

JULY DUST MONITORING REPORT CONCRUSH FACILITY, TERALBA Prepared for CONCRUSH PTY LTD Prepared by RCA Australia RCA ref 13001a-415/0

AUGUST 2021

RCA AUSTRALIA GEOTECHNICAL • ENVIRONMENTAL



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FIELD SHEET

APPENDIX B

LABORATORY REPORT SHEETS

RCA ref 13001a-415/0

26 August 2021

Concrush Pty Ltd 21 Racecourse Road Teralba NSW 2284

Attention: Mr Kevin Thompson

Geotechnical Engineering Engineering Geology Environmental Engineering Hydrogeology Construction Materials Testing Environmental Monitoring Noise & Vibration Occupational Hygiene

JULY DUST MONITORING REPORT CONCRUSH FACILITY, TERALBA

1 INTRODUCTION

This report presents the findings of dust monitoring undertaken at the Concrush resource recovery facility, situated in Teralba.

The site is an operational facility over approximately half of the monitored area; the remainder of the site is currently vacant land and has been approved for an expansion to the operations. At the time of site attendance there had been works undertaken on the expansion component of the site comprising the removal of vegetation, grading of the site including placement of material recovered from excavations as part of the development including excavation of a proposed sediment basin. Soil has been placed on the expansion component of the site from an excavation of a further sediment basin on the existing portion of the site.

The monitoring undertaken has been detailed in an Operational Air Quality Management Plan (OAQMP, Ref [1]) which has been submitted as part of the approval process.

2 SITE IDENTIFICATION AND DESCRIPTION

The site is described as at 21 Racecourse Road, Teralba and part Lot 2, DP 220347. Additional site details are shown in **Table 1** and the site extent is shown in **Figure 1** below.

IN1 – General Industrial		
Current: Existing Concrush facility and		
vacani/unused iand within the proposed		
Proposed: Expanded Concrush facility over		
entire portion of site		
Approximately 4.8ha		
(existing Concrush facility 2.4ha)		
Lot 1 DP220347		
Industrial – car wreckers operated by others.		
Part of Lot 2 DP220347		
Industrial – scrap metal recycling vard operated		
by others		
Racecourse Road and then Cockle Creek		
Main Northern Rail line and then wetlands		
Residential housing located approximately		
360m south east across Cockle Creek.		
Cockle Creek located approximately 35m east		
and wetland approximately 30m west		

Figure 1

Project Site Location and Layout

3 MONITORING DETAILS

A total of five (5) monitoring locations are situated on site as shown in **Figure 2** below. At four (4) of these locations (DG1-DG4) there are dust depositional bottles situated on stands installed in accordance with the relevant Australian Standard (Ref [3]). An additional, singular, dust gauge (DG5A) and a real time dust monitor are situated on the southern portion of the roof of the office adjacent to the weigh station.

Figure 2 Approximate Placement of Dust Deposition Gauges and Real Time Monitor.

Prior to the April monitoring round there were 'B' gauges that were managed by Concrush personnel to specifically monitor only the times that the Concrush facility is operational. A decision was made by Concrush management to cease the 'B' gauge monitoring due to inconsistent results through previous monitoring periods.

3.1 GUIDELINES

The NSW EPA guidelines (Ref [4]) nominates the criteria for depositional dust as detailed in **Table 2** below.

Table 2	Depositional Dust:	Impact Assessment Criteria
	Depositional Dust.	impuol / isocoomonic onicina

Average	Maximum increase in	Maximum total deposited	Sampling
Period	deposited dust level	dust level	Frequency
Annual	2 g/m ² /month	4 g/m ² /month	Monthly

The NSW EPA guidelines (Ref [4]) nominate additional criteria:

- PM_{2.5} daily average 0.025mg/m³, annual average 0.008 mg/m³.
- PM₁₀ daily average 0.05 mg/m³, annual average 0.025 mg/m³.
- TSP_{annual} average 0.09 mg/m³.

It is noted that there is no relevant Australian Standard for the methodology employed by the real time monitor, nor is the methodology included in the NSW EPA guidelines (Ref [5]); however, concentrations recorded by the real time monitor are considered appropriate for comparative purposes to trigger a review of dust control measures.

3.2 WEATHER

The real time dust monitors recorded conditions every five (5) minutes¹ continuously Fthrough until the end of the month. The monitor provides data with regards to wind direction and speed, air temperature, relative humidity and air pressure. Of note: the real time dust monitor malfunctioned in June such that data recording was stopped; this was rectified part the way through July with the first recording taken at 3:10 p.m. 12th July 2021. Recording stopped after 4:10 p.m. on the 25th July and recommenced at 3:27 p.m. on the 28th July and continued until the end of the month with no further issues.

A summary of the July results is presented in Table 3 below and Figure 3.

	Maximum (date and time)	Minimum (date and time)
Wind Speed (m/s)	8.46 (17 th July 3:00 p.m.)	0 (Multiple occasions)
Air Temperature (°C)	24.1 (28 th July 3:27 p.m)	1 (6:55 a.m.,7:50 a.m.)
Relative Humidity (%)	100 (multiple occasions)	26.5 (30 th July 3:30 p.m.)
Air Pressure (mBar)	1020.9 (30 th July 9:15 a.m., 9:25 a.m.)	994.4 (16 th July, 12:50 p.m., 1:05 p.m.)

Table 3July Weather Summary Data

¹ Data was not recorded at midnight for any of the days within the monitoring period.

Figure 3 Weather Summary 12th July – 31st July (noting missing data)

The wind speed was below the 8m/s (18km/h, Ref [1]) threshold for application of dust suppression measures for the period of the monitoring period (12th July to 31st of July 2021).

The winds were predominantly from the north and west with the highest winds from the north west north and west. The wind rose for the monitoring period is shown as **Figure 4**.

Figure 4 Wind Rose 12^{th} July – 31^{st} July

4 MONITORING RESULTS

4.1 DEPOSITIONAL DUST GAUGES

RCA collected the bottles from 7:05 a.m. to 10:30 a.m. on the 31^{st} of July 2021 which was the 31^{st} day following the previous collection of the gauges on the 30^{th} of June 2021. All gauges and funnels were observed to be unbroken. The field sheet is included as **Appendix A**.

The results of the monitoring at each of the locations for this month is presented below in Error! Reference source not found.. Laboratory report sheets are included in **Appendix B**

	Water Volume (mL)	Insoluble Solids (g/m²)	Ash (g/m²)	Combustible Matter (g/m ²)
DG1A	300	4.4	3.0	1.4
DG2A	500	0.9	0.6	0.3
DG3A	500	0.7	0.5	0.2
DG4A	460	2.9	2.1	0.8
DG5A	480	0.8	0.6	0.2

Table 4July Dust Monitoring Results

BOLD identifies where results of the 'A' gauges are in excess of annual average criterion (Ref [4]) which does not apply to individual results.

All concentrations of the 'A' gauges are below the rolling annual (August 2020 to July 2021) average criterion (Ref [4]), as shown on **Figure 5** below. Concentrations at four (4) of the locations have decreased compared to the previous rounds; the concentration in D4A has increased, potentially due to excavation works being undertaken in proximity to the gauge. The July concentrations at D1A remain over the annual average Ref [4]) noting that the criterion (Ref [4]) does not apply to individual results. Of note: D5A has not been monitored for the entire year, being installed prior to the January 2021 monitoring round, with the current annual average below the annual average criterion (Ref [4]).

Figure 5 Year to Date Dust Monitoring Results

The majority of detected insoluble solids are related to 'ash' which comprises non-combustible matter and would include the types of particles that may originate from the Concrush site however would also be present in dust from other sources. Some coal dust, such as may be originating from adjacent sites, may also remain in the 'ash' component of the sample.

It is noted that Concrush personnel have previously observed birds ('willy wagtails') using the gauges as baths and this may have had some impact on the water and dust content of the gauges.

4.2 REAL TIME DUST MONITOR

The real time dust monitors recorded conditions every five (5) minutes continuously through until the end of the month. The monitor provides data with regards to $PM_{2.5}$, PM_{10} and PM_{total} . The PM_{total} concentration has been compared to the TSP annual average criterion.

A summary of the July results is presented in **Table 5** below and **Figure 6** below presents the $PM_{2.5}$ and PM_{10} data. Noting that the results have been not obtained by a listed approved method for air quality (Ref [5]) and not considered directly comparable with criteria (Ref [4]):

- The daily average of PM_{2.5} for the period 12th July 31st July is below the relevant criteria (Ref [4]).
- There were two (2) PM₁₀ daily averages for the period 12th July 31st July in excess of the relevant criteria.
- The annual average of the data for the period 12th July 31st July is less than the relevant annual average criteria (Ref [4]) for PM_{2.5}, PM₁₀ and PM_{total}.

	Maximum (date and time)	Minimum (date and time)	Maximum Daily Average
PM _{2.5}	0.114	0	0.0059
	(14 th July 1:50p.m.)	(multiple occasions)	(29 th July)
PM10	1.142	0	0.073
	(21 st July 2:20 p.m.)	(multiple occasions)	(25 th July)
PM _{total}	2.038	0.008	0.049
	(21 st July 2:40 p.m.)	(12 th July 5:30 p.m.)	(24 th July)

Table 5July 12th to 31st Particle Summary Data

 \mbox{BOLD} identifies where results are in excess of criteria (Ref [4]). Concentrations in mg/m^3

Figure 6 $PM_{2.5}$ and PM_{10} 12^{th} July – 31^{st} July

 PM_{10} is the dominant particle size of those monitored by the real time monitor.

A summary of the July PM_{10} results in 15 minutes increments is presented **Figure 7** noting that this increment correlates with the alarms set to notify Concrush of:

- PM₁₀ >0.05 mg/m³
- Wind speed >5m/s.

Figure 7 PM_{10} 15 Minute Daily Average 12^{th} July – 31^{st} July (noting missing data)

The PM_{10} 15 minutes daily average appears to coincide with the maximum and minimum 5 minutes data with the highest 15 minutes average recorded on the 21st July and lowest recorded on 12th July.

The data has also been graphed for an eight (8) hour average based on a work day cycle and a twenty-four (24) hour average in **Figure 8** and **Figure 9** below.

Figure 8 PM_{10} 8 Hour Average 12^{st} July – 31^{st} July (noting missing data)

Figure 9 PM₁₀ 24 Hour Average 12st July – 31st July

The higher PM_{10} 8 hours average and 24 hours average appear to coincide with lower relative humidity and slightly higher wind speeds, with the wind direction primarily a northerly origin during the higher recording within the limited July monitoring period.

5 ASSESSMENT OF DUST MANAGEMENT EFFECTIVENESS

The monitoring data for the month of July indicates some uncertainty with regards to the effectiveness of dust controls. It is noted that the OAQMP (Ref [1]) has not yet been fully implemented as the expansion component of the site has not yet been commenced.

All the depositional dust gauges indicate results which are below the relevant criterion (Ref [4]) however the annual average in 1A shows an increasing trend and may exceed the criterion (Ref [4]) in the future.

The real time monitor, which does not use a NSW EPA approved (Ref [5]) sampling methodology, indicated that was two (2) any periods which were in excess of the 24hr average criterion (Ref [4]) for PM_{10} in the period of July which were measured. It is noted that rainfall data was recorded at Nobbys Head on about a third of the days in July, some of which were very small quantities and as such it is considered that there would be an increased potential for dust generation at the site. However due to the malfunction with the monitor, there is insufficient data to provide comment on the effectiveness of on site dust control measures during July.

RCA's observations on the 31st of July regarding site activities that are associated with dust generation and suppression were:

- Movement of aggregate by frontend loader, excavators and trucks.
- Spraying of roads and stockpiles were not undertaken due to wet weather prior to site attendance by RCA personnel.

RCA observed some dust during the time of fieldwork refer to photographs taken during the period RCA were on site as shown in **Figure 10** below. The dust appeared to be due to moving of stockpiled materials.

Figure 10 Site Photographs 30th July 2021

The wind at the time of inspection was from the north in the order of 0.5-2.6m/s and readings of $PM_{2.5}$ reached a maximum of 0.017mg/m³, PM_{10} reached a maximum of 0.253 mg/m³ and TSP reached a maximum of 0.304 mg/m³.

6 LIMITATIONS

This report has been prepared for Concrush Pty Ltd in accordance with an agreement with RCA Australia (RCA). The services performed by RCA have been conducted in a manner consistent with that generally exercised by members of its profession and consulting practice.

This report has been prepared for the sole use of Concrush Pty Ltd. The report may not contain sufficient information for purposes of other uses or for parties other than Concrush Pty Ltd. This report shall only be presented in full and may not be used to support objectives other than those stated in the report without written permission from RCA Australia.

Yours faithfully

RCA AUSTRALIA

ehn Kh

Adeleh Khoshzaban Environmental Engineer

Grooke

Fiona Brooker Environmental Services Manager

REFERENCES

- [1] RCA Australia, Operational Air Quality Management Plan (OAQMP) for Expansion of the Concrush Resource Recovery Facility, V2.0, July 2020.
- [2] Lake Macquarie City Council Local Environmental Plan 2014, under the Environmental Planning and Assessment Act 1979, published 2014.
- [3] AS/NZS 3580.1.1:2016 Methods for sampling and analysis of ambient air: Guide to siting air monitoring equipment, May 2016.
- [4] NSW EPA, Approved Methods for the Modelling and Assessment of Air Pollutants in NSW January 2017.
- [5] NSW EPA, Approved Methods for the Sampling and Analysis of Air Pollutants in NSW, January 2007.

Appendix A

Field Sheet

STATIC DUST GAUGES - FIELD SHEET

Job Number:	13001a
Month/Year:	July
Technician:	AKh
Field Sheet:	Page 1 of 1

Client: <u>Concrush</u>

- Location: <u>21 Racecourse Road, Teralba</u>
- Date On: 30/06/2021

Date Off: 30/07/2021

Field ID (Job No + Gauge No.)	Lab ID (To be entered by Lab Technician on receipt of samples)	Time Serviced	Funnel Number (if replaced)	Approx. Volume	Notes	Comments
DG1A		7:15		10%		IG
DG2A		7:25		10%		I
DG3A		8:45		10%		I
DG4A		10:30		10%		
DG5A		7:05		10%		I

Notes:

A = Animals (frogs, lizards, snakes) O = Organic Matter (specify) $B = Bird Droppings \qquad G = Gr \\ F = Feathers \qquad N = Nc$

G = Grass (and seeds) T = Tree Litter (N = No foreign mater I = Insects (and

T = Tree Litter (twigs, leaves, gum nuts) I = Insects (and spiders) MF = Invalid sample: Missing funnel FB = Invalid sample: Broken funnel EB = Invalid sample: Excess bird droppings RN = Invalid sample: Refer to notes below

Appendix B

Laboratory Report Sheets

Concrush Pty Ltd PO Box 362 Merewether NSW 2291

Attention Helen Milne

Project:	RCA ref 13001a-315/0		
Date:	20/08/2021		
Client reference:	Dust Report July 2021		
Received date:	30/07/2021	Number of samples:	5
Client order number:	N/A	Testing commenced:	30/07/2021

CERTIFICATE OF ANALYSIS

1 ANALYTICAL TEST METHODS

ANALYSIS	ANALYSIS METHOD UNITS		ANALYSING LABORATORY	NATA ANALYSIS / NON NATA
Dust Depositional Gauge (DDG)	ENV-LAB004*	g/m ² .month	RCA Laboratories - Environmental	ΝΑΤΑ

* The analytical procedures used by RCA Laboratories - Environmental are based on established internationally recognised procedures such as APHA and Australian Standards

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2 RESULTS

ANALYSIS	UNITS	DG1A	DG2A	DG3A	DG4A		
Depositional Dust Gauge (DDG)							
Sample Number	-	072113001a001	072113001a002	072113001a003	072113001a004		
Date sample started	-	30/06/2021	30/06/2021	30/06/2021	30/06/2021		
Date sample finished	-	30/07/2021	30/07/2021	30/07/2021	30/07/2021		
Sampled By		Client	Client	Client	Client		
Number of days	-	30	30	30	30		
Notes	-	IT	IT	IT	IT		
Insoluble solids	(g/m ² .month)	4.4	0.9	0.7	2.9		
Ash	(g/m ² .month)	3.0	0.6	0.5	2.1		
Combustible matter	(g/m ² .month)	1.4	0.3	0.2	0.8		
Volume	mL	300	500	500	460		

ANALYSIS	UNITS	DG5A
Depositional Dust Gauge (DDG)		
Sample Number	-	072113001a005
Date sample started	-	30/06/2021
Date sample finished	-	30/07/2021
Sampled By		Client
Number of days	-	30
Notes	-	I
Insoluble solids	(g/m ² .month)	0.8
Ash	(g/m ² .month)	0.6
Combustible matter	(g/m ² .month)	0.2
Volume	mL	480

Depositional Dust Gauge (DDG)

Analysis on samples is on an as received basis.

Depositional Dust Gauge (DDG) Qualifier Codes

I = Insects (eg. Ants, spiders T = Tree Litter (eg. Twigs. Leaves, gumnuts)

Depositional Dust Gauge Quality Control

A blank crucible, containing no deposited matter, is analysed with every batch of 10 samples analysed. The acceptable mass difference between the first and second weighing of a blank crucible, at the indicated steps, in the analysis procedure is +/- 0.001g.

Blank Crucibles Analysis

METHOD STEP	PRE-DETER	MINATION	DETERMII INSOLUB	NATION OF LE SOLIDS	DETERMINATION OF ASH AND COMBUSTIBLE MATTER				
	1 st weighing	2 nd weighing	1 st weighing	2 nd weighing	1 st weighing	2 nd weighing			
Crucible No.	Mass of Crucible(g)	Mass of Crucible(g)							
46	25.9997	25.9995	25.9994	25.9994	25.9989	25.9988			

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Please contact the undersigned if you have any queries.

Yours sincerely

Laura Schofield Environmental Laboratory Manager Robert Carr & Associates Pty Ltd Trading as RCA Laboratories – Environmental

NATA Accredited Laboratory 9811 Corporate Site Number 18077 Accredited for compliance with ISO/IEC 17025-Testing

Neena Tewari Senior Environmental Microbiologist Robert Carr & Associates Pty Ltd Trading as RCA Laboratories - Environmental

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RCA Internal Quality Review

General

- 1. Laboratory QC results for Method Blanks, Duplicates and Laboratory Control Samples are included in this QC report where applicable. Additional QC data maybe available on request.
- 2. RCA QC Acceptance / Rejection Criteria are available on request.
- 3. Proficiency Trial results are available on request.
- Actual PQLs are matrix dependant. Quoted PQLs may be raised where sample extracts are diluted due to interferences.
 When individual results are qualified in the body of a report, refer to the qualifier descriptions that follow.
- Samples were analysed on an 'as received' basis.
- 7. Sampled dates in this report are those listed on the COC or sample jars; if no sample dates are noted, the date the samples are received at the laboratory have been used.
- All soil results are reported on a dry basis, unless otherwise stated. (ACID SULPHATE SOILS)
 This report replaces any interim results previously issued.

Holding Times.

For samples received on the last day of holding time, notification of testing requirements should have been received at least 6 hours prior to sample receipt deadlines as stated on the Sample

Receipt Acknowledgment.

If the Laboratory did not receive the information in the required timeframe, and regardless of any other integrity issues, suitably qualified results may still be reported. Holding times apply from the date of sampling, therefore compliance to these may be outside the laboratory's control. ##NOTE: pH duplicates are reported as a range NOT as RPD

QC - ACCEPTANCE CRITERIA

RPD Duplicates: Global RPD Duplicates Acceptance Criteria is 30% however the following acceptance guidelines are equally applicable:

Results <10 times the LOR: No Limit

Results between 10-20 times the LOR: RPD must lie between 0-50%

Results >20 times the LOR: RPD must lie between 0-30%

QC DATA GENERAL COMMENTS

1. Where a result is reported as a less than (<), higher than the nominated LOR, this is due to either matrix interference, extract dilution required due to interferences or contaminant levels within the sample, high moisture content or insufficient sample provided.

2. Duplicate data shown within this report that states the word "BATCH" is a Batch Duplicate from outside of your sample batch, but within the laboratory sample batch at a 1:10 ratio. The Parent and Duplicate data shown is not data from your samples.

3. Duplicate RPD's are calculated from raw analytical data thus it is possible to have two sets of data.

Glossary

UNITS

mg/kg: milligrams per Kilogram ug/L: micrograms per litre ppm: Parts per million pb: Parts per billion %: Percentage org/100ml: Organisms per 100 millilitres NTU: Units MPN/100mL: Most Probable Number of organisms per 100 millilitres mg/L: milligrams per Litre

TERMS

Dry Where moisture has been determined on a solid sample the result is expressed on a dry basis. LOR Limit of Reporting. RPD Relative Percent Difference between two Duplicate pieces of analysis can be obtained upon request. QCS Quality Control Sample - reported as value recovery Method Blank In the case of solid samples these are performed on laboratory certified clean sands. In the case of water samples these are performed on de-ionised water. Duplicate A second piece of analysis from the same sample and reported in the same units as the result to show comparison. Batch Duplicate A second piece of analysis from a sample outside of the clients batch of samples but run within the laboratory batch of analysis. USEPA United States Environment Protection Authority APHA American Public Health Association COC Chain of Custody CP Client Parent - QC was performed on samples pertaining to this report NCP Non-Client Parent - QC performed on samples not pertaining to this report, QC is representative of the sequence or batch that client samples were analysed within < indicates less than > Indicates greater than ND Not Detected

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Client Name: Concrush Pty Ltd c/- RCA Enviro Client Site: 21 Racecourse Road, Teralba			_ Contact Nam _ Phone Numbe				ame: <u>Adeleh Khoshzaban (RCA Enviro)</u> nber: <u>0401 002 912</u>						Email Report To: <u>Adeleh.k@rca.com.au</u> Project Manager: <u>Fiona Brooker (RCA Enviro)</u> Expected Reporting Date:					o) Ise Only	1					
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0711301002	DG2A -	30/ 06 /2021 -	30/ 07 /2021	30/07/21	w	1	х																	
0721120010003	DG3A -	30/ 06 /2021 -	30/ 07 /2021	30/07/21	w	1	x																	
0771120210704	DG4A -	30/ 06 /2021 -	30/ 07 /2021	30/07/21	w	1	x								×				_					
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