20150.3.6414.6.505.6.72.0.843.0.3.10.0.02.5.222/08/20150.3.6.611.4.505.5.41.3.3119.5.20.0.02.5.222/08/20155.3.6617.4.08.6.72.1.22.2.02.5.62.5.625/08/20153.0.6615.7.02.0.83.0.31.7.40.8.62.6.625/08/20150.9.215.24.6.72.1.22.2.62.7.22.7.625/08/20150.9.215.24.6.72.1.22.2.62.7.22.7.625/08/20150.9.215.24.6.72.7.22.7.62.7.22.7.625/08/20150.9.215.24.6.72.7.22.7.62.7.225/08/20150.9.215.21.3.61.3.62.7.22.7.62.7.225/08/20150.9.215.24.5.72.0.62.7.22.7.62.7.225/08/20150.9.21.5.74.5.82.0.62.7.22.7.62.7	14/06/2015	2.087	17.63	5.38	1.802	215.7	0.2	2.0	
16/08/20159.51.3.33.3.81.11.42.28.61.0.617/08/20159.9115.9111.512.731254.83.3.42.4.013/08/20156.75711.23111.222.1.3.820.6.612.5.020/06/20152.3.2413.495.951.5.3820.1.30.22.5.221/06/20152.3.6414.4595.972.0.82.0.90.01.5.222/06/20152.5.641.5.21.5.43.0.10.02.5.223/06/20155.441.5.25.461.2.311.95.20.22.5.423/06/20155.441.5.25.461.2.311.9.5.20.22.5.423/06/20155.441.5.25.461.2.311.9.50.22.5.423/06/20151.4.861.6.71.0.62.2.72.0.22.5.423/06/20151.1.861.5.74.522.60.02.6.620/06/20151.1.311.9.74.222.5.50.01.220/07/20151.1.861.7.61.7.62.2.60.01.220/07/20151.3.861.7.61.7.82.2.60.01.220/07/20151.3.871.7.61.7.82.2.60.01.220/07/20151.3.871.7.61.7.82.7.20.01.220/07/20151.3.871.7.61.7.82.7.20.01.220/07/20151.3.871.7.87	15/06/2015	5.192	16.82	8.96	2.31	217.3	0	2.0	
17/80/2015 9.91 15.13 11.17 3.667 27.48 12.44 7.46 136/07/2015 6.757 12.31 12.32 13.88 206.6 1 25.00 20/06/2015 2.324 13.49 5.57 12.38 200.6 1 25.02 21/06/2015 -2.544 14.43 5.57 2.286 23.31 0.00 2.52 23/06/2015 0.544 15.32 5.46 1.233 195.2 0.00 2.56 23/06/2015 0.544 15.75 10.08 3.025 17.17 0.8 2.66 25/06/2015 1.646 15.76 4.77 2.12 2.03 0.02 2.66 25/06/2015 1.638 1.743 4.86 2.06 2.72 2.06 25/06/2015 1.433 1.428 1.86 2.46 2.06 2.06 2.06 2.06 2.06 2.06 2.06 2.06 2.06 2.06 2.06 2.06 2.06 2.01<	16/06/2015	9.6	13.23	3.38	1.1	192.2	8.6	10.6	
18/08/2015 7.746 15.73 11.17 3.667 27.12 0 7.40 13/08/2015 6.757 12.51 13.48 20.66 1 25.0 21/08/2015 0.234 13.49 5.97 21.98 22.99 0.0 25.2 23/08/2015 0.245 14.43 4.84 1.954 22.89 0.0 25.2 23/08/2015 0.245 14.43 4.84 1.954 22.89 0.0 25.2 23/08/2015 0.544 15.2 5.46 1.333 1.952 0.2 25.4 25/08/2015 0.42 16.2 4.77 2.22 2.851 0.0 2.86 25/08/2015 1.337 15.63 4.22 1.969 2.45.6 0.0 2.66 25/08/2015 1.332 13.07 4.86 1.366 2.25.6 0.0 1.2 25/08/2015 1.333 13.07 4.86 1.36 2.85 0.1 1.3 10/07/2015 <td>17/06/2015</td> <td>9.91</td> <td>15.91</td> <td>11.51</td> <td>2.731</td> <td>254.8</td> <td>13.4</td> <td>24.0</td>	17/06/2015	9.91	15.91	11.51	2.731	254.8	13.4	24.0	
19/80/0050.7.5712.5112.321.3.4820.6.60.7.27.5.720/80/0052.3.2413.495.971.5.882.01.30.27.2.521/80/0150.3.5814.4.95.972.1862.0.80.02.5.222/80/20150.3.5814.4.21.0.32.86413.3.10.02.5.222/80/20150.3.5817.4.98.672.12.72.0.9.30.22.5.628/80/20153.0.5617.7.98.672.12.72.0.9.30.22.5.628/80/20150.4.21.5.7.64.5.72.0.62.45.50.0.22.6.628/80/20151.5.861.5.7.64.5.72.2.60.02.6.628/80/20151.1.811.6.74.2.61.0.62.7.22.6.628/80/20151.1.831.5.7.61.0.862.7.21.6.20.01.229/70/20151.3.881.7.5.18.3.82.0.82.7.21.6.21.2.229/70/20151.3.841.2.641.3.842.7.30.01.21.2.229/70/20151.3.841.2.641.3.842.7.40.01.21.2.229/70/20151.4.241.5.67.6.51.2.22.6.61.21.2.2 <td< td=""><td>18/06/2015</td><td>7.746</td><td>16.73</td><td>11.17</td><td>3.667</td><td>271.2</td><td>0</td><td>24.0</td></td<>	18/06/2015	7.746	16.73	11.17	3.667	271.2	0	24.0	
2006/2015 2.234 13.49 5.57 2.085 2.29 0.0 2.52 22/06/2015 0.256 14.63 4.84 1.934 2.287 0.0 2.52 22/06/2015 0.256 14.63 4.84 1.934 2.867 0.0 2.52 22/06/2015 5.564 1.233 1.952 0.2 2.54 22/06/2015 3.056 17.49 8.67 2.127 22033 0.2 2.56 25/06/2015 0.52 16.2 4.77 2.212 2.2651 0.0 2.66 23/06/2015 1.133 13.07 4.08 1.396 2.25.6 0.0 2.72 20/06/2015 1.133 13.07 4.08 1.396 2.25.6 0.0 1.2 20/07/2015 5.838 1.23 4.32 1.28 1.2 1.2 20/07/2015 5.888 1.75.8 8.6 2.48 0.0 1.2 20/07/2015 0.288 16.86 7.49 <td>19/06/2015</td> <td>6.757</td> <td>12.51</td> <td>123.2</td> <td>1.348</td> <td>206.6</td> <td>1</td> <td>25.0</td>	19/06/2015	6.757	12.51	123.2	1.348	206.6	1	25.0	
12106/2015 0.104 14.89 5.87 2.085 22.99 0.00 25.2 22706/2015 -2.544 14.83 1954 23.06 23.01 0.00 25.2 2306/2015 0.256 19.42 10.3 2.846 303.1 0.00 25.2 2306/2015 4.92 10.75 10.08 30.05 17.10 0.88 20.6 23.6 2306/2015 0.52 16.2 4.77 22.12 26.51 0.00 26.6 2306/2015 1.586 15.56 4.55 2.06 245.5 0.00 26.6 23006/2015 1.488 15.76 4.22 1.969 245.5 0.00 1.2 2007/2015 1.346 12.24 1.469 245.5 0.00 1.2 3008/2015 1.434 12.44 11.63 3.788 271.3 0.00 1.2 3007/2015 1.347 15.26 7.45 20.66 0.01 1.2 3007/201	20/06/2015	2.324	13.49	5.95	1.538	201.3	0.2	25.2	
22/06/2015 -25.44 14.83 4.84 1.944 22.87 0.0 25.2 22/06/2015 0.25 19.42 10.3 22.86 30.31 0.0 25.2 22/06/2015 3.64 13.32 5.46 12.33 195.2 0.1 25.6 25/06/2015 0.52 16.7 10.08 3.025 17.1 0.8 26.6 23/06/2015 1.52 4.77 2.212 26.51 0.0 26.6 23/06/2015 1.337 15.63 4.22 1.969 245.6 0.0 26.6 23/06/2015 -1.331 13.07 4.08 1.366 27.2 1.2 1.2 1/07/2015 5.83 17.51 8.36 0.28 1.6 1.2 1.2 2/07/2015 0.428 11.63 3.788 27.7.3 0.0 1.2 2/07/2015 0.428 10.66 7.45 2.0 0.0 1.2 2/07/2015 0.428 16.66	21/06/2015	0.194	14.59	5.67	2.085	229.9	0.0	25.2	
22/06/2015 0.256 19.42 10.3 22.86 303.1 0.00 25.2 24/06/2015 5.44 15.32 5.66 12.33 195.2 0.2 25.6 25/06/2015 3.056 17.40 8.67 2.127 20.0.3 0.2 25.6 25/06/2015 0.42 16.57 10.08 30.25 17.1 0.8 26.4 25/06/2015 1.586 15.76 4.52 1.069 245.6 0.0 26.6 25/06/2015 1.133 13.07 4.02 1.299 245.6 0.0 27.2 10/7/2015 1.583 17.51 8.36 2.08 22.5 0.0 1.2 3/07/2015 1.348 12.64 11.63 3.78 27.1 0.2 1.2 3/07/2015 0.458 15.66 7.45 0.0 1.2 3/07/2015 0.458 15.66 7.45 0.0 1.2 3/07/2015 1.347	22/06/2015	-2.564	14.63	4.84	1.954	258.7	0.0	25.2	
24/06/2015 5.44 15.32 5.66 12.33 195.2 0.2 25.64 25/06/2015 3.056 17.49 8.67 2.127 209.3 0.2 25.64 25/06/2015 4.92 16.75 10.08 3.025 17.1 0.8 26.4 27/06/2015 1.58 15.7 4.05 2.02 28.66 20.65 </td <td>23/06/2015</td> <td>0.256</td> <td>19.42</td> <td>10.3</td> <td>2.846</td> <td>303.1</td> <td>0.0</td> <td>25.2</td>	23/06/2015	0.256	19.42	10.3	2.846	303.1	0.0	25.2	
25/66/2015 4.056 17.49 8.67 2.127 200.3 0.02 25.6 25/66/2015 4.92 16.75 10.08 3.025 171 0.8 26.4 27/66/2015 1.686 15.76 4.55 2.06 245.5 0.00 26.6 28/06/2015 1.133 13.07 4.08 13.96 225.6 0.66 27.2 1/07/2015 1.838 1.75.1 8.36 2.08 25.2 0.00 1.2 2/07/2015 1.346 1.264 11.63 3.788 27.13 0.00 1.2 2/07/2015 0.495 15.9 10.11 2.785 26.98 0.00 1.2 3/07/2015 0.288 16.66 7.45 0.01 1.2 5/07/2015 1.22 14.54 8.8 2.469 18.32 0.0 1.2 5/07/2015 1.22 14.54 8.8 2.469 18.32 0.2 1.4 9/07/2015	24/06/2015	5.44	15.32	5.46	1.233	195.2	0.2	25.4	
22606/2015 4.92 16.75 10.08 3.025 171 0.8 2264 27/06/2015 0.52 16.2 4.77 2.212 265.1 0.0 26.4 28/06/2015 1.486 15.76 4.55 2.06 245.5 0.0 26.5 29/06/2015 1.132 13.07 40.8 13.96 22.56 0.06 27.2 1/07/2015 1.346 12.64 11.63 3.788 271.3 0.0 1.2 2/07/2015 0.4855 15.3 10.11 2.786 269.8 0.0 1.2 3/07/2015 0.4895 15.9 10.11 2.786 269.8 0.0 1.2 5/07/2015 0.128 15.66 7.45 0.0 1.2 2.6 5/07/2015 1.721 15.28 7.61 2.245 201.5 0.0 1.2 5/07/2015 1.344 15.88 2.49 183.2 0.2 1.4 9/07/2015 -1.318	25/06/2015	3.056	17.49	8.67	2.127	209.3	0.2	25.6	
22/06/2015 0.02 16.2 4.77 2.212 205.1 0.0 26.4 28/06/2015 1.372 15.63 4.22 1.969 245.6 0.0 26.6 30/06/2015 1.133 13.07 4.08 1.396 225.6 0.6 27.2 1/07/2015 1.446 12.64 11.63 3.788 271.3 0.0 1.2 3/07/2015 0.456 13.23 4.34 1.745 225 0.0 1.2 4/07/2015 0.656 13.23 4.34 1.745 225 0.0 1.2 5/07/2015 0.258 16.66 7.45 0.0 1.2 5/07/2015 1.247 15.8 7.61 2.245 201.5 0.0 1.2 5/07/2015 1.247 15.8 7.61 2.245 201.5 0.0 1.2 5/07/2015 1.247 15.8 7.61 2.285 20.4 0.4 1.4 1/07/2015 0.519 18	26/06/2015	4.92	16.75	10.08	3.025	171	0.8	26.4	
228/06/2015 1.686 15.76 4.55 2.06 245.5 0.2 26.6 29/06/2015 1.1372 15.63 4.22 1.969 245.6 0.0 26.6 29/06/2015 1.133 13.07 4.08 1.366 22.5 0.6 27.2 1/07/2015 5.883 17.51 8.36 2.08 23.2 1.2 1.2 2/07/2015 0.665 13.23 4.34 1.745 225 0.0 1.2 3/07/2015 0.058 15.9 10.11 2.786 269.8 0.0 1.2 5/07/2015 0.328 16.66 7.45 0.0 1.2 5/07/2015 1.347 15.16 1.23 3.468 280.9 0.0 1.2 8/07/2015 1.343 15.8 5.4 2.265 248.5 0.0 1.4 9/07/2015 -1.338 15.08 5.4 2.265 20.4 1.4 1/07/2015 0.128 18.86 <t< td=""><td>27/06/2015</td><td>0.52</td><td>16.2</td><td>4.77</td><td>2.212</td><td>265.1</td><td>0.0</td><td>26.4</td></t<>	27/06/2015	0.52	16.2	4.77	2.212	265.1	0.0	26.4	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	28/06/2015	1.686	15.76	4.55	2.06	245.5	0.2	26.6	
30/06/2015 -1.133 13.07 4.08 1.396 225.6 0.6 27.2 1/07/2015 5.883 17.51 8.36 2.08 2.53.2 1.2 1.2 3/07/2015 1.364 12.64 11.63 3.788 227.3 0.0 1.2 3/07/2015 -0.656 13.23 4.34 1.745 225 0.0 1.2 4/07/2015 0.895 15.9 10.11 2.766 269.8 0.0 1.2 5/07/2015 0.288 15.66 7.45 - - 0.0 1.2 7/07/2015 1.347 15.16 12.93 3.468 280.9 0.0 1.2 7/07/2015 1.338 15.08 5.94 2.285 248.6 0.0 1.4 10/07/2015 -1.38 11.98 2.712 250.3 1.2 2.6 11/07/2015 0.128 18.86 11.98 2.722 30.35 3.8 9.4 12/07/2015 <t< td=""><td>29/06/2015</td><td>-1.372</td><td>15.63</td><td>4.22</td><td>1.969</td><td>245.6</td><td>0.0</td><td>26.6</td></t<>	29/06/2015	-1.372	15.63	4.22	1.969	245.6	0.0	26.6	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	30/06/2015	-1.133	13.07	4.08	1.396	225.6	0.6	27.2	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	1/07/2015	5.883	17.51	8.36	2.08	253.2	1.2	1.2	
$\begin{array}{c c c c c c c c c c c c c c c c c c c $	2/07/2015	1.346	12.64	11.63	3.788	271.3	0.0	1.2	
4/07/2015 -0.895 15.9 10.11 2.786 269.8 0.0 1.2 $5/07/2015$ 0.258 16.66 7.45 0.0 1.2 $6/07/2015$ 1.347 15.16 12.93 3.468 280.9 0.0 1.2 $7/07/2015$ 1.721 15.28 7.61 2.245 201.5 0.0 1.2 $8/07/2015$ -0.22 14.54 8.8 2.469 183.2 0.2 1.4 $9/07/2015$ -1.388 15.08 5.94 2.285 248.6 0.0 1.4 $9/07/2015$ -0.128 18.86 11.98 2.712 250.3 1.2 2.6 $11/07/2015$ 0.519 18.16 11.89 2.788 259.1 1.6 4.2 $12/07/2015$ 4.528 11.44 20.23 7.999 303.2 1.4 5.6 $13/07/2015$ 4.796 14.07 118.6 7.226 303.5 3.8 9.4 $14/07/2015$ 5.747 13.71 16.25 6.566 296.9 0.0 9.4 $15/07/2015$ 3.211 13.76 14.36 2.437 265.5 0.0 9.4 $16/07/2015$ 3.241 13.78 12.89 4.756 292.2 1.8 12.6 $18/07/2015$ 1.852 12.87 6.79 1.975 200.5 0.2 12.8 $2/07/2015$ 1.852 12.87 6.79 1.975 200.5 0.2 13.0	3/07/2015	-0.656	13.23	4.34	1.745	225	0.0	1.2	
5/07/2015 0.258 16.66 7.45 0.0 1.2 $6/07/2015$ 1.347 15.16 12.93 3.468 280.9 0.0 1.2 $7/07/2015$ 1.721 15.28 7.61 2.245 201.5 0.0 1.2 $8/07/2015$ -0.22 14.54 8.8 2.469 183.2 0.2 1.4 $9/07/2015$ -0.22 14.54 8.8 2.469 183.2 0.2 1.4 $9/07/2015$ -0.128 18.66 11.98 2.782 28.66 0.0 1.4 $10/07/2015$ 0.519 18.16 11.89 2.782 29.33 1.2 2.6 $11/07/2015$ 0.519 18.16 11.89 2.788 259.1 1.6 4.2 $12/07/2015$ 4.528 11.14 20.23 7.999 303.2 1.4 5.6 $13/07/2015$ 4.796 14.07 118.6 7.226 303.5 3.8 9.4 $14/07/2015$ 5.747 13.71 16.25 6.566 296.9 0.0 9.4 $15/07/2015$ 3.517 11.79 10.17 3.17 259 1.4 10.8 $17/07/2015$ 3.517 11.79 10.17 3.17 259 1.4 10.8 $17/07/2015$ 3.143 13.08 12.89 4.756 292.2 1.8 12.8 $19/07/2015$ 1.427 15.78 7.35 2.313 193.1 0.0 12.8 $21/0$	4/07/2015	-0.895	15.9	10.11	2.786	269.8	0.0	1.2	
6/07/2015 1.347 15.16 12.93 3.468 280.9 0.0 1.2 $7/07/2015$ 1.721 15.28 7.61 2.245 20.15 0.0 1.2 $8/07/2015$ 0.22 14.54 8.8 2.469 18.32 0.2 1.4 $9/07/2015$ -1.338 15.08 5.94 2.285 248.6 0.0 1.4 $10/07/2015$ -0.128 18.86 11.98 2.712 250.3 1.2 2.6 $11/07/2015$ 0.519 18.16 11.89 2.788 259.1 1.6 4.2 $12/07/2015$ 4.528 11.14 20.23 7.999 303.2 1.4 5.6 $13/07/2015$ 4.796 14.07 118.6 7.226 303.5 3.8 9.4 $14/07/2015$ 5.747 13.71 16.25 6.566 296.9 0.0 9.4 $16/07/2015$ 3.211 13.76 14.36 2.437 255.5 0.0 9.4 $16/07/2015$ 3.143 13.08 12.89 4.756 292.2 1.8 12.8 $17/07/2015$ 3.143 13.08 12.89 4.756 292.2 1.8 12.8 $20/07/2015$ 1.852 12.87 6.79 1.975 200.5 0.2 12.8 $19/07/2015$ 1.842 15.78 7.35 2.313 19.1 0.0 12.8 $20/07/2015$ 4.282 15.78 7.35 2.313 19.4 0.2	5/07/2015	0.258	16.66	7.45			0.0	1.2	
7/07/2015 1.721 15.28 7.61 2.245 201.5 0.0 1.2 $8/07/2015$ -0.22 14.54 8.8 2.469 183.2 0.2 1.4 $9/07/2015$ -1.338 15.08 5.94 2.285 2248.6 0.0 1.4 $10/07/2015$ -0.128 18.86 11.98 2.712 250.3 1.2 2.66 $11/07/2015$ 0.519 18.16 11.89 2.788 259.1 1.6 4.2 $12/07/2015$ 4.528 11.14 20.23 7.999 303.2 1.4 5.6 $13/07/2015$ 4.796 14.07 118.6 7.226 303.5 3.8 9.4 $14/07/2015$ 5.747 13.71 16.25 6.566 296.9 0.0 9.4 $15/07/2015$ 3.211 13.76 14.36 2.437 265.5 0.0 9.4 $16/07/2015$ 3.517 11.79 10.17 3.17 259 1.4 10.8 $17/07/2015$ 3.143 13.08 12.89 4.756 292.2 1.8 12.6 $18/07/2015$ 1.852 12.87 6.79 19.75 200.5 0.2 12.8 $19/07/2015$ 1.174 12.15 5.16 1.346 181.4 0.0 12.8 $20/07/2015$ 4.282 15.78 7.35 2.313 193.1 0.0 12.8 $21/07/2015$ 1.201 14.71 4.36 12.73 186.2	6/07/2015	1.347	15.16	12.93	3.468	280.9	0.0	1.2	
8/07/2015 -0.22 14.54 8.8 2.469 183.2 0.2 1.4 $9/07/2015$ -1.338 15.08 5.94 2.285 248.6 0.0 1.4 $10/07/2015$ -0.128 18.86 11.98 2.712 250.3 1.2 2.6 $11/07/2015$ 0.519 18.16 11.89 2.778 259.1 1.6 4.2 $12/07/2015$ 4.528 11.14 20.23 7.999 303.2 1.4 5.6 $13/07/2015$ 4.796 14.07 118.6 7.226 303.5 3.8 9.4 $14/07/2015$ 5.747 13.71 16.25 6.566 296.9 0.0 9.4 $15/07/2015$ 3.211 13.76 14.36 2.437 265.5 0.0 9.4 $16/07/2015$ 3.517 11.79 10.17 3.17 259 1.4 10.8 $17/07/2015$ 3.143 13.08 12.89 4.756 292.2 1.8 12.8 $19/07/2015$ 1.174 12.15 5.16 1.346 181.4 0.0 12.8 $20/07/2015$ 1.282 15.78 7.35 2.313 193.1 0.0 12.8 $21/07/2015$ 3.229 13.89 5.05 1.376 208.5 0.2 13.0 $22/07/2015$ 4.282 15.78 7.35 2.313 193.1 0.0 13.0 $23/07/2015$ 1.201 14.71 4.36 1.273 186.2	7/07/2015	1.721	15.28	7.61	2.245	201.5	0.0	1.2	
9/07/2015 -1.338 15.08 5.94 2.285 248.6 0.0 1.4 10/07/2015 -0.128 18.86 11.98 2.712 250.3 1.2 2.6 11/07/2015 0.519 18.16 11.89 2.788 259.1 1.6 4.2 12/07/2015 4.528 11.14 20.23 7.999 303.2 1.4 5.6 13/07/2015 4.796 14.07 118.6 7.226 303.5 3.8 9.4 14/07/2015 5.747 13.71 16.25 6.566 296.9 0.0 9.4 15/07/2015 3.211 13.76 14.36 2.437 265.5 0.0 9.4 16/07/2015 3.143 13.08 12.89 4.756 292.2 1.8 12.6 18/07/2015 1.174 12.15 5.16 1.346 181.4 0.0 12.8 20/07/2015 1.201 14.71 4.36 1.273 186.2 0.0 13.0	8/07/2015	-0.22	14.54	8.8	2.469	183.2	0.2	1.4	
$\begin{array}{ c c c c c c c c c c c c c c c c c c c$	9/07/2015	-1.338	15.08	5.94	2.285	248.6	0.0	1.4	
11/07/2015 0.519 18.16 11.89 2.788 259.1 1.6 4.2 $12/07/2015$ 4.528 11.14 20.23 7.999 303.2 1.4 5.6 $13/07/2015$ 4.796 14.07 118.6 7.226 303.5 3.8 9.4 $14/07/2015$ 5.747 13.71 16.25 6.566 296.9 0.0 9.4 $15/07/2015$ 3.211 13.76 14.36 2.437 225.5 0.0 9.4 $16/07/2015$ 3.517 11.79 10.17 3.17 259 1.4 10.8 $17/07/2015$ 3.143 13.08 12.89 4.756 292.2 1.8 12.8 $19/07/2015$ 1.852 12.87 6.79 1.975 200.5 0.2 12.8 $20/07/2015$ 1.852 12.87 7.35 2.313 193.1 0.0 12.8 $20/07/2015$ 4.282 15.78 7.35 2.313 193.1 0.0 12.8 $20/07/2015$ 3.329 13.89 5.05 1.376 208.5 0.2 13.0 $22/07/2015$ 1.201 14.71 4.36 1.273 186.2 0.0 13.0 $23/07/2015$ 6.52 12.68 3.84 1.255 235.6 2.8 15.8 $24/07/2015$ 8.86 16.43 10.34 2.191 244.7 3.0 18.8 $25/07/2015$ 7.644 18.04 15 4.89 295.4 0	10/07/2015	-0.128	18.86	11.98	2.712	250.3	1.2	2.6	
12/07/2015 4.528 11.14 20.23 7.999 303.2 1.4 5.6 $13/07/2015$ 4.796 14.07 118.6 7.226 303.5 3.8 9.4 $14/07/2015$ 5.747 13.71 16.25 6.566 296.9 0.0 9.4 $15/07/2015$ 3.211 13.76 14.36 2.437 265.5 0.0 9.4 $16/07/2015$ 3.211 11.79 10.17 3.17 259 1.4 10.8 $17/07/2015$ 3.143 13.08 12.89 4.756 292.2 1.8 1.2 $18/07/2015$ 1.852 12.87 6.79 1.975 200.5 0.2 12.8 $19/07/2015$ 1.852 12.87 6.79 1.975 200.5 0.2 12.8 $20/07/2015$ 4.282 15.78 7.35 2.313 193.1 0.0 12.8 $21/07/2015$ 3.299 13.89 5.05 1.376 208.5 0.2 13.0 $22/07/2015$ 12.01 14.71 4.36 1.273 186.2 0.0 13.0 $23/07/2015$ 6.52 12.68 3.84 1.255 235.6 2.8 15.8 $24/07/2015$ 8.86 16.43 10.34 2.191 244.7 3.0 18.8 $25/07/2015$ 7.644 18.04 15 4.89 295.4 0.2 19.0 $26/07/2015$ 4.907 18.8 16.57 4.8 284.2 0.0	11/07/2015	0.519	18.16	11.89	2.788	259.1	1.6	4.2	
13/07/2015 4.796 14.07 118.6 7.226 303.5 3.8 9.4 14/07/2015 5.747 13.71 16.25 6.566 296.9 0.0 9.4 15/07/2015 3.211 13.76 14.36 2.437 265.5 0.0 9.4 16/07/2015 3.517 11.79 10.17 3.17 259 1.4 10.8 17/07/2015 3.143 13.08 12.89 4.756 292.2 1.8 12.6 18/07/2015 1.174 12.15 5.16 1.346 181.4 0.0 12.8 19/07/2015 4.282 15.78 7.35 2.313 193.1 0.0 12.8 20/07/2015 4.282 15.78 7.35 2.313 193.1 0.0 13.0 22/07/2015 1.201 14.71 4.36 1.273 186.2 0.0 13.0 23/07/2015 1.652 12.68 3.84 1.255 235.6 2.8 15.8 <	12/07/2015	4.528	11.14	20.23	7.999	303.2	1.4	5.6	
14/07/2015 5.747 13.71 16.25 6.566 296.9 0.0 9.4 15/07/2015 3.211 13.76 14.36 2.437 265.5 0.0 9.4 15/07/2015 3.517 11.79 10.17 3.17 259 1.4 10.8 17/07/2015 3.143 13.08 12.89 4.756 292.2 1.8 12.6 18/07/2015 1.852 12.87 6.79 1.975 200.5 0.2 12.8 19/07/2015 1.174 12.15 5.16 1.346 181.4 0.0 12.8 20/07/2015 1.422 15.78 7.35 2.313 193.1 0.0 12.8 21/07/2015 1.201 14.71 4.36 1.273 186.2 0.0 13.0 23/07/2015 6.52 12.68 3.84 1.255 235.6 2.8 15.8 24/07/2015 7.644 18.04 15 4.89 295.4 0.2 19.0 2	13/07/2015	4.796	14.07	118.6	7.226	303.5	3.8	9.4	
15/07/2015 3.211 13.76 14.36 2.437 265.5 0.0 9.4 16/07/2015 3.517 11.79 10.17 3.17 259 1.4 10.8 17/07/2015 3.143 13.08 12.89 4.756 292.2 1.8 12.6 18/07/2015 1.852 12.87 6.79 1.975 200.5 0.2 12.8 19/07/2015 1.174 12.15 5.16 1.346 181.4 0.0 12.8 20/07/2015 4.282 15.78 7.35 2.313 193.1 0.0 12.8 21/07/2015 3.329 13.89 5.05 1.376 208.5 0.2 13.0 22/07/2015 1.201 14.71 4.36 1.273 186.2 0.0 13.0 23/07/2015 6.52 12.68 3.84 1.255 235.6 2.8 15.8 24/07/2015 8.86 16.43 10.34 2.191 244.7 3.0 18.8 <t< td=""><td>14/07/2015</td><td>5.747</td><td>13.71</td><td>16.25</td><td>6.566</td><td>296.9</td><td>0.0</td><td>9.4</td></t<>	14/07/2015	5.747	13.71	16.25	6.566	296.9	0.0	9.4	
16/07/20153.51711.7910.173.172591.410.817/07/20153.14313.0812.894.756292.21.812.618/07/20151.85212.876.791.975200.50.212.819/07/20151.17412.155.161.346181.40.012.820/07/2154.28215.787.352.313193.10.012.821/07/20153.32913.895.051.376208.50.213.023/07/20151.20114.714.361.273186.20.013.023/07/20156.5212.683.841.255235.62.815.824/07/20158.8616.4310.342.191244.73.018.825/07/20157.64418.04154.89295.40.219.026/07/20154.90718.1816.574.8284.20.019.027/07/2015-1.09713.865.382.422254.30.019.028/07/2015-1.09713.865.382.422254.30.019.030/07/2015-1.37817.71120.92.962284.10.019.031/07/20155.81518.549.062.798297.30.019.031/07/20155.93713.7819.045.159310.10.00.03/08/20155.97415.7415.815.408289.9 </td <td>15/07/2015</td> <td>3.211</td> <td>13.76</td> <td>14.36</td> <td>2.437</td> <td>265.5</td> <td>0.0</td> <td>9.4</td>	15/07/2015	3.211	13.76	14.36	2.437	265.5	0.0	9.4	
17/07/20153.14313.0812.894.756292.21.812.618/07/20151.85212.876.791.975200.50.212.819/07/20151.17412.155.161.346181.40.012.820/07/20154.28215.787.352.313193.10.012.821/07/20153.32913.895.051.376208.50.213.022/07/20151.20114.714.361.273186.20.013.023/07/20156.5212.683.841.255235.62.815.824/07/20158.8616.4310.342.191244.73.018.825/07/20157.64418.04154.89295.40.219.026/07/20154.90718.1816.574.8284.20.019.027/07/20151.09713.865.382.422254.30.019.028/07/2015-1.37817.71120.92.962284.10.019.030/07/2015-1.37817.71120.92.962284.10.019.031/07/20155.81518.549.062.798297.30.019.031/07/20155.81518.549.062.798297.30.019.031/07/20155.87415.7415.815.408289.90.00.03/08/20155.97415.7415.815.408289.	16/07/2015	3.517	11.79	10.17	3.17	259	1.4	10.8	
18/07/20151.85212.876.791.975200.50.212.819/07/20151.17412.155.161.346181.40.012.820/07/20154.28215.787.352.313193.10.012.821/07/20153.32913.895.051.376208.50.213.022/07/20151.20114.714.361.273186.20.013.023/07/20156.5212.683.841.255235.62.815.824/07/20158.8616.4310.342.191244.73.018.825/07/20157.64418.04154.89295.40.219.026/07/20154.90718.1816.574.8284.20.019.027/07/20152.15513.1312.194.0492830.019.028/07/2015-1.09713.865.382.422254.30.019.029/07/2015-2.83715.534.952.14231.20.019.031/07/20155.81518.549.062.798297.30.019.031/07/20155.81518.549.062.798297.30.019.01/08/20153.72220.8112.24.182310.10.00.02/08/20155.97415.7415.815.408289.90.00.03/08/20155.97415.7415.815.408289.9 <t< td=""><td>17/07/2015</td><td>3.143</td><td>13.08</td><td>12.89</td><td>4.756</td><td>292.2</td><td>1.8</td><td>12.6</td></t<>	17/07/2015	3.143	13.08	12.89	4.756	292.2	1.8	12.6	
19/07/20151.17412.155.161.346181.40.012.820/07/20154.28215.787.352.313193.10.012.821/07/20153.32913.895.051.376208.50.213.022/07/20151.20114.714.361.273186.20.013.023/07/20156.5212.683.841.255235.62.815.824/07/20158.8616.4310.342.191244.73.018.825/07/20157.64418.04154.89295.40.219.026/07/20154.90718.1816.574.8284.20.019.027/07/20152.15513.1312.194.0492830.019.028/07/2015-1.09713.865.382.422254.30.019.030/07/2015-2.83715.534.952.14231.20.019.031/07/20155.81518.549.062.798297.30.019.01/08/20153.72220.8112.24.182310.10.00.02/08/20159.3723.7819.045.159310.300.04/08/20153.24512.4711.773.776267.70.00.0	18/07/2015	1.852	12.87	6.79	1.975	200.5	0.2	12.8	
20/07/20154.28215.787.352.313193.10.012.821/07/20153.32913.895.051.376208.50.213.022/07/20151.20114.714.361.273186.20.013.023/07/20156.5212.683.841.255235.62.815.824/07/20158.8616.4310.342.191244.73.018.825/07/20157.64418.04154.89295.40.219.026/07/20154.90718.1816.574.8284.20.019.027/07/20152.15513.1312.194.0492830.019.028/07/2015-1.09713.865.382.422254.30.019.029/07/2015-2.83715.534.952.14231.20.019.030/07/2015-1.37817.71120.92.962284.10.019.031/07/20155.81518.549.062.798297.30.019.01/08/20153.72220.8112.24.182310.10.00.02/08/20159.3723.7819.045.159310.300.03/08/20155.97415.7415.815.408289.90.00.04/08/20153.24512.4711.773.776267.70.00.0	19/07/2015	1.174	12.15	5.16	1.346	181.4	0.0	12.8	
21/07/20153.32913.895.051.376208.50.213.022/07/20151.20114.714.361.273186.20.013.023/07/20156.5212.683.841.255235.62.815.824/07/20158.8616.4310.342.191244.73.018.825/07/20157.64418.04154.89295.40.219.026/07/20154.90718.1816.574.8284.20.019.027/07/20152.15513.1312.194.0492830.019.028/07/2015-1.09713.865.382.422254.30.019.029/07/2015-2.83715.534.952.14231.20.019.030/07/2015-1.37817.71120.92.962284.10.019.031/07/20155.81518.549.062.798297.30.019.01/08/20153.72220.8112.24.182310.10.00.02/08/20159.3723.7819.045.15931.0300.03/08/20155.97415.7415.815.408289.90.00.0	20/07/2015	4.282	15.78	7.35	2.313	193.1	0.0	12.8	
22/07/20151.20114.714.361.273186.20.013.023/07/20156.5212.683.841.255235.62.815.824/07/20158.8616.4310.342.191244.73.018.825/07/20157.64418.04154.89295.40.219.026/07/20154.90718.1816.574.8284.20.019.027/07/20152.15513.1312.194.0492830.019.028/07/2015-1.09713.865.382.422254.30.019.029/07/2015-2.83715.534.952.14231.20.019.030/07/2015-1.37817.71120.92.962284.10.019.031/07/20155.81518.549.062.798297.30.019.01/08/20153.72220.8112.24.182310.10.00.02/08/20159.3723.7819.045.159310.300.03/08/20155.97415.7415.815.408289.90.00.0	21/07/2015	3.329	13.89	5.05	1.376	208.5	0.2	13.0	
23/07/20156.5212.683.841.255235.62.815.824/07/20158.8616.4310.342.191244.73.018.825/07/20157.64418.04154.89295.40.219.026/07/20154.90718.1816.574.8284.20.019.027/07/20152.15513.1312.194.0492830.019.028/07/2015-1.09713.865.382.422254.30.019.029/07/2015-2.83715.534.952.14231.20.019.030/07/2015-1.37817.71120.92.962284.10.019.031/07/20155.81518.549.062.798297.30.019.01/08/20153.72220.8112.24.182310.10.00.02/08/20159.3723.7819.045.159310.300.03/08/20155.97415.7415.815.408289.90.00.04/08/20153.24512.4711.773.776267.70.00.0	22/07/2015	1.201	14.71	4.36	1.273	186.2	0.0	13.0	
24/07/20158.8616.4310.342.191244.73.018.825/07/20157.64418.04154.89295.40.219.026/07/20154.90718.1816.574.8284.20.019.027/07/20152.15513.1312.194.0492830.019.028/07/2015-1.09713.865.382.422254.30.019.029/07/2015-2.83715.534.952.14231.20.019.030/07/2015-1.37817.71120.92.962284.10.019.031/07/20155.81518.549.062.798297.30.019.01/08/20153.72220.8112.24.182310.10.00.02/08/20159.3723.7819.045.159310.300.03/08/20155.97415.7415.815.408289.90.00.04/08/20153.24512.4711.773.776267.70.00.0	23/07/2015	6.52	12.68	3.84	1.255	235.6	2.8	15.8	
25/07/20157.64418.04154.89295.40.219.026/07/20154.90718.1816.574.8284.20.019.027/07/20152.15513.1312.194.0492830.019.028/07/2015-1.09713.865.382.422254.30.019.029/07/2015-2.83715.534.952.14231.20.019.030/07/2015-1.37817.71120.92.962284.10.019.031/07/20155.81518.549.062.798297.30.019.01/08/20153.72220.8112.24.182310.10.00.02/08/20159.3723.7819.045.159310.300.03/08/20155.97415.7415.815.408289.90.00.04/08/20153.24512.4711.773.776267.70.00.0	24/07/2015	8.86	16.43	10.34	2.191	244.7	3.0	18.8	
26/07/20154.90718.1816.574.8284.20.019.027/07/20152.15513.1312.194.0492830.019.028/07/2015-1.09713.865.382.422254.30.019.029/07/2015-2.83715.534.952.14231.20.019.030/07/2015-1.37817.71120.92.962284.10.019.031/07/20155.81518.549.062.798297.30.019.01/08/20153.72220.8112.24.182310.10.00.02/08/20159.3723.7819.045.159310.300.03/08/20155.97415.7415.815.408289.90.00.04/08/20153.24512.4711.773.776267.70.00.0	25/07/2015	7.644	18.04	15	4.89	295.4	0.2	19.0	
27/07/20152.15513.1312.194.0492830.019.028/07/2015-1.09713.865.382.422254.30.019.029/07/2015-2.83715.534.952.14231.20.019.030/07/2015-1.37817.71120.92.962284.10.019.031/07/20155.81518.549.062.798297.30.019.01/08/20153.72220.8112.24.182310.10.00.02/08/20159.3723.7819.045.159310.300.03/08/20155.97415.7415.815.408289.90.00.04/08/20153.24512.4711.773.776267.70.00.0	26/07/2015	4.907	18.18	16.57	4.8	284.2	0.0	19.0	
28/07/2015-1.09713.865.382.422254.30.019.029/07/2015-2.83715.534.952.14231.20.019.030/07/2015-1.37817.71120.92.962284.10.019.031/07/20155.81518.549.062.798297.30.019.01/08/20153.72220.8112.24.182310.10.00.02/08/20159.3723.7819.045.159310.300.03/08/20155.97415.7415.815.408289.90.00.04/08/20153.24512.4711.773.776267.70.00.0	27/07/2015	2.155	13.13	12.19	4.049	283	0.0	19.0	
29/07/2015-2.83715.534.952.14231.20.019.030/07/2015-1.37817.71120.92.962284.10.019.031/07/20155.81518.549.062.798297.30.019.01/08/20153.72220.8112.24.182310.10.00.02/08/20159.3723.7819.045.159310.300.03/08/20155.97415.7415.815.408289.90.00.04/08/20153.24512.4711.773.776267.70.00.0	28/07/2015	-1.097	13.86	5.38	2.422	254.3	0.0	19.0	
30/07/2015-1.37817.71120.92.962284.10.019.031/07/20155.81518.549.062.798297.30.019.01/08/20153.72220.8112.24.182310.10.00.02/08/20159.3723.7819.045.159310.300.03/08/20155.97415.7415.815.408289.90.00.04/08/20153.24512.4711.773.776267.70.00.0	29/07/2015	-2.837	15.53	4.95	2.14	231.2	0.0	19.0	
31/07/20155.81518.549.062.798297.30.019.01/08/20153.72220.8112.24.182310.10.00.02/08/20159.3723.7819.045.159310.300.03/08/20155.97415.7415.815.408289.90.00.04/08/20153.24512.4711.773.776267.70.00.0	30/07/2015	-1.378	17.71	120.9	2.962	284.1	0.0	19.0	
1/08/20153.72220.8112.24.182310.10.00.02/08/20159.3723.7819.045.159310.300.03/08/20155.97415.7415.815.408289.90.00.04/08/20153.24512.4711.773.776267.70.00.0	31/07/2015	5.815	18.54	9.06	2.798	297.3	0.0	19.0	
2/08/20159.3723.7819.045.159310.300.03/08/20155.97415.7415.815.408289.90.00.04/08/20153.24512.4711.773.776267.70.00.0	1/08/2015	3.722	20.81	12.2	4.182	310.1	0.0	0.0	
3/08/2015 5.974 15.74 15.81 5.408 289.9 0.0 0.0 4/08/2015 3.245 12.47 11.77 3.776 267.7 0.0 0.0	2/08/2015	9.37	23.78	19.04	5.159	310.3	0	0.0	
4/08/2015 3.245 12.47 11.77 3.776 267.7 0.0 0.0	3/08/2015	5.974	15.74	15.81	5.408	289.9	0.0	0.0	
	4/08/2015	3.245	12.47	11.77	3.776	267.7	0.0	0.0	

Mount Pleasant Meteorological Monitoring Data 2015								
Date	Tempera	ature (°C)	Wind Spee	ed (m/s)	Wind Direction (Deg)	Rainfall	Cumulative Rainfall	
	Minimum	Maximum	Maximum	Average	Average	(mm)	(mm)	
5/08/2015	1.243	12.94	14.66	5.739	305.4	0.0	0.0	
6/08/2015	2.7	14.36	9.88	3.224	280.4	0.0	0.0	
7/08/2015	-0.826	15.17	5.2	2.241	261.3	0.0	0.0	
8/08/2015	1.243	15.1	8.73	2.847	222.3	0.0	0.0	
9/08/2015	-1.106	16.98	4.55	1.836	245	0.0	0.0	
10/08/2015	0.383	18.89	13.83	3.892	295.6	0.0	0.0	
11/08/2015	4.443	20.27	13.74	4.88	280.6	0.0	0.0	
12/08/2015	-0.937	18.32	19.54	5.345	299.6	0.8	0.8	
13/08/2015	5.508	15.81	15.46	5.63	301.4	0.4	1.2	
14/08/2015	2.403	16.3	10.61	3.046	290.2	0.2	1.4	
15/08/2015	0.36	18.07	11.23	3.175	220.2	0.4	1.8	
16/08/2015	1.742	18.89	4.25	1.892	251.4	0.2	2.0	
17/08/2015	4.418	17.59	13.92	4.18	294.2	0.0	2.0	
18/08/2015	2.465	16.74	10.56			0.0	2.0	
19/08/2015	-1.065	17.77	5.07	1.991	218.7	0.0	2.0	
20/08/2015	1.077	19.65	5.48	1.941	235.3	0.0	2.0	
21/08/2015	1.507	22.86	8.72			0.0	2.0	
22/08/2015	8.72	25.17	12.11	3.999	290.1	0.0	2.0	
23/08/2015	10.44	18.06	127.3	2.466	227.1	38.6	40.6	
24/08/2015	11.32	17.17	115.9	3.169	190.1	16.6	57.2	
25/08/2015	10.28	16.7	12.98	4.961	296	0.0	57.2	
26/08/2015	9.55	17.37	13.4	4.365	313.9	0.0	57.2	
27/08/2015	5.674	15.31	8.61	3.235	295.1	0.8	58.0	
28/08/2015	5.44	16.71	123	3.781	288.3	0.0	58.0	
29/08/2015	2.428	17.49	12.61	3.539	280.1	0	58.0	
30/08/2015	2.673	15.96	121.1	1.608	209.2	0.0	58.0	
31/08/2015	3.447	18.01	11.15	3.095	268.9	0.0	58.0	
1/09/2015	3.517	17.38	122	3.527	281.7	0.0	0.0	
2/09/2015	2.464	19.94	5.7	2.251	223.7	1	1.0	
3/09/2015	7.099	16.45	126.9	4.649	279.1	6.8	7.8	
4/09/2015	6.485	14.65	4.4	1.187	179.6	0	7.8	
5/09/2015	5.601	19.89	7.86	1.915	223.2	0.0	7.8	
6/09/2015	6.647	17.02	4.87	1.634	181.1	0.0	7.8	
7/09/2015	2.832	22.15	12.15	3.273	277.8	0.2	8.0	
8/09/2015	4.4	17.04	12.75	4.414	295.4	0.0	8.0	
9/09/2015	5.918	19.29	121.3	2.794	239.2	0	8.0	
10/09/2015	2.766	18.62	8.54	2.89	198.9	0.0	8.0	
11/09/2015	1.189	20.6	4.96	1.811	221	0	8.0	
12/09/2015	4.997	23.98	7.89	2.296	262.4	0.0	8.0	
13/09/2015	5.644	23.37	4.77	1.543	222.8	0.0	8.0	
14/09/2015	5.883	24.42	5.93	1.707	233.1	0.0	8.0	
15/09/2015	8.83	25.78	15.89	5.163	290.8	0.0	8.0	
16/09/2015	7.838	24.02	8.19	2.352	196.3	0	8.0	
17/09/2015	4.997	21.01	13.76	2.822	218.5	0.0	8.0	
18/09/2015	8.52	17.74	11.31			4.8	12.8	
19/09/2015	9.27	19.28	11.55	4.085	160.8	0.6	13.4	
20/09/2015	10.53	20.03	8.7	3.69	164	0	13.4	
21/09/2015	8.72	21.9	126.2		-	3.6	17.0	
22/09/2015	8.54	21.1	13.16	4.06	238.4	0.6	17.6	
23/09/2015	6.282	16.69	13.78	3.973	164.1	0	17.6	
24/09/2015	-0.486	16.72	123.2	2.95	186.1	1.8	19.4	
25/09/2015	7.099	16.92	14.09	3.576	163.2	3.2	22.6	
26/09/2015	7.848	17.44	8.77	2.702	155.8	0	22.6	
27/09/2015	7.133	19.87	124.9	2.217	158.1	0	22.6	
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Mount Pleasant Meteorological Monitoring Data 2015								
Date	Tempera	Temperature (°C)		ed (m/s)	Wind Direction (Deg)	Rainfall	Cumulative Rainfall	
	Minimum	Maximum	Maximum	Average	Average	(mm)	(mm)	
28/09/2015	3.854	21.79	6.41	2.134	206	0.0	22.6	
29/09/2015	3.654	24.81	119.6	2.362	255	0	22.6	
30/09/2015	8.01	27.63	12.36	3.509	236.5	0	22.6	
1/10/2015	10.72	28.52	7.73	2.186	209.4	0.0	0.0	
2/10/2015	6.613	25.61	9.97	3.058	193.1	0	0.0	
3/10/2015	8.04	31.12	8.12	2.569	284.8	0.0	0.0	
4/10/2015						0.0	0.0	
5/10/2015	10.3	35.09	12.42	3.245	280.9	0	0.0	
6/10/2015	11.59	34.96	8.78	3.435	271.6	0.0	0.0	
7/10/2015	12.28	26.69	17.47	5.985	208.1	0	0.0	
8/10/2015	12.11	21.72	14.87	6.35	153	0.0	0.0	
9/10/2015	8.35	25.43	7.12	2.448	176.1	0.0	0.0	
10/10/2015	7.804	28.62	12.91	2.378	218.6	0.0	0.0	
11/10/2015	10.28	28.17	12.45	2.618	234.6	0.0	0.0	
12/10/2015	11.09	31.46	130.5	3.878	268.1	0.0	0.0	
13/10/2015	15.26	27.06	13.93	4.749	158	0.6	0.6	
14/10/2015	14.34	27.29	12.03	4.597	153.7	0.0	0.6	
15/10/2015						0.0	0.6	
16/10/2015	18.73	32.55				0.4	1.0	
17/10/2015	14.18	34.03				0.0	1.0	
18/10/2015	16.13	23.74				0.8	1.8	
19/10/2015	14.48	29.6				0.0	1.8	
20/10/2015	12.79	32.68				0	1.8	
21/10/2015	14.64	33.27				9	10.8	
22/10/2015	14.78	22.33				12	22.8	
23/10/2015	11.56	20.47	9.68	4.365	150.9	0	22.8	
24/10/2015	7.031	25.9	5.68	2.135	182.3	0.0	22.8	
25/10/2015	8.62	29.97	16.77	2.38	213.1	1.0	23.8	
26/10/2015	13.91	31.81	125.4	4.697	240.1	4.2	28.0	
27/10/2015	10.83	18.11	128.3	5.5	154.8	4.0	32.0	
28/10/2015	8.05	22.86	11.02	4.27	161.2	0.2	32.2	
29/10/2015	6.929	24.61	12.96	3.639	178.2	0.0	32.2	
30/10/2015	6.69	25.92	8.18	2.68	183.7	0.0	32.2	
31/10/2015	10.92	21.77	6.39	1.745	192.4	8.2	40.4	
1/11/2015	14.21	28.79	11.04	2.626	270.4	0.2	0.2	
2/11/2015	16.13	28.72	129.9	3.88	239.2	7.6	7.8	
3/11/2015	15.96	21.94	11.07	5.9	159.5	0.0	7.8	
4/11/2015	15.15	21.56	10.86	4.052	169.7	4.0	11.8	
5/11/2015	14.45	25.7	9.17	3.721	173.7	4.0	15.8	
6/11/2015	15.52	29.36	127.5	0	0	6.8	22.6	
7/11/2015	14.85	28.68	16.39	3.13	194.4	0.0	22.6	
8/11/2015	12.31	19.85	15.18	6.216	157.5	0.2	22.8	
9/11/2015	12.38	24.48	10.48	3.97	161.3	0.0	22.8	
10/11/2015	9.37	28.79	8.7	2.525	181.3	0.0	22.8	
11/11/2015	13.87	27.32	13.26	5.506	157.2	0.0	22.8	
12/11/2015	11.63	28.42	125.3	2.575	171.8	28.0	50.8	
13/11/2015	14.05	27.25	127.6	3.511	216.1	23.6	74.4	
14/11/2015	13.56	20.55	12.41	5.023	163.4	0.0	74.4	
15/11/2015	11.46	19.67	14.41	5.162	160.5	3.4	77.8	
16/11/2015	9.95	23.7	10.89	3.799	164.1	0.0	77.8	
17/11/2015	7.534	26.21	6.3	1.914	185.1	0.0	77.8	
18/11/2015	12.24	32.76	13.29			0.0	77.8	
19/11/2015	16.27	35.92	8.08	3.309	253.5	0.0	77.8	
20/11/2015	18.19	37.63	12.81	4.241	307.7	0.0	77.8	

Mount Pleasant Meteorological Monitoring Data 2015									
Date	Tempera	ature (°C)	Wind Spee	ed (m/s)	Wind Direction (Deg)	Rainfall	Cumulative Rainfall		
	Minimum	Maximum	Maximum	Average	Average	(mm)	(mm)		
21/11/2015	16.1	27.99	16.85			0.0	77.8		
22/11/2015	15.01	24.8	12.39	5.488	157.2	0.0	77.8		
23/11/2015	10.92	31.2	13.39	3.992	229.6	0.0	77.8		
24/11/2015	15.12	29.67	8.12	2.95	154.8	0.0	77.8		
25/11/2015	12.31	34.92	12.48	3.06	264.7	0.0	77.8		
26/11/2015	17.55	39.17	23.62	7.741	297.4	0.0	77.8		
27/11/2015	14.64	25.42	15.69	5.657	156.7	0.0	77.8		
28/11/2015	13.3	27.36	15.32	4.723	170.1	0.0	77.8		
29/11/2015	14.99	33.29	11.65	2.849	218	0.0	77.8		
30/11/2015	11.96	35.03	12.89	2.822	241.5	0.0	77.8		
1/12/2015	11.43	36.84	16.65	4.117	246.6	0.0	0.0		
2/12/2015	14.6	32.63	18.33	6.284	230.9	0.0	0.0		
3/12/2015	12.14	23.99	15.53	6.081	140.6	0.0	0.0		
4/12/2015	10.56	26.44	13.89	5.147	161.5	0.0	0.0		
5/12/2015	9.63	30.28	9.87	2.79	156.2	0.0	0.0		
6/12/2015	10.78	32.76	11.18	3.531	180.1	0.0	0.0		
7/12/2015	13.45	32.12	13.82	5.52	160.8	0.0	0.0		
8/12/2015	15.05	34.43	10.9	2.91	185.7	0.0	0.0		
9/12/2015	19.89	33.68	13.56	4.044	200.8	0.8	0.8		
10/12/2015	18.76	34.08	12.89	3.498	212.7	0.0	0.8		
11/12/2015	17.88	37.52	22.49	6.118	288.8	0.0	0.8		
12/12/2015	15.89	29.73	15.64	4.625	161.8	0.0	0.8		
13/12/2015	14.31	30.84	10.61	3.164	170.5	0.0	0.8		
14/12/2015	12.91	35.91	13.1	3.836	228.4	0.0	0.8		
15/12/2015	15.69	37.46	217.9	3.449	179	0.8	1.6		
16/12/2015	14.75	27.54	130	3.746	172.4	13.8	15.4		
17/12/2015	14.38	29.44	11.36	0	0	0.2	15.6		
18/12/2015	14.3	33.97	9.85			0.0	15.6		
19/12/2015	16.2	35.99	11.61	2.806	192	0.0	15.6		
20/12/2015	15.48	37.25	13.04	4.271	273.5	0.0	15.6		
21/12/2015	18.02	36.47	22.36			15.0	30.6		
22/12/2015	14.78	19.27	129.1	6.019	165.6	29.0	59.6		
23/12/2015	13.87	20.7	11.66	5.381	161.9	15.0	74.6		
24/12/2015	15.05	24.37	13.58	5.502	147.8	0.0	74.6		
25/12/2015	14.21	27.9	13.97	5.401	159.9	0.0	74.6		
26/12/2015	15.56	32.42	14.73	2.638	174.2	2.4	77.0		
27/12/2015	13.74	21.45	13.23	4.634	171.8	0.4	77.4		
28/12/2015	12.31	23.19	17.55	5.97	156.8	0.0	77.4		
29/12/2015	11.53	24.63	13.18	4.205	158.1	0.0	77.4		
30/12/2015	8.66	27.52	12.04	3.733	184.4	0.0	77.4		
31/12/2015	11.12	28.23	12.3	4.342	176.9	0.0	77.4		

Mount Pleasant Groundwater Monitoring Results 2015									
Sample Location	Sample Date	Depth to Ground (metres)	Depth to Standpipe (metres)	Electrical Conductivity (μS/cm)	рН	Comments			
3500B500L	4/02/2015	65.93	66.35	5600	7.3				
3500B500L	15/05/2015	66.41	67.37	5600	7.3				
3500B500L	1/09/2015	66.46	67.42	5650	7.4				
3500B500L	5/11/2015	66.59	67.55	5740	7.3				
3500B500 (S)	4/02/2015	18.45	18.97	2590	9				
3500B500 (S)	15/05/2015	18.67	19.63	2490	9.1				
3500B500 (S)	1/09/2015	17.56	18.52	2760	9.9				
3500B500 (S)	5/11/2015	18.05	19.01	3530	9.0				
3500C500 (L)	4/02/2015	53.12	53.4	4160	7.4				
3500C500 (L)	15/05/2015	51.94	52.82	4470	7.2				
3500C500 (L)	31/08/2015	52.45	53.33	4560	7.3				
3500C500 (L)	5/11/2015	52.88	53.76	4670	7.0				
3500C500 (S)	4/02/2015	24.24	24.52	8710	7.2	SS			
3500C500 (S)	15/05/2015	24.42	25.3	9320	7.1				
3500C500 (S)	31/08/2015	24.41	25.29	8400	7.2				
3500C500 (S)	5/11/2015	24.47	25.35	7780	7.1				
4500F000	4/02/2015	20.54	21.13	4840	6.9				
4500F000	27/05/2015	17.21	18.16	9600	6.9				
4500F000	31/08/2015	16.15	17.1	6840	7				
4500F000	5/11/2015	17.56	18.51	6920	6.9				
5000D000 (S)	4/02/2015	81.48	81.71	663	7				
5000D000 (S)	15/05/2015	81.59	82.48	619	7.1				
5000D000 (S)	31/08/2015	81.6	82.49	652	7				
5000D000 (S)	6/11/2015	81.66	82.55	618	6.6				
5500D000	4/02/2015	64.15	64.4	1537	6.8	SS			
5500D000	15/05/2015	64.14	65.1	1546	6.8				
5500D000	31/08/2015	64.18	65.14	1612	6.8				
5500D000	6/11/2015	64.22	65.18	1560	6.7				
6000C000 (L)	4/02/2015					dry			
6000C000 (L)	27/05/2015					dry			
6000C000 (L)	31/08/2015					dry			
6000C000 (L)	5/11/2015					dry			
6000C000 (S)	4/02/2015	38.09	38.47	4730	7				
6000C000 (S)	27/05/2015	37.99	39.02	4890	7.0				
6000C000 (S)	31/08/2015	38.07	39.1	4750	7.1				
6000C000 (S)	5/11/2015	38.17	39.20	4980	6.9				
6500F500L	4/02/2015	51.75	51.75	1170	6.3	ss, no cap			
6500F500L	28/05/2015	51.59	52.56	1250	6.6	new standpipe			
6500F500L	31/08/2015	51.86	52.83	1425	6.8				
6500F500L	5/11/2015	51.82	52.79	1406	6.7				
6500F500M	4/02/2015	53.13	53.13	1126	6	ss, no cap, checked pH			
6500F500M	28/05/2015	53.04	54.01	1783	7.0				
6500F500M	31/08/2015	53.25	54.22	2460	7.1				
6500F500M	5/11/2015	53.38	54.35	2280	6.9				
6500F500U	4/02/2015	29.56	29.56	5770	6.8	no cap			
6500F500U	28/05/2015	29.66	30.63	5420	7.0				
6500F500U	31/08/2015	29.98	30.95	5590	6.9				
6500F500U	5/11/2015	30.12	31.09	5880	6.7				
7500F000	4/02/2015	34.82	35.15	5820	7.5				
7500F000	27/05/2015	35.62	35.94	6230	8.0				
7500F000	31/08/2015	35.59	35.91	5960	7.6				
7500F000	5/11/2015	35.65	35.97	6060	7.4				
MPBH1 (Bore3)	4/02/2015	9.62	9.98	542	7				
MPBH1 (Bore3)	12/05/2015	9.44	9.8	503	7.2				
MPBH1 (Bore3)	31/08/2015	9.46	9.82	520	7.1				

Mount Pleasant Groundwater Monitoring Results 2015									
Sample Location	Sample Date	Depth to Ground (metres)	Depth to Standpipe (metres)	Electrical Conductivity (µS/cm)	рН	Comments			
MPBH1 (Bore3)	5/11/2015	9.74	10.1	507	6.8				
MPBH2	4/02/2015	12.14	12.57	878	7.1				
MPBH2	12/05/2015	12.05	12.48	903	6.9				
MPBH2	1/09/2015	12.04	12.47	913	7.1				
MPBH2	5/11/2015	12.09	12.52	897	6.6				
MPBH3 (Bore 2)	4/02/2015	12.03	12.36	4290	7.4				
MPBH3 (Bore 2)	12/05/2015	11 93	12.3	2850	7 5	pump not working			
MPBH3 (Bore 2)	31/08/2015	11.88	12 25	4180	7.6	parip not working			
MPBH3 (Bore 2)	5/11/2015	11.94	12.20	4150	7.4				
WRA1I	4/02/2015	2.88	3.23	3020	7.3				
WRA1I	26/05/2015	3 72	4 1	3530	7.0				
WRA1I	1/09/2015	3 74	4 12	3120	7.8				
WRA1L	6/11/2015	3.5	3.88	3180	7.7				
WRA1U	4/02/2015		0.00	0.00		drv			
WRA1U	26/05/2015					dry			
WRA1U	1/09/2015					drv			
WRA1U	6/11/2015					dry			
WRA2L	4/02/2015	16.25	16.82	5520	7.1				
WRA2L	26/05/2015	16.13	17.1	5690	7.1				
WRA2L	1/09/2015	17.08	18.05	5770	7.2				
WRA2L	6/11/2015	17.01	17.98	5820	7.1				
WRA2U	4/02/2015					drv			
WRA2U	27/05/2015					dry			
WRA2U	1/09/2015					dry			
WRA2U	6/11/2015					dry			
WRA3L	4/02/2015	16.46	16.98	15500	6.8				
WRA3L	27/05/2015	16.74	17.79	16360	6.8				
WRA3L	1/09/2015	16.8	17.85	15140	6.9				
WRA3L	6/11/2015	16.72	17.77	16500	6.6				
WRA3U	4/02/2015	4.31	4.84	7540	7.3				
WRA3U	27/05/2015	3.74	4.72	4090	7.3				
WRA3U	1/09/2015	3.96	4.94	2770	7.6				
WRA3U	6/11/2015	4.77	5.75	4330	7.3				
WRA5L	4/02/2015	3.14	3.79	3490	7.5	SS			
WRA5L	26/05/2015	3.25	3.93	4180	7.2				
WRA5L	1/09/2015	3.3	3.98	3550	7.7				
WRA5L	6/11/2015	3.39	4.07	3630	7.4				
WRA5U	4/02/2015	3.26	3.38	2700	7.3				
WRA5U	26/05/2015	3.39	4.45	2750	7.3	bore clogged			
WRA5U	1/09/2015	3.43	4.49	2720	7.4				
WRA5U	6/11/2015	3.51	4.57	2850	7.1				
WRA6L	4/02/2015	1.94	2.47	5730	7.2				
WRA6L	26/05/2015	1.91	2.44	6070	7.1				
WRA6L	1/09/2015	1.64	2.17	5830	7.7				
WRA6L	6/11/2015	2.09	2.62	6060	7.4				
WRA6U	4/02/2015	1.57	1.97	10870	6.8				
WRA6U	26/05/2015	1.91	2.9	10300	6.9				
WRA6U	1/09/2015	1.89	2.88	10730	6.9				
WRA6U	6/11/2015	2.17	3.16	11650	6.7				

Mount Pleasant Surface Water Monitoring Results 2015								
Station	Date	pH Field	EC Field (uS/cm)	TSS (mg/L)	Comment			
W1					No Access			
W1					No Access			
W1					No Access			
W1					No Access			
W1					No Access			
W1					No Access			
W1					No Access			
W1					No Access			
W1					No Access			
W1					No Access			
W1					No Access			
W1					No Access			
W2	16/01/2015	8	381	28.9				
W2	18/02/2015	7.7	365	24.4				
W2	18/03/2015	8	337	23.9				
W2	17/04/2015	8.2	324	22.3				
W2	15/05/2015	7.7	326	14.1	susp. Fines (brown)			
W2	16/06/2015	7.8	564	14				
W2	17/07/2015	7.8	454	9.9				
W2	14/08/2015	8.3	647	12.9				
W2	14/09/2015	8.2	624	18.6				
W2	14/10/2015	8.2	627	23.3				
W2	13/11/2015	8.2	663	24.9				
W2	15/12/2015	7.8	353	25.7				
W3					Site auto monitored			
W3					Site auto monitored			
W3					Site auto monitored			
W3					Site auto monitored			
W3					Site auto monitored			
W3					Site auto monitored			
W3					Site auto monitored			
W3					Site auto monitored			
W3					Site auto monitored			
W3					Site auto monitored			
W3					Site auto monitored			
W3					Site auto monitored			

Mount Pleasant Surface Water Monitoring Results 2015								
Station	Date	pH Field	EC Field (uS/cm)	TSS (mg/L)	Comment			
W4	16/01/2015	7.5	1381	6				
W4	18/02/2015	7.6	1442	5				
W4	18/03/2015	7.6	1740	7				
W4	17/04/2015	7.8	1519	1				
W4	15/05/2015	7.6	1043	2				
W4	16/06/2015	7.8	1521	9				
W4	17/07/2015	7.5	1676	4				
W4	14/08/2015	7.9	2100	5				
W4	14/09/2015	7.7	1549	5				
W4	14/10/2015	7.8	2190	6				
W4	13/11/2015	7.8	1525	3				
W4	15/12/2015	7.9	2170	7				
W5	16/01/2015				DRY			
W5	17/02/2015				DRY			
W5	18/03/2015				DRY			
W5	17/04/2015				DRY			
W5	15/05/2015				DRY			
W5	16/06/2015				DRY			
W5	17/07/2015				DRY			
W5	14/08/2015				DRY			
W5	14/09/2015				DRY			
W5	14/10/2015				DRY			
W5	13/11/2015				DRY			
W5	15/12/2015				DRY			
W6								
W6								
W6	18/03/2015				No Safe Access			
W6	17/04/2015				No Safe Access			
W6								
W6								
W6								
W6								
W6								
W6								
W6								
W6								
W7	16/01/2015				DRY			
W7	17/02/2015				DRY			
W7	18/03/2015				DRY			
W7	17/04/2015				DRY			
W7	15/05/2015				DRY			
W7	16/06/2015				DRY			
W7	17/07/2015				DRY			
W7	14/08/2015				DRY			
W7	14/09/2015				DRY			
W7	14/10/2015				DRY			
W7	13/11/2015				DRY			
W7	15/12/2015				DRY			

Mount Pleasant Surface Water Monitoring Results 2015								
Station	Date	pH Field	EC Field (uS/cm)	TSS (mg/L)	Comment			
W8	16/01/2015	7.3	280	100				
W8	17/02/2015				DRY			
W8	18/03/2015				DRY			
W8	17/04/2015				DRY			
W8	15/05/2015				DRY			
W8	16/06/2015				DRY			
W8	17/07/2015	6.9	318	181				
W8	14/08/2015				DRY			
W8	14/09/2015	7.3	369	133				
W8	14/10/2015				DRY			
W8	13/11/2015	7.4	238	2060	POOL			
W8	15/12/2015				DRY			
W9	16/01/2015				DRY			
W9	17/02/2015				DRY			
W9	18/03/2015				DRY			
W9	17/04/2015				DRY			
W9	15/05/2015	7.1	537	499				
W9	16/06/2015	7.4	330	85				
W9	17/07/2015	7	319	206				
W9	14/08/2015				Insufficient Water			
W9	14/09/2015	7.3	304	28				
W9	14/10/2015	6.8	504	712	POOL			
W9	13/11/2015	7.2	206	784	POOL			
W9	15/12/2015				DRY			
W10	16/01/2015	1030			DRY			
W10	17/02/2015	815			DRY			
W10	18/03/2015	805			DRY			
W10	17/04/2015	850			DRY			
W10	15/05/2015	840			DRY			
W10	16/06/2015	915			DRY			
W10	17/07/2015	810			DRY			
W10	14/08/2015	935			DRY			
W10	14/09/2015	1025			DRY			
W10	14/10/2015	900			DRY			
W10	13/11/2015	725			DRY			
W10	15/12/2015	740			DRY			

MOUNT PLEASANT PROJECT

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