



# Peppertree Quarry

## Environmental Monitoring Report

### Noise



## Peppertree Quarry Environmental Monitoring Report

The monitoring of pollutants provided in this report is undertaken as per the requirements of Environment Protection Licence 13088 (EPL 13088 – Boral Peppertree Quarry)

This report provides environmental monitoring data for Peppertree Quarry for the period February 2015 to December 2020.

Peppertree Quarry Information	
Premise Details	Boral – Peppertree Quarry
Address	843 Marulan South Road, Marulan
Licensee	Boral Resources (NSW) PTY LTD
EPL N°	13088
EPL Location	<a href="http://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33060&amp;SYSUID=1&amp;LICID=13088">http://app.epa.nsw.gov.au/prpoeoapp/ViewPOEOLicence.aspx?DOCID=33060&amp;SYSUID=1&amp;LICID=13088</a>

Monitoring data in this report relates to the monitoring undertaken in July 2020 for the following environmental pollutants:

- Noise

## Peppertree Quarry Environmental Monitoring Report

Noise monitoring is conducted as per condition L6 of EPL 13088. The next round of quarterly monitoring has been conducted in February 2021, however the results have yet to be received.

Sample Period: Quarterly (October, November, December 2020)  
 Date Sampled: 30<sup>th</sup> November, 1<sup>st</sup> and 2<sup>nd</sup> December 2020  
 Date received: 17<sup>th</sup> February 2021  
 Date published: 20<sup>th</sup> March 2021  
 Licensee: Peppertree Quarry  
 Licensee Address: 843 Marulan south road, Marulan NSW 2579  
 EPL No: 13088

### Qualifications related to noise:

Noise is measured quarterly

The identified noise emission limits apply under meteorological conditions of wind speed 3m/s at 10 meters above ground level, and temp inversion conditions. Monitoring protocols are contained within the Noise and Blasting Management Plan found on this website.

Noise monitoring is measured at the 5 residential receiver locations. – R2, R3, R4, R8, R17 since approval of Modification 4 in August 2016.

Noise criteria has changed since the approval of the Noise and Blast management Plan revised in relation to Modification 5 in April 2020.

<i>Receiver</i>	<i>Date</i>	<i>Site Noise Level Contribution</i>	<i>Operational Criteria (dB(A))</i>	<i>Compliant</i>
<b>EPL ID</b>		<b>LAeq, 15 minute (dB(A))</b>	<b>daytime</b>	
R8	30/11/2020	36	40	yes
R17	30/11/2020	26	40	yes
R2	30/11/2020	23	40	yes
R3	30/11/2020	25	40	yes
R17	1/12/2020	31	40	yes
R17	1/12/2020	31	40	yes
R2	1/12/2020	30	40	yes
R2	1/12/2020	34	40	yes
R3	1/12/2020	28	40	yes
R3	1/12/2020	28	40	yes
R4	1/12/2020	36	40	yes
R4	1/12/2020	36	40	yes
R8	1/12/2020	34	40	yes
R8	1/12/2020	34	40	yes
R17	2/12/2020	30	40	yes
R2	2/12/2020	26	40	yes
R3	2/12/2020	25	40	yes
R4	2/12/2020	32	40	yes
R8	2/12/2020	34	40	yes

Peppertree Quarry Environmental Monitoring Report

<i>Receiver</i>	<i>Date</i>	<i>Site Noise Level Contribution</i>	<i>Operational Criteria (dB(A))</i>	<i>Compliant</i>
<b>EPL ID</b>		<b>LAeq, 15 minute (dB(A))</b>	<b>Evening / Night</b>	
R4	30/11/2020	34	35	yes
R17	1/12/2020	31	35	yes
R17	1/12/2020	26	35	yes
R2	1/12/2020	25	35	yes
R3	1/12/2020	32	35	yes
R4	1/12/2020	28	35	yes
R8	2/12/2020	24	35	yes

<i>Receiver</i>	<i>Date</i>	<i>Site Noise Level Contribution</i>	<i>Operational Criteria (dB(A))</i>	<i>Compliant</i>
<b>EPL ID</b>		<b>LA1, 1 minute (dB(A))</b>	<b>evening</b>	
R3	1/12/2020	32	52	yes
R4	1/12/2020	28	52	yes
R8	2/12/2020	24	52	yes

**Historical results**

<i>Receiver</i>	<i>Date</i>	<i>Site Noise Level Contribution</i>	<i>Operational Criteria (dB(A))</i>	<i>Compliant</i>
<b>EPL ID</b>		<b>LAeq, 15 minute (dB(A))</b>	<b>daytime</b>	
R17	28/7/2020	31	40	yes
R2	28/7/2020	24	40	yes
R3	28/7/2020	37	40	yes
R8	28/7/2020	33	40	yes
R4	28/7/2020	34	40	yes
R17	28/7/2020	30	40	yes
R17	28/7/2020	32	40	yes
R2	28/7/2020	30	40	yes
R2	28/7/2020	29	40	yes
R3	28/7/2020	29	40	yes
R3	28/7/2020	29	40	yes
R4	28/7/2020	33	40	yes
R4	28/7/2020	24	40	yes
R8	28/7/2020	21	40	yes
R8	28/7/2020	21	40	yes

Peppertree Quarry Environmental Monitoring Report

<i>Receiver</i>	<i>Date</i>	<i>Site Noise Level Contribution</i>	<i>Operational Criteria (dB(A))</i>	<i>Compliant</i>
<b>EPL ID</b>		<b>LAeq, 15 minute (dB(A))</b>	<b>Evening / Night</b>	
R17	28/7/2020	27	35	yes
R17	28/7/2020	28	35	yes
R17	29/7/2020	25	35	yes
R17	29/7/2020	25	35	yes
R17	29/7/2020	26	35	yes
R17	29/7/2020	25	35	yes
R2	29/7/2020	27	35	yes
R2	29/7/2020	29	35	yes
R3	29/7/2020	26	35	yes
R3	29/7/2020	32	35	yes
R4	30/7/2020	25	35	yes
R8	30/7/2020	26	35	yes
R8	30/7/2020	21	35	yes

<i>Receiver</i>	<i>Date</i>	<i>Site Noise Level Contribution</i>	<i>Operational Criteria (dB(A))</i>	<i>Compliant</i>
<b>EPL ID</b>		<b>LA1, 1 minute (dB(A))</b>	<b>evening</b>	
R17	28/7/2020	39	52	yes
R17	28/7/2020	36	52	yes
R17	29/7/2020	32	52	yes
R17	29/7/2020	29	52	yes
R2	29/7/2020	32	52	yes
R2	29/7/2020	34	52	yes
R3	29/7/2020	26	52	yes
R3	30/7/2020	35	52	yes
R4	30/7/2020	25	52	
R8	30/7/2020	33	52	
R8	30/7/2020	30	52	

<i>Receiver</i>	<i>Date</i>	<i>Site Noise Level Contribution</i>	<i>Operational Criteria (dB(A))</i>	<i>Compliant</i>
<b>EPL ID</b>		<b>LAeq, 15 minute (dB(A))</b>	<b>daytime</b>	
R8	14/4/2020	23	41	yes
R4	14/4/2020	21	35	yes
R17	14/4/2020	31	35	yes
R17	15/4/2020	30	35	yes
R17	15/4/2020	31	35	yes
R2	15/4/2020	27	35	yes
R2	15/4/2020	25	35	yes
R3	15/4/2020	21	35	yes
R3	15/4/2020	22	35	yes
R4	15/4/2020	23	35	yes
R4	15/4/2020	25	35	yes
R8	15/4/2020	25	41	yes
R8	15/4/2020	26	41	yes

Peppertree Quarry Environmental Monitoring Report

<i>Receiver</i>	<i>Date</i>	<i>Site Noise Level Contribution</i>	<i>Operational Criteria (dB(A))</i>	<i>Compliant</i>
<b>EPL ID</b>		<b>LAeq, 15 minute (dB(A))</b>	<b>Evening / Night</b>	
R17	15/4/2020	30	35	yes
R17	15/4/2020	28	35	yes
R2	15/4/2020	29	35	yes
R2	15/4/2020	29	35	yes
R3	15/4/2020	25	35	yes
R3	15/4/2020	26	35	yes
R4	15/4/2020	28	35	yes
R4	15/4/2020	31	35	yes
R8	15/4/2020	26	35	yes
R8	16/4/2020	21	35	yes
R17	16/4/2020	30	35	yes
R17	16/4/2020	30	35	yes
R3	16/4/2020	25	35	yes

<i>Receiver</i>	<i>Date</i>	<i>Site Noise Level Contribution</i>	<i>Operational Criteria (dB(A))</i>	<i>Compliant</i>
<b>EPL ID</b>		<b>LA1, 1 minute (dB(A))</b>	<b>evening</b>	
R3	15/4/2020	30	45	yes
R4	15/4/2020	37	45	yes
R4	15/4/2020	41	45	yes
R8	15/4/2020	30	45	yes
R8	16/4/2020	21	45	yes
R17	16/4/2020	34	45	yes
R17	16/4/2020	34	45	yes
R3	16/4/2020	25	45	yes

<i>Receiver</i>	<i>Date</i>	<i>Site Noise Level Contribution</i>	<i>Operational Criteria (dB(A))</i>
<b>EPL ID</b>		<b>LAeq, 15 minute (dB(A))</b>	<b>daytime</b>
R8	10/3/2020	27	41
R4	10/3/2020	26	35
R17	10/3/2020	13	35
R2	10/3/2020	16	35
R3	10/3/2020	22	35
R8	11/3/2020	27	41
R8	11/3/2020	23	41
R17	11/3/2020	17	35
R17	11/3/2020	16	35
R2	11/3/2020	22	35
R2	11/3/2020	21	35
R3	11/3/2020	29	35
R3	11/3/2020	21	35
R4	11/3/2020	24	35
R4	11/3/2020	23	35

Peppertree Quarry Environmental Monitoring Report

<i>Receiver</i>	<i>Date</i>	<i>Site Noise Level Contribution</i>	<i>Operational Criteria (dB(A))</i>
<b>EPL ID</b>		<b>LAeq, 15 minute (dB(A))</b>	<b>Evening / Night</b>
R3	11/3/2020	31	35
R4	11/3/2020	25	35
R8	11/3/2020	35	35
R4	11/3/2020	31	35
R17	11/3/2020	17	35
R2	11/3/2020	25	35
R3	12/3/2020	19	35
R17	12/3/2020	15	35
R2	12/3/2020	26	35
R3	12/3/2020	26	35
R4	12/3/2020	33	35
R8	12/3/2020	34	35

<b>Receiver</b>	<b>Date</b>	<b>Site Noise Level Contribution</b>	<b>Operational Criteria (dB(A))</b>
<b>EPL ID</b>		<b>LA1, 1 minute (dB(A))</b>	<b>evening</b>
R8	11/3/2020	40	45
R4	11/3/2020	34	45
R17	11/3/2020	19	45
R2	11/3/2020	25	45
R3	12/3/2020	19	45
R17	12/3/2020	19	45
R2	12/3/2020	26	45
R3	12/3/2020	29	45
R4	12/3/2020	32	45
R8	12/3/2020	38	45

<i>Receiver</i>	<i>Date</i>	<i>Site Noise Level Contribution</i>	<i>Operational Criteria (dB(A))</i>
<b>EPL ID</b>		<b>LAeq, 15 minute (dB(A))</b>	<b>daytime</b>
R4	5/11/19	20	35
R17	5/11/19	20	35
R17	5/11/19	22	35
R3	5/11/19	26	35
R3	5/11/19	26	35
R2	5/11/19	24	35
R2	5/11/19	21	41
R4	5/11/19	20	41
R17	5/11/19	18	35
R17	5/11/19	19	35
R3	5/11/19	22	35
R3	5/11/19	23	35
R2	6/11/19	28	35
R2	6/11/19	22	35
R4	6/11/19	23	35
R17	6/11/19	28	35
R17	6/11/19	21	35

Peppertree Quarry Environmental Monitoring Report

R3	6/11/19	22	35
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<i>Receiver</i>	<i>Date</i>	<i>Site Noise Level Contribution</i>	<i>Operational Criteria (dB(A))</i>
<b>EPL ID</b>		<b>LAeq, 15 minute (dB(A))</b>	<b>evening</b>
R3	6/11/19	27	35
R2	6/11/19	26	35
R2	6/11/19	30	35
R4	6/11/19	20	35
R17	6/11/19	25	35
R17	6/11/19	26	35
R3	6/11/19	26	35
R3	7/11/19	27	35
R2	7/11/19	32	35
R2	7/11/19	33	35

<b>Receiver</b>	<b>Date</b>	<b>Site Noise Level Contribution</b>	<b>Operational Criteria (dB(A))</b>
<b>EPL ID</b>		<b>LA1, 1 minute (dB(A))</b>	<b>evening</b>
R4	6/11/2019	20	45
R17	6/11/19	24	45
R17	16/11/19	26	45
R3	6/11/19	26	45
R3	7/11/19	27	45
R2	7/11/19	32	45
R2	7/11/19	33	45

<i>Receiver</i>	<i>Date</i>	<i>Site Noise Level Contribution</i>	<i>Operational Criteria (dB(A))</i>
<b>EPL ID</b>		<b>LAeq, 15 minute (dB(A))</b>	<b>daytime</b>
R17	6/8/2019	20	35
R2	6/8/2019	30	35
R3	6/8/2019	23	35
R8	6/8/2019	22	41
R4	6/8/2019	23	35
R17	7/8/2019	32	35
R17	7/8/2019	31	35
R2	7/8/2019	28	35
R2	7/8/2019	31	35
R3	7/8/2019	27	35
R3	7/8/2019	30	35
R8	7/8/2019	29	41
R8	7/8/2019	28	41
R4	7/8/2019	26	35
R4	7/8/2019	26	35



Peppertree Quarry Environmental Monitoring Report

<i>Receiver</i>	<i>Date</i>	<i>Site Noise Level Contribution</i>	<i>Operational Criteria (dB(A))</i>
<b>EPL ID</b>		<b>LAeq, 15 minute (dB(A))</b>	<b>evening</b>
R17	7/8/2019	26	35
R17	7/8/2019	26	35
R3	7/8/2019	20	35
R3	7/8/2019	23	35
R2	7/8/2019	31	35
R2	7/8/2019	31	35
R4	7/8/2019	23	35
R4	7/8/2019	22	35
R8	8/8/2019	34	35
R8	8/8/2019	35	35
R17	8/8/2019	29	35
R17	8/8/2019	28	35
R2	8/8/2019	26	35
R2	8/8/2019	25	35
R3	8/8/2019	22	35
R3	8/8/2019	23	35
R4	8/8/2019	22	35
R4	8/8/2019	22	35
R8	8/8/2019	18	35
R8	8/8/2019	27	35

<b>Receiver</b>	<b>Date</b>	<b>Site Noise Level Contribution</b>	<b>Operational Criteria (dB(A))</b>
<b>EPL ID</b>		<b>LA1, 1 minute (dB(A))</b>	<b>evening</b>
R3	7/8/2019	23	45
R2	7/8/2019	31	45
R2	7/8/2019	30	45
R4	7/8/2019	23	45
R4	7/8/2019	21	45
R8	8/8/2019	39	45
R8	8/8/2019	41	45
R17	8/8/2019	36	45
R17	8/8/2019	31	45
R2	8/8/2019	27	45
R2	8/8/2019	25	45
R3	8/8/2019	22	45
R3	8/8/2019	23	45
R4	8/8/2019	22	45
R4	8/8/2019	22	45
R8	8/8/2019	18	45
R8	8/8/2019	31	45

Peppertree Quarry Environmental Monitoring Report

<i>Receiver</i>	<i>Date</i>	<i>Site Noise Level Contribution</i>	<i>Operational Criteria (dB(A))</i>
<b>EPL ID</b>		<b>LAeq, 15 minute (dB(A))</b>	<b>daytime</b>
R17	7/5/2019	26	35
R17	7/5/2019	28	35
R2	7/5/2019	29	35
R3	7/5/2019	26	35
R2	7/5/2019	33	35
R3	7/5/2019	24	35
R4	7/5/2019	24	35
R8	7/5/2019	24	41
R4	7/5/2019	26	35
R8	7/5/2019	24	41
R8	8/5/2019	35	41
R4	8/5/2019	31	35
R8	8/5/2019	39	41
R4	8/5/2019	33	35
R17	8/5/2019	28	35
R17	8/5/2019	24	35
R2	8/5/2019	33	35
R3	8/5/2019	29	35
R2	8/5/2019	32	35
R3	8/5/2019	30	35

<i>Receiver</i>	<i>Date</i>	<i>Site Noise Level Contribution</i>	<i>Operational Criteria (dB(A))</i>
<b>EPL ID</b>		<b>LAeq, 15 minute (dB(A))</b>	<b>evening</b>
R3	8/5/2019	30	35
R4	8/5/2019	23	35
R8	8/5/2019	23	35
R4	8/5/2019	23	35
R8	8/5/2019	18	35
R4	8/5/2019	24	35
R17	8/5/2019	31	35
R17	8/5/2019	31	35
R3	8/5/2019	20	35
R2	8/5/2019	27	35
R3	9/5/2019	21	35
R2	9/5/2019	27	35
R8	9/5/2019	22	35
R4	9/5/2019	20	35
R8	9/5/2019	21	35
R4	9/5/2019	19	35
R8	9/5/2019	21	35
R17	9/5/2019	33	35
R17	9/5/2019	33	35
R3	9/5/2019	21	35
R2	9/5/2019	26	35

Peppertree Quarry Environmental Monitoring Report

R3	9/5/2019	22	35
R2	9/5/2019	28	35

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LA1, 1 minute (dB(A))	evening
R17	8/5/2019	34	45
R17	8/5/2019	34	45
R3	8/5/2019	20	45
R2	8/5/2019	27	45
R3	8/5/2019	21	45
R2	8/5/2019	27	45
R8	9/5/2019	28	45
R4	9/5/2019	20	45
R8	9/5/2019	28	45
R4	9/5/2019	20	45
R8	9/5/2019	29	45
R17	9/5/2019	38	45
R17	9/5/2019	38	45
R3	9/5/2019	21	45
R2	9/5/2019	26	45
R3	9/5/2019	22	45
R2	9/5/2019	28	45

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LAeq, 15 minute (dB(A))	daytime
R8	13/2/2019	20.9	41
R8	13/2/2019	22.2	41
R8	13/2/2019	24.1	41
R4	13/2/2019	22.4	35
R8	13/2/2019	29.2	41
R4	13/2/2019	22.6	35
R8	13/2/2019	26	41
R4	13/2/2019	23	35
R4	13/2/2019	22.9	35
R3	13/2/2019	26.4	35
R3	13/2/2019	26.5	35
R17	13/2/2019	20.3	35
R3	13/2/2019	26.3	35
R17	13/2/2019	19.2	35
R3	13/2/2019	29.5	35
R17	13/2/2019	20.5	35
R3	13/2/2019	24.3	35
R3	13/2/2019	23.8	35
R2	13/2/2019	26.8	35
R2	13/2/2019	26.6	35

## Peppertree Quarry Environmental Monitoring Report

<i>Receiver</i>	<i>Date</i>	<i>Site Noise Level Contribution</i>	<i>Operational Criteria (dB(A))</i>
<b>EPL ID</b>		<b>LAeq, 15 minute (dB(A))</b>	<b>evening</b>
R17	13/2/2019	23.1	35
R17	13/2/2019	13.7	35
R17	13/2/2019	13.8	35
R3	13/2/2019	26	35
R3	13/2/2019	28.5	35
R3	13/2/2019	23	35
R2	14/2/2019	16.5	35
R2	14/2/2019	13	35
R2	14/2/2019	11.7	35
R4	14/2/2019	23.8	35
R4	14/2/2019	25.9	35
R4	14/2/2019	27.1	35
R8	14/2/2019	31.5	35
R8	14/2/2019	29.6	35
R8	14/2/2019	33.1	35

<b>Receiver</b>	<b>Date</b>	<b>Site Noise Level Contribution</b>	<b>Operational Criteria (dB(A))</b>
<b>EPL ID</b>		<b>LA1, 1 minute (dB(A))</b>	<b>evening</b>
R17	13/2/2019	23.1	45
R17	13/2/2019	13.5	45
R17	13/2/2019	13.6	45
R3	13/2/2019	31.7	45
R3	13/2/2019	32.5	45
R3	14/2/2019	31.8	45
R2	14/2/2019	19.7	45
R2	14/2/2019	13	45
R2	14/2/2019	18.1	45
R4	14/2/2019	24.1	45
R4	14/2/2019	30.6	45
R4	14/2/2019	36.3	45
R8	14/2/2019	38.7	45
R8	14/2/2019	38.1	45
R8	14/2/2019	37.4	45

<i>Receiver</i>	<i>Date</i>	<i>Site Noise Level Contribution</i>	<i>Operational Criteria (dB(A))</i>
<b>EPL ID</b>		<b>LAeq, 15 minute (dB(A))</b>	<b>daytime</b>
R17	27/11/18	22	35
R2	27/11/18	32	35
R3	27/11/18	19	35
R4	27/11/18	33	35
R8	27/11/18	35	41
R17	29/11/18	26	35

## Peppertree Quarry Environmental Monitoring Report

R17	29/11/18	24	35
R3	29/11/18	31	35
R3	29/11/18	31	35
R2	29/11/18	27	35
R2	29/11/18	26	35
R8	29/11/18	33	41
R8	29/11/18	29	41
R4	29/11/18	31	35
R4	29/11/18	33	35

<i>Receiver</i>	<i>Date</i>	<i>Site Noise Level Contribution</i>	<i>Operational Criteria (dB(A))</i>
<b>EPL ID</b>		<b>LAeq, 15 minute (dB(A))</b>	<b>evening</b>
R3	29/11/18	30	35
R2	29/11/18	32	35
R8	29/11/18	25	41
R4	29/11/18	33	35
R17	29/11/18	21	35

<b>Receiver</b>	<b>Date</b>	<b>Site Noise Level Contribution</b>	<b>Operational Criteria (dB(A))</b>
<b>EPL ID</b>		<b>LA1, 1 minute (dB(A))</b>	<b>evening</b>
R3	29/11/18	30	45
R3	29/11/18	32	45
R8	29/11/18	25	45
R8	29/11/18	33	45
R17	29/11/18	21	45

<i>Receiver</i>	<i>Date</i>	<i>Site Noise Level Contribution</i>	<i>Operational Criteria (dB(A))</i>
<b>EPL ID</b>		<b>LAeq, 15 minute (dB(A))</b>	<b>daytime</b>
R3	31/7/18	31.2	35
R8	31/7/18	31.0	41
R8	31/7/18	31.0	41
R3	31/7/18	31.5	35
R2	31/7/18	32.0	35
R2	31/7/18	29.7	35
R17	31/7/18	27.7	35
R17	31/7/18	26.1	35
R4	31/7/18	31.9	35
R4	31/7/18	29.6	35
R2	1/8/18	25.9	35
R2	1/8/18	27.1	35
R17	1/8/18	24.9	35
R17	1/8/18	23.8	35
R3	1/8/18	24.1	35

Peppertree Quarry Environmental Monitoring Report

R3	1/8/18	28.8	35
R8	1/8/18	28.7	41
R8	1/8/18	29.3	41
R4	1/8/18	28.2	35
R4	1/8/18	27.3	35

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
<b>EPL ID</b>		<b>Leq, 15 minute (dB(A))</b>	<b>evening / night</b>
R2	1/8/18	26.3	35
R2	1/8/18	24.9	35
R17	1/8/18	17.1	35
R17	1/8/18	20.0	35
R3	1/8/18	33.3	35
R3	1/8/18	31.3	35
R8	1/8/18	33.3	35
R8	1/8/18	33.6	35

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
<b>EPL ID</b>		<b>Leq, 15 minute (dB(A))</b>	<b>evening / night</b>
R17	1/8/18	15.2	35
R4	1/8/18	31.4	35
R4	1/8/18	27.2	35
R8	1/8/18	14.9	35
R3	2/8/18	30.4	35
R33	2/8/18	26.8	35
R8	2/8/18	31.2	35
R2	2/8/18	18.1	35
R8	2/8/18	29.0	35
R2	2/8/18	23.8	35
R8	2/8/18	31.6	35
R3	2/8/18	33.5	35
R8	2/8/18	31.5	35
R3	2/8/18	35.0	35
R17	2/8/18	12.8	35
R4	2/8/18	32.5	35
R4	2/8/18	32.5	35
R17	2/8/18	13.4	35

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
<b>EPL ID</b>		<b>LA1, 1 minute (dB(A))</b>	<b>evening</b>
R3	1/8/18	38.3	45
R3	1/8/18	36.3	45
R8	1/8/18	38.3	45
R8	1/8/18	38.6	45

## Peppertree Quarry Environmental Monitoring Report

R17	1/8/18	15.2	45
R4	1/8/18	41.4	45
R4	1/8/18	37.2	45
R8	1/8/18	14.9	45
R3	2/8/18	35.4	45
R3	2/8/18	36.8	45
R8	2/8/18	31.2	45
R2	2/8/18	18.1	45
R8	2/8/18	29.0	45
R2	2/8/18	23.8	45
R8	2/8/18	31.6	45
R3	2/8/18	38.5	45
R8	2/8/18	31.5	45
R3	2/8/18	40.0	45
R17	2/8/18	17.8	45
R4	2/8/18	37.5	45
R4	2/8/18	37.5	45
R17	2/8/18	18.4	45

Peppertree Quarry Environmental Monitoring Report

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LAeq, 15 minute (dB(A))	daytime
R17	1/5/2018	<30	35
R2	1/5/2018	<30	35
R3	1/5/2018	<30	35
R8	1/5/2018	31	41
R4	1/5/2018	31	35
R17	2/5/2018	31	35
R2	2/5/2018	31	35
R3	2/5/2018	<30	35
R8	2/5/2018	33	41
R4	2/5/2018	<30	35

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		Leq, 15 minute (dB(A))	evening / night
R17	2/5/2018	<30	35
R17	2/5/2018	32	35
R2	2/5/2018	32	35
R2	3/5/2018	33	35
R8	3/5/2018	<30	35
R8	3/5/2018	<30	35
R4	3/5/2018	<30	35
R4	3/5/2018	<30	35
R3	3/5/2018	<30	35
R3	3/5/2018	<30	35

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LA1, 1 minute (dB(A))	evening
R2	2/5/2018	32	45
R2	3/5/2018	33	45
R8	3/5/2018	<30	45
R8	3/5/2018	<30	45
R17	2/5/2018	<30	45
R17	2/5/2018	32	45
R4	3/5/2018	<30	45
R4	3/5/2018	<30	45
R3	3/5/2018	<30	45
R3	3/5/2018	<30	45



Peppertree Quarry Environmental Monitoring Report

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LAeq, 15 minute (dB(A))	daytime
R2	30/01/2018	26	35
R2	30/01/2018	26	35
R2	31/01/2018	16	35
R2	31/01/2018	18	35
R8	30/01/2018	24	41
R8	30/01/2018	22	41
R8	31/01/2018	25	41
R8	31/01/2018	35	41
R17	30/01/2018	22	35
R17	30/01/2018	24	35
R17	31/01/2018	15	35
R17	31/01/2018	11	35
R4	30/01/2018	19	35
R4	30/01/2018	22	35
R4	31/01/2018	28	35
R4	31/01/2018	29	35
R3	30/01/2018	23	35
R3	30/01/2018	25	35
R3	31/01/2018	31	35
R3	31/01/2018	30	35

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		Leq, 15 minute (dB(A))	evening / night
R2	1/02/2018	19	35
R2	1/02/2018	20	35
R8	31/01/2018	30	35
R8	31/01/2018	30	35
R17	1/02/2018	15	35
R17	1/02/2018	18	35
R4	31/01/2018	27	35
R4	31/01/2018	28	35
R3	1/02/2018	24	35
R3	1/02/2018	24	35

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LA1, 1 minute (dB(A))	evening
R2	1/02/2018	19	45
R2	1/02/2018	20	45
R8	31/01/2018	33	45
R8	31/01/2018	33	45
R17	1/02/2018	17	45

Peppertree Quarry Environmental Monitoring Report

R17	1/02/2018	19	45
R4	31/01/2018	28	45
R4	31/01/2018	29	45
R3	1/02/2018	25	45
R3	1/02/2018	26	45

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LAeq, 15 minute (dB(A))	daytime
R17	12-Dec-17	20	35
R17	12-Dec-17	19	35
R2	12-Dec-17	23	35
R2	12-Dec-17	23	35
R3	12-Dec-17	25	35
R3	12-Dec-17	25	35
R4	12-Dec-17	30	35
R4	12-Dec-17	23	35
R17	13-Dec-17	27	35
R2	13-Dec-17	30	35
R3	13-Dec-17	25	35
R8	13-Dec-17	26	35
R4	13-Dec-17	26	35

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		Leq, 15 minute (dB(A))	evening / night
R8	12-Dec-2017	21	35
R8	12-Dec-2017	18	35
R8	13-Dec-2017	31	35
R8	13-Dec-2017	29	35
R4	13-Dec-2017	27	35
R4	13-Dec-17	27	35
R3	13-Dec-17	30	35
R3	13-Dec-17	30	35
R3	14-Dec-17	29	35
R3	14-Dec-17	29	35
R2	14-Dec-17	30	35
R2	14-Dec-17	28	35
R17	14-Dec-17	22	35
R17	14-Dec-17	21	35
R17	14-Dec-17	20	35
R8	14-Dec-17	26	35
R8	14-Dec-17	28	35

Peppertree Quarry Environmental Monitoring Report

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LA1, 1 minute (dB(A))	evening
R4	13-Dec-17	31	45
R4	13-Dec-17	34	45
R3	13-Dec-17	34	45
R3	13-Dec-17	33	45
R3	14-Dec-17	33	45
R3	14-Dec-17	34	45
R2	14-Dec-17	32	45
R2	14-Dec-17	26	45
R17	14-Dec-17	25	45
R17	14-Dec-17	24	45
R17	14-Dec-17	30	45
R8	14-Dec-17	32	45
R8	14-Dec-17	31	45

Receiver	Date	Predicted Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LAeq, 15 minute (dB(A))	daytime
R8	11 <sup>th</sup> July 2017	27	41
R4	11 <sup>th</sup> July 2017	27	35
R17	11 <sup>th</sup> July 2017	16	35
R2	11 <sup>th</sup> July 2017	25	35
R3	11 <sup>th</sup> July 2017	29	35
R8	12 <sup>th</sup> July 2017	28	41
R4	12 <sup>th</sup> July 2017	28	35
R17	12 <sup>th</sup> July 2017	23	35
R2	12 <sup>th</sup> July 2017	33	35
R3	12 <sup>th</sup> July 2017	38*	35
R3	12 <sup>th</sup> July 2017	43*	35
R3	12 <sup>th</sup> July 2017	26	35

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		Leq, 15 minute (dB(A))	evening
R8	13 <sup>th</sup> July 2017	31	35
R8	13 <sup>th</sup> July 2017	32	35
R4	13 <sup>th</sup> July 2017	35	35
R4	13 <sup>th</sup> July 2017	27	35
R4	13 <sup>th</sup> July 2017	35	35
R17	12 <sup>th</sup> July 2017	16	35
R17	12 <sup>th</sup> July 2017	18	35
R2	13 <sup>th</sup> June 2017	27	35
R2	13 <sup>th</sup> June 2017	29	35

## Peppertree Quarry Environmental Monitoring Report

R3	12 <sup>th</sup> July 2017	32	35
R3	12 <sup>th</sup> July 2017	33	35
R3	12 <sup>th</sup> July 2017	33	35
R3	13 <sup>th</sup> July 2017	34	35

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LA1, 1 minute (dB(A))	evening
R8	12 <sup>th</sup> July 2017	35	45
R8	12 <sup>th</sup> July 2017	36	45
R4	13 <sup>th</sup> July 2017	31	45
R4	13 <sup>th</sup> July 2017	39	45
R4	13 <sup>th</sup> July 2017	39	45
R17	12 <sup>th</sup> July 2017	20	45
R17	12 <sup>th</sup> July 2017	22	45
R2	13 <sup>th</sup> July 2017	31	45
R2	13 <sup>th</sup> July 2017	33	45
R3	12 <sup>th</sup> July 2017	36	45
R3	12 <sup>th</sup> July 2017	37	45
R3	13 <sup>th</sup> July 2017	39	45
R3	13 <sup>th</sup> July 2017	38	45

Note \*two results were over the operational criteria however inversion conditions were in place and therefore the readings are not valid.

Receiver	Date	Predicted Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LAeq, 15 minute (dB(A))	daytime
R8	16 <sup>th</sup> May 2017	16	41
R4	16 <sup>th</sup> May 2017	26	35
R17	16 <sup>th</sup> May 2017	17	35
R2	16 <sup>th</sup> May 2017	26	35
R3	16 <sup>th</sup> May 2017	21	35
R8	17 <sup>th</sup> May 2017	19	41
R8	17 <sup>th</sup> May 2017	17	41
R4	17 <sup>th</sup> May 2017	17	35
R4	17 <sup>th</sup> May 2017	17	35
R17	17 <sup>th</sup> May 2017	11	35
R17	17 <sup>th</sup> May 2017	9	35
R2	17 <sup>th</sup> May 2017	24	35
R2	17 <sup>th</sup> May 2017	23	35
R3	17 <sup>th</sup> May 2017	27	35
R3	17 <sup>th</sup> May 2017	19	35

## Peppertree Quarry Environmental Monitoring Report

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LA1, 1 minute (dB(A))	evening
R8	18 <sup>TH</sup> May 2017	35	45
R8	18 <sup>TH</sup> May 2017	34	45
R4	18 <sup>TH</sup> May 2017	26	45
R4	18 <sup>TH</sup> May 2017	27	45
R17	18 <sup>TH</sup> May 2017	13	45
R17	18 <sup>TH</sup> May 2017	14	45
R2	18 <sup>TH</sup> May 2017	27	45
R2	18 <sup>TH</sup> May 2017	28	45
R3	18 <sup>TH</sup> May 2017	42	45
R3	18 <sup>TH</sup> May 2017	25	45

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		Leq, 15 minute (dB(A))	evening
R8	17 <sup>TH</sup> May 2017	33	35
R8	17 <sup>TH</sup> May 2017	32	35
R4	17 <sup>TH</sup> May 2017	26	35
R4	17 <sup>TH</sup> May 2017	27	35
R17	18 <sup>TH</sup> May 2017	13	35
R17	18 <sup>TH</sup> May 2017	14	35
R2	18 <sup>TH</sup> May 2017	27	35
R2	18 <sup>TH</sup> May 2017	28	35
R3	18 <sup>TH</sup> May 2017	33	35
R3	18 <sup>TH</sup> May 2017	24	35

Receiver	Date	Predicted Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LAeq, 15 minute (dB(A))	daytime
R17	9th February 2017	23	35
R17	9th February 2017	22	35
R3	9th February 2017	28	35
R3	9th February 2017	29	35
R2	9th February 2017	27	35
R2	9th February 2017	27	35
R4	9th February 2017	22	35
R4	9th February 2017	21	35
R17	9th February 2017	21	35
R8	9th February 2017	26	41
R8	9th February 2017	27	41
R17	9th February 2017	20	35

## Peppertree Quarry Environmental Monitoring Report

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		Leq, 15 minute (dB(A))	evening
R3	10th February 2017	29	35
R3	10th February 2017	30	35
R2	10th February 2017	26	35
R2	10th February 2017	25	35
R17	9th February 2017	16	35
R17	9th February 2017	17	35
R17	9th February 2017	19	35
R17	9th February 2017	23	35
R17	9th February 2017	24	35
R17	9th February 2017	22	35
R17	9th February 2017	21	35
R4	10th February 2017	26	35
R4	10th February 2017	27	35
R4	10th February 2017	27	35
R17	10th February 2017	23	35

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LA1, 1 minute (dB(A))	evening
R4	9th February 2017	26	45
R4	9th February 2017	27	45
R4	9th February 2017	27	45
R17	9th February 2017	23	45
R17	9th February 2017	23	45
R17	9th February 2017	26	45
R17	9th February 2017	26	45
R17	9th February 2017	33	45
R17	9th February 2017	34	45
R17	9th February 2017	32	45
R17	9th February 2017	26	45
R3	9th February 2017	34	45
R2	9th February 2017	35	45
R2	9th February 2017	31	45
R2	9th February 2017	30	45

Receiver	Date	Predicted Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LAeq, 15 minute (dB(A))	daytime
R17	26th October 2016	17	35
R17	26th October 2016	15	35
R3	26th October 2016	21	35

## Peppertree Quarry Environmental Monitoring Report

R3	26th October 2016	22	35
R2	26th October 2016	28	35
R2	26th October 2016	30	35
R4	26th October 2016	25	35
R4	26th October 2016	25	35
R8	26th October 2016	26	41
R8	26th October 2016	28	41
R3	25th October 2016	27	35
R2	25th October 2016	31	35
R17	25th October 2016	23	35
R4	25th October 2016	22	35
R8	25th October 2016	26	41

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LA1, 1 minute (dB(A))	evening
R17	26 <sup>th</sup> October 2016	26	45
R17	26 <sup>th</sup> October 2016	25	45
R3	26 <sup>th</sup> October 2016	28	45
R3	27 <sup>th</sup> October 2016	28	45
R2	27 <sup>th</sup> October 2016	31	45
R2	27 <sup>th</sup> October 2016	31	45
R4	27 <sup>th</sup> October 2016	26	45
R4	27 <sup>th</sup> October 2016	26	45
R8	27 <sup>th</sup> October 2016	24	45
R8	27 <sup>th</sup> October 2016	34	45
R17	27 <sup>th</sup> October 2016	23	45
R17	27 <sup>th</sup> October 2016	22	45

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LAeq, 15 minute (dB(A))	evening
R17	26th October 2016	26	35
R17	26th October 2016	25	35
R3	26th October 2016	28	35
R3	27th October 2016	28	35
R2	27th October 2016	31	35
R2	27th October 2016	31	35
R4	27th October 2016	26	35
R4	27th October 2016	26	35
R8	27th October 2016	24	35
R8	27th October 2016	25	35
R17	27th October 2016	23	35
R17	27th October 2016	22	35

## Peppertree Quarry Environmental Monitoring Report

Receiver	Date	Predicted Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LAeq, 15 minute (dB(A))	daytime
16	16th August 2016	22	41
6	16th August 2016	29	35
2	16th August 2016	24	39
5	16th August 2016	32	35
16	17th August 2016	25	41
6	17th August 2016	30	35
2	17th August 2016	25	39
5	17th August 2016	30	35
16	17th August 2016	25	41
6	17th August 2016	31	35
2	17th August 2016	26	39
5	17th August 2016	32	35

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LA1, 1 minute (dB(A))	evening
5	17 <sup>th</sup> August 2016	34	45
5	17 <sup>th</sup> August 2016	33	45
5	18 <sup>th</sup> August 2016	21	45
5	18 <sup>th</sup> August 2016	20	45
6	17 <sup>th</sup> August 2016	34	45
6	17 <sup>th</sup> August 2016	34	45

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LAeq, 15 minute (dB(A))	evening
2	18th August 2016	32	35
5	18th August 2016	21	35
2	18th August 2016	33	35
2	18th August 2016	24	35
5	18th August 2016	20	35
6	17th August 2016	34	35
5	17th August 2016	34	35
6	17th August 2016	34	35
5	17th August 2016	33	35

Receiver	Date	Predicted Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LAeq, 15 minute (dB(A))	daytime
16	10th May 2016	30	41
6	10th May 2016	31	35
2	10th May 2016	31	39



## Peppertree Quarry Environmental Monitoring Report

5	10th May 2016	26	35
16	10th May 2016	23	41
6	11th May 2016	33	35
2	11th May 2016	28	39
5	11th May 2016	25	35
16	11th May 2016	23	41
6	11th May 2016	32	35
2	11th May 2016	23	39
5	11th May 2016	26	35
16	11th May 2016	20	41

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
<b>EPL ID</b>		<b>LA1, 1 minute (dB(A))</b>	<b>evening</b>
2	12 <sup>th</sup> May 2016	28	45
5	12 <sup>th</sup> May 2016	24	45
5	12 <sup>th</sup> May 2016	30	45
16	12 <sup>th</sup> May 2016	26	45
6	12 <sup>th</sup> May 2016	26	45

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
<b>EPL ID</b>		<b>Leq, 15 minute (dB(A))</b>	<b>evening</b>
2	11th may 2016	28	35
16	11th may 2016	24	35
5	12th May 2016	26	35
6	12th May 2016	30	35
5	12th May 2016	26	35

Receiver	Date	Predicted Site Noise Level Contribution	Operational Criteria (dB(A))
<b>EPL ID</b>		<b>LAeq, 15 minute (dB(A))</b>	<b>daytime</b>
16	2 <sup>nd</sup> February 2016	24	41
6	2 <sup>nd</sup> February 2016	22	35
2	2 <sup>nd</sup> February 2016	22	39
5	2 <sup>nd</sup> February 2016	21	35
16	3rd February 2016	25	41
6	3rd February 2016	24	35
2	3rd February 2016	17	39
5	3rd February 2016	19	35
16	3rd February 2016	31	41
6	3rd February 2016	28	35
2	3rd February 2016	20	39
5	3rd February 2016	18	35

Peppertree Quarry Environmental Monitoring Report

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		Leq, 15 minute (dB(A))	evening
2	3rd February 2016	27	35
5	3rd February 2016	34	35
2	3rd February 2016	26	35
5	3rd February 2016	33	35
6	4th February 2016	28	35
5	4th February 2016	31	35

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LA1, 1 minute (dB(A))	evening
2	4th February 2016	29	45
2	4th February 2016	28	45
5	4th February 2016	31	45
5	4th February 2016	38	45
5	4th February 2016	36	45
6	4th February 2016	29	45

Receiver	Date	Predicted Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LAeq, 15 minute (dB(A))	daytime
16	20 <sup>th</sup> October 2015	<32	41
6	20 <sup>th</sup> October 2015	<30	35
2	20 <sup>th</sup> October 2015	<30	39
5	20 <sup>th</sup> October 2015	<30	35
16	21 <sup>st</sup> October 2015 <sup>th</sup>	<31	41
6	21 <sup>st</sup> October 2015 <sup>th</sup>	<30	35
2	21 <sup>st</sup> October 2015 <sup>th</sup>	<30	39
5	21 <sup>st</sup> October 2015 <sup>th</sup>	<30	35

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		Leq, 15 minute (dB(A))	evening
2	21 <sup>st</sup> October 2015 <sup>th</sup>	<30	35
5	21 <sup>st</sup> October 2015 <sup>th</sup>	31	35
2	21 <sup>st</sup> October 2015 <sup>th</sup>	<33	35

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LA1, 1 minute (dB(A))	evening
2	21 <sup>st</sup> October 2015 <sup>th</sup>	<30	45
5	21 <sup>st</sup> October 2015 <sup>th</sup>	<33	45

## Peppertree Quarry Environmental Monitoring Report

2	21st October 2015 <sup>th</sup>	<35	45
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Receiver	Date	Predicted Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LAeq, 15 minute (dB(A))	daytime
16	21 <sup>st</sup> July 2015	<22	41
6	21 <sup>st</sup> July 2015	<33	35
2	21 <sup>st</sup> July 2015	<27	39
5	21 <sup>st</sup> July 2015	<26	35
16	22 <sup>nd</sup> July 2015	<27	41
16	22 <sup>nd</sup> July 2015	<29	41
2	22 <sup>nd</sup> July 2015	<35	39
2	22 <sup>nd</sup> July 2015	<32	39
2	22 <sup>nd</sup> July 2015	<28	39
6	22 <sup>nd</sup> July 2015	<30	35
6	22 <sup>nd</sup> July 2015	<31	35
5	22 <sup>nd</sup> July 2015	<22	35
5	22 <sup>nd</sup> July 2015	<22	35

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		Leq, 15 minute (dB(A))	evening
6	22 <sup>nd</sup> July 2015	<33	35
6	23 <sup>rd</sup> July 2015	<25	35
5	23 <sup>rd</sup> July 2015	<30	35
16	23 <sup>rd</sup> July 2015	<31	35
16	23 <sup>rd</sup> July 2015	<30	35

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LA1, 1 minute (dB(A))	evening
6	23 <sup>rd</sup> July 2015	<33	45
6	23 <sup>rd</sup> July 2015	<25	45
5	23 <sup>rd</sup> July 2015	<35	45
16	23 <sup>rd</sup> July 2015	<36	45
16	23 <sup>rd</sup> July 2015	<36	45

Receiver	Date	Predicted Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LAeq, 15 minute (dB(A))	daytime
16	8th April 2015	<30	41
6	8th April 2015	<30	35
2	8th April 2015	<30	39
5	8th April 2015	<30	35
16	9th April 2015	<30	41
16	9th April 2015	<30	41
2	9th April 2015	<30	39
2	9th April 2015	<30	39
6	9th April 2015	<30	35

## Peppertree Quarry Environmental Monitoring Report

5	9th April 2015	<30	35
Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		Leq, 15 minute (dB(A))	evening
2	10 <sup>th</sup> April 2015	<30	35
5	10 <sup>th</sup> April 2015	31	35
6	10 <sup>th</sup> April 2015	<30	35
16	10 <sup>th</sup> April 2015	<30	35

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LA1, 1 minute (dB(A))	evening
2	10 <sup>th</sup> April 2015	<30	45
5	10 <sup>th</sup> April 2015	39	45
6	10 <sup>th</sup> April 2015	<30	45
16	10 <sup>th</sup> April 2015	<30	45

Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		LAeq, 15 minute (dB(A))	daytime
16	3rd February 2015	28	41
6	3rd February 2015	25	35
2	3rd February 2015	25	39
5	3rd February 2015	27	35
2	4 <sup>th</sup> February 2015	29	39
2	4 <sup>th</sup> February 2015	29	39
5	4 <sup>th</sup> February 2015	27	35
5	4 <sup>th</sup> February 2015	27	35
6	4 <sup>th</sup> February 2015	<25	35
6	4 <sup>th</sup> February 2015	<25	35
16	4 <sup>th</sup> February 2015	32	41
16	4 <sup>th</sup> February 2015	32	41
Receiver	Date	Site Noise Level Contribution	Operational Criteria (dB(A))
EPL ID		Leq, 15 minute (dB(A))	evening
2	4th February 2015	28	35
2	4th February 2015	25	35
5	5th February 2015	<25	35
5	5th February 2015	<25	35
6	5th February 2015	<25	35
6	5th February 2015	<25	35
16	4 <sup>th</sup> February 2015	28	35
16	5 <sup>th</sup> February 2015	29	35

## Peppertree Quarry Environmental Monitoring Report

### Correction Log

Details of corrections made to published data due to incorrect or misleading data

<b>Date of data (Sample date)</b>	<b>Old Published data</b>	<b>Correct updated data</b>	<b>Reasons for update / correction</b>	<b>Update person</b>	<b>Date corrected data published</b>

## Peppertree Quarry Monitoring Locations.

### Noise Monitoring Locations

