

# Mittagong Sands Pty Ltd

Jan-20

Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

EPA Licence No: 11420

## Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

## Location of Monitoring Points:

Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 2: Located between the rubbish tip and adjacent the northern hall road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

## Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m <sup>2</sup>	8.5	11.2	9.8
Combustible Matter	g/m <sup>2</sup>	1.1	1.3	1.2

## Individual Results:

### Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
31/01/2020	Ash Content	g/m <sup>2</sup>	11.2
	Combustible Matter	g/m <sup>2</sup>	1.3
	TOTAL	g/m <sup>2</sup>	12.5

### Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
31/01/2020	Ash Content	g/m <sup>2</sup>	9.8
	Combustible Matter	g/m <sup>2</sup>	1.3
	TOTAL	g/m <sup>2</sup>	11.1

### Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
31/01/2020	Ash Content	g/m <sup>2</sup>	8.5
	Combustible Matter	g/m <sup>2</sup>	1.1
	TOTAL	g/m <sup>2</sup>	9.6

# Mittagong Sands Pty Ltd

Feb-20

Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

EPA Licence No: 11420

## Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

## Location of Monitoring Points:

Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 2: Located between the rubbish tip and adjacent the northern hall road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

## Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m <sup>2</sup>	2.70	5.10	3.90
Combustible Matter	g/m <sup>2</sup>	0.60	1.40	0.93

## Individual Results:

### Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
29/02/2020	Ash Content	g/m <sup>2</sup>	2.7
	Combustible Matter	g/m <sup>2</sup>	0.6
	TOTAL	g/m <sup>2</sup>	3.3

### Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
29/02/2020	Ash Content	g/m <sup>2</sup>	3.9
	Combustible Matter	g/m <sup>2</sup>	0.8
	TOTAL	g/m <sup>2</sup>	4.7

### Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
29/02/2020	Ash Content	g/m <sup>2</sup>	5.1
	Combustible Matter	g/m <sup>2</sup>	1.4
	TOTAL	g/m <sup>2</sup>	6.5

# Mittagong Sands Pty Ltd

Mar-20

Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

EPA Licence No: 11420

## Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

## Location of Monitoring Points:

Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 2: Located between the rubbish tip and adjacent the northern hall road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

## Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m <sup>2</sup>	2.1	3.3	2.6
Combustible Matter	g/m <sup>2</sup>	0.5	0.9	0.6

## Individual Results:

### Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
31/03/2020	Ash Content	g/m <sup>2</sup>	3.3
	Combustible Matter	g/m <sup>2</sup>	0.9
	TOTAL	g/m <sup>2</sup>	4.2

### Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
31/03/2020	Ash Content	g/m <sup>2</sup>	2.1
	Combustible Matter	g/m <sup>2</sup>	0.5
	TOTAL	g/m <sup>2</sup>	2.6

### Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
31/03/2020	Ash Content	g/m <sup>2</sup>	2.3
	Combustible Matter	g/m <sup>2</sup>	0.5
	TOTAL	g/m <sup>2</sup>	2.8

# Mittagong Sands Pty Ltd

Apr-20

Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

EPA Licence No: 11420

## Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

## Location of Monitoring Points:

Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 2: Located between the rubbish tip and adjacent the northern hall road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

## Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m <sup>2</sup>	1.50	22.80	9.70
Combustible Matter	g/m <sup>2</sup>	0.30	5.20	2.10

## Individual Results:

### Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
30/04/2020	Ash Content	g/m <sup>2</sup>	22.8
	Combustible Matter	g/m <sup>2</sup>	5.2
	TOTAL	g/m <sup>2</sup>	28.0

### Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
30/04/2020	Ash Content	g/m <sup>2</sup>	4.8
	Combustible Matter	g/m <sup>2</sup>	0.8
	TOTAL	g/m <sup>2</sup>	5.6

### Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
30/04/2020	Ash Content	g/m <sup>2</sup>	1.5
	Combustible Matter	g/m <sup>2</sup>	0.3
	TOTAL	g/m <sup>2</sup>	1.8

# Mittagong Sands Pty Ltd

May-20

Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

EPA Licence No: 11420

## Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

## Location of Monitoring Points:

Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 2: Located between the rubbish tip and adjacent the northern hall road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

## Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m <sup>2</sup>	0.60	2.90	1.37
Combustible Matter	g/m <sup>2</sup>	0.10	0.50	0.23

## Individual Results:

### Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
31/05/2020	Ash Content	g/m <sup>2</sup>	0.60
	Combustible Matter	g/m <sup>2</sup>	0.10
	TOTAL	g/m <sup>2</sup>	0.7

### Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
31/05/2020	Ash Content	g/m <sup>2</sup>	2.90
	Combustible Matter	g/m <sup>2</sup>	0.50
	TOTAL	g/m <sup>2</sup>	3.4

### Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
31/05/2020	Ash Content	g/m <sup>2</sup>	0.60
	Combustible Matter	g/m <sup>2</sup>	0.10
	TOTAL	g/m <sup>2</sup>	0.7

# Mittagong Sands Pty Ltd

Jun-20

Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

EPA Licence No: 11420

## Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

## Location of Monitoring Points:

Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 2: Located between the rubbish tip and adjacent the northern haul road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

## Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m <sup>2</sup>	0.80	16.00	6.03
Combustible Matter	g/m <sup>2</sup>	0.10	1.00	0.40

## Individual Results:

### Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
30/06/2020	Ash Content	g/m <sup>2</sup>	16.00
	Combustible Matter	g/m <sup>2</sup>	1.00
	TOTAL	g/m <sup>2</sup>	17.00

### Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
30/06/2020	Ash Content	g/m <sup>2</sup>	1.30
	Combustible Matter	g/m <sup>2</sup>	0.10
	TOTAL	g/m <sup>2</sup>	1.40

### Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
30/06/2020	Ash Content	g/m <sup>2</sup>	0.80
	Combustible Matter	g/m <sup>2</sup>	0.10
	TOTAL	g/m <sup>2</sup>	0.90

# Mittagong Sands Pty Ltd

Jul-20

Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

EPA Licence No: 11420

## Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

## Location of Monitoring Points:

Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 2: Located between the rubbish tip and adjacent the northern haul road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

## Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m <sup>2</sup>	0.40	1.10	0.75
Combustible Matter	g/m <sup>2</sup>	0.05	0.30	0.18

## Individual Results:

### Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
31/07/2020	<i>Monitoring Point was not available for the entire month as it fell over in the wind</i>		

### Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
31/07/2020	Ash Content	g/m <sup>2</sup>	1.10
	Combustible Matter	g/m <sup>2</sup>	0.30
	TOTAL	g/m <sup>2</sup>	1.40

### Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
31/07/2020	Ash Content	g/m <sup>2</sup>	0.40
	Combustible Matter	g/m <sup>2</sup>	0.05
	TOTAL	g/m <sup>2</sup>	0.45

# Mittagong Sands Pty Ltd

Aug-20

Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

EPA Licence No: 11420

## Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

## Location of Monitoring Points:

Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 2: Located between the rubbish tip and adjacent the northern haul road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

## Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m <sup>2</sup>	0.40	18.50	6.57
Combustible Matter	g/m <sup>2</sup>	0.30	2.60	1.07

## Individual Results:

### Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
31/08/2020	Ash Content	g/m <sup>2</sup>	18.50
	Combustible Matter	g/m <sup>2</sup>	2.60
	TOTAL	g/m <sup>2</sup>	21.10

### Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
31/08/2020	Ash Content	g/m <sup>2</sup>	0.80
	Combustible Matter	g/m <sup>2</sup>	0.30
	TOTAL	g/m <sup>2</sup>	1.10

### Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
31/08/2020	Ash Content	g/m <sup>2</sup>	0.40
	Combustible Matter	g/m <sup>2</sup>	0.30
	TOTAL	g/m <sup>2</sup>	0.70



# Mittagong Sands Pty Ltd

Sep-20

Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

EPA Licence No: 11420

## Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

## Location of Monitoring Points:

Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 2: Located between the rubbish tip and adjacent the northern haul road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

## Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m <sup>2</sup>	1.30	34.60	12.50
Combustible Matter	g/m <sup>2</sup>	0.60	9.40	3.63

## Individual Results:

### Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
30/09/2020	Ash Content	g/m <sup>2</sup>	34.60
	Combustible Matter	g/m <sup>2</sup>	9.40
	TOTAL	g/m <sup>2</sup>	44.00

### Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
30/09/2020	Ash Content	g/m <sup>2</sup>	1.60
	Combustible Matter	g/m <sup>2</sup>	0.60
	TOTAL	g/m <sup>2</sup>	2.20

### Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
30/09/2020	Ash Content	g/m <sup>2</sup>	1.30
	Combustible Matter	g/m <sup>2</sup>	0.90
	TOTAL	g/m <sup>2</sup>	2.20

# Mittagong Sands Pty Ltd

Oct-20

Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

EPA Licence No: 11420

## Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

## Location of Monitoring Points:

Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 2: Located between the rubbish tip and adjacent the northern haul road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

## Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m <sup>2</sup>	1.60	248.00	84.27
Combustible Matter	g/m <sup>2</sup>	1.10	39.70	14.57

## Individual Results:

### Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
31/10/2020	Ash Content	g/m <sup>2</sup>	248.00
	Combustible Matter	g/m <sup>2</sup>	39.70
	TOTAL	g/m <sup>2</sup>	287.70

### Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
31/10/2020	Ash Content	g/m <sup>2</sup>	3.20
	Combustible Matter	g/m <sup>2</sup>	2.90
	TOTAL	g/m <sup>2</sup>	6.10

### Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
31/10/2020	Ash Content	g/m <sup>2</sup>	1.60
	Combustible Matter	g/m <sup>2</sup>	1.10
	TOTAL	g/m <sup>2</sup>	2.70

# Mittagong Sands Pty Ltd

Nov-20

Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

EPA Licence No: 11420

## Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

## Location of Monitoring Points:

Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 2: Located between the rubbish tip and adjacent the northern haul road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

## Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m <sup>2</sup>	0.60	24.20	8.83
Combustible Matter	g/m <sup>2</sup>	0.30	4.40	2.23

## Individual Results:

### Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
30/11/2020	Ash Content	g/m <sup>2</sup>	24.20
	Combustible Matter	g/m <sup>2</sup>	4.40
	TOTAL	g/m <sup>2</sup>	28.60

### Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
30/11/2020	Ash Content	g/m <sup>2</sup>	0.60
	Combustible Matter	g/m <sup>2</sup>	0.30
	TOTAL	g/m <sup>2</sup>	0.90

### Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
30/11/2020	Ash Content	g/m <sup>2</sup>	1.70
	Combustible Matter	g/m <sup>2</sup>	2.00
	TOTAL	g/m <sup>2</sup>	3.70

# Mittagong Sands Pty Ltd

Dec-20

Cowra Quartz Quarry - Glen Logan Road, Cowra NSW 2794

EPA Licence No: 11420

## Dust Monitoring Requirements:

Continuous sampling with results assessed on a monthly basis.

## Location of Monitoring Points:

Monitoring Point 1: Located in the north-western corner of the property on the eastern side of the main road as indicated by *DM01* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 2: Located between the rubbish tip and adjacent the northern haul road as indicated by *DM02* on figure 1 *Dust Deposition Gauge Location*.

Monitoring Point 3: Located between the wash plant and the main road as indicated by *DM03* on figure 1 *Dust Deposition Gauge Location*.

## Summary of Results:

Particulates	Unit of Measure	Lowest sample value	Highest sample value	Mean of samples
Ash Content	g/m <sup>2</sup>	1.40	43.70	15.63
Combustible Matter	g/m <sup>2</sup>	0.40	13.30	5.00

## Individual Results:

### Monitoring Point 1:

Sample Date	Particulate	Unit of Measure	Test Result
	Ash Content	g/m <sup>2</sup>	43.70
	Combustible Matter	g/m <sup>2</sup>	13.30
	TOTAL	g/m <sup>2</sup>	57.00

### Monitoring Point 2:

Sample Date	Pollutant	Unit of Measure	Test Result
	Ash Content	g/m <sup>2</sup>	1.80
	Combustible Matter	g/m <sup>2</sup>	1.30
	TOTAL	g/m <sup>2</sup>	3.10

### Monitoring Point 3:

Sample Date	Pollutant	Unit of Measure	Test Result
	Ash Content	g/m <sup>2</sup>	1.40
	Combustible Matter	g/m <sup>2</sup>	0.40
	TOTAL	g/m <sup>2</sup>	1.80