

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

Reporting Month: February 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>
01/02/2016	13.8
02/02/2016	13.7
03/02/2016	17.6
04/02/2016	18.7
05/02/2016	18.4
06/02/2016	18.4
07/02/2016	12.6
08/02/2016	17.6
09/02/2016	24
10/02/2016	22.9
11/02/2016	16.2
12/02/2016	12.1
13/02/2016	18.9
14/02/2016	25.7
15/02/2016	27.1
16/02/2016	18.5
17/02/2016	12.2
18/02/2016	16.6
19/02/2016	30.2
20/02/2016	18.4
21/02/2016	11.3
22/02/2016	14.5
23/02/2016	19.3
24/02/2016	30.3
25/02/2016	40.5
26/02/2016	26.6
27/02/2016	15.7
28/02/2016	14.1
29/02/2016	9.7

### *Dust Deposition Gauges*

<b>Location</b>	<b>Result(<math>\text{g}/\text{m}^2/\text{month}</math>)</b>	<b>Comment</b>
DDG 1	2.3	
DDG 2	6.8	Results likely affected by the marina works

