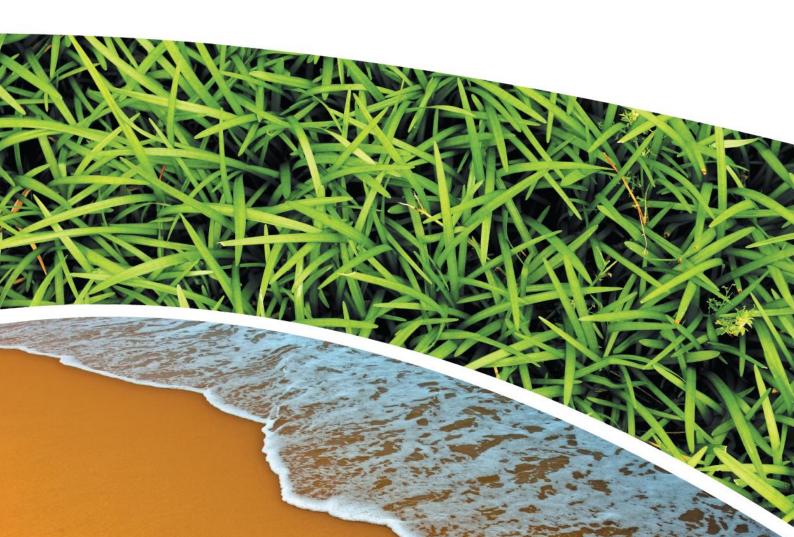


DUST MONITORING REPORT (JANUARY TO MARCH 2025)
CONCRUSH FACILITY, TERALBA

Prepared for CONCRUSH PTY LTD
Prepared by RCA AUSTRALIA
RCA ref 13589a-255/0
MAY 2025





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APPENDIX A

FIELD SHEETS

APPENDIX B

LABORATORY REPORT SHEETS

RCA ref 13589a-255/0

22 May 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 (JANUARY TO MARCH 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 January 2025 and 31st March 2025, noting that real time dust data has not recorded since January 2025 due to power outage. Concrush are aware of the electrical issue.

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 1Site 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.			
North	Industrial – storage yard for pre-cast concrete panels operated by others.			
South	Part of Lot 2 DP220347.			
South	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 35m east and wetland approximately 30m west.			



Figure 1 Project Site Location and Layout (aerial as of 7 February 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 7 February 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 Maximum increase in Period 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 PM_{10} . Extracts of the modelled contours are presented in **Figure 3** below noting that the contours are presented in $\mu g/m^3$.

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.
- PM_{10} 0.045 mg/m³.



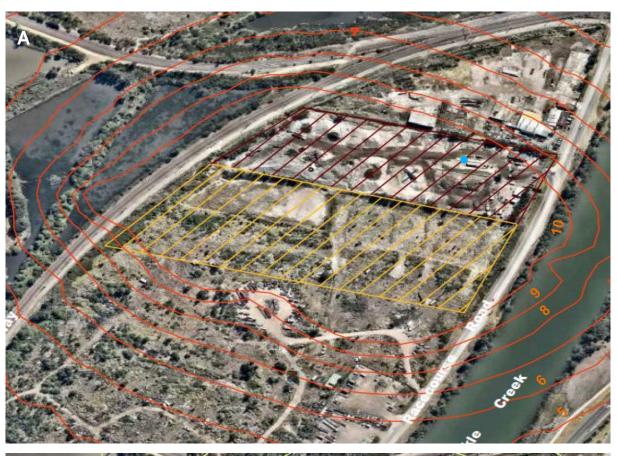




Figure 3 Predicted Daily $PM_{2.5}$ (A, top) and PM_{10} (B, bottom) impacts with location of real time dust monitor marked with blue dot. All numbers are in units of $\mu g/m^3$.



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.

It is noted that no data has been recorded since 18 December 2024 due to storm damage such that there is no power to the unit. As a result, there is no real time data available for this quarter.

4 MONITORING RESULTS

4.1 DEPOSITIONAL DUST GAUGES

Depositional dust bottles were collected on a monthly basis by RCA staff on 31st January 2025, 28th February 2025, and 31st March 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 were increased by less that the NSW EPA criterion of 2 g/m²/month except for those at DG1A between December 2024 and January 2025, and DG2A and DG4A between January and February 2025 (refer to **Table 3**).

The 12-month rolling annual average for all five (5) dust gauges are below the annual criterion of 4 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/m²)			Ash (g/m²)			Combustible Matter (g/m²)			12-Month Rolling Average	
	2/01/25 - 31/01/25	31/01/25 - 28/02/25	28/02/25 - 31/03/25	2/01/25 - 31/01/25	31/01/25 - 28/02/25	28/02/25 - 31/03/25	2/01/25 - 31/01/25	31/01/25 - 28/02/25	28/02/25 - 31/03/25	Insoluble Solids (g/m²)	
DG1A (east)	8.0	2.1	3.5	5.5	1.2	2.1	2.5	0.9	1.4	3.7	
DG2A (south)	2.3	<u>5.4</u>	3.1	1.7	4.3	2.2	0.6	1.1	0.9	2.8	
DG3A (west)	5.2	7.1	4.3	3.5	5.1	2.9	1.7	2.0	1.4	3.7	
DG4A (north)	3.2	<u>5.4</u>	1.8	2.5	4.6	1.3	0.7	0.8	0.5	3.4	
DG5A (roof)	1.3	3.1	2.8	0.7	2.4	2.1	0.6	0.7	0.7	2.6	

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. <u>Underline</u> identifies where results are greater than the criterion 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.

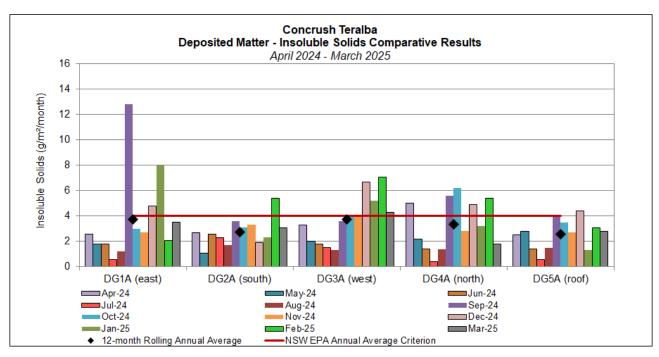


Figure 4 Dust Monitoring Results (Insoluble Solids) for the Past 12 Months

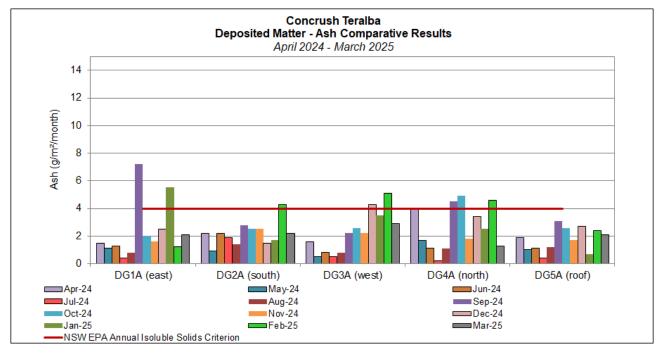


Figure 5 Dust Monitoring Results (Ash) for the Past 12 Months



5 ASSESSMENT OF DUST MANAGEMENT EFFECTIVENESS

The quarterly monitoring data indicates issues with 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 (31st January 2025, 28th February 2025 and 31st March 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, noting no photographs were taken in January in error.





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

CI	in	nt:
VI	16	HIL.

Concrush

Job Number:

13589a

Location:

21 Racecourse Road, Teralba

Month/Year:

01/2025

Date On:

02/01/2025

Personnel:

Date Off: 31/01/2025 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
		4:07		4 L	Idear	Eg. Colour, contamination, bird droppings, insects etc
DG1A	Bothe name & DGS	9:07	-	4 L	I doa	clear, flooting ruseds, deat on
DG2A		10:40		46	I, clear	clear, Stoatky just 45
DG3A		12:30	_	4L	I.T. clean	Mean, floating in sects, distant
DG4A		12:59		46	I. Clum	clear flowing inscorp
DG5A	Bothe name = DG1	13:05	_	4L	I, B, clear	Vird duppings & Treets, clear
		9	1/2	* 7		Photographs taken of dust gauge inlet & bottle contents (Y/N)
Dust cart on site Sprinklers on all Equipment in op	S OF DUST GENE (Y/N). Dust cart in stockpiles (Y/N). S peration?	operation (Y/N prinklers in ope) eration (Y/N) Lx Carre	t-v ^{30t} m	r; Sty	rails most of day.

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

C	li	e	n	ıt	
-		~			

Concrush

Job Number:

13589a

Location:

21 Racecourse Road, Teralba

Month/Year: 28

02/2025

Date On:

31/1/2025

Personnel:

Date Off: 28/2/2025 Field Sheet: Page 1 of 1 Lab ID Funnel

Field ID (Job No + Gauge No.)	(To be entered by Lab Technician on receipt of samples)	Time Serviced	Number (if replaced)	Approx. Volume	Notes	Comments
		2				Eg. Colour, contamination, bird droppings, insects etc
DG1A		10:45		20%	I	clear, floating insects
DG2A		10:19		20%	I	Clear Apolio insects
DG3A		8:52		20%	IT	Clear, flooding insact + tree 1.1
DG4A		10:14		20 %	I	Clear, Mooting insects
DG5A		lit		20/2	4	Clear Hosting Meet
		,				Photographs taken of dust gauge inlet & bottle contents (Y/N)
Dust cart on site Sprinklers on all Equipment in ope Customer activity	S OF DUST GENE (V/N). Dust cart in stockpiles (Y/N). S eration?	operation (Y/N prinklers in ope) eration (Y/N)			

1	otes	
1 4	U 1 1 2 3	

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

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



STATIC DUST GAUGES - FIELD SHEET

Client:

Concrush

Location:

21 Racecourse Road, Teralba

Date On:

28/2/2025

Date Off:

31/3/2025

Job Number:

13589a

Month/Year

03/2025

Personnel: Att

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	Comme	nts
						Eg. Colour, contaminatior , bir	d droppings, insects etc
DG1A		9,50		587		T	
DG2A		10,50		50%		T	
DG3A		1125		18-6			
DG4A		13-10		XXI			
DG5A		13.15		18%		T	
						Photographs taken o	dust gauge inletents (Y/N)

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

Equipment in operation?....

Customer activity?

Dust observed? Photographs taken (Y/N).

Notes:

A = Animals (frogs, lizards, snakes)

B = Bird Droppings

G = Grass (and seeds)

T = Tree Litter (twigs, leaves, gum nuts) MF = Invalid sample: Missing funnel

FB = Invalid sample: Broken funnel

EB = Ir valid sample: Excess bird droppings RN = Ir valid sample: Refer to notes below

O = Organic Matter (specify)

F = Feathers

N = No foreign mater

I = Insects (and spiders)

Appendix B

Laboratory Report Sheets



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

CERTIFICATE OF ANALYSIS 372972

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 Dust Guage
Date samples received	12/02/2025
Date completed instructions received	12/02/2025

Analysis Details

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

Samples were analysed as received from the client. 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.

Please refer to the last page of this report for any comments relating to the results.

Report Details					
Date results requested by	19/02/2025				
Date of Issue	14/02/2025				
NATA Accreditation Number 2901. This document shall not be reproduced except in full.					
Accredited for compliance with ISC	D/IEC 17025 - Testing. Tests not covered by NATA are denoted with *				

Results Approved By

Laura Schofield, Lab Manager

Authorised By

Nancy Zhang, Laboratory Manager

Envirolab Reference: 372972 Revision No: R00



Dust Deposition AS 3580.10.1						
Our Reference		372972-1	372972-2	372972-3	372972-4	372972-5
Your Reference	UNITS	DG1A	DG2A	DG3A	DG4A	DG5A
Sampling Period Dates		31/01/2025	31/01/2025	31/01/2025	31/01/2025	31/01/2025
Type of sample		Dust Guage				
Dust Gauge Start Date		02/01/2025	02/01/2025	02/01/2025	02/01/2025	02/01/2025
Dust Gauge End Date		31/01/2025	31/01/2025	31/01/2025	31/01/2025	31/01/2025
Sampler Name	-	SH	SH	SH	SH	SH
Dust - No. of Days Collected		29	29	29	29	29
Notes	-	IT	I	IT	IT	IT
Insoluble Solids	g/m ² /month	8.0	2.3	5.2	3.2	1.3
Ash	g/m ² /month	5.5	1.7	3.5	2.5	0.7
Combustible Matter	g/m ² /month	2.5	0.6	1.7	0.7	0.6

Envirolab Reference: 372972 Revision No: R00

Method ID	Methodology Summary
Ext-073-Q	Analysis of Dust Deposition by AS/NZS 3580.10.1 and in-house method ENV-LAB004, Analysed by Envirolab Newcastle

Envirolab Reference: 372972 Page | 3 of 6

Revision No: R00

Result Definiti	ons
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

Envirolab Reference: 372972

Revision No: R00

Quality Contro	ol 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.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

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.

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.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

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.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

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R00

Report Comments

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

Envirolab Reference: 372972 Page | 6 of 6

Revision No: R00

CHAIN OF CUSTODY - Client



					E	NVIROLAB (ROI	JP			:								VIKOLHB @mpl
Company:			RCA Australia		RCA Reference Number (i.e. report title)				ENVIROLAB GROUP										
Contact person:	Fiona Brooker			13589a							ENVIROLAB GROUP								
Project Mgr:			Fiona Brooker		PO N	lo. (if applicable):				N	ot app	licable							
Sampler:	4	Ste	phen Hendsriksen	a:	Envirolab Quote No. : BM8														
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Email results to:	administra	ator@rc	a.com.au + enviro@ro	a.com.au	Lab	comments:													
Email invoice to:		. F F F			 	· · · · · · · · · · · · · · · · · · ·	, , , , ,					24				,	-, , , ,		
	San	ple info	тацол				-		т т		<u>-</u>	lests H	equire	<u>a</u>			1.	<u> </u>	Comments
Envirolab Sample ID	Glient Sample	e;ID	Datë sampled	Type of sample		# Containers	Depositional Dust											Sediment within container to binduded in an alysis if X.	Provide as much information about the sample as you can
	DG1A		31/01/2025 9:07	Water	1	DADOSHONAL	· >			_									Bottle name = DG5
	DG2A		31/01/2025 10:40	Water	1	1	×	1				****			1				
	DG3A		31/01/2025 12:30	Water	1		×			Τ,					40				
	DG4A		31/01/2025 12:59	Water	1		Х												
	DG5A		31/01/2025 13:05	Water	1	V	X			1	7						1	_	Bottle name = DG1
s																			
						*													- A V
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Signature:		<u> </u>		Signature:			UC	hQĬ		\ T	AT Re	q:		SAME	DAY /	1/2	/ 3:/	4 (STD)	
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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 RECEIPT ADVICE

Client Details	
Client	RCA Australia
Attention	RCA Administrator

Sample Login Details		
Your reference	13589a	
Envirolab Reference	372972	
Date Sample Received	12/02/2025	
Date Instructions Received	12/02/2025	
Date Results Expected to be Reported	19/02/2025	

Sample Condition	
Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	5 Dust Guage
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	
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.



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customerservice@envirolab.com.au
www.envirolab.com.au

CERTIFICATE OF ANALYSIS 374374

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 Dust Guage
Date samples received	28/02/2025
Date completed instructions received	03/03/2025

Analysis Details

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

Samples were analysed as received from the client. 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	09/03/2025				
Date of Issue	09/03/2025				
NATA Accreditation Number 2901. This document shall not be reproduced except in full.					
Accredited for compliance with ISC	/IEC 17025 - Testing. Tests not covered by NATA are denoted with *				

Results Approved By

Laura Schofield, Lab Manager

Authorised By

Nancy Zhang, Laboratory Manager

Envirolab Reference: 374374 Revision No: R00



Dust Deposition AS 3580.10.1						
Our Reference		374374-1	374374-2	374374-3	374374-4	374374-5
Your Reference	UNITS	DG1A	DG2A	DG3A	DG4A	DG5A
Sampling Period Dates		31/01/2025 - 28/02/2025				
Type of sample		Dust Guage				
Dust Gauge Start Date		31/01/2025	31/01/2025	31/01/2025	31/01/2025	31/01/2025
Dust Gauge End Date		28/02/2024	28/02/2024	28/02/2024	28/02/2024	28/02/2024
Sampler Name	-	АН	АН	АН	АН	AH
Dust - No. of Days Collected		29	29	29	29	29
Notes	-	IT	I	IT	I	I
Insoluble Solids	g/m ² /month	2.1	5.4	7.1	5.4	3.1
Ash	g/m ² /month	1.2	4.3	5.1	4.6	2.4
Combustible Matter	g/m ² /month	0.9	1.1	2.0	0.8	0.7

Envirolab Reference: 374374 Revision No: R00

Method ID	Methodology Summary
Ext-073-Q	Analysis of Dust Deposition by AS/NZS 3580.10.1 and in-house method ENV-LAB004, Analysed by Envirolab Newcastle

Envirolab Reference: 374374 Page | 3 of 5

Revision No: R00

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

Envirolab Reference: 374374

Revision No: R00

Quality Control	ol 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.

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016.

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

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.

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.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

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.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Envirolab Reference: 374374 Page | 5 of 5

Revision No:

R00

CHAIN OF CUSTODY - Client



ENVฏิรัฐดูเคย

	·			ENVIROLAB	GROUP		•				eri	WIKOCHB (Empl
Company:		RCA Australia		RCA Reference Number (i.e. report title)								
Contact person:	Fiona Brooker			13589a				ENVIROLAB GROUP				
Project Mgr:	Fiona Brooker			PO No. (if applicable): Not applicable			1					
Sampler:				Envirolab Quote No. : BM8				1				
Address:			· ·	Date results required:		413	175		1			
	92 Hill St Carrington, NSW 2294			1973108					Sydney Lab - Envirolab Services 12 Ashley St, Chatswood, NSW 2067			
Phone:	02 4902 9200 Mob:			1					02 99	∍10 62 °	00 sydne	ey@envirolab.com.au
Email results to:	administrator@r	ca.com.au + enviro@r							┥ , , , , , , , , , , , , , , , , , , ,			
Email invoice to:			-	Lab comments:					}			
The state of the s	Sample info	ormation 🦪 🐬	FINAN, M			in the second of	Tests Requ	ilred 🤄		Syptem is a second		Comments
Envirolab Sample ID	Client Sample ID DG1A	Date sampled	Type of sample	# Containers	E27970 - Dust Deposition gauges - 3 fractions (Si, Sc, Sa)							Provide as much information about the sample as you can
	DG2A	28/02/2025	Dust Gauge	11	x	 	 					Exposure Period
	DG3A	28/02/2025	Dust Gauge	11	x			'				31/01/2025
	DG4A	28/02/2025	Dust Gauge	11	x							to
		28/02/2025	Dust Gauge	1	x		 					28/02/2025
	DG5A	28/02/2025	Dust Gauge	1	x							,
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Date & Time:		5- Uno	Date & Time:		Santheh.					Cooli		Ice / Ice Pack / None
Signature:			Signature:		28/2/25 1	12:00	Temperature	26			rity Seal:	Intact / Broken / Not Used
		Mm-	Joignature.		Re		TAT Req:	SAME	DAY / 1,	/2/3/	4 / <i>/</i> STD	



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 RECEIPT ADVICE

Client Details	
Client	RCA Australia
Attention	RCA Administrator

Sample Login Details		
Your reference	13589a	
Envirolab Reference	374374	
Date Sample Received	28/02/2025	
Date Instructions Received	03/03/2025	
Date Results Expected to be Reported	09/03/2025	

Sample Condition	
Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	5 Dust Guage
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	25
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.



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

CERTIFICATE OF ANALYSIS 376974

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	
Date samples received	17/04/2025
Date completed instructions received	31/03/2025

Analysis Details

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

Samples were analysed as received from the client. 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	17/04/2025		
Date of Issue	17/04/2025		
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

Envirolab Reference: 376974 Revision No: R00



Dust Deposition AS 3580.10.1						
Our Reference		376974-1	376974-2	376974-3	376974-4	376974-5
Your Reference	UNITS	DG1A	DG2A	DG3A	DG4A	DG5A
Sampling Period Dates		28/02/2025 - 31/03/2025				
Sampler Name		SK	SK	SK	SK	SK
Dust Gauge Start Date		28/02/2025	28/02/2025	28/02/2025	28/02/2025	28/02/2025
Dust Gauge End Date		31/03/2025	31/03/2025	31/03/2025	31/03/2025	31/03/2025
Sampler Name	-	SK	SK	SK	SK	SK
Dust - No. of Days Collected		31	31	31	31	31
Notes	-	I	I	I	I	I
Insoluble Solids	g/m ² /month	3.5	3.1	4.3	1.8	2.8
Ash	g/m ² /month	2.1	2.2	2.9	1.3	2.1
Combustible Matter	g/m ² /month	1.4	0.9	1.4	0.5	0.7

Envirolab Reference: 376974 Revision No: R00

Method ID	Methodology Summary
Ext-073-Q	Analysis of Dust Deposition by AS/NZS 3580.10.1 and in-house method ENV-LAB004, Analysed by Envirolab Newcastle

Envirolab Reference: 376974 Page | 3 of 5

Revision No: R00

Result Definiti	ons
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

Envirolab Reference: 376974

Revision No: R00

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.			

Australian Drinking Water Guidelines recommend that Thermotolerant Coliform, Faecal Enterococci, & E.Coli levels are less than 1cfu/100mL. The recommended maximums are taken from "Australian Drinking Water Guidelines", published by NHMRC & ARMC 2011.

The recommended maximums for analytes in urine are taken from "2018 TLVs and BEIs", as published by ACGIH (where available). Limit provided for Nickel is a precautionary guideline as per Position Paper prepared by AIOH Exposure Standards Committee, 2016

Guideline limits for Rinse Water Quality reported as per analytical requirements and specifications of AS 4187, Amdt 2 2019, Table 7.2

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.

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.

Where matrix spike recoveries fall below the lower limit of the acceptance criteria (e.g. for non-labile or standard Organics <60%), positive result(s) in the parent sample will subsequently have a higher than typical estimated uncertainty (MU estimates supplied on request) and in these circumstances the sample result is likely biased significantly low.

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.

Samples for Microbiological analysis (not Amoeba forms) received outside of the 2-8°C temperature range do not meet the ideal cooling conditions as stated in AS2031-2012.

Envirolab Reference: 376974 Page | 5 of 5 R00

CHAIN OF CUSTODY - Client



Envikoras Empl

ENVIROLAB GROUP

Company:	RCA Australia Fiona Brooker		Company:	RCA Australia	RCA Reference Number (i.e. report title)		
Contact person:			Fiona Brooker	13589a			
Project Mgr:			Fiona Brooker	PO No. (if applicable):	Not applicable		
Sampler:				Envirolab Quote No. :	BM8		
Address:				Date results required:			
		92 Hill	St Carrington, NSW 2294				
Phone:	02 4902 9200	Mob:				0	
Email results to:							

Lab comments:

administrator@rca.com.au + enviro@rca.com.au

ENVIROLAB GROUP

Sydney Lab - Envirolab Services 12 Ashley St, Chatswood, NSW 2067 02 9910 6200 sydney@envirolab.com.au

Email invoice to:	administra	tor@rca.com.au + enviro@	rca.com.au	Lab comments:						
Sample information				Tests Required Comm				Comments		
Envirolab Sample ID	Client Sample	ID Date sampled	Type of sample	# Containers	E27970 - Dust Deposition gauges - 3 fractions (Si, Sc, Sa)				(f) (%) ()	Provide as much information about the sample as you can
	DG1A	31/03/2025	Dust Gauge	1	×					Exposure Period
	DG2A	31/03/2025	Dust Gauge	1	x					28/02/2025
	DG3A	31/03/2025	Dust Gauge	1	×					to
	DG4A	31/03/2025	Dust Gauge	1	х					31/03/2025
	DG5A	31/03/2025	Dust Gauge	1	х				EDVIROL BB	Envirolab Services 92 Hill Street
									CE CE	wington Newcastle
	944-5-110-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1								Job No:	NSW 2294 Ph: (02) 9910 6200
									Date Received:	21/3/24
									Time Received:	14:10
									Received By:	2ブ
									Temp: Cool/Am	
									Cooling: Ice/Ice	
									Security: Intact/	Broken/None
			Total	5	5	يا با			Lab use only:	
					Envirolab					
		Anh Hoong	Print Name:		Santhoyh Joseph		Job Number		Cooling:	Ice / Ice Pack / None
			Date & Time:		31/3/25 14:15 Temperatur		001	Security Seal:	Intact / Broken / Not Used	
Signature: authorities		Signature:		As-		TAT Req:	SAME DAY / 1/	2/3/4/510		

Page No: 1 of 1



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 RECEIPT ADVICE

Client Details	
Client	RCA Australia
Attention	RCA Administrator

Sample Login Details		
Your reference	13589a	
Envirolab Reference	376974	
Date Sample Received	17/04/2025	
Date Instructions Received	31/03/2025	
Date Results Expected to be Reported	17/04/2025	

Sample Condition				
Samples received in appropriate condition for analysis				
No. of Samples Provided	5			
Turnaround Time Requested	Standard			
Temperature on Receipt (°C)				
Cooling Method	Nil			
Sampling Date Provided				

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.