

WATER MONITORING REPORT (APRIL TO JUNE 2026)
CONCRUSH FACILITY, TERALBA NSW 2284

Prepared for CONCRUSH PTY LTD

Prepared by RCA Australia

RCA ref 13589a-288/0

JULY 2026



RCA AUSTRALIA

ABN 53 063 515 711

92 Hill Street, CARRINGTON NSW 2294

Telephone: +61 2 4902 9200

Email: administrator@rca.com.auInternet: www.rca.com.au

This document is and shall remain the property of RCA Australia. The document may only be used for the purpose for which it was commissioned and in accordance with the Terms of Engagement for the commission supplied at the time of proposal. Unauthorised use of this document in any form whatsoever is prohibited.

DOCUMENT STATUS						
Rev No	Comment	Author	Reviewer	Approved for Issue (Project Manager)		
				Name	Signature	Date
/0	Final	D. Bucior	F. Brooker	F. Brooker		31.07.26

DOCUMENT DISTRIBUTION				
Rev No	Copies	Format	Issued to	Date
/0	1	Electronic (email)	Concrush Facility Ross Lo Monaco ross@concrush.com.au	31.07.26
/0	1	Electronic report	RCA – job archive	31.07.26

Contents

1.	INTRODUCTION	1
2.	SITE IDENTIFICATION AND DESCRIPTION.....	2
3.	MONITORING DETAILS	3
4.	MONITORING RESULTS.....	5
4.1	GROUNDWATER.....	5
4.2	SURFACE WATERS	7
4.3	DISCHARGE	10
5.	CONCLUSIONS AND RECOMMENDATIONS.....	12
6.	LIMITATIONS.....	13

APPENDIX A

FIELD SHEETS

APPENDIX B

LABORATORY REPORT SHEETS

RCA ref 13589a-288/0

31 July 2026

Concrush Pty Ltd
21 Racecourse Road
Teralba NSW 2284

Attention: Ross Lo Monaco

WATER MONITORING REPORT (APRIL TO JUNE 2026) CONCRUSH FACILITY, TERALBA

1. INTRODUCTION

This report presents the findings of water monitoring conducted at the Concrush Resource Recovery Facility in Teralba, NSW, during the April, May and June 2026 monitoring periods.

The site was an operational facility over the entirety of the monitored area for the reporting period.

The site's environmental protection licence, EPL13351, specifies water monitoring be undertaken at the two (2) surface water discharge locations (refer to **Figure 2** in **Section 3**) weekly during discharge. The remainder of monitoring was initially outlined in plans submitted as part of the State Significant Development application for an increase to the facility's capacity (as referenced on the Concrush website¹). There has been updates to the documentation following the completion of twelve (12) months of operation, in March 2024, and at the time of writing the guidance document is considered to be the:

- Groundwater Management Plan (GMP, Ref [1]).
 - It is noted that the ongoing monitoring requirements for groundwater will be incorporated into the Operational Environmental Management Plan for the site following the finalisation of modification arrangements currently in progress.
- Discharge Verification and Management Report (DVMR, Ref [2]).

This report was undertaken at the request of Ross Lo Monaco of Concrush Pty Ltd.

¹ Concrush.com.au

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 zoning²	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 35m east and wetland approximately 30m west.



Figure 1 *Project Site Location and Layout (aerial as of 7 February 2025)*

² <https://www.planningportal.nsw.gov.au/spatialviewer/#!/find-a-property/address>

3. MONITORING DETAILS

The site's water management scheme comprises:

- Collection of runoff and seepage from the Green Waste catchment, anticipated to potentially contain nutrients, in the Leachate Pond (LP) which was lined with a flexible membrane liner with a permeability of less than 10^{-14} m/s to prevent potential contamination of groundwater.
- Treatment of nutrients via a constructed Wetland (WL) which has also been lined and populated with appropriate plants to maximise the removal of nutrients. Water is pumped into the WL from the LP.
- Collection of runoff from the remainder of the site into Sediment Dam 1 (SED1) and Sediment Dam 2 (SED2). Water from the Wetland discharges into SED2.

Concrush aims to re-use all surface water on site such that none is discharged however in high rainfall events or periods, some discharge may occur from one or both of the Sediment Dams into the un-named waterway along the western border of the site. This waterway runs to the north and Cockle Creek at the northern end of the site and to the south, wetlands and eventually Cockle Creek at the southern end of the site; the location at which the flow direction changes has not been identified and may vary with seasonal conditions.

A total of eight (8) monitoring locations are situated on-site comprising four (4) surface water locations (LP, WL, SED1 and SED2), two (2) discharge points (SW1 and SW2) and two (2) groundwater locations (GW1 and GW3). Additionally, two (2) off-site background surface water locations (BSW1 and BSW2) are included in the monitoring programme. These locations are shown in **Figure 2**.



Figure 2 Water sampling locations (aerial as of 25 May 2025)

It is noted that, due to significant vegetation growth to the south of the site, that the sampling undertaken for BSW2 has been moved to within approximately ten (10) metres of the location of SW2, estimated to be thirty (35) metres to the north of the initial sampling location.

Monitoring is undertaken on a monthly basis, typically the last working day of the month however adjusted for the compliance of dust monitoring undertaken at the site, and comprises the recording of depths of water, field readings using a calibrated water quality monitor and the collection of samples for chemical analyses as detailed in **Table 2** below.

Table 2 *Analytical Scope*

Location	Monitored Parameters
GW1	• Depth to groundwater. • Field readings. • Nutrients (ammonia, nitrate, nitrite, total phosphorous). • Hydrocarbons⁴ once a quarter.
GW3	
LP	• Field observation of water depth at LP. • Field readings. • pH, electrical conductivity (EC), total suspended solids (TSS). • Nutrients (ammonia, nitrate, nitrite, total Kjeldahl nitrogen, total phosphorous).
WL	
SED1	• Field readings. • pH, EC, TSS. • Dissolved metals³. • Hydrocarbons⁴. • Nutrients (ammonia, nitrate, nitrite, total Kjeldahl nitrogen, total phosphorous).
SED2	
BSW1	
BSW2	

In the event of discharge from one or both of the Sediment Dams, sampling is undertaken at the discharge points and the associated background surface water locations. Analyses comprise field readings, general water quality, dissolved metals, hydrocarbons and nutrients.

Field sheets are presented in **Appendix A** and laboratory reports are included in **Appendix B**.

Results of the water monitoring are compared to criteria as specified in the GMP (Ref [1]) and / or the DVMR (Ref [2]) on a monthly basis and presented to Concrush in tables and graphs only.

³ Aluminium, arsenic, cadmium, chromium, hexavalent chromium, cobalt, copper, lead, nickel, selenium, zinc, boron. Samples are 0.45µm field filtered prior to preservation for metals analyses.

⁴ Benzene, toluene, ethylbenzene, xylene, naphthalene (BTEXN), total recoverable hydrocarbons (TRH) and polycyclic aromatic hydrocarbons (PAH).

4. MONITORING RESULTS

4.1 GROUNDWATER

Results of the groundwater monitoring undertaken in the quarter compared to the ecological criteria for fresh and marine waters (Ref [3]) are presented in **Table 3** below. In summary:

- The depth to groundwater varied between April and June at both wells. It is noted that at GW1, the depth was measured from ground level, whereas at GW3, the measurements included the length of the standpipe protruding above ground. Historical assessments indicate that the groundwater flow direction is from the western boundary of the site toward the eastern boundary.
- The temperature of the groundwater measured by the portable meter at the field slightly varied over the monitoring period and between the wells.
- The pH was generally neutral at GW1 while at GW3 it was generally slightly acidic.
- The EC obtained from the portable meter in GW1 fell within the range indicative of fresh water. GW3 had the higher levels during the quarter and fell within the range of brackish water.
- The turbidity of the groundwater obtained from the portable meter at the field was high at both wells (noting that the meter provides a flashing 0.00 reading when the turbidity is too high (>1000 NTU) to be quantified). A non-return foot valve was used to collect the water samples, as alternative methods were not feasible due to kinks in the pipes. RCA personnel took care to avoid contact between the tip of the foot valve and the sediment at the base of the wells however it is considered that the sampling methodology may have increased the turbidity.
- The dissolved oxygen in both wells obtained from the portable meter at the field was low. It is noted that the sampling method can cause higher than representative dissolved oxygen levels.
- Ammonia (as N) and total phosphorus (as P) consistently exceeded the relevant ecological criteria however align with historical data. It is noted that the site is located in the Cockle Creek Estuary catchment that forms part of the broader Lake Macquarie catchment area, an ecosystem known for natural nutrient inflows that can contribute to higher concentrations of nitrogen and phosphorus.
- Nitrate (as N) and NO_x (as N) were either non-detected or at low concentrations below the relevant criteria, consistent with historical data. Low dissolved oxygen levels are considered likely to inhibit the activity of nitrifying bacteria responsible for converting ammonia to nitrite and subsequently to nitrate.
- BTEXN compounds were not detected, consistent with historical data.
- TRH was detected in both GW1 and GW3 in May (only sampling event for the quarter). It is noted that the last detection of TRH for GW3 occurred in May 2025 and was confirmed to be non-petroleum based. In the absence of any visual or olfactory indicators, it is considered likely that the detections are of a similar nature.
- PAH were non-detected, consistent with historical data.

Table 3 *Groundwater Analysis Results.*

Analysis	Aquatic Ecosystem Guideline ^A		GW1			GW3		
Date Sampled	95% Fresh	95% Marine	29/04	26/05	25/06	29/04	26/05	25/06
Depth to Groundwater	--	--	2.35	1.72	2.072	3.91	3.25	3.303
Temperature (°C)*	--	--	21.97	20.9	17.95	23.48	21.7	18.92
pH (pH units)*	--	--	7.20	7.33	7.73	6.48	6.43	6.74
EC (mS/cm)*	--	--	1.10	0.966	1.02	1.8	1.87	2.46
Turbidity (Nephelometric Turbidity Unit)*	--	--	>1000	Not recorded	29.2	389	Not recorded	>1000
Dissolved Oxygen*	--	--	1.16	Not recorded	1.25	7.39	Not recorded	2.22
Ammonia	0.9	0.91	<u>1.9</u>	<u>1.5</u>	<u>1.1</u>	<u>3.2</u>	<u>3.4</u>	<u>2.9</u>
Nitrate	2.4		0.005	<0.005	0.03	0.02	0.02	<0.02
NO _x	0.04		0.008	<0.005	0.03	0.04	0.03	<0.02
Total Phosphorus	0.025		<u>0.2</u>	<u>0.3</u>	<u>0.52</u>	<u>0.06</u>	<u>0.1</u>	<u>0.08</u>
Benzene	0.95	0.5	--	<0.001	--	--	<0.001	--
Toluene	0.18		--	<0.001	--	--	<0.001	--
Ethylbenzene	0.08	0.005	--	<0.001	--	--	<0.001	--
Meta- and para-Xylene	0.275		--	<0.002	--	--	<0.002	--
Ortho-Xylene	0.35		--	<0.001	--	--	<0.001	--
TRH C ₆ -C ₄₀	0.007		--	0.33	--	--	0.27	--
Naphthalene	0.016	0.07	--	<0.0001	--	--	<0.0001	--
Phenanthrene ^B	0.002	0.002	--	<0.0001	--	--	<0.0001	--
Anthracene ^B	0.0004	0.0004	--	<0.0001	--	--	<0.0001	--
Fluoranthene ^B	0.0014	0.0014	--	<0.0001	--	--	<0.0001	--
Benzo(a)pyrene ^B	0.0002	0.0002	--	<0.0001	--	--	<0.0001	--

All units in mg/L except where otherwise noted

^A Criteria from ANZG (Ref [3]) with the exception of NO_x and phosphorus for Lowland Rivers (coastal environment where available)Results shown in **bold** more than 95% freshwater guidelines/ the lowland (coastal) river guidelines

Data marked with an asterisk (*) were obtained using a portable multiparameter meter (Horiba).

-- indicates no guidelines applicable and / or analyses not required during the specific month

^B Bio-accumulative Compounds. Results with '<' below the detection limitResults shown in underline in excess of 95% marine water guidelines

4.2 SURFACE WATERS

Results of the surface water monitoring undertaken in the quarter compared to the criteria (Ref [2]) are presented in **Table 4** and **Table 5** below. The leachate pond and wetland were dry and there was no active flow observed at BSW1 in April 2026; no samples were collected at these locations.

In summary:

- pH levels at LP, WL, BSW1 and BSW2 were within the trigger range. In contrast, pH consistently exceeded the trigger range at both SED1 and SED2, indicating alkaline conditions.
- No EC values exceeded the trigger value BSW1, BSW2, SED1 or SED2 throughout the monitoring period; the LP in May and June, and WL in May results exceeded the trigger.
- TSS were considered low to moderate in all samples.
- Ammonia concentrations were above the trigger value at WL and LP for all sampling events throughout the quarter. Elevated concentrations were recorded at two (2) monitoring events (May and June) at SED1 and at one (1) event at the background water locations BSW1 and BSW2 in May.
 - It is noted that plant matter was difficult to exclude from the WL samples, and any elevated ammonia concentrations observed may, at least in part, reflect this material rather than the actual concentrations in the water.
- Nitrate and NO_x were detected above the trigger values in May and June at SED 1 and SED2 and in May only at BSW1 and BSW2. The results for WL and LP were either not detected or detected at low concentrations.
- Total nitrogen consistently exceeded the trigger values at all monitoring locations for the quarter: total Kjeldahl nitrogen comprised >70% of all results at BSW1 and BSW2 in June; LP and WL in May and June; and SED1 and SED2 in April. The remaining monitoring locations comprised total Kjeldahl nitrogen of <70% of all results.
- Total phosphorus consistently exceeded the trigger values at all monitoring locations for the quarter with the exception of BSW1 results and SED 1 and BSW2 May and June results.
- Aluminium exceeded the trigger value for all monitoring events at SED1 during the quarter. The Aluminium trigger value was exceeded at SED2 in April and June and BSW1 in June. Aluminium was non detected or detected at low concentrations for BSW2 during the quarter.
- Chromium exceeded the trigger value at monitoring events at SED1 and SED 2 during May and June with the remaining results below the trigger value (most were not detected). Hexavalent chromium was in excess of the trigger value in both SED1 and SED2 in May and June. Hexavalent chromium was not detected in the background waters in any event during the quarter.
- Zinc exceeded the trigger value at both the BSW monitoring locations in May and June; all concentrations at the Sediment Dams were below the trigger value.
- The remaining metals (arsenic, cadmium, cobalt, copper, lead, nickel, selenium, boron) were either non-detected or detected at low concentrations well below the respective trigger values at all locations.
- Low concentrations of TRH were detected at SED1 in April and May; and SED2 and BSW2 in May. As noted for groundwater, in the absence of any visual or olfactory indicators, it is considered likely that the detections are not related to petroleum contamination.

Table 4 *Surface Water Analysis Results – Green Waste Catchment*

Analyte	Trigger Values	LP			WL		
Date Sampled		29/04	26/05	25/06	29/04	26/05	25/06
pH (pH units)	6.5-8.5	--	7.8	8.2	--	7.4	7.1
EC (μ S/cm)	125-2200	--	4000	3300	--	3000	1600
TSS	NA	--	170	38	--	150	120
Ammonia	0.0264	--	4.00	3.20	--	0.24	0.24
Nitrate	0.44	--	<0.05	<0.05	--	0.16	0.03
NO _x	0.491	--	<0.05	<0.05	--	0.16	0.04
Total Nitrogen	0.645	--	30	33	--	15	12
Total Phosphorus	0.0168	--	13	12	--	8.3	4.0

All units in mg/L except where otherwise noted

NA - not applicable

--" dry conditions, no sample analysis

Results shown in **bold** in excess of the trigger values (Ref [2])

Results with '<' are below the detection limit

Table 5 Surface Water Analysis Results – Remainder of Site

Analyte	Trigger Values	SED1			BSW1			SED2			BSW2		
Date Sampled		29/04	26/05	25/06	29/04	26/05	25/06	29/04	26/05	25/06	29/04	26/05	25/06
pH (pH units)	6.5-8.0	8.0	9.0	9.0	--	7.1	7.2	8.5	9.0	9.5	7.5	7.2	7.2
Electrical Conductivity (µS/cm)	125-2200	970	590	530	--	560	750	410	640	830	920	650	680
Total Suspended Solids	NA	99	24	14	--	5	<5	58	160	46	36	8	6
Ammonia	0.0264	0.007	0.35	0.05	--	0.089	0.02	0.007	0.32	0.02	<0.005	0.4	0.05
Nitrate	0.44	0.008	1.3	0.47	--	0.7	0.38	0.04	0.58	3.6	<0.005	1.5	0.01
NO _x	0.491	0.009	2.1	1.1	--	0.72	0.39	0.04	1.6	4.1	<0.005	1.6	0.02
Total Nitrogen	0.645	1.6	3.0	2.8	--	1.0	1.5	0.7	2.6	5.4	1.6	2.0	0.7
Total Phosphorus	0.0168	0.2	0.09	<0.05	--	0.006	0.006	0.2	0.2	0.2	0.4	0.06	0.05
Aluminium	0.08	0.09	0.13	0.15	--	0.01	0.14	0.11	0.07	0.29	0.03	<0.01	<0.01
Arsenic	0.094	0.006	0.004	0.005	--	0.002	0.002	0.006	0.007	0.009	0.016	0.004	0.002
Cadmium	0.0004	<0.0001	<0.0001	<0.0001	--	<0.0001	0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001
Chromium	0.02	<0.001	0.033	0.024	--	0.001	<0.001	<0.001	0.031	0.036	<0.001	<0.001	<0.001
Hexavalent Chromium	0.0033	<0.005	0.03	0.02	--	<0.005	<0.005	<0.005	0.02	0.03	<0.005	<0.005	<0.005
Cobalt	0.015	0.001	<0.001	<0.001	--	<0.001	<0.001	0.001	0.001	0.003	<0.001	<0.001	<0.001
Copper	0.02	0.003	0.012	0.008	--	0.005	0.005	0.003	0.009	0.018	0.001	0.007	0.002
Lead	0.0056	<0.001	<0.001	<0.001	--	<0.001	0.001	<0.001	<0.001	<0.001	<0.001	<0.001	<0.001
Nickel	0.013	0.003	0.003	0.002	--	0.002	0.002	<0.001	0.002	0.004	0.002	0.002	<0.001
Selenium	0.018	<0.001	0.001	0.001	--	<0.001	<0.001	<0.001	<0.001	0.001	<0.001	<0.001	<0.001
Zinc	0.015	0.004	0.002	0.011	--	0.04	0.047	0.009	0.001	0.012	0.008	0.031	0.024
Boron	0.68	0.1	0.07	0.05	--	0.10	0.08	0.03	0.06	0.05	0.07	0.08	0.06
TRH C ₆ -C ₄₀	10	0.27	0.23	0.13	--	0.13	0.13	0.13	0.368	0.13	0.13	0.19	0.13

All units in mg/L except where otherwise noted, Results shown in **bold** are in excess of the management triggers (Ref [2]), NA – Not applicable, Results with '<' are below the detection limit.

4.3 DISCHARGE

The Bureau of Meteorology weather station at Cooranbong, approximately 21 km to the southwest of the site, recorded a total rainfall of 272.8 mm during the monitoring period, distributed as 30.8 mm in April, 157.8 mm in May, and 83.4 mm in June. **Figure 3** below illustrates these monthly totals, along with the cumulative rainfall.

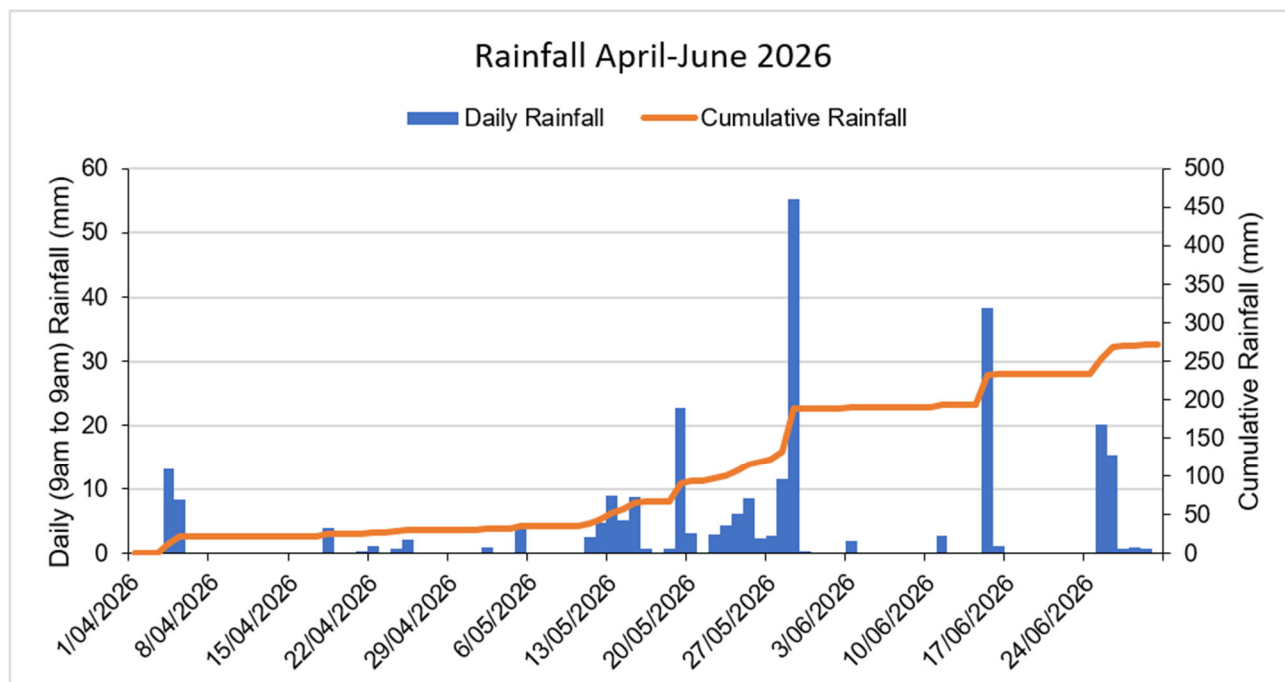


Figure 3 Rainfall for the Monitoring Period (sourced from Bureau of Meteorology weather station at Cooranbong)

One (1) discharge event occurred in the monitoring period from Sediment Dam 2 only on 26th May 2026 for which there was 11.0 mm in the previous forty-eight (48) hours as at 9 a.m. A sample was collected at SW2 during the discharge event; RCA were at the site at the time of the discharge and the BSW2 sample was collected as part of the routine monthly monitoring. **Table 6** presents water quality data for the discharge at the spillways and background surface waters.

Results of note are considered to be:

- pH was more alkaline than the trigger range at SW2.
- Nitrate and NO_x concentrations were in excess of the respective trigger values at both SW2 and BSW2.
- Total nitrogen was in excess of the trigger value at both locations. NO_x was the dominant (>59%) form at both locations however TKN was significantly higher at SW2 than at BSW2.
- Total phosphorus was in excess of the trigger value at both locations.
- Metals were either not detected or at low concentrations below the relevant trigger values except for zinc which exceeded the trigger values at both locations and chromium and hexavalent chromium which exceeded the trigger values at SW2.
- Hydrocarbons were detected at SW2 and BSW2 below the relevant trigger value.

Table 6 *Discharge and Background Water Quality*

Parameters	Trigger values	SW2	BSW2
Date Sampled		26 th May 2026	
pH (pH units)	6.5-8.5	9.0	7.2
EC (μ S/cm)	125-2200	620	650
TSS	NA	130	8
Ammonia	0.0264	0.16	0.40
Nitrate as N	0.44	0.5	1.5
NO _x as N	0.491	1.6	1.6
Total N	0.645	2.7	2.0
Total Phosphorus as P	0.0168	0.10	0.06
Aluminium	0.08	0.08	<0.01
Arsenic	0.094	0.007	0.004
Cadmium	0.0004	<0.0001	<0.0001
Chromium	0.02	0.028	<0.001
Hexavalent Chromium	0.0033	0.02	<0.005
Cobalt	0.015	0.001	<0.001
Copper	0.02	0.011	0.007
Lead	0.0056	<0.001	<0.001
Nickel	0.013	0.003	0.002
Selenium	0.018	<0.001	<0.001
Zinc	0.015	0.028	0.031
Boron	0.68	0.06	0.08
TRH C6-C40	10	0.388	0.19

All unit in mg/L where otherwise noted.

NA indicates no trigger values applied.

Results shown in **bold** are in excess of the management triggers (Ref [2]) and results with '<' are below the detection limits

5. CONCLUSIONS AND RECOMMENDATIONS

Water monitoring was undertaken at the Concrush Resource Recovery Facility through the April-June 2026 quarter in general compliance with the requirements of the EPL and relevant management plans (Ref [1] and Ref [2]). The absence of samples at WL, BSW1 and LP due to dry conditions is not considered to represent non-compliance.

The following conclusions have been made with respect to this quarter's monitoring events:

- Groundwater is not considered to show any impact from the site's operations. Results are generally consistent with the historical results, including those prior to the commencement of operations in the southern portion of the site, and the results are not considered to indicate any potential impact from the LP or SED2, and are rather considered to be representative of the groundwater characteristics within the former wetlands. There are no indications of hydrocarbon contamination in the groundwater.
- The leachate pond had high EC and significant concentrations of ammonia and TKN in May and June generally consistent with previous monitoring.
- The results for both Sediment Dams were generally consistent with the previous monitoring; pH was alkaline at both locations. Ammonia and phosphorous were higher at SED2, consistent with expectations associated with the leachate pond however NO_x was higher and was the dominant nitrogen form in SED1 except for the April monitoring event. TKN was the dominant nitrogen form at SED1 in April and June except for the May monitoring event. Aluminium is present at concentrations in excess of the criterion at both locations; hexavalent chromium concentrations are generally consistent with those detected previously at SED1 however are slightly reduced at SED2. Hydrocarbons were detected at low concentrations however are not considered to be from petroleum-based sources based on absence of any visual or olfactory indications.
- Exceedances of chromium and hexavalent chromium trigger value were observed in the Sediment Dams in May and June; however, these exceedances were not identified in the available background water data. A minor detection of chromium was observed at BSW1 in May, however it was not above the trigger level. Aluminium exceeded the trigger value in the April, May and June monitoring rounds at SED1, in April and June at SED2 and one exceedance was identified at BSW1 in the June round. In the background waters, zinc exceeded the trigger value only during the May and June monitoring rounds. All other metals were either not detected or detected at low concentrations below their respective trigger values.
- One (1) discharge event occurred during the quarter. Surface water management at the site successfully prevented discharge during other rainfall events. During the event, nutrients, chromium, hexavalent chromium and zinc exceeded their respective trigger values at SW2, with elevated pH observed. While nutrient levels in the background waters increased during the discharge events, the discharge is not considered to have had a significant impact on the receiving environment due to the limited volume released off-site.

Water monitoring will continue during the next quarter in accordance with the GMP (Ref [1]) and the DVMR (Ref [2]). The next quarterly report will be prepared after the completion of the September 2026 sampling.

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.

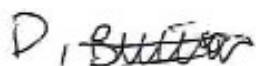
This report has been prepared for the sole use of Concrush Pty Ltd. The report may not contain sufficient information for purposes of other uses or for parties other than Concrush Pty Ltd. This report shall only be presented in full and may not be used to support objectives other than those stated in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

The information in this report is considered accurate at the date of issue with regard to the current conditions of the site. Conditions can vary across any site that cannot be explicitly defined by investigation. Please contact the undersigned if you have any queries.

Environmental conditions including contaminant concentrations can change in a limited period of time. This should be considered if the report is used following a significant period of time after the date of issue.

Yours faithfully

RCA AUSTRALIA



Damien Bucior
Environmental Scientist
B Science

REFERENCES

- [1] RCA Australia, *Groundwater Management Plan, Expansion of the Concrush Resource Recovery Facility, Teralba*, RCA ref 13589-805/1, September 2020.
- [2] ENGENY, *Concrush Pty Ltd, Discharge Verification and Mitigation Report*, February 2024.
- [3] ANZG, Australian and New Zealand Guidelines for Fresh and Marine Water Quality Australian and New Zealand Governments and Australian state and territory governments, Canberra ACT, Australia., August 2018. Available at www.waterquality.gov.au/anz-guidelines.

Appendix A

Field Sheets

ENGINEERING FIELD SHEET WATER SAMPLING RECORD

CLIENT: Concrush Pty Ltd
PROJECT: Water Quality Monitoring
LOCATION: 21 Racecourse Road, Teralba
PERSONNEL: Damian

DATE: 27-4-20
PROJECT No: 13589a
CLIENT REF: JB

WATER METER USED: Horiba

DATE & TYPE OF LAST CALIBRATION (1PT OR FULL): Full – refer to Environment Drive for Calibration Certified

METHOD OF SAMPLING: Foot valve for Groundwater, direct for Ponds, Wetland, Basins and Surface Water

PRESERVATION & STORAGE (TICK):

Chilled (<4°C) ☒

Get Key for side gate from weighbridge to get to SW2

Groundwater: Nutrients each month, TRH, PAH and BTEX every 3 months.

Leachate Pond and Wetland: , EC, TSS and Nutrients every month.

TESTS REQUIRED: Sediment Basins: pH, EC, TSS, metals (dissolved) and TRH every month.

Spillways: , EC, TSS, metals (dissolved) and TRH when discharging.

Background Surface water: pH, EC, TSS, metals (dissolved) and TRH every month.

OTHER DETAILS: Refer to Duplicate Register – name duplicate QAMonthYear.

BORE OR LOCATION ID: BH3 (Eastern end – adjacent Racecourse Road) Label bottles 'GW3'						
TIME: <u>11:40am</u> TO <u>12:10pm</u>						
BORE DEPTH: <u>5.09</u>			HEIGHT ABOVE GROUND LEVEL: <u>0.85</u>			
DEPTH TO AQUIFER: <u>3.919</u>			VOLUME PURGED: <u>3L</u>			
RESULTS OF WATER QUALITY CHECK: <u>Light brown opaque water no odour</u>						
Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	<u>6.16</u>	<u>1.83</u>	<u>939</u>	<u>6.80</u>	<u>23.99</u>	<u>0.092</u>
2/	<u>6.27</u>	<u>1.89</u>	<u>506</u>	<u>7.45</u>	<u>23.47</u>	<u>0.093</u>
3/	<u>6.48</u>	<u>1.80</u>	<u>387</u>	<u>7.39</u>	<u>23.48</u>	<u>0.091</u>
4/						
5/						
6/						
Sample Appearance: <u>Light brown opaque water no odour</u>						
Duplicate Identification and Other Remarks:						

BORE OR LOCATION ID: Leachate Pond (Eastern end – adjacent Racecourse Road). Sample at outlet to Wetland Pond. Label bottles 'LP'						
TIME: _____ TO _____						
If discharge not running, remove the cord from time and put directly into power. At the completion of sampling, return the time to the system.						
RESULTS OF WATER QUALITY CHECK: <u>OK no sample</u>						
Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/						
2/						
3/						
4/						
5/						
6/						
Sample Appearance:						
Duplicate Identification and Other Remarks:						

BORE OR LOCATION ID: Wetland (Eastern end – adjacent Racecourse Road). Label bottles 'WL'

TIME: _____ **TO** _____

RESULTS OF WATER QUALITY CHECK: DRY NO SAMPLE

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/						
2/						
3/						
4/						
5/						
6/						

Sample Appearance: _____

Duplicate Identification and Other Remarks: _____

BORE OR LOCATION ID: Sediment Dam 2 (Southwest corner – adjacent railway). Label bottles 'Sed2'

TIME: 9:40 **TO** 10:20

RESULTS OF WATER QUALITY CHECK: BROWN TINTED WATER NO READING

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	<u>9.50</u>	<u>8.59</u>	<u>0.515</u>	<u>136</u>	<u>9.10</u>	<u>20.63</u>
2/	<u>9.52</u>	<u>8.58</u>	<u>0.459</u>	<u>122</u>	<u>7.06</u>	<u>19.86</u>
3/	<u>8.54</u>	<u>8.46</u>	<u>0.433</u>	<u>128</u>	<u>5.61</u>	<u>17.50</u>
4/	<u>8.56</u>	<u>8.37</u>	<u>0.430</u>	<u>153</u>	<u>5.17</u>	<u>19.32</u>
5/						
6/						

Sample Appearance: BROWN TINTED WATER NO SKUM OR SMELL

Duplicate Identification and Other Remarks: QA 0520
0.5m

BORE OR LOCATION ID: Surface Water 2. Label bottles 'SW2' – Previously known as 'SID-SED2'

TIME: _____ **TO** _____ **WATCH for SNAKES**

May have to get sample from outside fence

RESULTS OF WATER QUALITY CHECK: DRY

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/						
2/						
3/						
4/						
5/						
6/						

Sample Appearance: _____

Duplicate Identification and Other Remarks: _____

29-4-26,

BORE OR LOCATION ID: BSW2 (Western end, south of site boundary, down ladder). Label bottles 'BSW2' –
 Previously known as 'SW2'
TIME: 10.50 **TO** 11.20 **WATCH for SNAKES**
 Be careful – poor footing

RESULTS OF WATER QUALITY CHECK: water clear brown this side no odor

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/10.55	7.21	0.871	34.2	3.59	19.14	0.043
2/10.57	7.24	0.946	21.0	3.36	18.51	0.047
3/10.59	7.27	0.999	24.2	5.79	18.23	0.046
4/						
5/						
6/						

Sample Appearance: clear light brown this side no odor
Duplicate Identification and Other Remarks:

BORE OR LOCATION ID: BH1 (Western end – adjacent Railway) Label bottles 'GW1'
TIME: 10.20 am **TO** 10.50
BORE DEPTH: 4.77 **HEIGHT ABOVE GROUND LEVEL:** N/A
DEPTH TO AQUIFER: 2.352 **VOLUME PURGED:** 3L
RESULTS OF WATER QUALITY CHECK: Turbidity grey water no smell

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/10.31	7.10	1.03	0	8.55	20.79	0.057
2/10.33	7.16	1.11	0	6.95	21.38	0.057
3/10.35	7.20	1.10	0	1.16	21.97	0.057
4/						
5/						
6/						

Sample Appearance:
Duplicate Identification and Other Remarks:

BORE OR LOCATION ID: Sediment Dam 1 (North west corner – adjacent railway). Label bottles 'Sed1'
TIME: 8.50 **TO** 9.25

RESULTS OF WATER QUALITY CHECK: water yellow this side no odor

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/9.02	7.26	1.39	274	4.96	17.22	0.068
2/9.06	7.40	1.09	259	4.49	18.58	0.059
3/9.07	7.52	1.03	259	9.01	18.12	0.051
4/9.10	7.66	1.02	260	8.96	18.20	0.050
5/						
6/						

Sample Appearance:
Duplicate Identification and Other Remarks: 0.3m deep

BORE OR LOCATION ID: Surface Water 1. Label bottles 'SW1' – Previously known as 'DIS-SED1'

TIME: _____ **TO** _____

BORE DEPTH: _____ **HEIGHT ABOVE GROUND LEVEL:** _____

DEPTH TO AQUIFER: _____ **VOLUME PURGED:** _____

RESULTS OF WATER QUALITY CHECK: _____

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/						
2/						
3/						
4/						
5/						
6/						

Sample Appearance: _____

Duplicate Identification and Other Remarks: _____

BORE OR LOCATION ID: BSW1 (Western side of Racecourse Road, north of rail access drive). Label bottles 'BSW1' – Previously known as 'SW1'

TIME: _____ **TO** _____

BORE DEPTH: _____ **HEIGHT ABOVE GROUND LEVEL:** _____

DEPTH TO AQUIFER: _____ **VOLUME PURGED:** _____

RESULTS OF WATER QUALITY CHECK: _____

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/						
2/						
3/						
4/						
5/						
6/						

Sample Appearance: _____

Duplicate Identification and Other Remarks: _____

ENGINEERING FIELD SHEET WATER SAMPLING RECORD

CLIENT: Concrush Pty Ltd
PROJECT: Water Quality Monitoring
LOCATION: 21 Racecourse Road, Teralba
PERSONNEL: DG Miller

DATE: 26/5/26
PROJECT No: 13589a
CLIENT REF: _____

WATER METER USED: Horiba

DATE & TYPE OF LAST CALIBRATION (1PT OR FULL): Full – refer to Environment Drive for Calibration Certified

METHOD OF SAMPLING: Foot valve for Groundwater, direct for Ponds, Wetland, Basins and Surface Water

PRESERVATION & STORAGE (TICK): Chilled (<4°C) ☐

Groundwater: Nutrients each month, TRH, PAH and BTEX every 3 months.
 Leachate Pond and Wetland: , EC, TSS and Nutrients every month.

TESTS REQUIRED: Sediment Basins: pH, EC, TSS, metals (dissolved) and TRH every month.
 Spillways: , EC, TSS, metals (dissolved) and TRH when discharging.

Background Surface water: pH, EC, TSS, metals (dissolved) and TRH every month.

Get Key for side gate from weighbridge to get to SW2

OTHER DETAILS: Refer to Duplicate Register – name duplicate QAMonthYear.

BORE OR LOCATION ID: BH3 (Eastern end – adjacent Racecourse Road) Label bottles 'GW3'						
TIME: <u>1.05</u>		TO <u>1.40 PM</u>				
BORE DEPTH: <u>5.09</u>		HEIGHT ABOVE GROUND LEVEL: _____				
DEPTH TO AQUIFER: <u>3.254</u>		VOLUME PURGED: <u>3L</u>				
RESULTS OF WATER QUALITY CHECK:						
Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	<u>1.10</u>	<u>6.48</u>	<u>2.07</u>	<u>-16.1</u>	<u>21.6</u>	<u>1.0</u>
2/	<u>1.15</u>	<u>6.51</u>	<u>1.905</u>	<u>-13.7</u>	<u>21.8</u>	<u>0.9</u>
3/	<u>1.20</u>	<u>6.43</u>	<u>1.873</u>	<u>-18.4</u>	<u>21.7</u>	<u>0.9</u>
4/						
5/						
6/						
Sample Appearance: <u>Brown tinted water sediment in column</u>						
Duplicate Identification and Other Remarks: _____						

BORE OR LOCATION ID: Leachate Pond (Eastern end – adjacent Racecourse Road). Sample at outlet to Wetland Pond. Label bottles 'LP'						
TIME: <u>12.55</u>		TO <u>1.05 PM</u>				
If discharge not running, remove the cord from time and put directly into power. At the completion of sampling, return the time to the system.						
RESULTS OF WATER QUALITY CHECK:						
Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	<u>12.56</u>	<u>8.04</u>	<u>4.46</u>	<u>-75.6</u>	<u>20.2</u>	<u>2.0</u>
2/	<u>12.58</u>	<u>8.06</u>	<u>4.14</u>	<u>-75.7</u>	<u>20.1</u>	<u>1.8</u>
3/	<u>1.00 PM</u>	<u>8.06</u>	<u>4.15</u>	<u>-75.6</u>	<u>20.1</u>	<u>1.8</u>
4/						
5/						
6/						
Sample Appearance: <u>Brown coloured water of 50m column</u>						
Duplicate Identification and Other Remarks: _____						

BORE OR LOCATION ID: Wetland (Eastern end – adjacent Racecourse Road). Label bottles 'WL'

TIME: 12.25 TO 12.50 PM

RESULTS OF WATER QUALITY CHECK: Brown coloured water m. id odor

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	12.35	2.65	2.95	-53.2	23.2	1.9
2/	12.39	2.66	2.85	-52.7	22.2	1.3
3/	12.41	2.52	3.67	-49.4	22.0	1.4
4/						
5/						
6/						

Sample Appearance: _____

Duplicate Identification and Other Remarks: QA0526

BORE OR LOCATION ID: Sediment Dam 2 (Southwest corner – adjacent railway). Label bottles 'Sed2'

TIME: 10.30 TO 10.49

RESULTS OF WATER QUALITY CHECK: Op 99 u water brown fished

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	10.35	9.09	172.8	-137.2	18.9	0.6
2/	10.37	9.10	703.4	-137.2	18.9	0.3
3/	10.39	9.09	645.8	-132.7	19.2	0.3
4/						
5/						
6/						

Sample Appearance: _____

Duplicate Identification and Other Remarks: _____

BORE OR LOCATION ID: Surface Water 2. Label bottles 'SW2' – Previously known as 'SID-SED2'

TIME: 1.50 PM TO 2.10 PM

WATCH for SNAKES

May have to get sample from outside fence

RESULTS OF WATER QUALITY CHECK: Brown coloured water slightly op 99 u

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	2 PM	8.87	1050	-136.3	21.8	0.5
2/	2.07	9.11	1025	-136.8	21.8	0.5
3/	2.09	9.12	1003	-137.7	21.8	0.5
4/						
5/						
6/						

Sample Appearance: _____

Duplicate Identification and Other Remarks: _____

BORE OR LOCATION ID: BSW2 (Western end, south of site boundary, down ladder). Label bottles 'BSW2' –
 Previously known as 'SW2'
TIME: 11.20 **TO** 11.50 am

WATCH for SNAKES
 Be careful – poor footing

RESULTS OF WATER QUALITY CHECK: Clear water slight brown tinge

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	<u>7.02</u>	<u>604.1</u>	<u>-20.7 mV</u>		<u>19.4</u>	<u>0.3</u>
2/	<u>7.16</u>	<u>568.3</u>	<u>-22.8</u>		<u>19.9</u>	<u>0.3</u>
3/	<u>7.29</u>	<u>637.2</u>	<u>-30.6</u>		<u>19.5</u>	<u>0.3</u>
4/						
5/						
6/						

Sample Appearance: _____
Duplicate Identification and Other Remarks: _____

BORE OR LOCATION ID: BH1 (Western end – adjacent Railway) Label bottles 'GW1'
TIME: 10.55 **TO** 11.10 am
BORE DEPTH: 4.77 **HEIGHT ABOVE GROUND LEVEL:** 0
DEPTH TO AQUIFER: 1.717 **VOLUME PURGED:** 3L

RESULTS OF WATER QUALITY CHECK: Clear brown tised water slight brown tinge

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	<u>7.28</u>	<u>974.5</u>	<u>-30.3 mV</u>		<u>20.9</u>	<u>0.4</u>
2/	<u>7.25</u>	<u>960.6</u>	<u>-29.0 mV</u>		<u>21.0</u>	<u>0.4</u>
3/	<u>7.33</u>	<u>966.6</u>	<u>-33.7 mV</u>		<u>20.9</u>	<u>0.4</u>
4/						
5/						
6/						

Sample Appearance: _____
Duplicate Identification and Other Remarks: _____

BORE OR LOCATION ID: Sediment Dam 1 (North west corner – adjacent railway). Label bottles 'Sed1'
TIME: 9.10 **TO** 10.00 am

RESULTS OF WATER QUALITY CHECK: Clear slight brown tised

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	<u>8.99</u>	<u>865.7 mV</u>			<u>18.6</u>	<u>0.4</u>
2/	<u>9.01</u>	<u>627.5</u>			<u>18.4</u>	<u>0.3</u>
3/	<u>9.00</u>	<u>631.6</u>			<u>18.6</u>	<u>0.3</u>
4/						
5/						
6/						

Sample Appearance: _____
Duplicate Identification and Other Remarks: _____

BORE OR LOCATION ID: Surface Water 1. Label bottles 'SW1' – Previously known as 'DIS-SED1'

TIME: _____ **TO** _____

BORE DEPTH: _____ **HEIGHT ABOVE GROUND LEVEL:** _____

DEPTH TO AQUIFER: _____ **VOLUME PURGED:** _____

RESULTS OF WATER QUALITY CHECK: no discolor

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/						
2/						
3/						
4/						
5/						
6/						

Sample Appearance: _____

Duplicate Identification and Other Remarks: _____

BORE OR LOCATION ID: BSW1 (Western side of Racecourse Road, north of rail access drive). Label bottles 'BSW1' – Previously known as 'SW1'

TIME: 2.30 **TO** 2.50 PM

BORE DEPTH: _____ **HEIGHT ABOVE GROUND LEVEL:** _____

DEPTH TO AQUIFER: _____ **VOLUME PURGED:** _____

RESULTS OF WATER QUALITY CHECK: water clear

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/ <u>2.32</u>	<u>7.27</u>	<u>547.0</u>	<u>181.7</u>		<u>18.9</u>	<u>0.2</u>
2/ <u>2.34</u>	<u>7.29</u>	<u>547.4</u>	<u>183.2</u>		<u>18.5</u>	<u>0.2</u>
3/ <u>2.36</u>	<u>7.26</u>	<u>549.7</u>	<u>182.2</u>		<u>18.6</u>	<u>0.2</u>
4/						
5/						
6/						

Sample Appearance: _____

Duplicate Identification and Other Remarks: _____

ENGINEERING FIELD SHEET

WATER SAMPLING RECORD

CLIENT: Concrush Pty Ltd
PROJECT: Water Quality Monitoring
LOCATION: 21 Racecourse Road, Teralba
PERSONNEL: Damien

DATE: 25-6-20
PROJECT No: 13589a
CLIENT REF: _____

WATER METER USED: Horiba

DATE & TYPE OF LAST CALIBRATION (1PT OR FULL): Full – refer to Environment Drive for Calibration Certified

METHOD OF SAMPLING: Foot valve for Groundwater, direct for Ponds, Wetland, Basins and Surface Water

PRESERVATION & STORAGE (TICK): Chilled (<4°C) ☐

TESTS REQUIRED: Groundwater: Nutrients each month, TRH, PAH and BTEX every 3 months.
 Leachate Pond and Wetland: , EC, TSS and Nutrients every month.
 Sediment Basins: pH, EC, TSS, metals (dissolved) and TRH every month.
 Spillways: , EC, TSS, metals (dissolved) and TRH when discharging.
 Background Surface water: pH, EC, TSS, metals (dissolved) and TRH every month.

Get Key for side
 gate from
 weighbridge to
 get to SW2

OTHER DETAILS: Refer to Duplicate Register – name duplicate QAMonthYear.

BORE OR LOCATION ID: BH3 (Eastern end – adjacent Racecourse Road) Label bottles 'GW3'

TIME: 12.45 TO 1.05pm

BORE DEPTH: _____ **HEIGHT ABOVE GROUND LEVEL:** _____

DEPTH TO AQUIFER: 3.303

VOLUME PURGED: 3L

RESULTS OF WATER QUALITY CHECK: known water quality

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/ <u>12.52</u>	<u>6.90</u>	<u>2.139</u>	<u>0</u>	<u>2.82</u>	<u>18.46</u>	<u>0.123</u>
2/ <u>12.55</u>	<u>6.83</u>	<u>2.43</u>	<u>0</u>	<u>2.83</u>	<u>18.55</u>	<u>0.125</u>
3/ <u>12.57</u>	<u>6.79</u>	<u>2.46</u>	<u>0</u>	<u>2.22</u>	<u>18.92</u>	<u>0.127</u>
4/						
5/						
6/						

Sample Appearance: _____

Duplicate Identification and Other Remarks: _____

BORE OR LOCATION ID: Leachate Pond (Eastern end – adjacent Racecourse Road). Sample at outlet to Wetland Pond. Label bottles 'LP'

TIME: 12.35pm TO 12.45

If discharge not running, remove the cord from time and put directly into power.

At the completion of sampling, return the time to the system.

RESULTS OF WATER QUALITY CHECK: _____

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/ <u>12.39</u>	<u>8.44</u>	<u>3.64</u>	<u>144</u>	<u>3.86</u>	<u>15.19</u>	<u>0.120</u>
2/ <u>12.41</u>	<u>8.16</u>	<u>3.68</u>	<u>123</u>	<u>4.18</u>	<u>15.17</u>	<u>0.123</u>
3/ <u>12.43</u>	<u>8.44</u>	<u>3.77</u>	<u>132</u>	<u>2.92</u>	<u>15.66</u>	<u>0.128</u>
4/						
5/						
6/						

Sample Appearance: Dark brown colored water

Duplicate Identification and Other Remarks: 0.120, 0.123, 0.128

BORE OR LOCATION ID: Wetland (Eastern end – adjacent Racecourse Road). Label bottles 'WL'

TIME: 12.00 **TO** 1230

RESULTS OF WATER QUALITY CHECK: 1m brown coloured water major organo odour

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)	
1/	12.15	5.15	1.83	1000	4.92	14.79	0.092
2/	12.17	8.14	1.93	1000	3.71	14.81	0.098
3/	12.19	8.10	2.00	1000	3.47	14.73	0.101
4/							
5/							
6/							

Sample Appearance: _____

Duplicate Identification and Other Remarks: _____

BORE OR LOCATION ID: Sediment Dam 2 (Southwest corner – adjacent railway). Label bottles 'Sed2'

TIME: 10.20 **TO** 10.45

RESULTS OF WATER QUALITY CHECK: water clear slight brown t. on

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)	
1/	10.30	10.03	0.900	137	7.81	13.87	0.045
2/	10.32	10.12	0.928	143	6.31	13.76	0.047
3/	10.34	10.15	0.931	123	5.80	13.74	0.046
4/							
5/							
6/							

Sample Appearance: 0A0626

Duplicate Identification and Other Remarks: Levy 1.5m

BORE OR LOCATION ID: Surface Water 2. Label bottles 'SW2' – Previously known as 'SID-SED2'

TIME: _____ **TO** _____ **WATCH for SNAKES**

May have to get sample from outside fence

RESULTS OF WATER QUALITY CHECK: NO DISCHARGE

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/						
2/						
3/						
4/						
5/						
6/						

Sample Appearance: _____

Duplicate Identification and Other Remarks: _____

BORE OR LOCATION ID: BSW2 (Western end, south of site boundary, down ladder). Label bottles 'BSW2' –
Previously known as 'SW2'

TIME: 11.20 **TO** 11.40 **WATCH for SNAKES**
Be careful – poor footing

RESULTS OF WATER QUALITY CHECK: clear water slight yellow tinge

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/11.25	7.90	0.787	107	4.16	16.52	0.038
2/11.27	7.78	0.836	26.7	3.05	13.95	0.040
3/11.29	7.75	0.800	21.5	3.16	13.74	0.042
4/						
5/						
6/						

Sample Appearance: _____
Duplicate Identification and Other Remarks: _____

BORE OR LOCATION ID: BH1 (Western end – adjacent Railway) Label bottles 'GW1'

TIME: 10.45 **TO** 11.05

BORE DEPTH: _____ **HEIGHT ABOVE GROUND LEVEL:** _____

DEPTH TO AQUIFER: 2.072 **VOLUME PURGED:** _____

RESULTS OF WATER QUALITY CHECK: dark grey brown w/ 10% water on surface

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/10.58	8.33	0.999	0	5.87	16.02	0.049
2/11.00	7.86	1.01	0	4.92	17.56	0.049
3/11.02	7.73	1.02	0	1.25	17.25	0.050
4/						
5/						
6/						

Sample Appearance: _____
Duplicate Identification and Other Remarks: _____

BORE OR LOCATION ID: Sediment Dam 1 (North west corner – adjacent railway). Label bottles 'Sed1'

TIME: 9.20 **TO** 10.00

RESULTS OF WATER QUALITY CHECK: Level 0.9m

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/9.42	9.43	0.621	87.8	7.07	14.03	0.030
2/9.44	9.54	0.584	72.2	6.88	13.42	0.028
3/9.46	9.58	0.561	73.2	7.27	13.22	0.027
4/						
5/						
6/						

Sample Appearance: clear water slight yellow tinge
Duplicate Identification and Other Remarks: _____

BORE OR LOCATION ID: Surface Water 1. Label bottles 'SW1' – Previously known as 'DIS-SED1'

TIME: _____ **TO** _____

BORE DEPTH: _____ **HEIGHT ABOVE GROUND LEVEL:** _____

DEPTH TO AQUIFER: _____ **VOLUME PURGED:** _____

RESULTS OF WATER QUALITY CHECK: NO DISCHARGE

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/						
2/						
3/						
4/						
5/						
6/						

Sample Appearance: _____

Duplicate Identification and Other Remarks: _____

BORE OR LOCATION ID: BSW1 (Western side of Racecourse Road, north of rail access drive). Label bottles 'BSW1' – Previously known as 'SW1'

TIME: 1.25 **TO** 1.50

BORE DEPTH: _____ **HEIGHT ABOVE GROUND LEVEL:** _____

DEPTH TO AQUIFER: _____ **VOLUME PURGED:** _____

RESULTS OF WATER QUALITY CHECK: water brown clear fishy brown taste

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	<u>7.24</u>	<u>0.894</u>	<u>173</u>	<u>4.42</u>	<u>15.17</u>	<u>0.044</u>
2/	<u>7.23</u>	<u>0.731</u>	<u>40.7</u>	<u>4.69</u>	<u>14.11</u>	<u>0.038</u>
3/	<u>7.20</u>	<u>0.779</u>	<u>29.2</u>	<u>4.27</u>	<u>13.74</u>	<u>0.038</u>
4/						
5/						
6/						

Sample Appearance: _____

Duplicate Identification and Other Remarks: _____

Appendix B

Laboratory Report Sheets

CERTIFICATE OF ANALYSIS 407695

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	6 Water
Date samples received	29/04/2026
Date completed instructions received	30/04/2026

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	06/05/2026
Date of Issue	06/05/2026

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

Dragana Tomas, Senior Chemist
 Larry Ye, Senior Chemist
 Neena Tewari, Senior Chemist
 Priya Samarawickrama, Senior Chemist
 Sally Chen, Metals prep team leader

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Water					
Our Reference		407695-3	407695-4	407695-5	407695-6
Your Reference	UNITS	Sed-2	BSW2	Sed-1	QA042026
Date Sampled		29/04/2026	29/04/2026	29/04/2026	29/04/2026
Type of sample		Water	Water	Water	Water
Date extracted	-	04/05/2026	04/05/2026	04/05/2026	04/05/2026
Date analysed	-	05/05/2026	05/05/2026	05/05/2026	05/05/2026
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10
TRH C ₆ - C ₁₀ less BTEX (F1)	µg/L	<10	<10	<10	<10
Benzene	µg/L	<1	<1	<1	<1
Toluene	µg/L	<1	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1
m+p-xylene	µg/L	<2	<2	<2	<2
o-xylene	µg/L	<1	<1	<1	<1
Naphthalene	µg/L	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	111	111	111	111
Surrogate Toluene-d8	%	94	94	94	94
Surrogate 4-Bromofluorobenzene	%	94	94	95	94

svTRH (C10-C40) in Water					
Our Reference		407695-3	407695-4	407695-5	407695-6
Your Reference	UNITS	Sed-2	BSW2	Sed-1	QA042026
Date Sampled		29/04/2026	29/04/2026	29/04/2026	29/04/2026
Type of sample		Water	Water	Water	Water
Date extracted	-	01/05/2026	01/05/2026	01/05/2026	01/05/2026
Date analysed	-	02/05/2026	02/05/2026	02/05/2026	02/05/2026
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	120	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	120	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	190	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	190	<50
Surrogate o-Terphenyl	%	85	77	88	86

HM in water - dissolved					
Our Reference		407695-3	407695-4	407695-5	407695-6
Your Reference	UNITS	Sed-2	BSW2	Sed-1	QA042026
Date Sampled		29/04/2026	29/04/2026	29/04/2026	29/04/2026
Type of sample		Water	Water	Water	Water
Date prepared	-	01/05/2026	01/05/2026	01/05/2026	01/05/2026
Date analysed	-	01/05/2026	01/05/2026	01/05/2026	01/05/2026
Aluminium-Dissolved	µg/L	110	30	90	120
Arsenic-Dissolved	µg/L	6	16	6	6
Boron-Dissolved	µg/L	30	70	100	40
Cadmium-Dissolved	µg/L	<0.1	<0.1	<0.1	<0.1
Chromium-Dissolved	µg/L	<1	<1	<1	<1
Cobalt-Dissolved	µg/L	1	<1	<1	2
Copper-Dissolved	µg/L	3	1	3	4
Lead-Dissolved	µg/L	<1	<1	<1	<1
Nickel-Dissolved	µg/L	<1	2	3	<1
Selenium-Dissolved	µg/L	<1	<1	<1	<1
Zinc-Dissolved	µg/L	9	8	4	9

Metals in Waters - Acid extractable

Our Reference		407695-1	407695-2	407695-3	407695-4	407695-5
Your Reference	UNITS	GW1	GW3	Sed-2	BSW2	Sed-1
Date Sampled		29/04/2026	29/04/2026	29/04/2026	29/04/2026	29/04/2026
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	1/05/2026	1/05/2026	1/05/2026	1/05/2026	1/05/2026
Date analysed	-	1/05/2026	1/05/2026	1/05/2026	1/05/2026	1/05/2026
Phosphorus - Total	mg/L	0.2	0.06	0.2	0.4	0.2

Metals in Waters - Acid extractable

Our Reference		407695-6
Your Reference	UNITS	QA042026
Date Sampled		29/04/2026
Type of sample		Water
Date prepared	-	1/05/2026
Date analysed	-	1/05/2026
Phosphorus - Total	mg/L	0.2

Miscellaneous Inorganics						
Our Reference		407695-1	407695-2	407695-3	407695-4	407695-5
Your Reference	UNITS	GW1	GW3	Sed-2	BSW2	Sed-1
Date Sampled		29/04/2026	29/04/2026	29/04/2026	29/04/2026	29/04/2026
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	01/05/2026	01/05/2026	01/05/2026	01/05/2026	01/05/2026
Date analysed	-	01/05/2026	01/05/2026	01/05/2026	01/05/2026	01/05/2026
Ammonia as N in water	mg/L	1.9	3.2	0.007	<0.005	0.007
Nitrite as N in water	mg/L	<0.005	0.02	<0.005	<0.005	<0.005
Nitrate as N in water	mg/L	0.005	0.02	0.04	<0.005	0.008
NOx as N in water	mg/L	0.008	0.04	0.04	<0.005	0.009
TKN in water	mg/L	[NA]	[NA]	0.6	1.6	1.6
Total Nitrogen in water	mg/L	[NA]	[NA]	0.7	1.6	1.6
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	[NA]	[NA]	<0.005	<0.005	<0.005

Miscellaneous Inorganics		
Our Reference		407695-6
Your Reference	UNITS	QA042026
Date Sampled		29/04/2026
Type of sample		Water
Date prepared	-	01/05/2026
Date analysed	-	01/05/2026
Ammonia as N in water	mg/L	0.007
Nitrite as N in water	mg/L	<0.005
Nitrate as N in water	mg/L	0.04
NOx as N in water	mg/L	0.04
TKN in water	mg/L	0.6
Total Nitrogen in water	mg/L	0.6
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	<0.005

Miscellaneous Inorganics					
Our Reference		407695-3	407695-4	407695-5	407695-6
Your Reference	UNITS	Sed-2	BSW2	Sed-1	QA042026
Date Sampled		29/04/2026	29/04/2026	29/04/2026	29/04/2026
Type of sample		Water	Water	Water	Water
Date prepared	-	29/04/2026	29/04/2026	29/04/2026	29/04/2026
Date analysed	-	29/04/2026	29/04/2026	29/04/2026	29/04/2026
Total Suspended Solids	mg/L	58	36	99	64
pH	pH Units	8.5	7.5	8.0	8.5
Electrical Conductivity	µS/cm	410	920	970	410

Method ID	Methodology Summary
Ext-073_F	Analysis of pH using in-house method INORG-001, analysed by Envirolab Newcastle - NATA Site No. 18077.
Ext-073_G	Analysis of Conductivity using in-house method INORG-002, analysed by Envirolab Newcastle - NATA Site No. 18077.
Ext-073_J	Analysis of Total Suspended Solids using in-house method INORG-019, analysed by Envirolab Newcastle - NATA Site No. 18077.
Inorg-055	Nitrate - determined colourimetrically. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055	Nitrite - determined colourimetrically based on APHA latest edition NO2- B. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055/062/127	Total Nitrogen - Calculation sum of TKN and oxidised Nitrogen. Alternatively analysed by combustion and chemiluminescence.
Inorg-057	Ammonia - determined colourimetrically, based on APHA latest edition 4500-NH3 F. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a KCl extraction.
Inorg-062	TKN - determined colourimetrically based on APHA latest edition 4500 Norg. Alternatively, TKN can be derived from calculation (Total N - NOx).
Inorg-118	Hexavalent Chromium (Cr6+) - determined firstly by separation using ion chromatography followed by the colourimetric analytical finish. Water samples are ideally field filtered into alkali preserved containers prior to receipt for dissolved Cr6+ analysis. Unfiltered water samples into alkali preserved containers (or pH adjusted to pH 8-9 on receipt) can be classified as Total (unfiltered) Cr6+. Please note, for 'Total/Unfiltered' Trivalent Chromium in waters [calculated], these results may be exaggerated due to the digestive limitation of 'Total/Unfiltered' Hexavalent Chromium in NaOH at pH 8-9 compared to more comprehensive digestion for Total Chromium using the mineral acids HNO3 and HCl. Solid (includes soils, filters, paints, swabs for example) samples are extracted in a buffered catalysed solution prior to the analytical finish above. Water extractable options are available (e.g. as an option for filters) on request. Impingers may need pH adjusting to pH 8-9 prior to IC-colourimetric analytical finish.

Method ID	Methodology Summary
Metals-020	Determination of various metals/elements by ICP-AES. Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation. Where molecular anion forms are calculated from an element (e.g. SO₄ from S or PO₄ from P stoichiometrically), the assumption is that the element is only present in that molecular anion form. Submission of low masses of sample e.g. for dust samples, may result in raised PQLs.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			04/05/2026	[NT]	[NT]	[NT]	[NT]	04/05/2026	[NT]
Date analysed	-			05/05/2026	[NT]	[NT]	[NT]	[NT]	05/05/2026	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	79	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	79	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	79	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	79	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	77	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	80	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	78	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	108	[NT]	[NT]	[NT]	[NT]	106	[NT]
Surrogate Toluene-d8	%		Org-023	94	[NT]	[NT]	[NT]	[NT]	104	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	96	[NT]	[NT]	[NT]	[NT]	101	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			01/05/2026	[NT]	[NT]	[NT]	[NT]	01/05/2026	[NT]
Date analysed	-			02/05/2026	[NT]	[NT]	[NT]	[NT]	02/05/2026	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	106	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	90	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	106	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	90	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate o-Terphenyl	%		Org-020	88	[NT]	[NT]	[NT]	[NT]	86	[NT]

QUALITY CONTROL: HM in water - dissolved					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date prepared	-			01/05/2026	[NT]	[NT]	[NT]	[NT]	01/05/2026	[NT]
Date analysed	-			01/05/2026	[NT]	[NT]	[NT]	[NT]	01/05/2026	[NT]
Aluminium-Dissolved	µg/L	10	Metals-022	<10	[NT]	[NT]	[NT]	[NT]	92	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Boron-Dissolved	µg/L	20	Metals-022	<20	[NT]	[NT]	[NT]	[NT]	96	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	104	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Cobalt-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	85	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	94	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	102	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	88	[NT]
Selenium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	91	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	407695-2
Date prepared	-			1/05/2026	1	1/05/2026	1/05/2026		1/05/2026	1/05/2026
Date analysed	-			1/05/2026	1	1/05/2026	1/05/2026		1/05/2026	1/05/2026
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	1	0.2	0.2	0	96	91

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	407695-2
Date prepared	-			01/05/2026	1	01/05/2026	01/05/2026		01/05/2026	01/05/2026
Date analysed	-			01/05/2026	1	01/05/2026	01/05/2026		01/05/2026	01/05/2026
Ammonia as N in water	mg/L	0.005	Inorg-057	<0.005	1	1.9	1.9	0	95	74
Nitrite as N in water	mg/L	0.005	Inorg-055	<0.005	1	<0.005	<0.005	0	98	91
Nitrate as N in water	mg/L	0.005	Inorg-055	<0.005	1	0.005	0.006	18	99	92
NOx as N in water	mg/L	0.005	Inorg-055	<0.005	1	0.008	0.009	12	99	92
TKN in water	mg/L	0.1	Inorg-062	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	<0.1	[NT]	[NT]	[NT]	[NT]	101	[NT]
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	0.005	Inorg-118	<0.005	[NT]	[NT]	[NT]	[NT]	98	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			29/04/2026	3	29/04/2026	29/04/2026		29/04/2026	[NT]
Date analysed	-			29/04/2026	3	29/04/2026	29/04/2026		29/04/2026	[NT]
Total Suspended Solids	mg/L	5	Ext-073_J	<5	3	58	61	5	100	[NT]
pH	pH Units		Ext-073_F	[NT]	3	8.5	8.4	1	100	[NT]
Electrical Conductivity	µS/cm	1	Ext-073_G	[NT]	3	410	400	2	100	[NT]

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.

Where air volumes and/or sampled areas and/or time based sampling data is supplied by customers and the customer is NATA accredited for the sampling activity then calculated concentrations can be reported on the endorsed Certificate of Analysis (CoA). Confirmation of the accreditation must be supplied by the customer and such information is used in good faith. Where the sampling is not covered by NATA accreditation then only the raw data can be reported on the CoA (e.g. mass, fibres per field).

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 can be downloaded from the [Envirolab Resources website](#) or obtained directly by contacting the laboratory.

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

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:	Damien		Envirolab Quote No. :	BM8	
Address:	92 Hill St Carrington, NSW 2294		Date results required:		
Phone:	02 4902 9200	Mob: 0410 230 644			
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		E01580 - Total Suspended Solids (TSS)	E00705-NH3, E00815-NO2, E00790-NO3, E00850-NOx, E01090-Total P)	E010300 - Nutrient Suite (NH3, NO2, NO3, NOx, TKN (calc), Total N, Total P)	E07290 and E07220 TRH C6-C40	E03010_D - Dissolved (Aluminium, Arsenic, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Nickel, Selenium, Zinc)	E05360 - Hexavalent Chromium	E01140 - pH	E01150 - Electrical Conductivity		Sediment within container to be included in analysis if X	Provide as much information about the sample as you can
407695-1	GW1	29/04/2026	Water	4		x								x	
- 2	GW3	29/04/2026	Water	4		x								x	
	LP	29/04/2026	Water	4	x		x				x	x		x	
	WL	29/04/2026	Water	4	x		x				x	x		x	
- 3	Sed-2	29/04/2026	Water	9	x		x	x	x	x	x	x		x	Envirolab Services
- 4	BSW2	29/04/2026	Water	9	x		x	x	x	x	x	x		x	12 Ashley St
- 5	Sed-1	29/04/2026	Water	9	x		x	x	x	x	x	x		x	Chatswood NSW 2067
	BSW1	29/04/2026	Water	9	x		x	x	x	x	x	x		x	Ph: (02) 9910 6200
- 6	QA 42026	29/04/2026	Water	9	x		x	x	x	x	x	x		x	Job No: 407695
															Date Received: 30/4/26
															Time Received: 0915
															Received By: ST
															Temp: Cool Ambient
															Cooling: Ice/Icepack
															Security: Intact/Broken/None
Total				61	7	2	7	5	5	5	7	7			

Relinquished by (company):	RCA Australia	Received by (company):	Envirolab	Lab use only:	
Print Name:	Damien	Print Name:	Kylie Hanana	Job Number	407695
Date & Time:	29/04/2026	Date & Time:	29/4/26 . 2.pm	Cooling:	Ice Ice Pack / None
Signature:	D. B...	Signature:	Kylie Hanana	Temperature	9°C
				Security Seal:	Intact / Broken / Not Used
				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	407695
Date Sample Received	29/04/2026
Date Instructions Received	30/04/2026
Date Results Expected to be Reported	06/05/2026

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	6 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	9
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Samples received at ELS Newcastle 29/04/2026 14:00j, ELS Sydney 30/04/2026 09:15

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	VTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	HM in water - dissolved	Metals in Waters - Acid extractable	Ammonia as N in water	Nitrite as N in water	Nitrate as N in water	NOx as N in water	TKN in water	Total Nitrogen in water	Hexavalent Chromium, Cr6+ (dissolved)	Miscellaneous Inorganics
GW1				✓	✓	✓	✓	✓				
GW3				✓	✓	✓	✓	✓				
Sed-2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BSW2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sed-1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
QA042026	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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.

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.

CERTIFICATE OF ANALYSIS 409690

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	10 Water
Date samples received	28/05/2026
Date completed instructions received	28/05/2026

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.

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

Report Details

Date results requested by	04/06/2026
Date of Issue	04/06/2026

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

Dragana Tomas, Senior Chemist
 Jenny He, Inorganic Team Leader
 Laura Schofield, Lab Manager
 Tabitha Roberts, Senior Chemist
 Timothy Toll, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Water

Our Reference		409690-1	409690-2	409690-5	409690-6	409690-7
Your Reference	UNITS	GW1	GW3	Sed-2	BSW2	Sed-1
Date Sampled		26/05/2026	26/05/2026	26/05/2026	26/05/2026	26/05/2026
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	01/06/2026	01/06/2026	01/06/2026	01/06/2026	01/06/2026
Date analysed	-	02/06/2026	02/06/2026	02/06/2026	02/06/2026	02/06/2026
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀ less BTEX (F1)	µg/L	<10	<10	<10	<10	<10
Benzene	µg/L	<1	<1	<1	<1	<1
Toluene	µg/L	<1	<1	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1	<1
m+p-xylene	µg/L	<2	<2	<2	<2	<2
o-xylene	µg/L	<1	<1	<1	<1	<1
Naphthalene	µg/L	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	100	98	99	100	103
Surrogate Toluene-d8	%	99	104	99	102	103
Surrogate 4-Bromofluorobenzene	%	99	101	100	99	100

vTRH(C6-C10)/BTEXN in Water

Our Reference		409690-8	409690-10
Your Reference	UNITS	BSW1	SW2
Date Sampled		26/05/2026	26/05/2026
Type of sample		Water	Water
Date extracted	-	01/06/2026	01/06/2026
Date analysed	-	02/06/2026	02/06/2026
TRH C ₆ - C ₉	µg/L	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10
TRH C ₆ - C ₁₀ less BTEX (F1)	µg/L	<10	<10
Benzene	µg/L	<1	<1
Toluene	µg/L	<1	<1
Ethylbenzene	µg/L	<1	<1
m+p-xylene	µg/L	<2	<2
o-xylene	µg/L	<1	<1
Naphthalene	µg/L	<1	<1
Surrogate Dibromofluoromethane	%	95	104
Surrogate Toluene-d8	%	97	100
Surrogate 4-Bromofluorobenzene	%	101	100

svTRH (C10-C40) in Water						
Our Reference		409690-1	409690-2	409690-5	409690-6	409690-7
Your Reference	UNITS	GW1	GW3	Sed-2	BSW2	Sed-1
Date Sampled		26/05/2026	26/05/2026	26/05/2026	26/05/2026	26/05/2026
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/05/2026	29/05/2026	29/05/2026	29/05/2026	29/05/2026
Date analysed	-	30/05/2026	30/05/2026	30/05/2026	30/05/2026	30/05/2026
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	66	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	210	160	170	<100	130
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	120	<100	<100
Total +ve TRH (C10-C36)	µg/L	210	160	350	<50	130
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	73	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	250	190	240	110	150
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	250	190	320	110	150
Surrogate o-Terphenyl	%	101	96	125	106	99

svTRH (C10-C40) in Water			
Our Reference		409690-8	409690-10
Your Reference	UNITS	BSW1	SW2
Date Sampled		26/05/2026	26/05/2026
Type of sample		Water	Water
Date extracted	-	29/05/2026	29/05/2026
Date analysed	-	30/05/2026	30/05/2026
TRH C ₁₀ - C ₁₄	µg/L	<50	58
TRH C ₁₅ - C ₂₈	µg/L	<100	180
TRH C ₂₉ - C ₃₆	µg/L	<100	120
Total +ve TRH (C10-C36)	µg/L	<50	360
TRH >C ₁₀ - C ₁₆	µg/L	<50	63
TRH >C ₁₆ - C ₃₄	µg/L	<100	270
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	330
Surrogate o-Terphenyl	%	103	106

PAHs in Water			
Our Reference		409690-1	409690-2
Your Reference	UNITS	GW1	GW3
Date Sampled		26/05/2026	26/05/2026
Type of sample		Water	Water
Date extracted	-	29/05/2026	29/05/2026
Date analysed	-	01/06/2026	01/06/2026
Naphthalene	µg/L	<0.1	<0.1
Acenaphthylene	µg/L	<0.1	<0.1
Acenaphthene	µg/L	<0.1	<0.1
Fluorene	µg/L	<0.1	<0.1
Phenanthrene	µg/L	<0.1	<0.1
Anthracene	µg/L	<0.1	<0.1
Fluoranthene	µg/L	<0.1	<0.1
Pyrene	µg/L	<0.1	<0.1
Benzo(a)anthracene	µg/L	<0.1	<0.1
Chrysene	µg/L	<0.1	<0.1
Benzo(b,j+k)fluoranthene	µg/L	<0.2	<0.2
Benzo(a)pyrene	µg/L	<0.1	<0.1
Indeno(1,2,3-c,d)pyrene	µg/L	<0.1	<0.1
Dibenzo(a,h)anthracene	µg/L	<0.1	<0.1
Benzo(g,h,i)perylene	µg/L	<0.1	<0.1
Total +ve PAH's	µg/L	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	99	88

HM in water - dissolved						
Our Reference		409690-5	409690-6	409690-7	409690-8	409690-10
Your Reference	UNITS	Sed-2	BSW2	Sed-1	BSW1	SW2
Date Sampled		26/05/2026	26/05/2026	26/05/2026	26/05/2026	26/05/2026
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	01/06/2026	01/06/2026	01/06/2026	01/06/2026	01/06/2026
Date analysed	-	01/06/2026	01/06/2026	01/06/2026	01/06/2026	01/06/2026
Aluminium-Dissolved	µg/L	70	<10	130	10	80
Arsenic-Dissolved	µg/L	7	4	4	2	7
Boron-Dissolved	µg/L	60	80	70	100	60
Cadmium-Dissolved	µg/L	<0.1	<0.1	<0.1	<0.1	<0.1
Chromium-Dissolved	µg/L	31	<1	37	1	28
Cobalt-Dissolved	µg/L	1	<1	<1	<1	1
Copper-Dissolved	µg/L	9	7	12	5	11
Lead-Dissolved	µg/L	<1	<1	<1	<1	<1
Nickel-Dissolved	µg/L	2	2	3	2	3
Selenium-Dissolved	µg/L	<1	<1	1	<1	<1
Zinc-Dissolved	µg/L	1	31	2	41	28

Metals in Waters - Acid extractable

Our Reference		409690-1	409690-2	409690-3	409690-4	409690-5
Your Reference	UNITS	GW1	GW3	LP	WL	Sed-2
Date Sampled		26/05/2026	26/05/2026	26/05/2026	26/05/2026	26/05/2026
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	29/05/2026	29/05/2026	29/05/2026	29/05/2026	29/05/2026
Date analysed	-	29/05/2026	29/05/2026	29/05/2026	29/05/2026	29/05/2026
Phosphorus - Total	mg/L	0.3	0.1	13	8.3	0.2

Metals in Waters - Acid extractable

Our Reference		409690-6	409690-7	409690-8	409690-9	409690-10
Your Reference	UNITS	BSW2	Sed-1	BSW1	QA0526	SW2
Date Sampled		26/05/2026	26/05/2026	26/05/2026	26/05/2026	26/05/2026
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	29/05/2026	29/05/2026	29/05/2026	29/05/2026	29/05/2026
Date analysed	-	29/05/2026	29/05/2026	29/05/2026	29/05/2026	29/05/2026
Phosphorus - Total	mg/L	0.2	0.09	0.06	8.5	0.1

Miscellaneous Inorganics						
Our Reference		409690-1	409690-2	409690-3	409690-4	409690-5
Your Reference	UNITS	GW1	GW3	LP	WL	Sed-2
Date Sampled		26/05/2026	26/05/2026	26/05/2026	26/05/2026	26/05/2026
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	29/05/2026	29/05/2026	29/05/2026	29/05/2026	29/05/2026
Date analysed	-	29/05/2026	29/05/2026	29/05/2026	29/05/2026	29/05/2026
Ammonia as N in water	mg/L	1.5	3.4	4.0	0.24	0.32
Nitrite as N in water	mg/L	<0.005	0.01	<0.005	<0.005	1.0
Nitrate as N in water	mg/L	<0.005	0.02	<0.050	0.16	0.58
NOx as N in water	mg/L	<0.005	0.03	<0.050	0.16	1.6
TKN in water	mg/L	[NA]	[NA]	30	15	1
Total Nitrogen in water	mg/L	[NA]	[NA]	30	15	2.6
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	[NA]	[NA]	[NA]	[NA]	0.02

Miscellaneous Inorganics						
Our Reference		409690-6	409690-7	409690-8	409690-9	409690-10
Your Reference	UNITS	BSW2	Sed-1	BSW1	QA0526	SW2
Date Sampled		26/05/2026	26/05/2026	26/05/2026	26/05/2026	26/05/2026
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	29/05/2026	29/05/2026	29/05/2026	29/05/2026	29/05/2026
Date analysed	-	29/05/2026	29/05/2026	29/05/2026	29/05/2026	29/05/2026
Ammonia as N in water	mg/L	0.40	0.35	0.089	0.26	0.16
Nitrite as N in water	mg/L	0.069	0.83	0.02	0.01	1.1
Nitrate as N in water	mg/L	1.5	1.3	0.70	0.15	0.50
NOx as N in water	mg/L	1.6	2.1	0.72	0.16	1.6
TKN in water	mg/L	0.5	0.9	0.3	15	1.1
Total Nitrogen in water	mg/L	2.0	3.0	1.0	16	2.7
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	<0.005	0.03	<0.005	[NA]	0.02

Miscellaneous Inorganics						
Our Reference		409690-3	409690-4	409690-5	409690-6	409690-7
Your Reference	UNITS	LP	WL	Sed-2	BSW2	Sed-1
Date Sampled		26/05/2026	26/05/2026	26/05/2026	26/05/2026	26/05/2026
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	26/05/2026	26/05/2026	26/05/2026	26/05/2026	26/05/2026
Date analysed	-	26/05/2026	26/05/2026	26/05/2026	26/05/2026	26/05/2026
Total Suspended Solids	mg/L	170	150	160	8	24
pH	pH Units	7.8	7.4	9.0	7.2	9.0
Electrical Conductivity	µS/cm	4,000	3,000	640	650	590

Miscellaneous Inorganics				
Our Reference		409690-8	409690-9	409690-10
Your Reference	UNITS	BSW1	QA0526	SW2
Date Sampled		26/05/2026	26/05/2026	26/05/2026
Type of sample		Water	Water	Water
Date prepared	-	26/05/2026	26/05/2026	26/05/2026
Date analysed	-	26/05/2026	26/05/2026	26/05/2026
Total Suspended Solids	mg/L	5	150	130
pH	pH Units	7.1	7.4	9.0
Electrical Conductivity	µS/cm	530	3,000	620

Method ID	Methodology Summary
Ext-073_F	Analysis of pH using in-house method INORG-001, analysed by Envirolab Newcastle - NATA Site No. 18077.
Ext-073_G	Analysis of Conductivity using in-house method INORG-002, analysed by Envirolab Newcastle - NATA Site No. 18077.
Ext-073_J	Analysis of Total Suspended Solids using in-house method INORG-019, analysed by Envirolab Newcastle - NATA Site No. 18077.
Inorg-055	Nitrate - determined colourimetrically. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055	Nitrite - determined colourimetrically based on APHA latest edition NO2- B. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055/062/127	Total Nitrogen - Calculation sum of TKN and oxidised Nitrogen. Alternatively analysed by combustion and chemiluminescence.
Inorg-057	Ammonia - determined colourimetrically, based on APHA latest edition 4500-NH3 F. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a KCl extraction.
Inorg-062	TKN - determined colourimetrically based on APHA latest edition 4500 Norg. Alternatively, TKN can be derived from calculation (Total N - NOx).
Inorg-118	Hexavalent Chromium (Cr6+) - determined firstly by separation using ion chromatography followed by the colourimetric analytical finish. Water samples are ideally field filtered into alkali preserved containers prior to receipt for dissolved Cr6+ analysis. Unfiltered water samples into alkali preserved containers (or pH adjusted to pH 8-9 on receipt) can be classified as Total (unfiltered) Cr6+. Please note, for 'Total/Unfiltered' Trivalent Chromium in waters [calculated], these results may be exaggerated due to the digestive limitation of 'Total/Unfiltered' Hexavalent Chromium in NaOH at pH 8-9 compared to more comprehensive digestion for Total Chromium using the mineral acids HNO3 and HCl. Solid (includes soils, filters, paints, swabs for example) samples are extracted in a buffered catalysed solution prior to the analytical finish above. Water extractable options are available (e.g. as an option for filters) on request. Impingers may need pH adjusting to pH 8-9 prior to IC-colourimetric analytical finish.

Method ID	Methodology Summary
Metals-020	Determination of various metals/elements by ICP-AES. Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation. Where molecular anion forms are calculated from an element (e.g. SO₄ from S or PO₄ from P stoichiometrically), the assumption is that the element is only present in that molecular anion form. Submission of low masses of sample e.g. for dust samples, may result in raised PQLs.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-022/025	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-MS/GC-MSMS. Benzo(a)pyrene TEQ as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater - 2013.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTEX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			01/06/2026	1	01/06/2026	02/06/2026		01/06/2026	[NT]
Date analysed	-			02/06/2026	1	02/06/2026	03/06/2026		02/06/2026	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	1	<10	<10	0	91	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	1	<10	<10	0	91	[NT]
Benzene	µg/L	1	Org-023	<1	1	<1	<1	0	92	[NT]
Toluene	µg/L	1	Org-023	<1	1	<1	<1	0	89	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	1	<1	<1	0	90	[NT]
m+p-xylene	µg/L	2	Org-023	<2	1	<2	<2	0	92	[NT]
o-xylene	µg/L	1	Org-023	<1	1	<1	<1	0	91	[NT]
Naphthalene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	98	1	100	92	8	101	[NT]
Surrogate Toluene-d8	%		Org-023	100	1	99	97	2	99	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	100	1	99	96	3	99	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	409690-2
Date extracted	-			29/05/2026	1	29/05/2026	29/05/2026		29/05/2026	29/05/2026
Date analysed	-			30/05/2026	1	30/05/2026	30/05/2026		30/05/2026	30/05/2026
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	1	<50	<50	0	116	119
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	1	210	250	17	101	109
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	1	<100	<100	0	114	114
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	1	<50	52	4	116	119
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	1	250	310	21	101	109
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	1	<100	<100	0	114	114
Surrogate o-Terphenyl	%		Org-020	98	1	101	120	17	105	84

QUALITY CONTROL: PAHs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	409690-2
Date extracted	-			29/05/2026	1	29/05/2026	29/05/2026		29/05/2026	29/05/2026
Date analysed	-			01/06/2026	1	01/06/2026	01/06/2026		01/06/2026	01/06/2026
Naphthalene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	97	82
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	102	95
Fluorene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	103	96
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	113	102
Anthracene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	102	96
Pyrene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	105	98
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	92	83
Benzo(b,j,k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	1	<0.2	<0.2	0	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	103	95
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	1	<0.1	<0.1	0	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	89	1	99	92	7	100	95

QUALITY CONTROL: HM in water - dissolved					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			01/06/2026	5	01/06/2026	01/06/2026		01/06/2026	[NT]
Date analysed	-			01/06/2026	5	01/06/2026	01/06/2026		01/06/2026	[NT]
Aluminium-Dissolved	µg/L	10	Metals-022	<10	5	70	70	0	97	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	5	7	7	0	96	[NT]
Boron-Dissolved	µg/L	20	Metals-022	<20	5	60	60	0	89	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	5	<0.1	<0.1	0	99	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	5	31	30	3	95	[NT]
Cobalt-Dissolved	µg/L	1	Metals-022	<1	5	1	1	0	95	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	5	9	9	0	96	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	5	<1	<1	0	105	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	5	2	2	0	95	[NT]
Selenium-Dissolved	µg/L	1	Metals-022	<1	5	<1	<1	0	95	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	5	1	1	0	92	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	409690-2
Date prepared	-			29/05/2026	2	29/05/2026	29/05/2026		29/05/2026	29/05/2026
Date analysed	-			29/05/2026	2	29/05/2026	29/05/2026		29/05/2026	29/05/2026
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	2	0.1	0.1	0	97	93

QUALITY CONTROL: Metals in Waters - Acid extractable						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	10	29/05/2026	29/05/2026		[NT]	[NT]
Date analysed	-			[NT]	10	29/05/2026	29/05/2026		[NT]	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	[NT]	10	0.1	0.1	0	[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	409690-2
Date prepared	-			29/05/2026	1	29/05/2026	29/05/2026		29/05/2026	29/05/2026
Date analysed	-			29/05/2026	1	29/05/2026	29/05/2026		29/05/2026	29/05/2026
Ammonia as N in water	mg/L	0.005	Inorg-057	<0.005	1	1.5	1.6	6	91	82
Nitrite as N in water	mg/L	0.005	Inorg-055	<0.005	1	<0.005	<0.005	0	91	108
Nitrate as N in water	mg/L	0.005	Inorg-055	<0.005	1	<0.005	<0.005	0	101	103
NOx as N in water	mg/L	0.005	Inorg-055	<0.005	1	<0.005	<0.005	0	101	103
TKN in water	mg/L	0.1	Inorg-062	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	0.005	Inorg-118	<0.005	[NT]	[NT]	[NT]	[NT]	101	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			26/05/2026	3	26/05/2026	26/05/2026		26/05/2026	[NT]
Date analysed	-			26/05/2026	3	26/05/2026	26/05/2026		26/05/2026	[NT]
Total Suspended Solids	mg/L	5	Ext-073_J	<5	3	170	160	6	106	[NT]
pH	pH Units		Ext-073_F	[NT]	3	7.8	7.8	0	100	[NT]
Electrical Conductivity	µS/cm	1	Ext-073_G	[NT]	3	4000	4000	0	99	[NT]

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.

Where air volumes and/or sampled areas and/or time based sampling data is supplied by customers and the customer is NATA accredited for the sampling activity then calculated concentrations can be reported on the endorsed Certificate of Analysis (CoA). Confirmation of the accreditation must be supplied by the customer and such information is used in good faith. Where the sampling is not covered by NATA accreditation then only the raw data can be reported on the CoA (e.g. mass, fibres per field).

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 can be downloaded from the [Envirolab Resources website](#) or obtained directly by contacting the laboratory.

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.

Report Comments

MISC_INORG: #3 Nitrate as N in water NOx as N in water PQL has been raised due to matrix interferences from analytes (other than those being tested) in the sample/s. Samples were diluted and reanalysed however same results were achieved.

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:	Damien Bucior		Envirolab Quote No. :	BM8	
Address:	92 Hill St Carrington, NSW 2294		Date results required:		
Phone:	02 4902 9200	Mob:	0404 371 451		
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		E01580 - Total Suspended Solids (TSS)	E00705-NH3, E00815-NO2, E00790-NO3, E00850-NOx, E01090-Total P)	E010300 - Nutrient Suite (NH3, NO2, NO3, NOx, TKN (calc), Total N, Total P)	E07290 and E07220 TRH C6-C40 and BTEXN	E03010_D - Dissolved (Aluminium, Arsenic, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Nickel, Selenium, Zinc)	E05360 - Hexavalent Chromium	E08310 - PAH low level	E01140 - pH	E01150 - Electrical Conductivity	Sediment within container to be included in analysis if X	Provide as much information about the sample as you can
-1	GW1	26/05/2026	Water	8		X		X			X			X	
-2	GW3	26/05/2026	Water	8		X		X			X			X	
-3	LP	26/05/2026	Water	4	X		X					X	X	X	
-4	WL	26/05/2026	Water	4	X		X					X	X	X	
-5	Sed-2	26/05/2026	Water	9	X		X	X	X	X		X	X	X	
-6	BSW2	26/05/2026	Water	9	X		X	X	X	X		X	X	X	
-7	Sed-1	26/05/2026	Water	9	X		X	X	X	X		X	X	X	
-8	BSW1	26/05/2026	Water	9	X		X	X	X	X		X	X	X	
-9	QA0526	26/05/2026	Water	4	X		X					X	X	X	
Total				64	7	2	7	6	4	4	2	7	7	9	

Relinquished by (company):	RCA Australia	Received by (company):	Envirolab	Lab use only:	
Print Name:	Dgmicn	Print Name:	Thomas Laznik	Job Number	40916910
Date & Time:	26-5-26	Date & Time:	26.5.26 3:47pm	Cooling:	Ice Ice Pack / None
Signature:	D. Brooker	Signature:	[Signature]	Temperature	7.3°C
				Security Seal:	Intact / Broken (Not Used)
				TAT Req:	SAME DAY / 1 / 2 / 3 / 4 / STD

CHAIN OF CUSTODY - Client

ENVIROLAB GROUP



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:	Damien Bucior		EnviroLab Quote No. :	BM8
Address:	92 Hill St Carrington, NSW 2294		Date results required:	STD
Phone:	02 4902 9200	Mob:	0410 230 644	
Email results to:	administrator@rca.com.au + enviro@rca.com.au		Lab comments:	
Email invoice to:				

ENVIROLAB GROUP

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

Or choose: Same Day 1 day 2 day 3 day

Note: Inform lab in advance if urgent turnaround is required - surcharge applies

Sample Information				# Containers	Tests Required										Comments		
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample		E01580 - Total Suspended Solids (TSS)	E010300 - Nutrient Suite (NH3, NO2, NO3, NOx, TKN (calc), Total N, Total P)	E07290 and E07220 TRH C6-C40 and BTEXN	E05360 - Hexavalent Chromium	E03010_D - Dissolved (Aluminium, Arsenic, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Nickel, Selenium, Zinc)	E01140 - pH	E01150 - Electrical Conductivity					Sediment within container to be included in analysis if X	Provide as much information about the sample as you can
10	SW2	26/05/2026	Water	9	X	X	X	X	X	X	X					X	
Total				9	1	1	1	1	1	1	1	0	0	0	0		

Relinquished by (company):	RCA Australia	Received by (company):	EnviroLab	Lab use only:	
Print Name:	Damien Bucior	Print Name:	Thomas Laznik	Job Number	168690
Date & Time:	26/05/2026	Date & Time:	26-5-26 3:47pm	Temperature	7-3°C
Signature:	D. Bucior	Signature:	[Signature]	TAT Req:	SAME DAY / 1 / 2 / 3 / 4 / STD
				Cooling:	Ice / Ice Pack / None
				Security Seal:	Intact / Broken / Not Used

SAMPLE RECEIPT ADVICE

Client Details

Client	RCA Australia
Attention	RCA Administrator

Sample Login Details

Your reference	13589a
Envirolab Reference	409690
Date Sample Received	28/05/2026
Date Instructions Received	28/05/2026
Date Results Expected to be Reported	04/06/2026

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	10 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	7.3
Cooling Method	Ice
Sampling Date Provided	YES

Comments

received at ELS Newcastle 26/05/26

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:

Sample ID	VTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	PAHs in Water	HM in water - dissolved	Metals in Waters - Acid extractable	Ammonia as N in water	Nitrite as N in water	Nitrate as N in water	NOx as N in water	TKN in water	Total Nitrogen in water	Hexavalent Chromium, Cr6+ (dissolved)	Miscellaneous Inorganics
GW1	✓	✓	✓		✓	✓	✓	✓	✓				
GW3	✓	✓	✓		✓	✓	✓	✓	✓				
LP					✓	✓	✓	✓	✓	✓	✓		✓
WL					✓	✓	✓	✓	✓	✓	✓		✓
Sed-2	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BSW2	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sed-1	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BSW1	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
QA0526					✓	✓	✓	✓	✓	✓	✓		✓
SW2	✓	✓		✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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.

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.

CERTIFICATE OF ANALYSIS 411963

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	9 Water
Date samples received	25/06/2026
Date completed instructions received	26/06/2026

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.

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

Report Details

Date results requested by	03/07/2026
Date of Issue	03/07/2026

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

Giovanni Agosti, Group Technical Manager
Jenny He, Inorganic Team Leader
Larry Ye, Senior Chemist
Neena Tewari, Senior Chemist
Timothy Toll, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Water						
Our Reference		411963-5	411963-6	411963-7	411963-8	411963-9
Your Reference	UNITS	Sed-2	BSW2	Sed-1	BSW1	QA0626
Date Sampled		25/06/2026	25/06/2026	25/06/2026	25/06/2026	25/06/2026
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	26/06/2026	26/06/2026	26/06/2026	26/06/2026	26/06/2026
Date analysed	-	26/06/2026	26/06/2026	26/06/2026	26/06/2026	26/06/2026
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀ less BTEX (F1)	µg/L	<10	<10	<10	<10	<10
Benzene	µg/L	<1	<1	<1	<1	<1
Toluene	µg/L	<1	<1	<1	<1	<1
Ethylbenzene	µg/L	<1	<1	<1	<1	<1
m+p-xylene	µg/L	<2	<2	<2	<2	<2
o-xylene	µg/L	<1	<1	<1	<1	<1
Naphthalene	µg/L	<1	<1	<1	<1	<1
Surrogate Dibromofluoromethane	%	113	106	113	114	106
Surrogate Toluene-d8	%	102	96	102	107	95
Surrogate 4-Bromofluorobenzene	%	90	89	89	89	90

svTRH (C10-C40) in Water						
Our Reference		411963-5	411963-6	411963-7	411963-8	411963-9
Your Reference	UNITS	Sed-2	BSW2	Sed-1	BSW1	QA0626
Date Sampled		25/06/2026	25/06/2026	25/06/2026	25/06/2026	25/06/2026
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/06/2026	29/06/2026	29/06/2026	29/06/2026	29/06/2026
Date analysed	-	30/06/2026	29/06/2026	29/06/2026	29/06/2026	30/06/2026
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50	<50
Surrogate o-Terphenyl	%	102	87	90	86	92

HM in water - dissolved						
Our Reference		411963-5	411963-6	411963-7	411963-8	411963-9
Your Reference	UNITS	Sed-2	BSW2	Sed-1	BSW1	QA0626
Date Sampled		25/06/2026	25/06/2026	25/06/2026	25/06/2026	25/06/2026
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	29/06/2026	29/06/2026	29/06/2026	29/06/2026	29/06/2026
Date analysed	-	29/06/2026	29/06/2026	29/06/2026	29/06/2026	29/06/2026
Aluminium-Dissolved	µg/L	290	<10	150	140	240
Arsenic-Dissolved	µg/L	9	2	5	2	8
Boron-Dissolved	µg/L	50	60	50	80	50
Cadmium-Dissolved	µg/L	<0.1	<0.1	<0.1	0.1	<0.1
Chromium-Dissolved	µg/L	36	<1	24	<1	36
Cobalt-Dissolved	µg/L	3	<1	<1	<1	3
Copper-Dissolved	µg/L	18	2	8	5	18
Lead-Dissolved	µg/L	<1	<1	<1	1	<1
Nickel-Dissolved	µg/L	4	<1	2	2	5
Selenium-Dissolved	µg/L	1	<1	1	<1	1
Zinc-Dissolved	µg/L	12	24	11	47	13

Metals in Waters - Acid extractable

Our Reference		411963-1	411963-2	411963-3	411963-4	411963-5
Your Reference	UNITS	GW1	GW3	LP	WL	Sed-2
Date Sampled		25/06/2026	25/06/2026	25/06/2026	25/06/2026	25/06/2026
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	30/06/2026	30/06/2026	30/06/2026	30/06/2026	30/06/2026
Date analysed	-	30/06/2026	30/06/2026	30/06/2026	30/06/2026	30/06/2026
Phosphorus - Total	mg/L	0.52	0.08	12	4.0	0.2

Metals in Waters - Acid extractable

Our Reference		411963-6	411963-7	411963-8	411963-9
Your Reference	UNITS	BSW2	Sed-1	BSW1	QA0626
Date Sampled		25/06/2026	25/06/2026	25/06/2026	25/06/2026
Type of sample		Water	Water	Water	Water
Date prepared	-	30/06/2026	30/06/2026	30/06/2026	30/06/2026
Date analysed	-	30/06/2026	30/06/2026	30/06/2026	30/06/2026
Phosphorus - Total	mg/L	0.05	<0.05	0.06	0.2

Miscellaneous Inorganics						
Our Reference		411963-1	411963-2	411963-3	411963-4	411963-5
Your Reference	UNITS	GW1	GW3	LP	WL	Sed-2
Date Sampled		25/06/2026	25/06/2026	25/06/2026	25/06/2026	25/06/2026
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	29/06/2026	29/06/2026	29/06/2026	29/06/2026	29/06/2026
Date analysed	-	29/06/2026	29/06/2026	29/06/2026	29/06/2026	29/06/2026
Ammonia as N in water	mg/L	1.1	2.9	3.2	0.24	0.02
Nitrite as N in water	mg/L	<0.005	<0.02	<0.050	0.01	0.47
Nitrate as N in water	mg/L	0.03	<0.02	<0.050	0.03	3.6
NOx as N in water	mg/L	0.03	<0.02	<0.050	0.04	4.1
TKN in water	mg/L	[NA]	[NA]	33	12	1.4
Total Nitrogen in water	mg/L	[NA]	[NA]	33	12	5.4
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	[NA]	[NA]	[NA]	[NA]	0.03

Miscellaneous Inorganics					
Our Reference		411963-6	411963-7	411963-8	411963-9
Your Reference	UNITS	BSW2	Sed-1	BSW1	QA0626
Date Sampled		25/06/2026	25/06/2026	25/06/2026	25/06/2026
Type of sample		Water	Water	Water	Water
Date prepared	-	29/06/2026	29/06/2026	29/06/2026	29/06/2026
Date analysed	-	29/06/2026	29/06/2026	29/06/2026	29/06/2026
Ammonia as N in water	mg/L	0.05	0.05	0.02	0.01
Nitrite as N in water	mg/L	0.006	0.67	<0.005	0.56
Nitrate as N in water	mg/L	0.01	0.47	0.38	3.2
NOx as N in water	mg/L	0.02	1.1	0.39	3.8
TKN in water	mg/L	0.7	1.7	1.1	1.7
Total Nitrogen in water	mg/L	0.7	2.8	1.5	5.5
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	<0.005	0.02	<0.005	0.03

Miscellaneous Inorganics						
Our Reference		411963-3	411963-4	411963-5	411963-6	411963-7
Your Reference	UNITS	LP	WL	Sed-2	BSW2	Sed-1
Date Sampled		25/06/2026	25/06/2026	25/06/2026	25/06/2026	25/06/2026
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	25/06/2026	25/06/2026	25/06/2026	25/06/2026	25/06/2026
Date analysed	-	25/06/2026	25/06/2026	25/06/2026	25/06/2026	25/06/2026
Total Suspended Solids	mg/L	38	120	46	<5	14
pH	pH Units	8.2	7.1	9.5	7.2	9.0
Electrical Conductivity	µS/cm	3,300	1,600	830	750	530

Miscellaneous Inorganics			
Our Reference		411963-8	411963-9
Your Reference	UNITS	BSW1	QA0626
Date Sampled		25/06/2026	25/06/2026
Type of sample		Water	Water
Date prepared	-	25/06/2026	25/06/2026
Date analysed	-	25/06/2026	25/06/2026
Total Suspended Solids	mg/L	6	71
pH	pH Units	7.2	9.5
Electrical Conductivity	µS/cm	680	810

Method ID	Methodology Summary
Ext-073_F	Analysis of pH using in-house method INORG-001, analysed by Envirolab Newcastle - NATA Site No. 18077.
Ext-073_G	Analysis of Conductivity using in-house method INORG-002, analysed by Envirolab Newcastle - NATA Site No. 18077.
Ext-073_J	Analysis of Total Suspended Solids using in-house method INORG-019, analysed by Envirolab Newcastle - NATA Site No. 18077.
Inorg-055	Nitrate - determined colourimetrically. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055	Nitrite - determined colourimetrically based on APHA latest edition NO2- B. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a water extraction.
Inorg-055/062/127	Total Nitrogen - Calculation sum of TKN and oxidised Nitrogen. Alternatively analysed by combustion and chemiluminescence.
Inorg-057	Ammonia - determined colourimetrically, based on APHA latest edition 4500-NH3 F. Waters samples are filtered on receipt prior to analysis. Soils are analysed following a KCl extraction.
Inorg-062	TKN - determined colourimetrically based on APHA latest edition 4500 Norg. Alternatively, TKN can be derived from calculation (Total N - NOx).
Inorg-118	Hexavalent Chromium (Cr6+) - determined firstly by separation using ion chromatography followed by the colourimetric analytical finish. Water samples are ideally field filtered into alkali preserved containers prior to receipt for dissolved Cr6+ analysis. Unfiltered water samples into alkali preserved containers (or pH adjusted to pH 8-9 on receipt) can be classified as Total (unfiltered) Cr6+. Please note, for 'Total/Unfiltered' Trivalent Chromium in waters [calculated], these results may be exaggerated due to the digestive limitation of 'Total/Unfiltered' Hexavalent Chromium in NaOH at pH 8-9 compared to more comprehensive digestion for Total Chromium using the mineral acids HNO3 and HCl. Solid (includes soils, filters, paints, swabs for example) samples are extracted in a buffered catalysed solution prior to the analytical finish above. Water extractable options are available (e.g. as an option for filters) on request. Impingers may need pH adjusting to pH 8-9 prior to IC-colourimetric analytical finish.

Method ID	Methodology Summary
Metals-020	Determination of various metals/elements by ICP-AES. Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation. Where molecular anion forms are calculated from an element (e.g. SO₄ from S or PO₄ from P stoichiometrically), the assumption is that the element is only present in that molecular anion form. Submission of low masses of sample e.g. for dust samples, may result in raised PQLs.
Metals-022	Determination of various metals by ICP-MS. Please note for Bromine and Iodine, any forms of these elements that are present are included together in the one result reported for each of these two elements. Where salts (oxides, chlorides etc.) are calculated from the element concentration stoichiometrically there is no guarantee that the salt form is completely soluble in the acids used in the preparation.
Org-020	Soil samples are extracted with Dichloromethane/Acetone and waters with Dichloromethane and analysed by GC-FID. F2 = (>C10-C16)-Naphthalene as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater (HSLs Tables 1A (3, 4)). Note Naphthalene is determined from the VOC analysis.
Org-023	Water samples are analysed directly by purge and trap GC-MS.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater.
Org-023	Soil samples are extracted with methanol and spiked into water prior to analysing by purge and trap GC-MS. Water samples are analysed directly by purge and trap GC-MS. F1 = (C6-C10)-BTX as per NEPM B1 Guideline on Investigation Levels for Soil and Groundwater. Note, the Total +ve Xylene PQL is reflective of the lowest individual PQL and is therefore "Total +ve Xylenes" is simply a sum of the positive individual Xylenes.

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			26/06/2026	5	26/06/2026	29/06/2026		26/06/2026	[NT]
Date analysed	-			26/06/2026	5	26/06/2026	29/06/2026		26/06/2026	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	5	<10	<10	0	105	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	5	<10	<10	0	105	[NT]
Benzene	µg/L	1	Org-023	<1	5	<1	<1	0	106	[NT]
Toluene	µg/L	1	Org-023	<1	5	<1	<1	0	96	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	5	<1	<1	0	101	[NT]
m+p-xylene	µg/L	2	Org-023	<2	5	<2	<2	0	110	[NT]
o-xylene	µg/L	1	Org-023	<1	5	<1	<1	0	114	[NT]
Naphthalene	µg/L	1	Org-023	<1	5	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	99	5	113	110	3	99	[NT]
Surrogate Toluene-d8	%		Org-023	97	5	102	101	1	102	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	92	5	90	90	0	110	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date extracted	-			29/06/2026	[NT]	[NT]	[NT]	[NT]	29/06/2026	[NT]
Date analysed	-			29/06/2026	[NT]	[NT]	[NT]	[NT]	29/06/2026	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	108	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	94	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	108	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	94	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
Surrogate o-Terphenyl	%		Org-020	83	[NT]	[NT]	[NT]	[NT]	90	[NT]

QUALITY CONTROL: HM in water - dissolved						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	411963-6
Date prepared	-			29/06/2026	5	29/06/2026	29/06/2026		29/06/2026	29/06/2026
Date analysed	-			29/06/2026	5	29/06/2026	29/06/2026		29/06/2026	29/06/2026
Aluminium-Dissolved	µg/L	10	Metals-022	<10	5	290	280	4	102	112
Arsenic-Dissolved	µg/L	1	Metals-022	<1	5	9	8	12	94	91
Boron-Dissolved	µg/L	20	Metals-022	<20	5	50	50	0	80	85
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	5	<0.1	<0.1	0	100	104
Chromium-Dissolved	µg/L	1	Metals-022	<1	5	36	36	0	97	101
Cobalt-Dissolved	µg/L	1	Metals-022	<1	5	3	3	0	97	100
Copper-Dissolved	µg/L	1	Metals-022	<1	5	18	18	0	97	97
Lead-Dissolved	µg/L	1	Metals-022	<1	5	<1	<1	0	99	89
Nickel-Dissolved	µg/L	1	Metals-022	<1	5	4	5	22	98	101
Selenium-Dissolved	µg/L	1	Metals-022	<1	5	1	1	0	96	100
Zinc-Dissolved	µg/L	1	Metals-022	<1	5	12	11	9	100	116

QUALITY CONTROL: Metals in Waters - Acid extractable						Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			30/06/2026	5	30/06/2026	30/06/2026		30/06/2026	[NT]
Date analysed	-			30/06/2026	5	30/06/2026	30/06/2026		30/06/2026	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	5	0.2	0.2	0	95	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	411963-2
Date prepared	-			29/06/2026	1	29/06/2026	29/06/2026		29/06/2026	29/06/2026
Date analysed	-			29/06/2026	1	29/06/2026	29/06/2026		29/06/2026	29/06/2026
Ammonia as N in water	mg/L	0.005	Inorg-057	<0.005	1	1.1	1.3	17	99	#
Nitrite as N in water	mg/L	0.005	Inorg-055	<0.005	1	<0.005	<0.005	0	99	86
Nitrate as N in water	mg/L	0.005	Inorg-055	<0.005	1	0.03	0.03	0	97	106
NOx as N in water	mg/L	0.005	Inorg-055	<0.005	1	0.03	0.03	0	91	106
TKN in water	mg/L	0.1	Inorg-062	<0.1	5	1.4	[NT]		[NT]	[NT]
Total Nitrogen in water	mg/L	0.1	Inorg-055/062/127	<0.1	5	5.4	5.4	0	82	[NT]
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	0.005	Inorg-118	<0.005	5	0.03	[NT]		117	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	5	29/06/2026	29/06/2026		[NT]	[NT]
Date analysed	-			[NT]	5	29/06/2026	29/06/2026		[NT]	[NT]
Ammonia as N in water	mg/L	0.005	Inorg-057	[NT]	5	0.02	[NT]		[NT]	[NT]
Nitrite as N in water	mg/L	0.005	Inorg-055	[NT]	5	0.47	[NT]		[NT]	[NT]
Nitrate as N in water	mg/L	0.005	Inorg-055	[NT]	5	3.6	[NT]		[NT]	[NT]
NOx as N in water	mg/L	0.005	Inorg-055	[NT]	5	4.1	[NT]		[NT]	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-1	[NT]
Date prepared	-			25/06/2026	4	25/06/2026	25/06/2026		25/06/2026	[NT]
Date analysed	-			25/06/2026	4	25/06/2026	25/06/2026		25/06/2026	[NT]
Total Suspended Solids	mg/L	5	Ext-073_J	<5	4	120	[NT]		100	[NT]
pH	pH Units		Ext-073_F	[NT]	4	7.1	7.0	1	100	[NT]
Electrical Conductivity	µS/cm	2	Ext-073_G	[NT]	4	1600	1600	0	102	[NT]

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	[NT]	[NT]
Date prepared	-			[NT]	7	25/06/2026	25/06/2026		[NT]	[NT]
Date analysed	-			[NT]	7	25/06/2026	25/06/2026		[NT]	[NT]
Total Suspended Solids	mg/L	5	Ext-073_J	[NT]	7	14	16	13	[NT]	[NT]
pH	pH Units		Ext-073_F	[NT]	7	9.0	[NT]		[NT]	[NT]
Electrical Conductivity	µS/cm	2	Ext-073_G	[NT]	7	530	[NT]		[NT]	[NT]

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.

Where air volumes and/or sampled areas and/or time based sampling data is supplied by customers and the customer is NATA accredited for the sampling activity then calculated concentrations can be reported on the endorsed Certificate of Analysis (CoA). Confirmation of the accreditation must be supplied by the customer and such information is used in good faith. Where the sampling is not covered by NATA accreditation then only the raw data can be reported on the CoA (e.g. mass, fibres per field).

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 can be downloaded from the [Envirolab Resources website](#) or obtained directly by contacting the laboratory.

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.

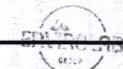
Report Comments

MISC_INORG: Nitrite as N in water, Nitrate as N in water, NOx as N in waterPQL has been raised due to matrix interferences from analytes (other than those being tested) in the sample/s. Samples were diluted and reanalysed however same results were achieved.

MISC_INORG:# Percent recovery is not applicable due to the high concentration of the analyte/s in the sample/s. However an acceptable recovery was obtained for the LCS.

CHAIN OF CUSTODY - Client

ENVIROLAB GROUP



Envirolab Services
12 Ashley St
Chatswood NSW 2067
Ph: (02) 9910 6200



Job No: 411963

Date Received: 26/6/26

Time Received: 0930

Received By: SHUKST

Temp: Cool Ambient 4.6°C

Sealing: Ice Pack

Seal: Intact Broken/None

ENVIROLAB GROUP

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

Company:	RCA Australia		
Contact person:	Fiona Brooker		
Project Mgr:	Fiona Brooker		
Sampler:	Damien		
Address:	92 Hill St Carrington, NSW 2294		
Phone:	02 4902 9200	Mob:	0404371451
Email results to:	administrator@rca.com.au + enviro@rca.com.au		
Email invoice to:			

RCA Reference Number (i.e. report title)	
13589a	
PO No. (if applicable):	Not applicable
Envirolab Quote No. :	BM8
Date results required:	
Lab comments:	

Sample information				# Containers	Tests Required										Comments
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample		E01580 - Total Suspended Solids (TSS)	E00705-NH3, E00815-NO2, E00790-NO3, E00850-NOx, E01090-Total P)	E010300 - Nutrient Suite (NH3, NO2, NO3, NOx, TKN (calc), Total N, Total P)	E07290 and E07220 TRH C6-C40	E03010_D - Dissolved (Aluminium, Arsenic, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Nickel, Selenium, Zinc)	E05360 - Hexavalent Chromium	E01140 - pH	E01150 - Electrical Conductivity		Sediment within container to be included in analysis if X	Provide as much information about the sample as you can
1	GW1	25/06/2026	Water	4		x								x	
2	GW3	25/06/2026	Water	4		x								x	
3	LP	25/06/2026	Water	4	x		x				x	x		x	
4	WL	25/06/2026	Water	4	x		x				x	x		x	
5	Sed-2	25/06/2026	Water	9	x		x	x	x	x	x	x		x	
6	BSW2	25/06/2026	Water	9	x		x	x	x	x	x	x		x	
7	Sed-1	25/06/2026	Water	9	x		x	x	x	x	x	x		x	
8	BSW1	25/06/2026	Water	9	x		x	x	x	x	x	x		x	
9	QA 0626	25/06/2026	Water	9	x		x	x	x	x	x	x		x	
Total				61	7	2	7	5	5	5	7	7		2	

Relinquished by (company):	RCA Australia	Received by (company):	Envirolab	Lab use only:	
Print Name:	09mic7	Print Name:	Santhash Joseph	Job Number	411963
Date & Time:	25/06/2026	Date & Time:	25/6/26 15:05	Temperature	4.6°C
Signature:	0, Bttt	Signature:	8	TAT Req:	SAME DAY / 1/ 2/ 3/ 4 / STD
				Cooling:	Ice / Ice Pack / None
				Security Seal:	Intact / Broken / Not Used

SAMPLE RECEIPT ADVICE

Client Details

Client	RCA Australia
Attention	RCA Administrator

Sample Login Details

Your reference	13589a
Envirolab Reference	411963
Date Sample Received	25/06/2026
Date Instructions Received	26/06/2026
Date Results Expected to be Reported	03/07/2026

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	9 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	4.6
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Samples received at Envirolab Newcastle 25/06/2026 15:05, Envirolab Sydney 26/06/2026 09:30

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:

Sample ID	VTRH(C6-C10)/BTEXN in Water	svTRH (C10-C40) in Water	HM in water - dissolved	Metals in Waters - Acid extractable	Ammonia as N in water	Nitrite as N in water	Nitrate as N in water	NOx as N in water	TKN in water	Total Nitrogen in water	Hexavalent Chromium, Cr6+ (dissolved)	Miscellaneous Inorganics
GW1				✓	✓	✓	✓	✓				
GW3				✓	✓	✓	✓	✓				
LP				✓	✓	✓	✓	✓	✓	✓		✓
WL				✓	✓	✓	✓	✓	✓	✓		✓
Sed-2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BSW2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sed-1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BSW1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
QA0626	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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.

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.