

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

Reporting Month: January 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>
01/01/2016	13.8
02/01/2016	14.7
03/01/2016	14.5
04/01/2016	15.2
05/01/2016	19.7
06/01/2016	11.1
07/01/2016	11
08/01/2016	19.8
09/01/2016	23.3
10/01/2016	20.5
11/01/2016	33.4
12/01/2016	26.6
13/01/2016	22.9
14/01/2016	19.6
15/01/2016	12
16/01/2016	8.1
17/01/2016	7.8
18/01/2016	10.8
19/01/2016	32.6
20/01/2016	24.9
21/01/2016	25.6
22/01/2016	15.4
23/01/2016	8.8
24/01/2016	26.9
25/01/2016	24.6
26/01/2016	15.4
27/01/2016	18.5
28/01/2016	20.6
29/01/2016	19.5
30/01/2016	18
31/01/2016	20.8

### *Dust Deposition Gauges*

<b>Location</b>	<b>Result(g/m<sup>2</sup>/month)</b>	<b>Comment</b>
DDG 1	N/A	Gauge damaged by earthworks.
DDG 2	7.0	Results likely affected by the marina works

