



Contractor



DRAGADOS | AMERICAN BRIDGE INTERNATIONAL  
HOCHTIEF | MORRISON CONSTRUCTION

Project **FORTH REPLACEMENT CROSSING**

Document title

**AIR QUALITY MONITORING REPORT  
AUGUST 2018**

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## **1. INTRODUCTION**

- 1.1.** Air quality monitoring is being undertaken by FCBC during the construction of the Forth Replacement Crossing and the associated road network. This report details the air quality monitoring that is currently being undertaken across the site and presents the monitoring results for August 2018.
- 1.2.** Air quality monitoring during this period has been undertaken in accordance with the Code of Construction Practice (CoCP) and the Dust and Air Quality Management Plan (DAQMP) contained within the Environmental Management Plan (EMP).
- 1.3.** The Queensferry Crossing opened to traffic at the end of August 2017. Therefore, the monitoring regime was reduced and a number of monitors removed.

## 2. MONITORING EQUIPMENT AND LOCATIONS

**2.1.** Air quality is being monitored on site using Frisbee gauge dust deposition monitoring. Four Frisbee gauges are currently set up at sensitive locations across the site to measure dust deposition rates (Figure 1). Table 1 lists the air quality monitoring equipment present at each monitoring location, including the date it was installed.

**2.2.** Frequent environmental site inspections are also undertaken by members of the FCBC Environmental Department. These inspections include a dust check to assess the following:

- dust levels on site;
- suppression/dampening down; and
- transportation of materials.



**Figure 1: Example of an Installed Frisbee Gauge Meter**

**Table 1: Air Quality Monitoring Locations**

Ref:	Monitoring Location	Monitoring Equipment	Installation Date	Activities in August 2018
M10	Inchgarvie Lodge	Frisbee	22/08/11	<ul style="list-style-type: none"> <li>• South abutment finishing works</li> <li>• Internal Bridge finishing Works</li> </ul>
M11	Linn Mill	Frisbee	22/08/11	<ul style="list-style-type: none"> <li>• South abutment finishing works</li> <li>• Internal Bridge finishing Works</li> </ul>
M12	Clufflat	Frisbee	29/08/11	<ul style="list-style-type: none"> <li>• South abutment finishing works</li> <li>• Internal Bridge finishing Works</li> </ul>
M13	Clufflat Brae	Frisbee	21/09/11	

### 3. AIR QUALITY MONITORING RESULTS

#### 3.1. Frisbee Dust Deposition Results

**3.1.1.** The Frisbee dust deposition results for August 2018 have been presented in a chart and can be found in Appendix A. Two collections were made in August; these occurred on the 8<sup>th</sup> and 23<sup>rd</sup> August.

**3.1.2.** The site action level for the dust deposition rate has been set at 250 mg/m<sup>2</sup>/day. Exceedances of this level are treated as a potential incident and a review of the works in the vicinity of the site is instigated. A lower site review level has been set at 140 mg/m<sup>2</sup>/day. Where concentrations exceed the lower review threshold the site works are reviewed to ensure good practice is implemented; it is essentially a warning that additional controls may be required.



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**3.1.3.** During August there were no exceedances of either the site review or action levels.

### **3.2. Daily Dust Log and Environmental Inspections**

**3.2.1.** A summary of the daily dust log for August can be found in Appendix B.

**3.2.2.** During this period, full environmental inspections were also undertaken across the site and covered areas where works were being carried out.

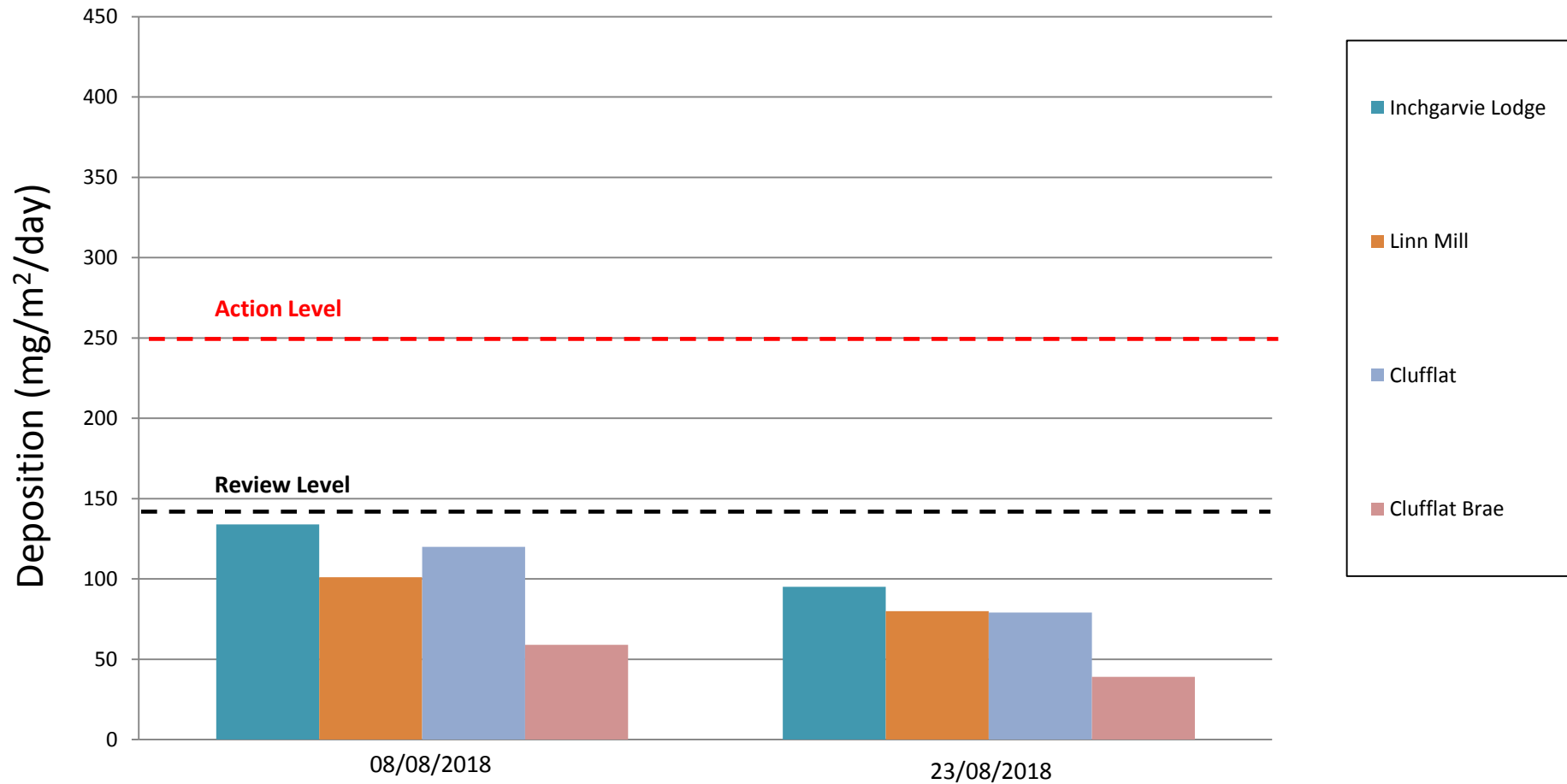


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## **APPENDIX A: FRISBEE GAUGE RESULTS**



# Frisbee Dust Deposition Results: August 2018





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## **APPENDIX B: DAILY DUST LOG**

### Daily Dust Log - North - August 2018

DATE	LOCATION	WIND	WIND DIRECTION	GROUND SURFACE	VISIBLE DUST	DUST DUE TO WORKS (if applicable)	CAUSES OF DUST (if applicable)	COMMENTS AND ACTIONS
01/08/2018	N	LIGHT	SW	WET	N			
02/08/2018	N	LIGHT	SW	DAMP	N			
03/08/2018	N	LIGHT	SW	DRY	N			
04/08/2018								
05/08/2018								
06/08/2018	N	LIGHT	SW	WET	N			
07/08/2018	N	LIGHT	SW	DRY	N			
08/08/2018	N	LIGHT	SW	DRY	N			
09/08/2018	N	LIGHT	SW	DRY	N			
10/08/2018	N	LIGHT	SW	DRY	N			
11/08/2018								
12/08/2018								
13/08/2018	N	LIGHT	S	WET	N			
14/08/2018	N	LIGHT	SW	WET	N			
15/08/2018	N	LIGHT	SW	WET	N			
16/08/2018	N	LIGHT	S	DAMP	N			
17/08/2018	N	LIGHT	SW	DAMP	N			
18/08/2018								
19/08/2018								
20/08/2018	N	LIGHT	S	DRY	N			
21/08/2018	N	LIGHT	W	DAMP	N			
22/08/2018	N	LIGHT	SW	DRY	N			
23/08/2018	N	LIGHT	W	DAMP	N			
24/08/2018	N	LIGHT	SW	DRY	N			
25/08/2018								
26/08/2018								
27/08/2018	N	LIGHT	W	DAMP	N			
28/08/2018	N	LIGHT	S	DRY	N			
29/08/2018	N	LIGHT	SW	DRY	N			
30/08/2018	N	LIGHT	S	DRY	N			
31/08/2018	N	LIGHT	S	DRY	N			

### Daily Dust Log - South - August 2018

DATE	LOCATION	WIND	WIND DIRECTION	GROUND SURFACE	VISIBLE DUST	DUST DUE TO WORKS (if applicable)	CAUSES OF DUST (if applicable)	COMMENTS AND ACTIONS
01/08/2018	S	LIGHT	SW	WET	N			
02/08/2018	S	LIGHT	SW	DAMP	N			
03/08/2018	S	LIGHT	SW	DRY	N			
04/08/2018								
05/08/2018								
06/08/2018	S	LIGHT	SW	WET	N			
07/08/2018	S	LIGHT	SW	DRY	N			
08/08/2018	S	LIGHT	SW	DRY	N			
09/08/2018	S	LIGHT	SW	DRY	N			
10/08/2018	S	LIGHT	SW	DRY	N			
11/08/2018								
12/08/2018								
13/08/2018	S	LIGHT	S	WET	N			
14/08/2018	S	LIGHT	SW	WET	N			
15/08/2018	S	LIGHT	SW	WET	N			
16/08/2018	S	LIGHT	S	DAMP	N			
17/08/2018	S	LIGHT	SW	DAMP	N			
18/08/2018								
19/08/2018								
20/08/2018	S	LIGHT	S	DRY	N			
21/08/2018	S	LIGHT	W	DAMP	N			
22/08/2018	S	LIGHT	SW	DRY	N			
23/08/2018	S	LIGHT	W	DAMP	N			
24/08/2018	S	LIGHT	SW	DRY	N			
25/08/2018								
26/08/2018								
27/08/2018	S	LIGHT	W	DAMP	N			
28/08/2018	S	LIGHT	S	DRY	N			
29/08/2018	S	LIGHT	SW	DRY	N			
30/08/2018	S	LIGHT	S	DRY	N			
31/08/2018	S	LIGHT	S	DRY	N			