

## **Bass Point Quarry Air Quality Monitoring Data**

Reporting Month: August 2016

Licensee Address: Bass Point Tourist Rd, Bass Point NSW 2529

EPL No: 2193

Project Approval: Ref 08\_0143, January 28, 2014

## **Qualifications related to the Air Quality Management Plan**

As per the EPL, Project Approval and Air Quality Management Plan, the quarry is required to report on the following:

### *Particulate Matter*

The quarry will gather representative data and compare the results against the following tables:

*Table 4: Long-Term Impact Assessment Criteria for Particulate Matter*

<i>Pollutant</i>	<i>Averaging period</i>	<i><sup>d</sup> Criterion</i>
Total suspended particulates (TSP)	Annual	<sup>a</sup> 90 µg/m <sup>3</sup>
Particulate matter < 10 µm (PM <sub>10</sub> )	Annual	<sup>a</sup> 30 µg/m <sup>3</sup>

*Table 5: Short Term Impact Assessment Criteria for Particulate Matter*

<i>Pollutant</i>	<i>Averaging period</i>	<i><sup>d</sup> Criterion</i>
Particulate matter < 10 µm (PM <sub>10</sub> )	24 hour	<sup>a</sup> 50 µg/m <sup>3</sup>

### *Dust Deposition Gauges*

The quarry monitors two Dust Deposition Gauges (DDG's) and compares the results against the following table:

*Table 6: Long-Term Impact Assessment Criteria for Deposited Dust*

<i>Pollutant</i>	<i>Averaging period</i>	<i>Maximum increase in deposited dust level</i>	<i>Maximum total deposited dust level</i>
<sup>c</sup> Deposited dust	Annual	<sup>b</sup> 2 g/m <sup>2</sup> /month	<sup>a</sup> 4 g/m <sup>2</sup> /month

### *Representative Weather Data*

The quarry will gather representative weather data for the respective month including temperature, rainfall, wind speed and direction.

## **Results**

### *Particulate Matter*

#### *Short Term Impact Assessment*

<b>Date</b>	<b>PM10 24h average [<math>\mu\text{g}/\text{m}^3</math>]</b>
01/08/2016	11
02/08/2016	8.3
03/08/2016	11.2
04/08/2016	10
05/08/2016	7.8
06/08/2016	8.8
07/08/2016	8.8
08/08/2016	9.7
09/08/2016	13.6
10/08/2016	11.3
11/08/2016	6.8
12/08/2016	9.1
13/08/2016	8.6
14/08/2016	9.4
15/08/2016	14.4
16/08/2016	18.1
17/08/2016	11.1
18/08/2016	17.7
19/08/2016	13.3
20/08/2016	5.9
21/08/2016	8.3
22/08/2016	10
23/08/2016	7.9
24/08/2016	5.4
25/08/2016	7.7
26/08/2016	7.5
27/08/2016	6.2
28/08/2016	7.5
29/08/2016	12.3
30/08/2016	21.2
31/08/2016	14.4

### *Dust Deposition Gauges*

<b>Location</b>	<b>Result(g/m<sup>2</sup>/month)</b>	<b>Comment</b>
DDG 1	0.9	
DDG 2	3.6	

