



# Monthly Environmental Monitoring Report

Yancoal Hunter Valley Operations

November 2017

## CONTENTS

1.0	INTRODUCTION .....	4
2.0	AIR QUALITY.....	4
2.1	Meteorological Monitoring .....	4
2.1.1	Rainfall.....	4
2.1.2	Wind Speed and Direction .....	4
2.2	Depositional Dust .....	6
2.3	Suspended Particulates.....	6
2.3.1	HVAS PM <sub>10</sub> Results.....	6
2.3.2	TSP Results.....	7
2.3.3	Real Time PM <sub>10</sub> Results .....	7
2.3.4	Real Time Alarms for Air Quality.....	7
3.0	WATER QUALITY .....	8
3.1.1	Surface Water .....	8
3.1.2	Site Water Use.....	8
3.1.3	HRSTS Discharge.....	8
3.2.1	Groundwater Monitoring Results .....	8
4.0	BLASTING .....	9
4.1	Blast Monitoring Results.....	9
5.0	NOISE .....	12
5.1	Attended Noise Monitoring Results.....	12
6.0	OPERATIONAL DOWNTIME.....	17
7.0	REHABILITATION .....	17
8.0	COMPLAINTS.....	18
9.0	ENVIRONMENTAL INCIDENTS.....	18
	Appendix A: Meteorological Data.....	19

## Figures

Figure 1: Rainfall Summary 2017	4
Figure 2: HVO Corporate Wind Rose – November 2017	4
Figure 3: HVO Cheshunt Wind Rose – November 2017	4
Figure 4: Air Quality Monitoring Location Plan	5
Figure 5: Depositional Dust Results – November 2017	6
Figure 6: Individual PM <sub>10</sub> Results – November 2017	6
Figure 7: Year to Date Average PM <sub>10</sub> – November 2017	7
Figure 8: Year to Date Average Total Suspended Particulates – November 2017	7
Figure 9: Real Time PM <sub>10</sub> 24hr average and YTD average – November 2017	8
Figure 10: Moses Crossing Blast Monitoring Results – November 2017	9
Figure 11: Jerrys Plains Blast Monitoring Results – November 2017	9
Figure 12: Maison Dieu Blast Monitoring Results – November 2017	10
Figure 13: Warkworth Blast Monitoring Results – November 2017	10
Figure 14: Knodlers Lane Blast Monitoring Results – November 2017	10
Figure 15: Blast Monitoring Location Plan	11
Figure 16: Noise Monitoring Location Plan	16
Figure 17: Operational Downtime by Equipment Type – November 2017	17
Figure 18: Rehabilitation YTD - November 2017	17
Figure 19: Complaints Graph - November 2017	18

## Tables

Table 1: Monthly Rainfall HVO	4
Table 2: L <sub>Aeq, 15 minute</sub> HVO South - Impact Assessment Criteria – November 2017	12
Table 3: L <sub>Aeq, 15 minute</sub> HVO South - Land Acquisition Criteria – November 2017	12
Table 4: L <sub>A1, 1minute</sub> HVO South - Impact Assessment Criteria – November 2017	13
Table 5: L <sub>Aeq, 15minute</sub> HVO North – Impact Assessment Criteria – November 2017	13
Table 6: L <sub>Aeq, 15minute</sub> HVO North - Land Acquisition Criteria – November 2017	13
Table 7: L <sub>A1, 1Minute</sub> HVO North - Impact Assessment Criteria – November 2017	14
Table 8: Low Frequency Noise Assessment - November 2017	15
Table 9: Meteorological Data - HVO Corporate Meteorological Station – November 2017	20

## Revision History

Version No.	Person Responsible	Document Status	Date
1.0	Environmental Advisor	Draft	12/01/2018
1.1	Environmental Specialist	Final	15/01/2018

# 1.0 INTRODUCTION

This report has been compiled to provide a monthly summary of environmental monitoring results for Hunter Valley Operations (HVO). This report includes all monitoring data collected for the period 1<sup>st</sup> November to 30<sup>th</sup> November 2017.

# 2.0 AIR QUALITY

## 2.1 Meteorological Monitoring

HVO maintains two meteorological stations; ‘Corporate’ and ‘Cheshunt’ (Refer to Figure 4: Air Quality Monitoring Location Plan).

### 2.1.1 Rainfall

Rainfall for the period is summarised in Table 1, the 2017 trend and historical trend are shown in Figure 1

Table 1: Monthly Rainfall HVO

2017	Monthly Rainfall (mm)	Cumulative Rainfall (mm)
November	22.4	440.8

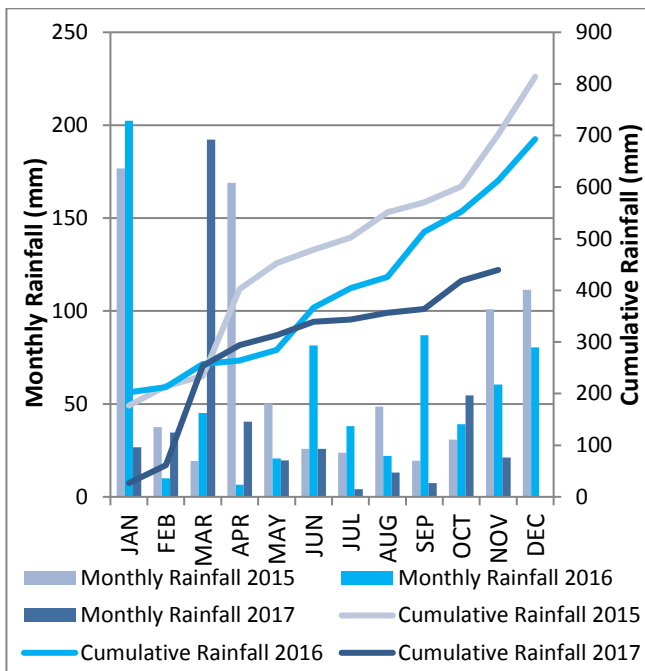


Figure 1: Rainfall Summary 2017

### 2.1.2 Wind Speed and Direction

South-easterly winds were dominant during November as shown in Figure 2 (HVO Corporate) and Figure 3 (HVO Cheshunt).

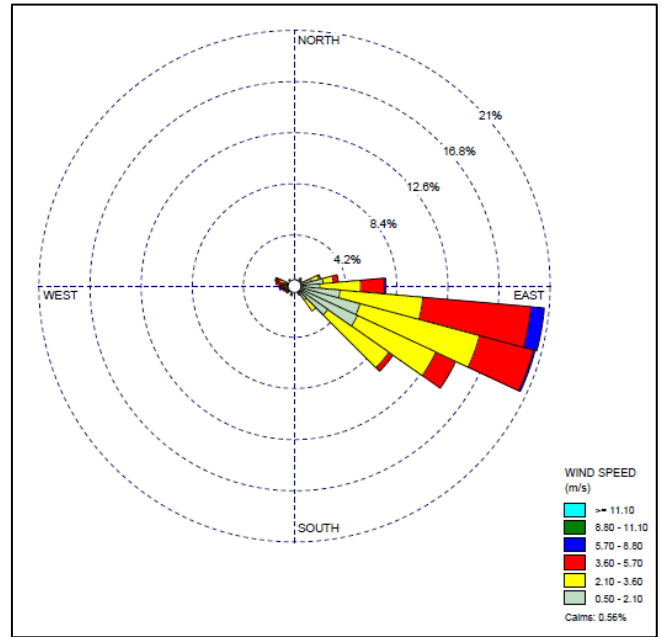


Figure 2: HVO Corporate Wind Rose – November 2017

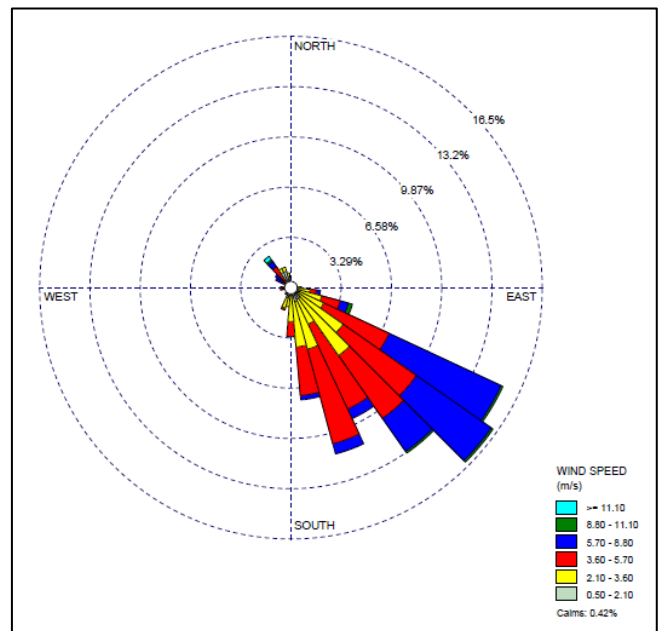


Figure 3: HVO Cheshunt Wind Rose – November 2017

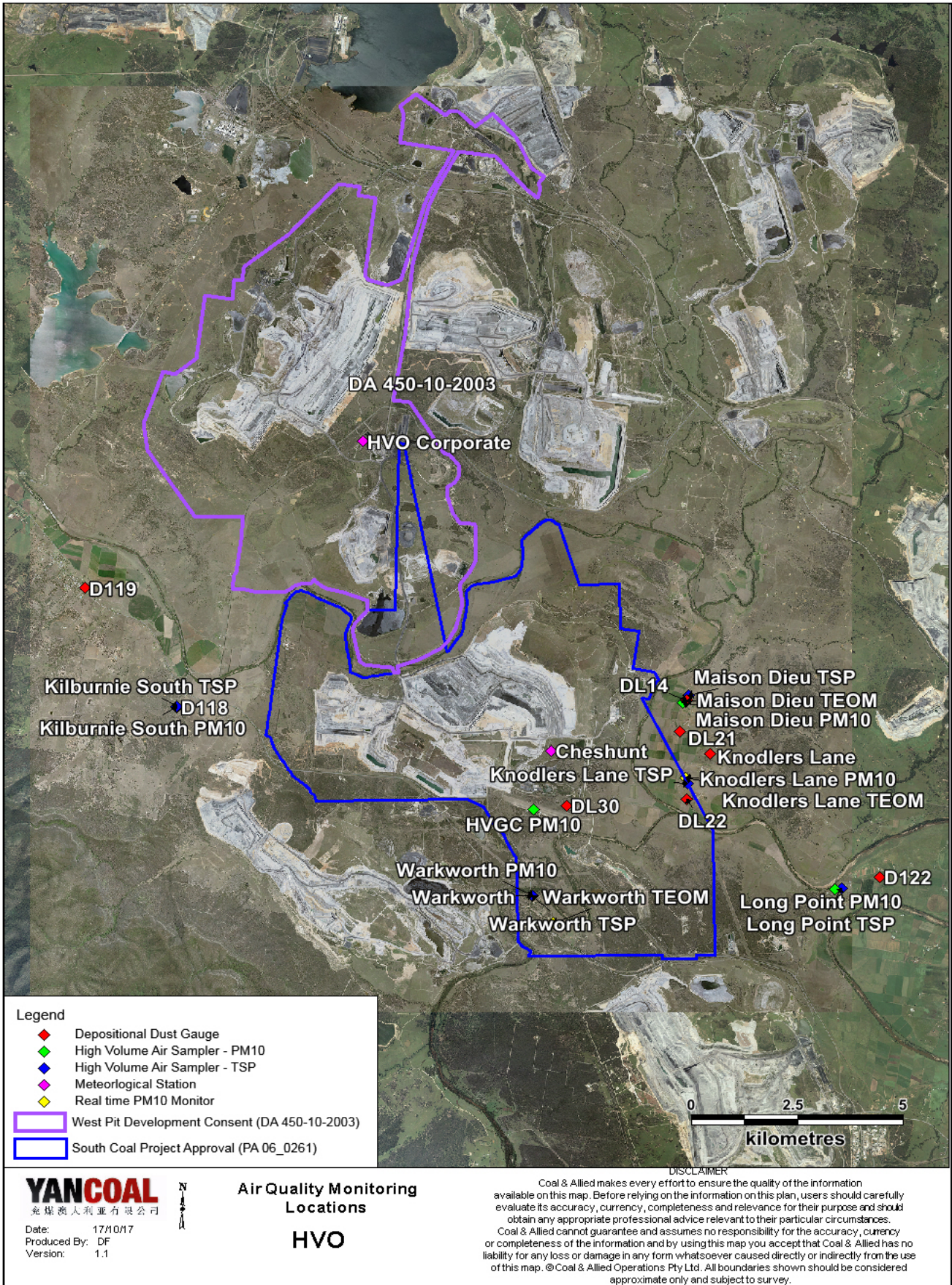


Figure 4: Air Quality Monitoring Location Plan

## 2.2 Depositional Dust

To monitor regional air quality, HVO operates and maintains a network of nine depositional dust gauges, situated on private and mine owned land surrounding HVO.

Figure 5 displays insoluble solids results from depositional dust gauges during the reporting period compared against the year-to-date average and the annual impact assessment criteria.

During the reporting period the DL30 monitor recorded a monthly result above the long term impact assessment criteria of 4.0 g/m<sup>2</sup> per month.

The field notes associated with the DL30 monitor result indicates no evidence to suggest that the result was contaminated. Accordingly, this result will be included in the annual average calculation.

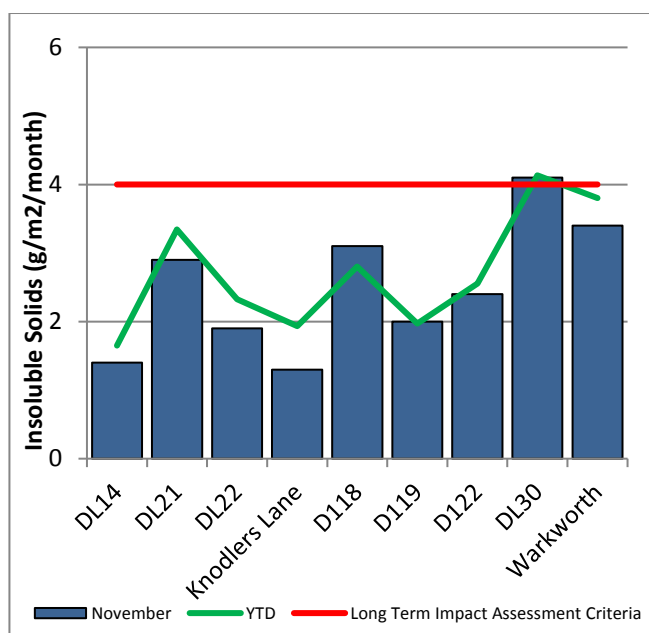


Figure 5: Depositional Dust Results – November 2017

## 2.3 Suspended Particulates

Suspended particulates are measured by a network of High Volume Air Samplers (HVAS) measuring Total Suspended Particulates (TSP) and Particulate Matter <10µm (PM<sub>10</sub>). The location of these monitors can be found in Figure 4. Each HVAS was run for 24 hours on a six-day cycle.

### 2.3.1 HVAS PM<sub>10</sub> Results

Figure 6 shows individual PM<sub>10</sub> results at each monitoring station against the short term impact assessment criteria of 50 µg/m<sup>3</sup>.

Data was not available on 26/11/2017 at the Maison Dieu HVAS due to a power outage resulting in an invalid sample.

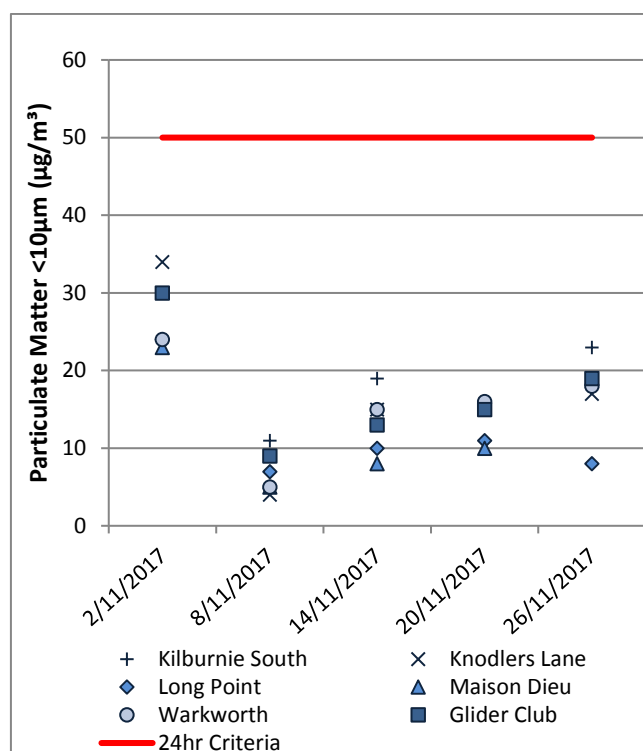


Figure 6: Individual PM<sub>10</sub> Results – November 2017

Figure 7 shows the year to date annual average PM<sub>10</sub> results.

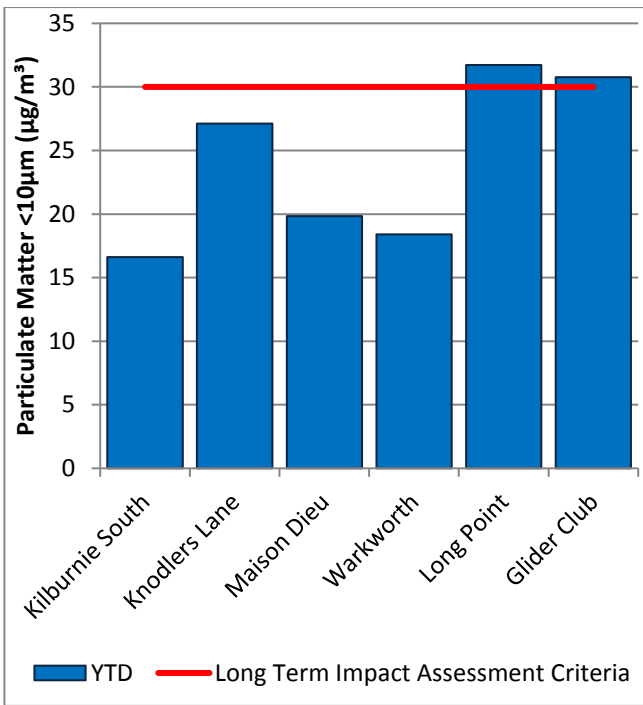


Figure 7: Year to Date Average PM<sub>10</sub> – November 2017

### 2.3.2 TSP Results

Figure 8 shows the annual average TSP results compared against the long term impact assessment criteria of 90µg/m<sup>3</sup>.

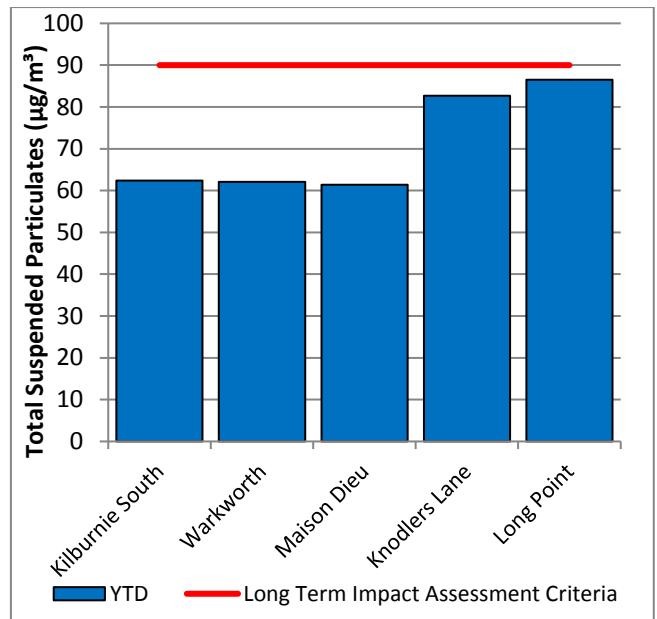


Figure 8: Year to Date Average Total Suspended Particulates – November 2017

### 2.3.3 Real Time PM<sub>10</sub> Results

Hunter Valley Operations maintains a network of real time PM<sub>10</sub> monitors. The real time air quality monitoring stations continuously log information and transmit data to a central database, generating alarms when particulate matter levels exceed internal trigger limits. Results from real time PM<sub>10</sub> monitoring are used as a reactive measure to guide mining operations to ensure compliance with the relevant conditions of the project approval.

Results for real time dust sampling is shown in Figure 9, including the daily 24 hour average PM<sub>10</sub> result and the year to date 24 hour PM<sub>10</sub> annual average.

### 2.3.4 Real Time Alarms for Air Quality

During November the real time monitoring system generated 49 automated air quality related alarms. 32 were related to adverse weather conditions and 17 alarms relating to PM<sub>10</sub>.

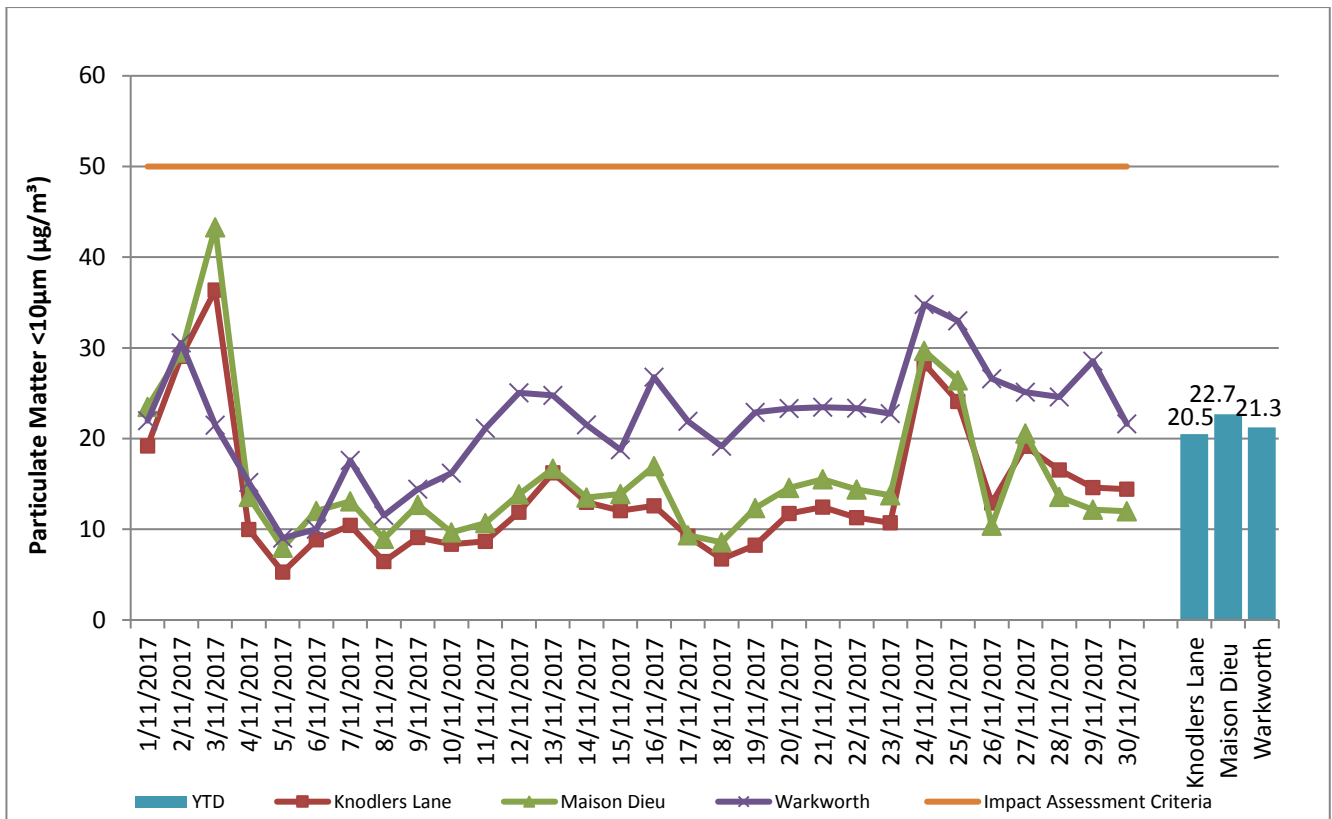


Figure 9: Real Time PM<sub>10</sub> 24hr average and YTD average – November 2017

### 3.0 WATER QUALITY

HVO maintains a network of surface water and groundwater monitoring sites.

#### 3.1.1 Surface Water

Surface water courses are sampled on a quarterly sampling regime. Water quality is evaluated through the parameters of pH, Electrical Conductivity (EC) and Total Suspended Solids (TSS).

Results of monitoring on Site Dams and the Hunter River as well as other natural tributaries are provided on a quarterly basis, results will appear in the December 2017 report.

#### 3.1.2 Site Water Use

Under water allocation licences issued by the NSW DPI Water, HVO is permitted to extract water from the Hunter River. During the reporting period, HVO did not extract any water from the Hunter River.

#### 3.1.3 HRSTS Discharge

HVO participates in the Hunter River Salinity Trading Scheme (HRSTS), allowing discharge from licensed discharge points Dam 11N (to Farrell’s Creek), Lake James (to the Hunter River) and Parnell’s Dam (to Parnell’s Creek). Discharges can only take place subject to HRSTS regulations.

During the reporting period no water was discharged under the HRSTS

#### 3.2.1 Groundwater Monitoring Results

Groundwater monitoring is undertaken on a quarterly basis in accordance with the HVO Water Management Plan and Ground Water Monitoring Programme. Results of groundwater monitoring are reported quarterly and as such will be reported in the December 2017 monthly report.

During the reporting period, HVO did not extract any water from the Hunter River.



## 4.0 BLASTING

HVO have a network of five blast monitoring units. These are located at nearby privately owned residences and function as regulatory compliance monitors. The location of these monitors can be found in Figure 15.

Blasting criteria are summarised in Table 2.

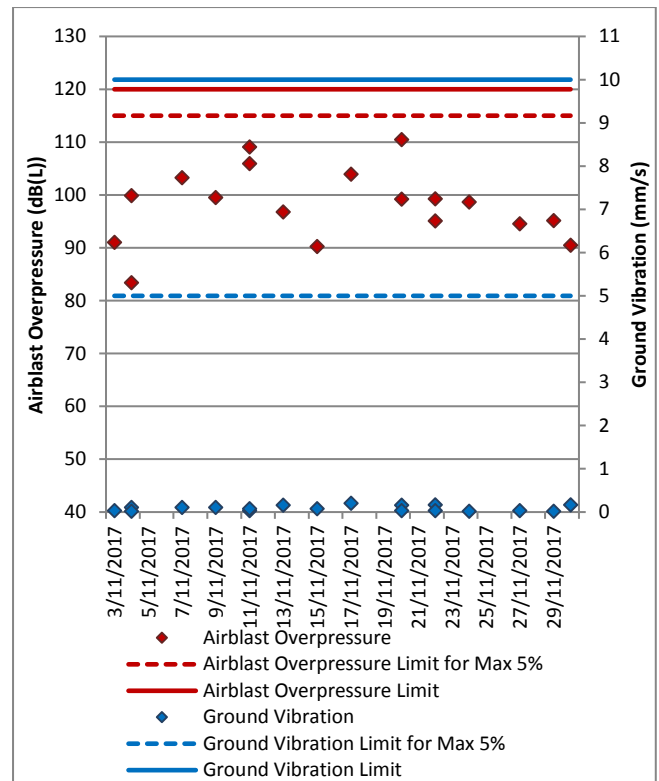
**Table 2: Blasting Limits**

Airblast Overpressure (dB(L))	Comments
115	5% of the total number of blasts in a 12 month period
120	0%
Ground Vibration (mm/s)	Comments
5	5% of the total number of blasts in a 12 month period
10	0%

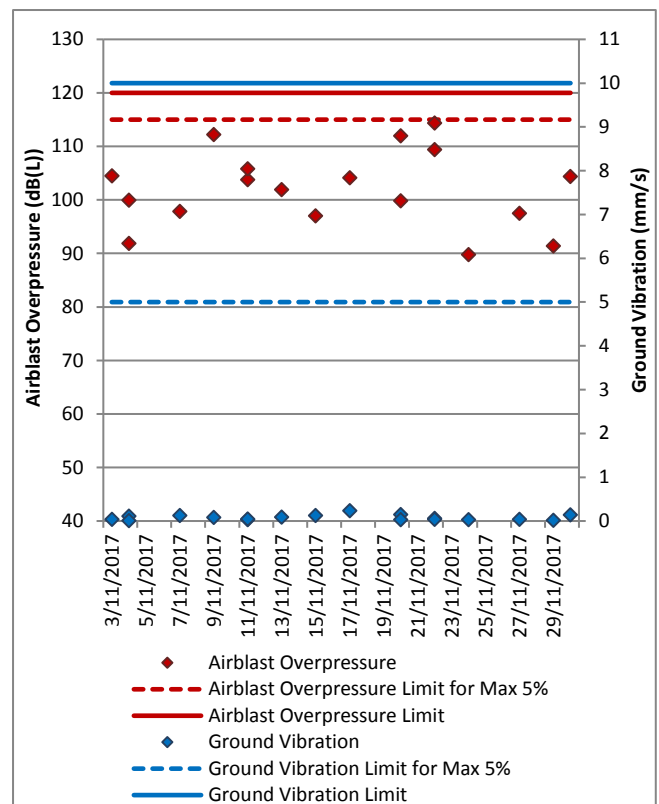
During the reporting period there were no exceedances of the airblast overpressure or ground vibration criteria.

### 4.1 Blast Monitoring Results

During November 18 blasts were initiated at HVO. Figure 10 through to Figure 14 show the blast monitoring results for the reporting period against the impact assessment criteria. The criteria are summarised in Table 2.



**Figure 10: Moses Crossing Blast Monitoring Results – November 2017**



**Figure 11: Jerrys Plains Blast Monitoring Results – November 2017**

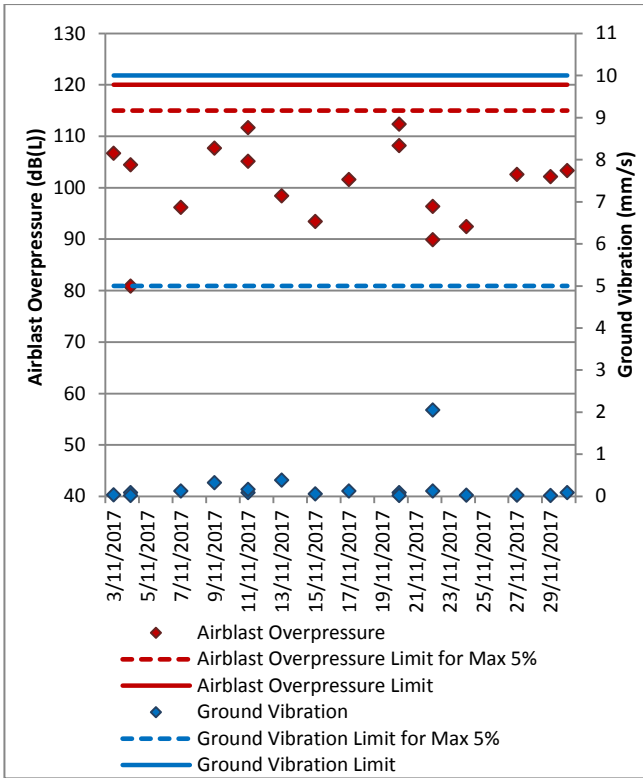


Figure 12: Maison Dieu Blast Monitoring Results – November 2017

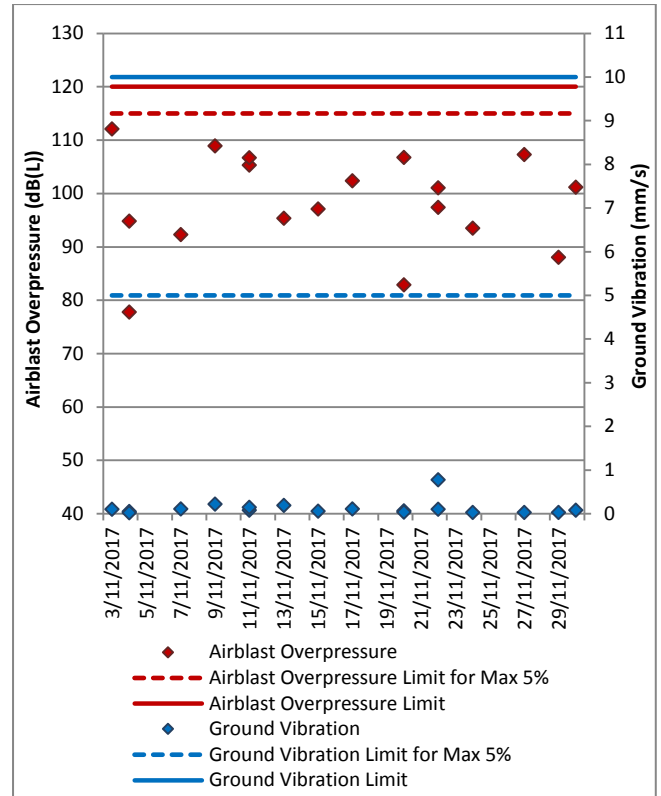


Figure 14: Knodlers Lane Blast Monitoring Results – November 2017

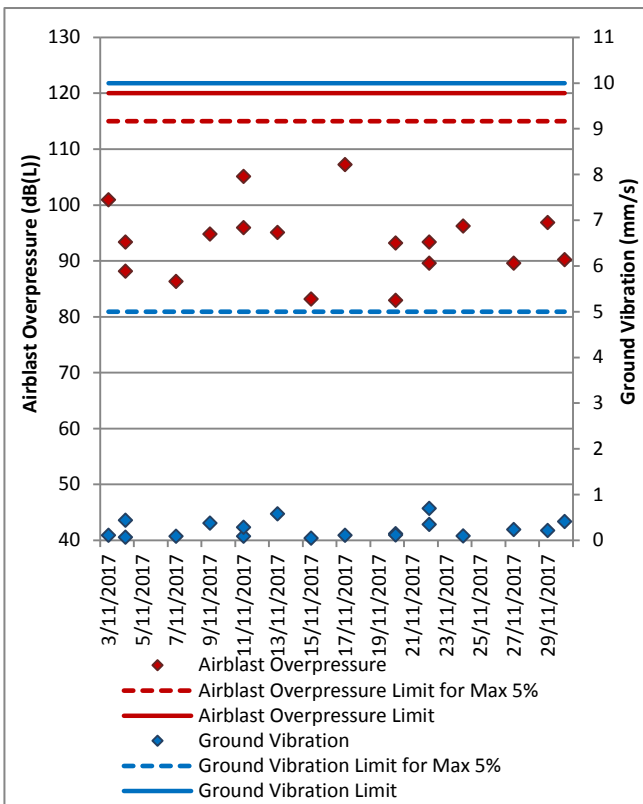


Figure 13: Warkworth Blast Monitoring Results – November 2017

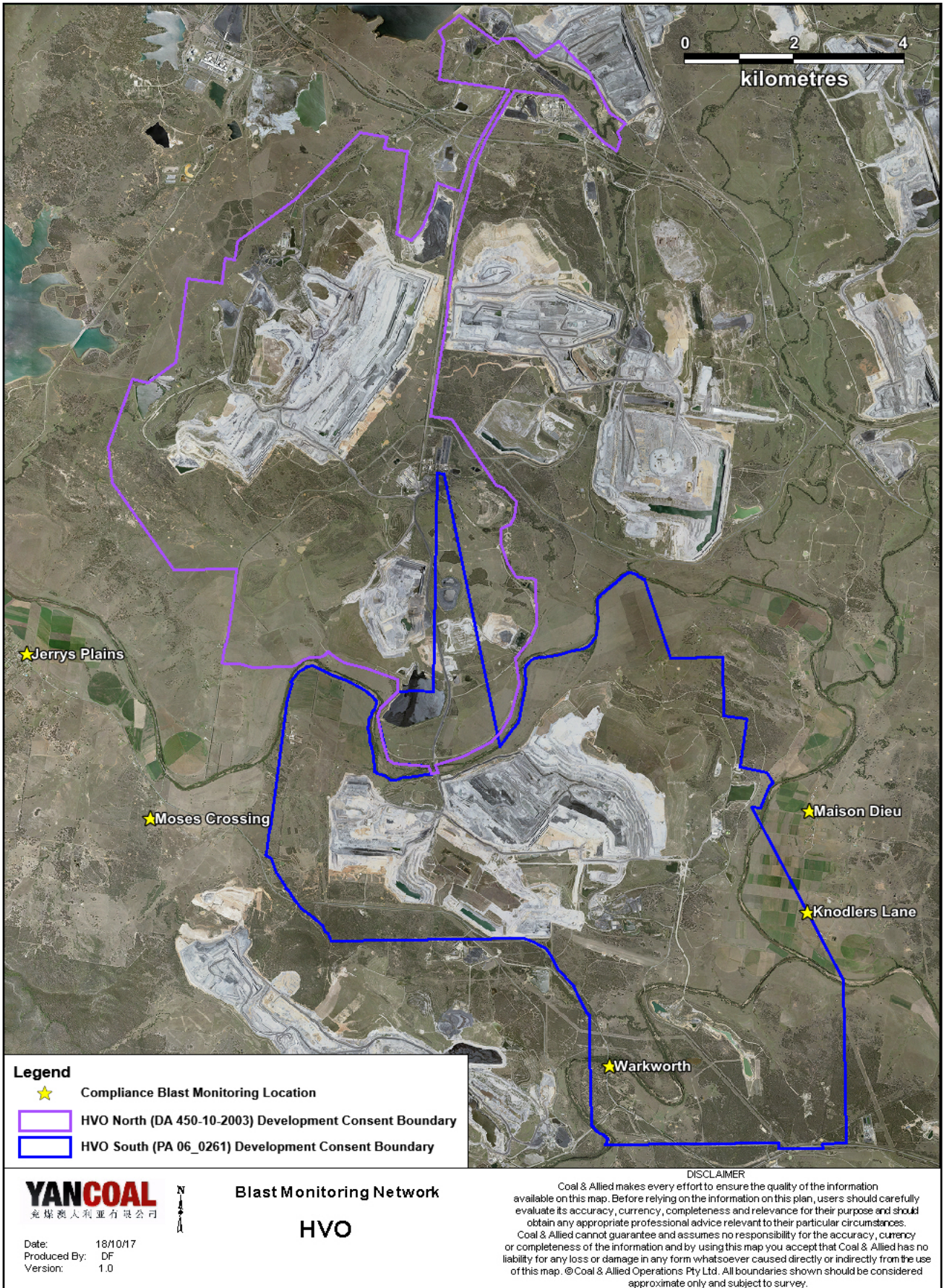


Figure 15: Blast Monitoring Location Plan

## 5.0 NOISE

Routine attended noise monitoring is carried out at defined locations around HVO as described in the HVO Noise Monitoring Programme. The purpose of the noise surveys is to quantify and describe the acoustic environment around the site and compare results with specified limits. Unattended monitoring (real time noise monitoring) also occurs at five sites surrounding HVO. The attended noise monitoring locations are displayed in Figure 16

### 5.1 Attended Noise Monitoring Results

Attended monitoring was conducted at receiver locations surrounding HVO on the night of 13-14 November 2017. Monitoring results are detailed in Table 3 to Table 8 .

**Table 2: L<sub>Aeq, 15 minute</sub> HVO South - Impact Assessment Criteria – November 2017**

Location	Date and Time	Wind Speed (m/s) <sup>5</sup>	VTG <sup>5</sup>	Criterion dB (A)	Criterion Applies? <sup>1,6</sup>	HVO South L <sub>Aeq</sub> dB <sup>2,4</sup>	Exceedance <sup>3</sup>
Knodlers Lane	14/11/2017 21:39	5.1	-1	37	No	IA	NA
Maison Dieu	14/11/2017 21:20	5.1	-1	37	No	IA	NA
Shearers Lane	14/11/2017 21:00	5.2	-1	41	No	IA	NA
Kilburnie South	14/11/2017 22:31	4.1	-1	36	No	<35	NA
Jerrys Plains Village	14/11/2017 21:33	4.7	-1	35	No	<25	NA
Jerrys Plains East	14/11/2017 21:05	5.2	-1	35	No	32	NA
Long Point	13/11/2017 21:28	3	-1	35	Yes	IA	Nil
HVGC	14/11/2017 23:09	3.6	-1	55	No	25	NA

**Table 3: L<sub>Aeq, 15 minute</sub> HVO South - Land Acquisition Criteria – November 2017**

Location	Date and Time	Wind Speed (m/s) <sup>5</sup>	VTG <sup>5</sup>	Criterion dB (A)	Criterion Applies? <sup>1,6</sup>	HVO South L <sub>Aeq</sub> dB <sup>2,4</sup>	Exceedance <sup>3</sup>
Knodlers Lane	14/11/2017 21:39	5.1	-1	41	No	IA	NA
Maison Dieu	14/11/2017 21:20	5.1	-1	41	No	IA	NA
Shearers Lane	14/11/2017 21:00	5.2	-1	41	No	IA	NA
Kilburnie South	14/11/2017 22:31	4.1	-1	41	No	<35	NA
Jerrys Plains Village	14/11/2017 21:33	4.7	-1	40	No	<25	NA
Jerrys Plains East	14/11/2017 21:05	5.2	-1	40	No	32	NA
Long Point	13/11/2017 21:28	3	-1	35	Yes	IA	Nil
HVGC	14/11/2017 23:09	3.6	-1	NA	No	25	NA

**Table 4: L<sub>A1, 1minute</sub> HVO South - Impact Assessment Criteria – November 2017**

Location	Date and Time	Wind Speed (m/s) <sup>5</sup>	VTG <sup>5</sup>	Criterion dB (A)	Criterion Applies? <sup>1,6</sup>	HVO South L <sub>A1, 1min</sub> dB <sup>2,4</sup>	Exceedance <sup>3</sup>
Knodlers Lane	14/11/2017 21:39	5.1	-1	45	No	IA	NA
Maison Dieu	14/11/2017 21:20	5.1	-1	45	No	IA	NA
Shearers Lane	14/11/2017 21:00	5.2	-1	45	No	IA	NA
Kilburnie South	14/11/2017 22:31	4.1	-1	45	No	38	NA
Jerrys Plains Village	14/11/2017 21:33	4.7	-1	45	No	<25	NA
Jerrys Plains East	14/11/2017 21:05	5.2	-1	45	No	36	NA
Long Point	13/11/2017 21:28	3	-1	45	Yes	IA	Nil
HVGC	14/11/2017 23:09	3.6	-1	NA	No	29	NA

**Notes**

- Noise emission limits apply for wind speeds up to 3 metres per second (at a height of 10m), or temperature inversion conditions of up to 3 degrees/100m (at a height of 10m);
- Estimated or measured L<sub>Aeq,15minute</sub> dB attributed to HVO South Pit Area;
- NA in exceedance column means atmospheric conditions outside specified in approval and so criterion is not applicable;
- Bolded results in red indicate exceedance of criteria;
- Atmospheric data is sourced from the HVO Corporate or Cheshunt weather station using logged met data;
- Criterion may or may not apply due to rounding of meteorological data values
- Remeasure; and
- Follow up measurement

**Table 5: L<sub>Aeq, 15minute</sub> HVO North – Impact Assessment Criteria – November 2017**

Location	Date and Time	Wind Speed (m/s) <sup>5</sup>	VTG <sup>5</sup>	Criterion dB (A)	Criterion Applies? <sup>1,6</sup>	HVO North L <sub>Aeq</sub> dB <sup>2,4</sup>	Exceedance <sup>3</sup>
Knodlers Lane	14/11/2017 21:39	3.4	-1	35	No	IA	NA
Maison Dieu	14/11/2017 21:20	3	-1	35	Yes	IA	Nil
Shearers Lane	14/11/2017 21:00	3.4	-1	35	No	IA	NA
Kilburnie South	14/11/2017 22:31	3	-1	39	Yes	36	Nil
Jerrys Plains Village	14/11/2017 21:33	3.3	-1	36	No	35	NA
Jerrys Plains East	14/11/2017 21:05	3.4	-1	39	No	30	NA
Long Point	13/11/2017 21:28	3	-1	35	Yes	IA	Nil
HVGC	14/11/2017 23:09	3.2	-1	Nil	No	IA	NA

**Table 6: L<sub>Aeq,15minute</sub> HVO North - Land Acquisition Criteria – November 2017**

Location	Date and Time	Wind Speed (m/s) <sup>5</sup>	VTG <sup>5</sup>	Criterion dB (A)	Criterion Applies? <sup>1,6</sup>	HVO North L <sub>Aeq</sub> dB <sup>2,4</sup>	Exceedance <sup>3</sup>
Knodlers Lane	14/11/2017 21:39	3.4	-1	41	No	IA	NA
Maison Dieu	14/11/2017 21:20	3	-1	41	Yes	IA	Nil
Shearers Lane	14/11/2017 21:00	3.4	-1	41	No	IA	NA
Kilburnie South	14/11/2017 22:31	3	-1	41	Yes	36	Nil
Jerrys Plains Village	14/11/2017 21:33	3.3	-1	41	No	35	NA
Jerrys Plains East	14/11/2017 21:05	3.4	-1	41	No	30	NA
Long Point	13/11/2017 21:28	3	-1	41	Yes	IA	Nil

HVGC	14/11/2017 23:09	3.2	-1	NA	No	IA	NA
------	------------------	-----	----	----	----	----	----

**Table 7: L<sub>A1, 1Minute</sub> HVO North - Impact Assessment Criteria – November 2017**

Location	Date and Time	Wind Speed (m/s) <sup>5</sup>	VTG <sup>5</sup>	Criterion dB (A)	Criterion Applies? <sup>1,6</sup>	HVO North L <sub>A1, 1min</sub> dB <sup>2,4</sup>	Exceedance <sup>3</sup>
Knodlers Lane	14/11/2017 21:39	3.4	-1	46	No	IA	NA
Maison Dieu	14/11/2017 21:20	3	-1	46	Yes	IA	Nil
Shearers Lane	14/11/2017 21:00	3.4	-1	46	No	IA	NA
Kilburnie South	14/11/2017 22:31	3	-1	46	Yes	42	Nil
Jerrys Plains Village	14/11/2017 21:33	3.3	-1	46	No	39	NA
Jerrys Plains East	14/11/2017 21:05	3.4	-1	46	No	32	NA
Long Point	13/11/2017 21:28	3	-1	46	Yes	IA	Nil
HVGC	14/11/2017 23:09	3.2	-1	NA	No	IA	NA

**Notes**

1. Noise emission limits apply under all meteorological conditions, except during periods of rain or hail, when average winds speed at microphone heights exceeds 5 metres per second, when wind speeds greater than 3 metres per second are measured at 10m above ground level, or during temperature inversion conditions greater than 3 degrees C/100m;
2. Estimated or measured LAeq,15minute dB attributed to HVO North Area;
3. NA in exceedance column means atmospheric conditions outside specified in approval and so criterion is not applicable;
4. Bolded results in red indicate exceedance of criteria;
5. Atmospheric data is sourced from the HVO Corporate or Cheshunt weather station using logged met data;
6. Criterion may or may not apply due to rounding of meteorological data values
7. Remeasure; and
8. Follow up measurement.

## 5.2 NPfl Low Frequency Assessment

In accordance with the requirements of the EPA's Noise Policy for Industry (NPfl), the applicability of the low frequency modification penalty has been assessed. During November 2017 no measurements required the penalty to be applied. The assessment for low frequency noise is shown in Table 8

**Table 8: Low Frequency Noise Assessment - November 2017**

Location	Date and Time	Measured Site Only LA <sub>eq</sub> dB (Sth/Nth)	Site Only LC <sub>eq</sub> dB <sup>4</sup> (Sth/Nth)	Site Only LC <sub>eq</sub> -LA <sub>eq</sub> dB <sup>1,4</sup> (Sth/Nth)	Result Max exceedance of ref spectrum dB <sup>2,3,4</sup> (Sth/Nth)	Penalty dB(A)	Exceedance
Knodlers Lane	14/11/2017 21:39	IA/IA	NA/NA	NA/NA	NA/NA	0	Nil
Maison Dieu	14/11/2017 21:20	IA/IA	NA/NA	NA/NA	NA/NA	0	Nil
Shearers Lane	14/11/2017 21:00	IA/IA	NA/NA	NA/NA	NA/NA	0	Nil
Kilburnie South	14/11/2017 22:31	<35/36	NA/NA	NA/NA	NA/NA	0	Nil
Jerrys Plains Village	14/11/2017 21:33	<25/35	NA/NA	NA/NA	NA/NA	0	Nil
Jerrys Plains East	14/11/2017 21:05	32/30	NA/NA	NA/NA	NA/NA	0	Nil
Long Point	13/11/2017 21:28	IA/IA	NA/NA	NA/NA	NA/NA	0	Nil
HVGC	14/11/2017 23:09	25/IA	NA/NA	NA/NA	NA/NA	0	Nil

**Notes:**

1. As per NPfl, if LC<sub>eq</sub> - LA<sub>eq</sub> >= 15 dB further assessment of low frequency noise required.
2. As per NPfl, compare measured spectrum against reference spectrum to determine if the low frequency modifying factor is triggered and application of penalty is required;
3. Bold results and penalties in red are where the relevant modifying factor trigger was exceeded; and
4. Where it is not possible to determine the site only result due to the presence of other low frequency noise sources occurring during the measurement, or where criteria were not applicable due to meteorological conditions, this is noted as NA (not available) and no further assessment has been undertaken.

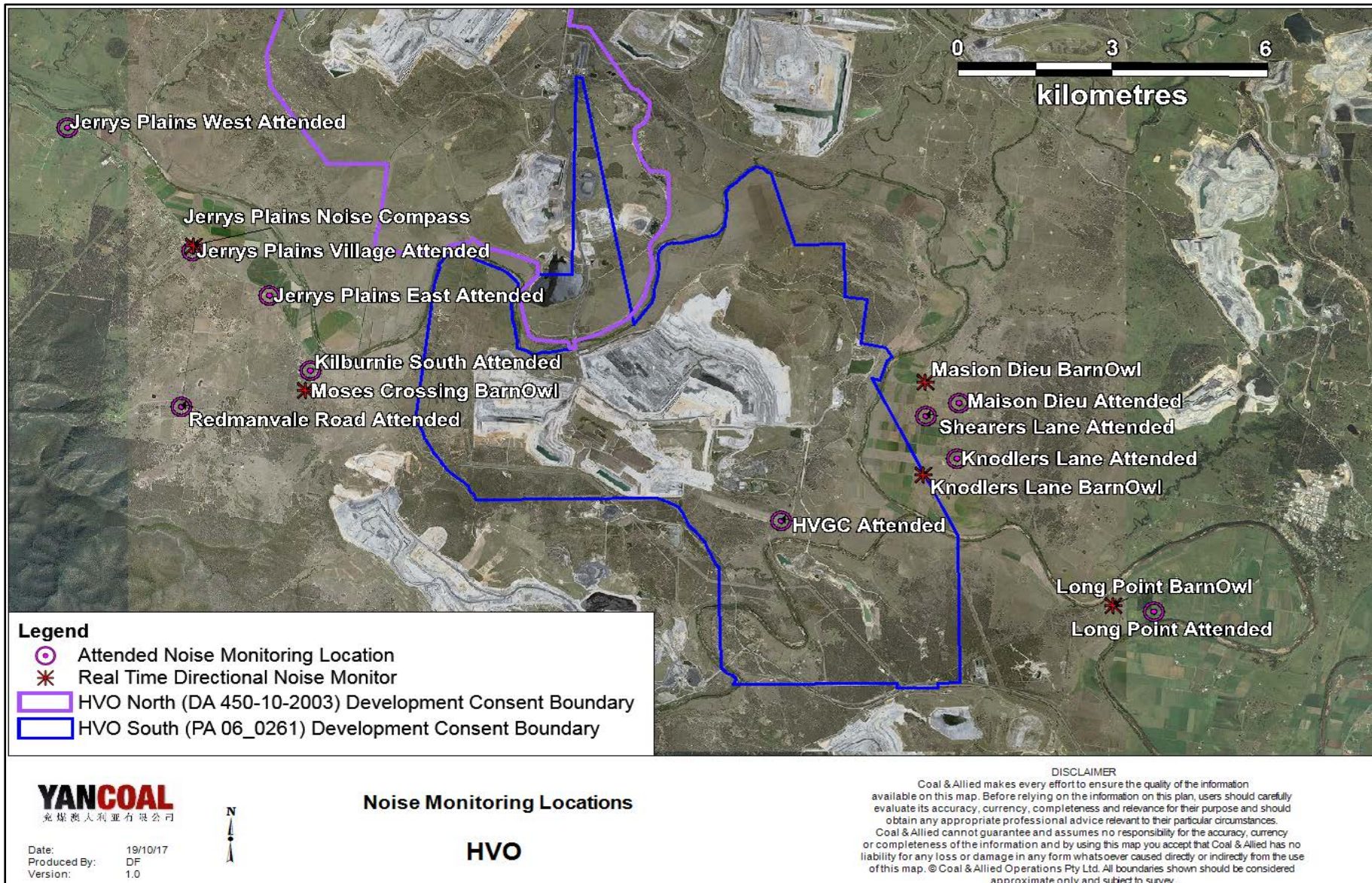


Figure 16: Noise Monitoring Location Plan



### 5.2.1 Real Time Noise Monitoring

HVO utilises a network of real-time directional noise monitors to manage noise impacts on a continuous basis. Noise alarms are in place at five monitoring locations (Knodlers Lane, Maison Dieu, Jerrys Plains, Moses Crossing, and Long Point), which alert HVO staff to elevated noise levels likely to be attributable to HVO. Noise alarms are investigated and responded to with the appropriate level of operational modification. Changes in response to a noise alarm can include replacing equipment with quieter (noise attenuated) units, changing or relocating tasks, and shutting down equipment.

It should be noted that this assessment does not compliment or conflict with attended noise monitoring detailed in Section 6.1, and that real time monitoring data includes non-mine noise sources such as dogs, cows, or more commonly, road traffic.

## 6.0 OPERATIONAL DOWNTIME

During November, a total of 180 hours of equipment downtime was logged in response to real time monitoring and visual inspections for environmental reasons such as dust, noise and meteorological conditions. Operational downtime by equipment type is shown in Figure 17.

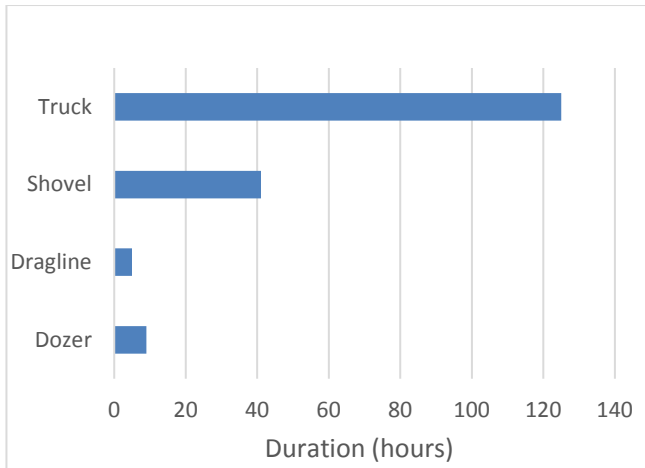


Figure 17: Operational Downtime by Equipment Type – November 2017

## 7.0 REHABILITATION

During November 5.6 Ha of land was released, 6.7 Ha of land was bulk shaped, 21.8 Ha of land was topsoiled,

19.2 Ha of land was composted and 49.3 Ha of land was rehabilitated. Year to date progress can be viewed in Figure 18.

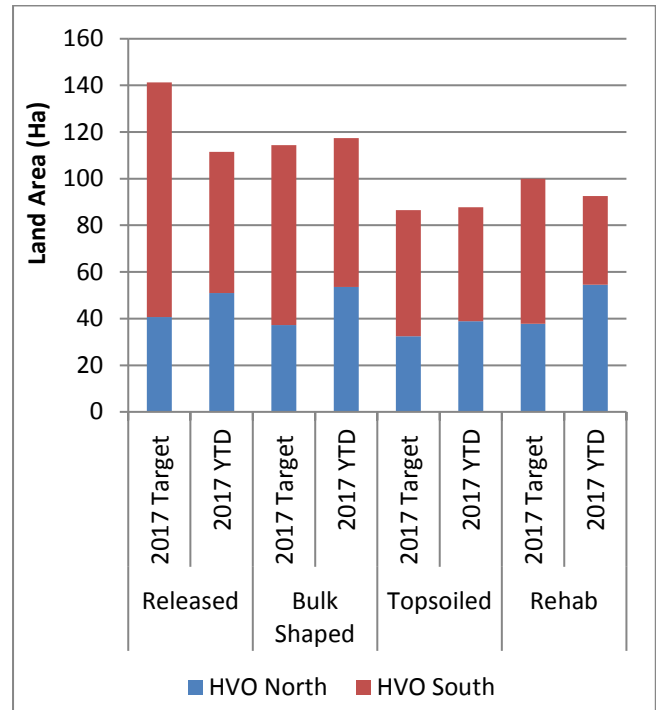


Figure 18: Rehabilitation YTD - November 2017

## 8.0 COMPLAINTS

5 complaints were received during the reporting period. Details of complaints received YTD are shown in Figure 19 below.

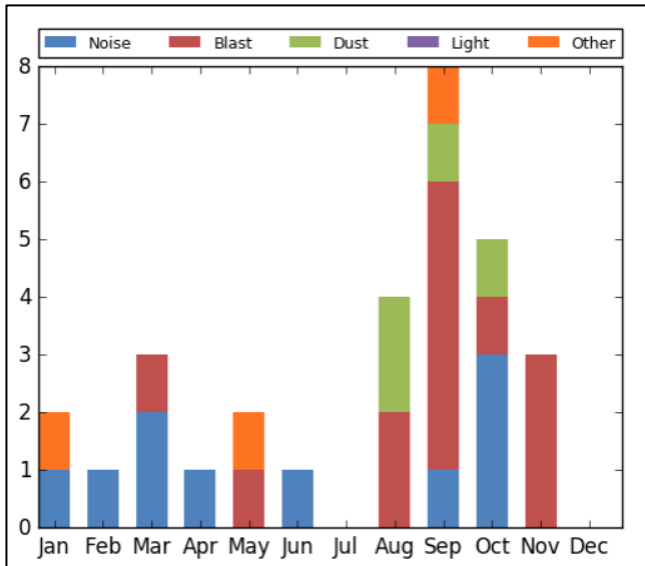


Figure 19: Complaints Graph - November 2017

## 9.0 ENVIRONMENTAL INCIDENTS

During the reporting period there were no reportable environmental incidents.

## **Appendix A: Meteorological Data**

**Table 9: Meteorological Data - HVO Corporate Meteorological Station – November 2017**

Date	Air Temperature Maximum (°C)	Air Temperature Minimum (°C)	Relative Humidity Maximum (%)	Relative Humidity Minimum (%)	Solar Radiation Maximum (W/Sq. M)	Wind Direction Average (°)	Wind Speed Average (m/sec)	Rainfall(mm)
1/11/2017	25.6	9.4	75.9	11.8	1326	192.5	2.2	0.0
2/11/2017	27.1	8.3	79.8	15.8	1074	156.7	2.1	0.0
3/11/2017	31.6	10.4	90.4	12.4	1047	239.8	3.3	0.0
4/11/2017	20.3	10.8	100.0	66.4	1439	118.6	2.1	5.6
5/11/2017	16.7	10.0	100.0	78.7	299	118.4	3.3	1.2
6/11/2017	29.4	10.9	100.0	32.1	1424	222.5	3.8	7.4
7/11/2017	23.1	9.8	94.6	29.6	1512	138.5	2.7	0.4
8/11/2017	20.0	8.8	100.0	50.3	1516	105.3	2.7	3.8
9/11/2017	23.4	6.6	100.0	32.2	1468	115.2	2.5	0.0
10/11/2017	24.3	7.4	100.0	33.0	1466	108.3	2.6	0.0
11/11/2017	24.9	8.8	100.0	29.7	1360	104.2	2.8	0.0
12/11/2017	25.2	8.5	97.5	29.1	1225	106.9	2.7	0.0
13/11/2017	24.3	11.4	83.4	36.5	1471	110.1	2.9	0.0
14/11/2017	25.5	8.6	95.0	31.3	1363	106.2	2.7	0.0
15/11/2017	29.1	10.0	96.8	18.5	1071	130.6	2.3	0.0
16/11/2017	24.2	10.7	98.8	42.9	603	137.2	1.6	0.0
17/11/2017	27.4	13.2	100.0	35.7	1532	101.7	2.6	0.0
18/11/2017	22.9	14.6	99.7	56.7	560	139.5	2.0	4.0
19/11/2017	23.7	11.7	99.8	38.1	1378	105.5	3.1	0.0
20/11/2017	26.2	9.7	96.0	33.1	1438	109.9	3.1	0.0
21/11/2017	26.1	11.9	89.5	28.2	1336	106.7	3.4	0.0
22/11/2017	26.0	10.6	100.0	31.9	1586	98.6	2.7	0.0
23/11/2017	29.7	11.7	100.0	24.2	1154	131.5	1.8	0.0
24/11/2017	32.6	12.4	90.3	15.4	1061	161.9	1.9	0.0
25/11/2017	31.2	12.5	97.4	16.3	1078	107.6	2.9	0.0
26/11/2017	32.8	14.4	99.6	17.3	1081	107.4	2.8	0.0
27/11/2017	25.9	15.8	93.0	51.7	871	144.1	2.1	0.0
28/11/2017	30.9	13.8	100.0	28.7	1259	106.2	2.8	0.0
29/11/2017	30.7	16.3	99.0	34.0	1473	103.3	3.3	0.0
30/11/2017	32.6	17.5	93.7	28.1	1289	108.1	2.8	0.0

“-“ Indicates that data was not available due to technical issues.