

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

Reporting Month: May 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>
01/05/2016	9.7
02/05/2016	10.7
03/05/2016	10.2
04/05/2016	14.4
05/05/2016	18.3
06/05/2016	21.4
07/05/2016	34.4
08/05/2016	15.7
09/05/2016	16.8
10/05/2016	6.6
11/05/2016	11.3
12/05/2016	6.9
13/05/2016	8.8
14/05/2016	13.9
15/05/2016	7.8
16/05/2016	24.8
17/05/2016	10.6
18/05/2016	16.7
19/05/2016	18.5
20/05/2016	17.9
21/05/2016	21.3
22/05/2016	43.1
23/05/2016	17.4
24/05/2016	9
25/05/2016	16.9
26/05/2016	7.2
27/05/2016	8.7
28/05/2016	6.1
29/05/2016	5.4
30/05/2016	8.5
31/05/2016	7.6

### *Dust Deposition Gauges*

<b>Location</b>	<b>Result(g/m<sup>2</sup>/month)</b>	<b>Comment</b>
DDG 1	0.6	
DDG 2	3.1	

