

DUST MONITORING REPORT (JULY TO SEPTEMBER 2025)
CONCRUSH FACILITY, TERALBA

Prepared for CONCRUSH PTY LTD

Prepared by RCA AUSTRALIA

RCA ref 13589a-268/0

OCTOBER 2025



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LABORATORY REPORT SHEETS

RCA ref 13589a-268/0



16 October 2025

Concrush Pty Ltd
21 Racecourse Road
Teralba NSW 2284

Attention: Kevin Thompson
CC: Ross Lo Monaco

Geotechnical Engineering

Engineering Geology

Environmental Engineering

Hydrogeology

Construction Materials Testing

Environmental Monitoring

Noise & Vibration

Occupational Hygiene

DUST MONITORING REPORT (JULY TO SEPTEMBER 2025) CONCRUSH FACILITY, TERALBA

1 INTRODUCTION

This report presents the findings of dust monitoring undertaken at the Concrush resource recovery facility, situated in Teralba, NSW that covers the period between 1st July 2025 and 30th September 2025, noting that real time dust data has not been recorded since January 2025 due to a power outage. The weather station has been under repair, and Concrush are aware of the situation.

The site was an operational facility over the entirety of the monitored area for the reporting period. Some construction is ongoing in the northern portion of the site for Sediment Basin 1 and the new weighbridge.

The monitoring undertaken has been detailed in an Operational Air Quality Management Plan (OAQMP, Ref [1]).

2 SITE IDENTIFICATION AND DESCRIPTION

The site is described as 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.

Table 1 *Site Details*

Current zoning (Ref [2])	E5 – Heavy Industrial.
Current use	Concrush resource recovery facility.
Size of site	Approximately 4.8ha.
Surrounding land use to the:	
North	Lot 1 DP220347. Industrial – storage yard for pre-cast concrete panels operated by others.
South	Part of Lot 2 DP220347. Industrial – scrap metal recycling yard operated by others.
East	Racecourse Road and then Cockle Creek.
West	Main Northern Rail line and then wetlands.
Nearest sensitive receptor (human health)	Residential housing, located approximately 360m southeast across Cockle Creek.
Nearest sensitive receptor (environmental)	Cockle Creek, located approximately 35 m east and wetland approximately 30 m west.



Figure 1 *Project Site Location and Layout (aerial as of 25 May 2025)*

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 (DG1A-DG4A) there are dust depositional bottles situated on stands installed¹ in accordance with the relevant Australian Standard (Ref [3]). An additional dust gauge (DG5A) is situated on the southern portion of the roof of the office adjacent to the weigh station along with the real-time dust monitor.



Figure 2 *Approximate Placement of Dust Deposition Gauges and Real Time Monitor (aerial as of 25 May 2025).*

¹ It is noted that DG3A may be partially obscured by the nearby maintenance building depending on the wind direction and particle size.

3.1 GUIDELINES

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

Table 2 *Depositional Dust: Impact Assessment Criteria*

Average Period	Maximum increase in deposited dust level	Maximum total deposited dust level	Sampling Frequency
Annual	2.0 g/m ² /month	4.0 g/m ² /month	Monthly

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

- Particulate matter less than 2.5 micrometres in diameter (i.e., PM_{2.5}) daily average 0.025 mg/m³, annual average 0.008 mg/m³.
- Particulate matter less than 10 micrometres in diameter (i.e., PM₁₀) daily average 0.05 mg/m³, annual average 0.025 mg/m³.
- Total suspended particles (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.

The Environmental Impact Statement for the expansion of the Concrush resource recovery facility to incorporate the southern portion of the site, refer **Figure 1**, included air quality monitoring and provided predicted values of PM_{2.5} and PM₁₀. Extracts of the modelled contours are presented in **Figure 3** below noting that the contours are presented in µg/m³.

Based on the modelled contours, the daily averages at the location of the real time dust monitor have been predicted as:

- PM_{2.5} >0.01 mg/m³.
- PM₁₀ 0.045 mg/m³.



Figure 3 Predicted Daily PM_{2.5} (A, top) and PM₁₀ (B, bottom) impacts with location of real time dust monitor marked with blue dot. All numbers are in units of $\mu\text{g}/\text{m}^3$.

3.2 WEATHER

The real time dust monitors recorded conditions every five (5) minutes continuously through the monitoring period. The monitor provides data with regards to wind direction and speed, air temperature, relative humidity, and air pressure.

The weather station was damaged by a storm on 18 December 2024; it was sent to the manufacturer for repair in September 2025 and the recovered data provided. However, the data were fragmented and discontinuous data and not considered usable. Consequently, no real-time data were available for this quarter. It is noted that the unit is being recalibrated at time of writing this report such that data won't be available for all of the October to December quarter.

4 MONITORING RESULTS

4.1 DEPOSITIONAL DUST GAUGES

Depositional dust bottles were collected on a monthly basis by RCA staff on 29th July, 29th August, and 30th September 2025. All gauges and funnels were intact and unbroken. The field sheets are included as **Appendix A**.

The results of the monitoring at each of the locations for this quarter and the twelve (12) month rolling average at the end of the quarter are presented below in **Table 3**.

All results were either less than the previous month or increased by less than the NSW EPA criterion of 2.0 g/m²/month (refer to **Table 3**).

The 12-month rolling annual average for all five (5) dust gauges are below the annual criterion of 4.0 g/m² (Ref [4]) as shown in **Table 3**.

Laboratory report sheets are included in **Appendix B**.

Table 3 *Dust Monitoring Results for Quarter*

	Insoluble Solids (g/m ²)			Ash (g/m ²)			Combustible Matter (g/m ²)			12-Month Rolling Average Insoluble Solids (g/m ²)
	30/06/25 – 29/07/25	29/07/25 – 29/08/25	29/08/25 – 30/09/25	30/06/25 – 29/07/25	29/07/25 – 29/08/25	29/08/25 – 30/09/25	30/06/25 – 29/07/25	29/07/25 – 29/08/25	29/08/25 – 30/09/25	
DG1A (east)	2.2	1.7	3.0	1.3	0.9	2.1	0.9	0.8	0.9	3.0
DG2A (south)	2.4	0.6	1.5	1.7	0.4	1.1	0.7	0.2	0.4	2.3
DG3A (west)	1.6	1.3	2.4	0.6	0.5	1.2	1.0	0.8	1.2	3.3
DG4A (north)	1.3	1.2	1.2	0.8	0.7	0.8	0.5	0.5	0.4	2.6
DG5A (roof)	2.6	1.3	1.7	2.0	0.9	1.2	0.6	0.4	0.5	2.3

BOLD identifies where results are in excess of annual average criterion of 4.0 g/m²/month (Ref [4]) which does not apply to individual monthly results.

Underline identifies where results are greater than the criterion of 2.0 g/m²/month (Ref [4]) for increase from the previous month.

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 originating from adjacent sites may also remain in the 'ash' component of the sample. The monthly insoluble solids and ash results are shown for the previous twelve (12) months in **Figure 4** and **Figure 5** below.

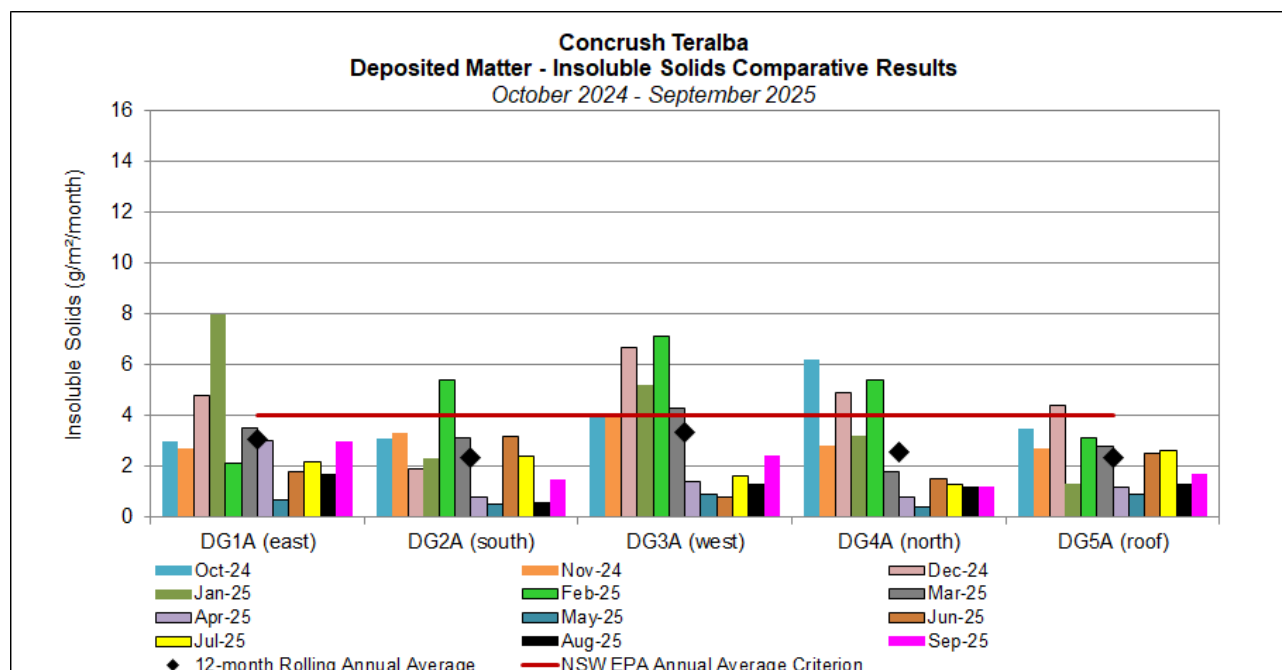


Figure 4 Dust Monitoring Results (Insoluble Solids) for the Past 12 Months

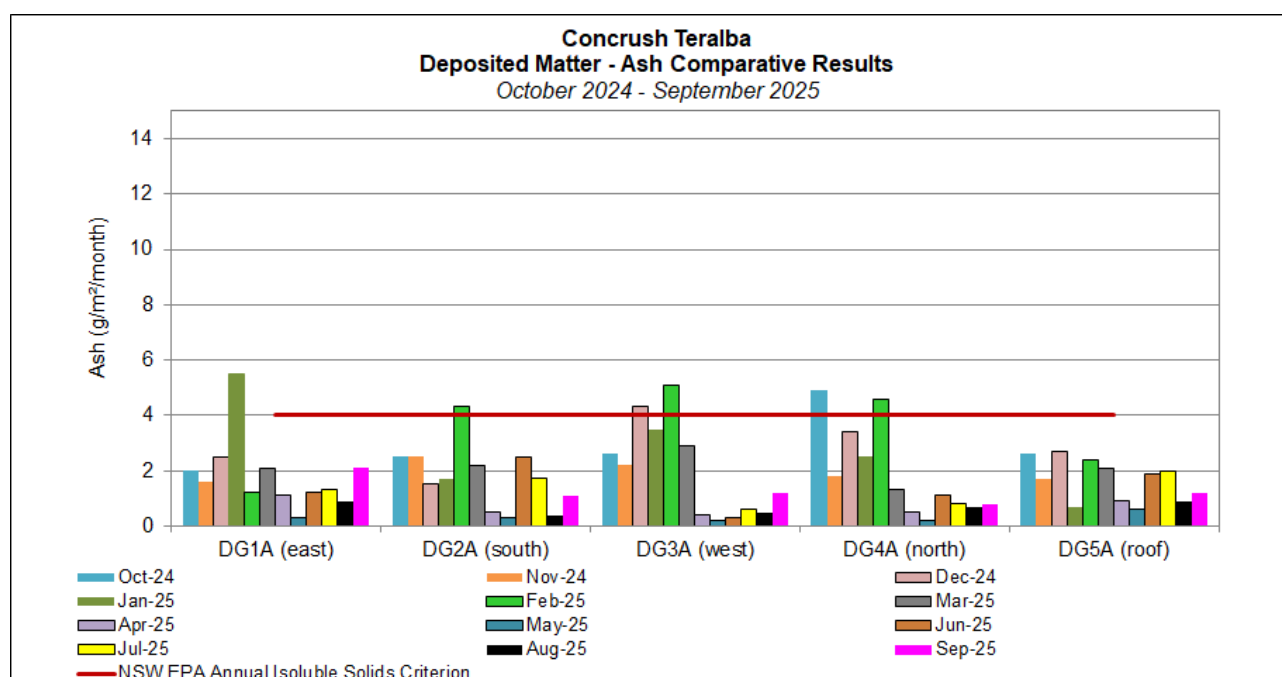


Figure 5 Dust Monitoring Results (Ash) for the Past 12 Months

5 ASSESSMENT OF DUST MANAGEMENT EFFECTIVENESS

The quarterly monitoring data reflects the effectiveness of site dust controls. It is noted that the OAQMP (Ref [1]) has been implemented since the works on the expansion component has been completed.

RCA's observations on the sampling days (29th July 2025, 29th August 2025 and 30th September 2025) regarding site activities that are associated with dust generation, and suppression were:

- Excavators and crusher were operating at the time of all site inspections.
- Sprinklers and water truck were in operation however not on all stockpiles and not all site inspections.
- Customers' vehicles were observed during all the site inspections.
- RCA observed at least localised dust during the time of all site inspections.

RCA's photographs during the time of fieldwork are shown in **Figure 6** below.

Excavator in operation, looking north 29th July 2025	Water cart working onsite, looking northeast 29th July 2025
Crusher in operation, looking south 29th August 2025	Loader in operation, looking east, 29th August 2025
Loader in operation, looking northeast 30th September 2025	Excavator in operation, looking northeast 30th September 2025

Figure 6 *Site Photographs during Sampling and Inspections*

RCA recommends that dust suppression measures should be carried out whenever rain is not actively falling, particularly during warm or windy weather such that evaporation effects are minimised, and that the extent of coverage from the sprinklers is monitored with adjustment of the sprinkler position / flow rate as necessary to maintain a damp stockpile surface. RCA would also recommend regular use of the street-sweeper on the surface of the weighbridges and water application on the trafficable areas.

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



Muhammad Hayyat
Environmental Engineer
MEng (Env), Beng

REFERENCES

- [1] RCA Australia, *Operational Air Quality Management Plan (OAQMP) for Expansion of the Concrush Resource Recovery Facility*, RCA ref 13589-802 V3, June 2023.
- [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*, August 2022.
- [5] NSW EPA, *Approved Methods for the Sampling and Analysis of Air Pollutants in NSW*, January 2022.

Appendix A

Field Sheets

STATIC DUST GAUGES – FIELD SHEET

Client: Concrush
Location: 21 Racecourse Road, Teralba
Date On: 30/6/2025
Date Off: 29/7/2025

Job Number: 13589a
Month/Year: 07/2025
Personnel: ALH
Field Sheet: Page 1 of 1

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
						Eg. Colour, contamination, bird droppings, insects etc
DG1A		11:45		25%	I	
DG2A		12:35		25%	I	
DG3A		13:40		25%	I, T	
DG4A		15:20		25%	I	
DG5A		15:30		25%	I	
						Photographs taken of dust gauge inlet & bottle contents (Y/N)

OBSERVATIONS OF DUST GENERATING ACTIVITIES & SUPPRESSION MEASURES

Dust cart on site (Y/N). Dust cart in operation (Y/N)

Sprinklers on all stockpiles (Y/N). Sprinklers in operation (Y/N)

Equipment in operation? Y

Customer activity? Busy

Dust observed? Yes Photographs taken (Y/N).

Notes:

A = Animals (frogs, lizards, snakes)
O = Organic Matter (specify)

B = Bird Droppings
F = Feathers

G = Grass (and seeds)
N = No foreign mater

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

STATIC DUST GAUGES – FIELD SHEET

Client: Concrush
Location: 21 Racecourse Road, Teralba
Date On: 29/7/2025
Date Off: 29/8/2025

Job Number: 13589a
Month/Year: 08/2025
Personnel: LB
Field Sheet: Page 1 of 1

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
						Eg. Colour, contamination, bird droppings, insects etc
DG1A		12.45		90%	IT	2
DG2A		12.15pm		90%	1	
DG3A		9.43am		85%	IT	Leave in funnel
DG4A		8.43am		85%	T	clear water
DG5A		1.50		80%	T	
						Photographs taken of dust gauge inlet & bottle contents (Y/N)

OBSERVATIONS OF DUST GENERATING ACTIVITIES & SUPPRESSION MEASURES

Dust cart on site (Y/N). Dust cart in operation (Y/N)

Sprinklers on all stockpiles (Y/N). Sprinklers in operation (Y/N)

Equipment in operation? Excavator, screen

Customer activity? yes - truth picking up material

Dust observed? no wet tracks Photographs taken (Y/N).

Notes:

A = Animals (frogs, lizards, snakes)
O = Organic Matter (specify)

B = Bird Droppings
F = Feathers

G = Grass (and seeds)
N = No foreign mater

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

STATIC DUST GAUGES – FIELD SHEET

Client: Concrush
Location: 21 Racecourse Road, Teralba
Date On: 29/8/2025
Date Off: 30/9/2025

Job Number: 13589a
Month/Year: 09/2025
Personnel: JB
Field Sheet: Page 1 of 1

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
						Eg. Colour, contamination, bird droppings, insects etc
DG1A		11.45		25%,	I/T	
DG2A		11.35am		25%,	I/T	
DG3A		9.15am		25%,	I/T	I/T
DG4A		8.45am		25%,	I	I
DG5A		1.30pm		25%,	I	
						Photographs taken of dust gauge inlet & bottle contents (Y/N)

OBSERVATIONS OF DUST GENERATING ACTIVITIES & SUPPRESSION MEASURES

Dust cart on site (Y/N). Dust cart in operation (Y/N)
 Sprinklers on all stockpiles (Y/N). Sprinklers in operation (Y/N) 7
 Equipment in operation? Excavator truck
 Customer activity? Busy
 Dust observed? No Photographs taken (Y/N).

Notes:

A = Animals (frogs, lizards, snakes)
O = Organic Matter (specify)

B = Bird Droppings
F = Feathers

G = Grass (and seeds)
N = No foreign mater

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

CERTIFICATE OF ANALYSIS 387118

Client Details

Client	RCA Australia
Attention	RCA Administrator
Address	PO Box 175, Carrington, NSW, 2294

Sample Details

Your Reference	<u>13589A DUST</u>
Number of Samples	DUST GAUGE
Date samples received	29/07/2025
Date completed instructions received	29/07/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client unless as indicated below in the method summaries. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	06/08/2025
Date of Issue	07/08/2025
Reissue Details	This report replaces R00 created on 06/08/2025 due to: result entry error
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Laura Schofield, Lab Manager

Authorised By

Nancy Zhang, Laboratory Manager

Dust Deposition AS 3580.10.1

Our Reference		387118-1	387118-2	387118-3	387118-4	387118-5
Your Reference	UNITS	DG1A	DG2A	DG3A	DG4A	DG5A
Date Sampled		29/07/2025	29/07/2025	29/07/2025	29/07/2025	29/07/2025
Sampler Name		ANH HOANG	ANH HOANG	ANH HOANG	ANH HOANG	ANH HOANG
Type Of Sample		DUST	DUST	DUST	DUST	DUST
Dust Gauge Start Date	--	30/06/2025	30/06/2025	30/06/2025	30/06/2025	30/06/2025
Dust Gauge End Date	--	29/07/2025	29/07/2025	29/07/2025	29/07/2025	29/07/2025
Sampler Name	-	AH	AH	AH	AH	AH
Dust - No. of Days Collected	--	29	29	29	29	29
Notes	-	IT	I	IT	IT	I
Insoluble Solids	g/m ² /month	2.2	2.4	1.6	1.3	2.6
Ash	g/m ² /month	1.3	1.7	0.6	0.8	2.0
Combustible Matter	g/m ² /month	0.9	0.7	1.0	0.5	0.6

Method ID	Methodology Summary
Ext-073-Q	Analysis only of Dust Deposition by AS/NZS 3580.10.1 and in-house method ENV-LAB004, Analysed by Envirolab Newcastle - NATA Site No. 18077. The calculations in g/m2/month* (unendorsed data) uses the number of days provided by the customer. The diameter of the funnels used by the customer is taken to be 150mm +/-10mm (150mm for the calculation). Deviations from the tolerance above may result in incorrect calculations.

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volumes) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

For Dust Deposit Gauge (DDG) analysis the sampling, sampling period and funnel exposure area do not fall under Envirolab's NATA accreditation (unless the Newcastle laboratory where responsible for the sampling), hence the annotation on the DDG units of reporting.

Urine Analysis - The BEI values listed are taken from the 2022 edition of "TLVs and BEIs Threshold Limits" by ACGIH.

CHAIN OF CUSTODY - Client

ENVIROLAB GROUP



Company:	RCA Australia		RCA Reference Number (i.e. report title)		ENVIROLAB GROUP Sydney Lab - Envirolab Services 12 Ashley St, Chatswood, NSW 2067 02 9910 6200 sydney@envirolab.com.au										
Contact person:	Fiona Brooker		13589a												
Project Mgr:	Fiona Brooker		PO No. (if applicable):	Not applicable											
Sampler:			Envirolab Quote No. :	BM8											
Address:	92 Hill St Carrington, NSW 2294		Date results required:												
Phone:	02 4902 9200	Mob:													
Email results to:	administrator@rca.com.au + enviro@rca.com.au		Lab comments:												
Email invoice to:															
Sample information				# Containers	Tests Required										Comments
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample		E27970 - Dust Deposition gauges - 3 fractions (Sj, Sc, Sa)										
	DG1A	29/07/2025	Dust Gauge	1	x										Exposure Period
	DG2A	29/07/2025	Dust Gauge	1	x										30/06/2025
	DG3A	29/07/2025	Dust Gauge	1	x										to
	DG4A	29/07/2025	Dust Gauge	1	x										29/07/2025
	DG5A	29/07/2025	Dust Gauge	1	x										
Total				5	5										
Relinquished by (company):		RCA Australia		Received by (company):		Envirolab		Lab use only:							
Print Name:		Anh Hoang		Print Name:		Sanhuh Singh		Job Number	387118	Cooling:	Ice / Ice Pack / None				
Date & Time:		29.7.25 - 15:45		Date & Time:		29/7/25 15:50		Temperature	18°C	Security Seal:	Intact / Broken / Not Used				
Signature:				Signature:				TAT Req:	SAME DAY / 1 / 2 / 3 / 4 / STD						

SAMPLE RECEIPT ADVICE

Client Details

Client	RCA Australia
Attention	RCA Administrator, Laura Schofield

Sample Login Details

Your reference	13589A DUST
Envirolab Reference	387118
Date Sample Received	29/07/2025
Date Instructions Received	29/07/2025
Date Results Expected to be Reported	06/08/2025

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	DUST GAUGE
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	18
Cooling Method	None
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

Aileen Hie	Jacinta Hurst
Phone: 02 9910 6200	Phone: 02 9910 6200
Fax: 02 9910 6201	Fax: 02 9910 6201
Email: ahie@envirolab.com.au	Email: jhurst@envirolab.com.au

Analysis Underway, details on the following page:

**Envirolab Services Pty Ltd**

ABN 37 112 535 645

12 Ashley St Chatswood NSW 2067

ph 02 9910 6200 fax 02 9910 6201

customerservice@envirolab.com.au

www.envirolab.com.au

Sample ID	Dust Deposition AS 3580.10.1
DG1A	✓
DG2A	✓
DG3A	✓
DG4A	✓
DG5A	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

Requests for longer term sample storage must be received in writing.

Please contact the laboratory immediately if observed settled sediment present in water samples is to be included in the extraction and/or analysis (exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, Total Recoverable metals and PFAS analysis where solids are included by default.

TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

CERTIFICATE OF ANALYSIS 389634

Client Details

Client	RCA Australia
Attention	RCA Administrator
Address	PO Box 175, Carrington, NSW, 2294

Sample Details

Your Reference	<u>13589A</u>
Number of Samples	5 Depositional Dust
Date samples received	29/08/2025
Date completed instructions received	28/08/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client unless as indicated below in the method summaries. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	05/09/2025
Date of Issue	05/09/2025

NATA Accreditation Number 2901. This document shall not be reproduced except in full.

Accredited for compliance with ISO/IEC 17025 - Testing. **Tests not covered by NATA are denoted with ***

Results Approved By

Laura Schofield, Lab Manager

Authorised By

Nancy Zhang, Laboratory Manager

Dust Deposition AS 3580.10.1

Our Reference		389634-1	389634-2	389634-3	389634-4	389634-5
Your Reference	UNITS	DG1A	DG2A	DG3A	DG4A	DG5A
Date Sampled		29/08/2025	29/08/2025	29/08/2025	29/08/2025	29/08/2025
Type of sample		Depositional Dust	Depositional Dust	Depositional Dust	Depositional Dust	Depositional Dust
Sampler Name		DB	DB	DB	DB	DB
Dust Gauge Start Date	--	29/07/2025	29/07/2025	29/07/2025	29/07/2025	29/07/2025
Dust Gauge End Date	--	29/08/2025	29/08/2025	29/08/2025	29/08/2025	29/08/2025
Sampler Name	-	DB	DB	DB	DB	DB
Dust - No. of Days Collected	--	31	31	31	31	31
Notes	-	I	I	IT	IT	I
Insoluble Solids	g/m ² /month	1.7	0.6	1.3	1.2	1.3
Ash	g/m ² /month	0.9	0.4	0.5	0.7	0.9
Combustible Matter	g/m ² /month	0.8	0.2	0.8	0.5	0.4

Method ID	Methodology Summary
Ext-073-Q	Analysis only of Dust Deposition by AS/NZS 3580.10.1 and in-house method ENV-LAB004, Analysed by Envirolab Newcastle - NATA Site No. 18077. The calculations in g/m2/month* (unendorsed data) uses the number of days provided by the customer. The diameter of the funnels used by the customer is taken to be 150mm +/-10mm (150mm for the calculation). Deviations from the tolerance above may result in incorrect calculations.

Result Definitions

NT	Not tested
NA	Test not required
INS	Insufficient sample for this test
PQL	Practical Quantitation Limit
<	Less than
>	Greater than
RPD	Relative Percent Difference
LCS	Laboratory Control Sample
NS	Not specified
NEPM	National Environmental Protection Measure
NR	Not Reported

Quality Control Definitions

Blank	This is the component of the analytical signal which is not derived from the sample but from reagents, glassware etc, can be determined by processing solvents and reagents in exactly the same manner as for samples.
Duplicate	This is the complete duplicate analysis of a sample from the process batch. If possible, the sample selected should be one where the analyte concentration is easily measurable.
Matrix Spike	A portion of the sample is spiked with a known concentration of target analyte. The purpose of the matrix spike is to monitor the performance of the analytical method used and to determine whether matrix interferences exist.
LCS (Laboratory Control Sample)	This comprises either a standard reference material or a control matrix (such as a blank sand or water) fortified with analytes representative of the analyte class. It is simply a check sample.
Surrogate Spike	Surrogates are known additions to each sample, blank, matrix spike and LCS in a batch, of compounds which are similar to the analyte of interest, however are not expected to be found in real samples.

Laboratory Acceptance Criteria

Duplicate sample and matrix spike recoveries may not be reported on smaller jobs, however, were analysed at a frequency to meet or exceed NEPM requirements. All samples are tested in batches of 20. The duplicate sample RPD and matrix spike recoveries for the batch were within the laboratory acceptance criteria.

Filters, swabs, wipes, tubes and badges will not have duplicate data as the whole sample is generally extracted during sample extraction.

Spikes for Physical and Aggregate Tests are not applicable.

For VOCs in water samples, three vials are required for duplicate or spike analysis.

Duplicates: >10xPQL - RPD acceptance criteria will vary depending on the analytes and the analytical techniques but is typically in the range 20%-50% – see ELN-P05 QA/QC tables for details; <10xPQL - RPD are higher as the results approach PQL and the estimated measurement uncertainty will statistically increase.

Air volumes are typically provided by customers (often as flow rate(s) and sampling time(s) and/or simply volumes) sampled or exposure times (determines 'volume' passive badges are exposed to)). Hence in such circumstances the volume measurement is inevitably not covered by Envirolab's NATA accreditation. An exception may occur where Envirolab Newcastle does the sampling where accreditation exists for certain types of sampling and hence volume determination(s). Note air volumes are often used to determine concentrations for dust and/or analyses on filters, sorbents and in impingers. For canister sampling, the air volume is covered by Envirolab's NATA accreditation.

Matrix Spikes, LCS and Surrogate recoveries: Generally 70-130% for inorganics/metals (not SPOCAS); 60-140% for organics/SPOCAS (+/-50% surrogates) and 10-140% for labile SVOCs (including labile surrogates), ultra trace organics and speciated phenols is acceptable.

In circumstances where no duplicate and/or sample spike has been reported at 1 in 10 and/or 1 in 20 samples respectively, the sample volume submitted was insufficient in order to satisfy laboratory QA/QC protocols.

When samples are received where certain analytes are outside of recommended technical holding times (THTs), the analysis has proceeded. Where analytes are on the verge of breaching THTs, every effort will be made to analyse within the THT or as soon as practicable.

Where sampling dates are not provided, Envirolab are not in a position to comment on the validity of the analysis where recommended technical holding times may have been breached.

Measurement Uncertainty estimates are available for most tests upon request.

Analysis of aqueous samples typically involves the extraction/digestion and/or analysis of the liquid phase only (i.e. NOT any settled sediment phase but inclusive of suspended particles if present), unless stipulated on the Envirolab COC and/or by correspondence. Notable exceptions include certain Physical Tests (pH/EC/BOD/COD/Apparent Colour etc.), Solids testing, total recoverable metals and PFAS where solids are included by default.

For Dust Deposit Gauge (DDG) analysis the sampling, sampling period and funnel exposure area do not fall under Envirolab's NATA accreditation (unless the Newcastle laboratory where responsible for the sampling), hence the annotation on the DDG units of reporting.

Urine Analysis - The BEI values listed are taken from the 2022 edition of "TLVs and BEIs Threshold Limits" by ACGIH.

CHAIN OF CUSTODY - Client



ENVIROLAB GROUP

Company:	RCA Australia	RCA Reference Number (i.e. report title)		ENVIROLAB GROUP Sydney Lab - Envirolab Services 12 Ashley St, Chatswood, NSW 2067 02 9910 6200 sydney@envirolab.com.au
Contact person:	Fiona Brooker	13589a		
Project Mgr:	Fiona Brooker	PO No. (if applicable):	Not applicable	
Sampler:	Danilo	Envirolab Quote No. :	BM8	
Address:	92 Hill St Carrington, NSW 2294	Date results required:	Standard	
Phone:	02 4902 9200	Mob:		
Email results to:	administrator@rca.com.au + enviro@rca.com.au		Lab comments:	
Email invoice to:				

Sample information				# Containers	Tests Required										Comments
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample		E27970 - Dust Deposition gauges - 3 fractions (Si, Sc, Sa)										Provide as much information about the sample as you can
	DG1A	29/08/2025	Dust Gauge	1	x										Exposure Period
	DG2A	29/08/2025	Dust Gauge	1	x										29/07/2025
	DG3A	29/08/2025	Dust Gauge	1	x										to
	DG4A	29/08/2025	Dust Gauge	1	x										29/08/2025
	DG5A	29/08/2025	Dust Gauge	1	x										
Total				5	5										

Relinquished by (company):	RCA Australia	Received by (company):	Envirolab	Lab use only:			
Print Name:	Danilo	Print Name:	Sanibush Joseph	Job Number	389634	Cooling:	Ice / Ice Pack / <u>None</u>
Date & Time:	29-8-25	Date & Time:	29/8/25 16:00	Temperature	21	Security Seal:	<u>Intact</u> / Broken / Not Used
Signature:	D. Danilo	Signature:	[Signature]	TAT Req:	SAME DAY / 1 / 2 / 3 / 4 / <u>STD</u>		

SAMPLE RECEIPT ADVICE

Client Details

Client	RCA Australia
Attention	RCA Administrator

Sample Login Details

Your reference	13589A
Envirolab Reference	389634
Date Sample Received	29/08/2025
Date Instructions Received	28/08/2025
Date Results Expected to be Reported	05/09/2025

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	5 Depositional Dust
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	21
Cooling Method	None
Sampling Date Provided	

Comments

Nil

Please direct any queries to:

Aileen Hie

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: ahie@envirolab.com.au

Jacinta Hurst

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: jhurst@envirolab.com.au

Analysis Underway, details on the following page:

**Envirolab Services Pty Ltd**

ABN 37 112 535 645

12 Ashley St Chatswood NSW 2067

ph 02 9910 6200 fax 02 9910 6201

customerservice@envirolab.com.au

www.envirolab.com.au

Sample ID	Dust Deposition AS 3580.10.1
DG1A	✓
DG2A	✓
DG3A	✓
DG4A	✓
DG5A	✓

The '✓' indicates the testing you have requested. **THIS IS NOT A REPORT OF THE RESULTS.**

Additional Info

Sample storage - Waters are routinely disposed of approximately 1 month and soils approximately 2 months from receipt.

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TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

CERTIFICATE OF ANALYSIS 391914

Client Details

Client	RCA Australia
Attention	RCA Administrator
Address	PO Box 175, Carrington, NSW, 2294

Sample Details

Your Reference	<u>13589A</u>
Number of Samples	5 Depositional Dust
Date samples received	30/09/2025
Date completed instructions received	30/09/2025

Analysis Details

Please refer to the following pages for results, methodology summary and quality control data.

Samples were analysed as received from the client unless as indicated below in the method summaries. Results relate specifically to the samples as received.

Results are reported on a dry weight basis for solids and on an as received basis for other matrices.

Report Details

Date results requested by	09/10/2025
Date of Issue	09/10/2025

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Results Approved By

Laura Schofield, Lab Manager

Authorised By

Nancy Zhang, Laboratory Manager

Dust Deposition AS 3580.10.1

Our Reference		391914-1	391914-2	391914-3	391914-4	391914-5
Your Reference	UNITS	DG1A	DG2A	DG3A	DG4A	DG5A
Type of sample		Depositional Dust	Depositional Dust	Depositional Dust	Depositional Dust	Depositional Dust
Sampler Name		DB	DB	DB	DB	DB
Dust Gauge Start Date	--	29/08/2025	29/08/2025	29/08/2025	29/08/2025	29/08/2025
Dust Gauge End Date	--	30/09/2025	30/09/2025	30/09/2025	30/09/2025	30/09/2025
Sampler Name	-	DB	DB	DB	DB	DB
Dust - No. of Days Collected	--	32	32	32	32	32
Notes	-	IT	I	IT	I	I
Insoluble Solids	g/m ² /month	3.0	1.5	2.4	1.2	1.7
Ash	g/m ² /month	2.1	1.1	1.2	0.8	1.2
Combustible Matter	g/m ² /month	0.9	0.4	1.2	0.4	0.5

Method ID	Methodology Summary
Ext-073-Q	Analysis only of Dust Deposition by AS/NZS 3580.10.1 and in-house method ENV-LAB004, Analysed by Envirolab Newcastle - NATA Site No. 18077. The calculations in g/m2/month* (unendorsed data) uses the number of days provided by the customer. The diameter of the funnels used by the customer is taken to be 150mm +/-10mm (150mm for the calculation). Deviations from the tolerance above may result in incorrect calculations.

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Urine Analysis - The BEI values listed are taken from the 2022 edition of "TLVs and BEIs Threshold Limits" by ACGIH.

CHAIN OF CUSTODY - Client

ENVIROLAB GROUP



Company:		RCA Australia		RCA Reference Number (i.e. report title)		ENVIROLAB GROUP Sydney Lab - Envirolab Services 12 Ashley St, Chatswood, NSW 2067 02 9910 6200 sydney@envirolab.com.au									
Contact person:		Fiona Brooker		13589a											
Project Mgr:		Fiona Brooker		PO No. (if applicable):											
Sampler:		Damien		Envirolab Quote No. :											
Address:		92 Hill St Carrington, NSW 2294		Date results required:											
Phone:		02 4902 9200 Mob: 0404371451		Standard											
Email results to:		administrator@rca.com.au + enviro@rca.com.au		Lab comments:											
Email invoice to:															
Sample information				# Containers	Tests Required										Comments
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample		E27970 - Dust Deposition gauges - 3 fractions (Si, Sc, Sa)										
	DG1A	30/09/2025	Dust Gauge	1	x										Exposure Period
	DG2A	30/09/2025	Dust Gauge	1	x										29/08/2025
	DG3A	30/09/2025	Dust Gauge	1	x										to
	DG4A	30/09/2025	Dust Gauge	1	x										30/09/2025
	DG5A	30/09/2025	Dust Gauge	1	x										
Total				5	5										
Relinquished by (company):		RCA Australia		Received by (company):		Envirolab		Lab use only:							
Print Name:		Damien		Print Name:		Santhuh Joseph		Job Number		391914		Cooling:		Ice / Ice Pack / None	
Date & Time:		30/9/25		Date & Time:		30/9/25 14:50		Temperature		30°C		Security Seal:		Intact / Broken / Not Used	
Signature:		D. Blatter		Signature:		[Signature]		TAT Req:		SAME DAY / 1 / 2 / 3 / 4 / STD					

SAMPLE RECEIPT ADVICE

Client Details

Client	RCA Australia
Attention	RCA Administrator

Sample Login Details

Your reference	13589A
Envirolab Reference	391914
Date Sample Received	30/09/2025
Date Instructions Received	30/09/2025
Date Results Expected to be Reported	09/10/2025

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	5 Depositional Dust
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	30
Cooling Method	None
Sampling Date Provided	

Comments

Nil

Please direct any queries to:

Aileen Hie

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: ahie@envirolab.com.au

Jacinta Hurst

Phone: 02 9910 6200
Fax: 02 9910 6201
Email: jhurst@envirolab.com.au

Analysis Underway, details on the following page:



Envirolab Services Pty Ltd

ABN 37 112 535 645

12 Ashley St Chatswood NSW 2067

ph 02 9910 6200 fax 02 9910 6201

customerservice@envirolab.com.au

www.envirolab.com.au

Sample ID	Dust Deposition AS 3580.10.1
DG1A	✓
DG2A	✓
DG3A	✓
DG4A	✓
DG5A	✓

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Additional Info

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TAT for Micro is dependent on incubation. This varies from 3 to 6 days.

We acknowledge receipt of your samples and Purchase Order (PO) (if provided). If a PO includes your terms & conditions, Envirolab hereby expressly rejects and will not be bound by any external or third-party terms and conditions, including those referenced or attached to a PO.

All services to be performed by Envirolab will be governed exclusively by Envirolab's General Terms and Conditions attached to this acknowledgement ([Envirolab Terms](#)) via hyperlink or found on our websites.

If you do not object in writing within two (2) business days of the date of this acknowledgement, you will be deemed to have accepted the Envirolab Terms. In addition, your provision of further instructions, additional samples, payment of any invoice, or acceptance of services or results from Envirolab will constitute acceptance of the Envirolab Terms. For clarity, Envirolab's commencement or continuation of work following receipt of the PO is performed solely under the Envirolab Terms and does not constitute acceptance of any external terms. All rights are expressly reserved.