

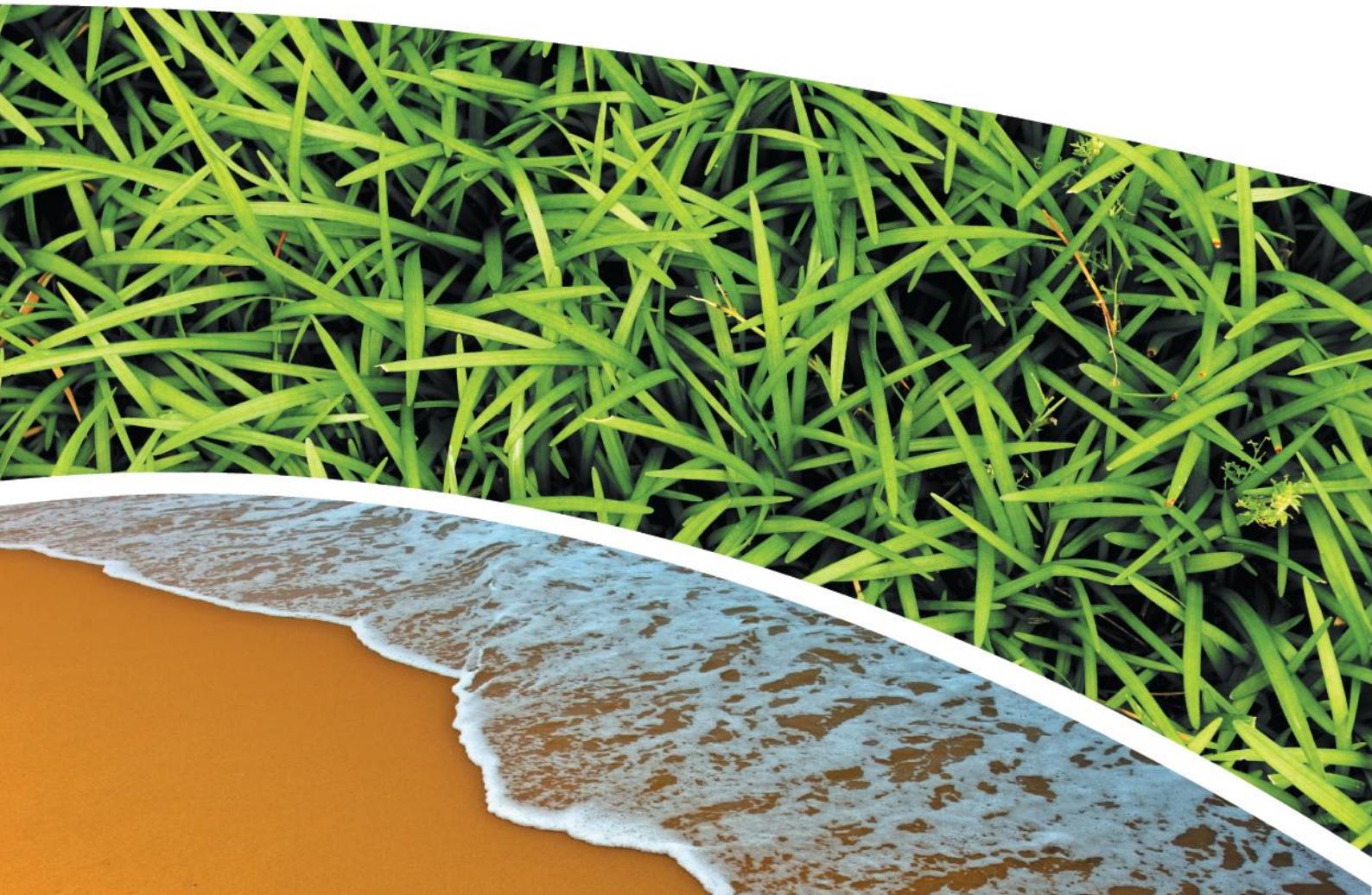
WATER MONITORING REPORT (OCTOBER TO DECEMBER 2025)
CONCRUSH FACILITY, TERALBA NSW 2284

Prepared for CONCRUSH PTY LTD

Prepared by RCA Australia

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FIELD SHEETS

APPENDIX B

LABORATORY REPORT SHEETS

4 February 2026

Concrush Pty Ltd
21 Racecourse Road
Teralba NSW 2284

Attention: Ross Lo Monaco

Geotechnical Engineering

Engineering Geology

Environmental Engineering

Hydrogeology

Construction Materials Testing

Environmental Monitoring

Noise & Vibration

Occupational Hygiene

WATER MONITORING REPORT (OCTOBER TO DECEMBER 2025) 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 October, November and December 2025 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**. 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.



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

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	<ul style="list-style-type: none"> • Depth to groundwater. • Field readings.
GW3	<ul style="list-style-type: none"> • Nutrients (ammonia, nitrate, nitrite, total phosphorous). • Hydrocarbons⁴ once a quarter.
LP	<ul style="list-style-type: none"> • Field observation of water depth at LP. • Field readings.
WL	<ul style="list-style-type: none"> • pH, electrical conductivity (EC), total suspended solids (TSS). • Nutrients (ammonia, nitrate, nitrite, total Kjeldahl nitrogen, total phosphorous).
SED1	<ul style="list-style-type: none"> • Field readings. • pH, EC, TSS.
SED2	<ul style="list-style-type: none"> • Dissolved metals³. • Hydrocarbons⁴.
BSW1	<ul style="list-style-type: none"> • Nutrients (ammonia, nitrate, nitrite, total Kjeldahl nitrogen, total phosphorous).
BSW2	<ul style="list-style-type: none"> • Nutrients (ammonia, nitrate, nitrite, total Kjeldahl nitrogen, total phosphorous).

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 a table and graphs.

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 October and December 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 however not noticeably between the wells.
- The pH was generally neutral to slightly acidic at GW1 while at GW3, it was generally slightly acidic.
- The EC obtained from the portable meter in both wells fell within the range indicative of fresh water.
- The turbidity of the groundwater obtained from the portable meter at the field was high at both wells (noting that the meter either provides a >1000 or 0 reading when the turbidity is too high 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, indicative of anoxic conditions. 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 not detected in either well, which is generally consistent with historical data.
- 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	31/10	27/11	22/12	31/10	27/11	22/12
Depth to Groundwater	--	--	2.16	2.31	2.35	3.62	3.81	4.86
Temperature (°C)*	--	--	21.07	21.20	23.73	20.61	23.34	24.87
pH (pH units)*	--	--	7.6	7.28	7.50	6.34	6.33	6.46
EC (mS/cm)*	--	--	0.675	1.05	1.06	1.51	1.61	1.52
Turbidity (Nephelometric Turbidity unit)*	--	--	264	0	676	419	433	257
Dissolved Oxygen*	--	--	1.19	3.35	1.84	2.76	7.83	1.55
Ammonia	0.9	0.91	<u>1.3</u>	<u>1.7</u>	<u>1.8</u>	<u>3.2</u>	<u>2.7</u>	<u>2.9</u>
Nitrate	2.4		0.01	0.005	0.009	<0.01	<0.01	0.02
NO _x	0.04		0.02	0.007	0.01	<0.01	<0.01	0.02
Total Phosphorus	0.025		0.2	0.4	0.2	0.07	0.09	0.08
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		--	<0.26	--	--	<0.26	--
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. No active flow was observed at BSW1 during this quarter and no active flow was observed at BSW2 in December 2025 due to dry conditions; therefore, no samples were collected.

In summary:

- pH levels at LP were above the trigger range throughout the quarter, while pH levels at WL remained within the trigger range in the available data. In contrast, pH consistently exceeded the trigger range at both SED1 and SED2 except for SED1 in November, indicating alkaline conditions. pH levels at background site BSW2 were within the trigger range in all rounds conducted throughout the quarter.
- No EC values exceeded the trigger value at any location throughout the monitoring period except for LP in October and December.
- TSS were considered low to moderate in all samples.
- Ammonia concentrations were above the trigger value at WL and LP throughout the quarter, except for the one (1) monitoring events in November at LP. Elevated concentrations were recorded during all events at SED1, and during two (2) events at SED2 and one (1) event at the background water location BSW2.
 - 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 NOx were either undetected or detected at low concentrations below the trigger values at LP and WL during the quarter. Similarly, these parameters were either undetected or detected at low concentrations below the trigger values at SED1 and SED2, with the exception of one (1) event at each site where concentrations exceeded the trigger values in October. During these events, concentrations in the background waters were either undetected or detected at low levels below the trigger values.
- Total nitrogen and total phosphorus consistently exceeded the trigger values at all monitoring locations except for total nitrogen at SED2 in November and December and total phosphorus at SED1 in December; the most significant nitrogen compound was total Kjeldahl nitrogen.
- Aluminium exceeded the trigger value in all monitoring events at both SED1 and SED2 except for one (1) event at SED1 in November, while it was either non detected or detected at low concentrations within the background waters in all rounds conducted throughout the quarter. Chromium remained below the trigger value at all locations throughout the monitoring period. Hexavalent chromium was below the trigger value in the Sediment Dams during the monitoring rounds except two (2) events for SED1 in October and December and one (1) event for SED2 in October, it was not detected in the background waters in any event. Zinc exceeded the trigger value only in BSW2 during the October round. The remaining metals were either non-detected or detected at low concentrations well below the respective trigger values at all locations.
- There were no detected hydrocarbons, except for a low concentration at SED2 in October and BSW2 in November.

Table 4 Surface Water Analysis Results – Green Waste Catchment

Analyte	Trigger Values	LP			WL		
		31/10	27/11	22/12	31/10	27/11	22/12
pH (pH units)	6.5-8.5	8.9	9.6	9.1	--	7.2	--
EC (µS/cm)	125-2200	2700	920	3200	--	1100	--
TSS	NA	160	230	16	--	64	--
Ammonia	0.0264	0.03	0.006	0.03	--	0.26	--
Nitrate	0.44	<0.005	<0.005	<0.005	--	0.02	--
NO _x	0.491	<0.005	<0.005	<0.005	--	0.02	--
Total Nitrogen	0.645	8	2.3	9.5	--	3.6	--
Total Phosphorus	0.0168	1.6	0.66	1.8	--	1.5	--

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		
		31/10	27/11	22/12	31/10	27/11	22/12	31/10	27/11	22/12	31/10	27/11	22/12
Date Sampled													
pH (pH units)	6.5-8.0	9.1	8.5	8.9	--	--	--	9.0	8.8	9.1	8.1	7.8	--
Electrical Conductivity (µS/cm)	125-2200	760	1100	850	--	--	--	390	290	340	1000	1100	--
Total Suspended Solids	NA	70	460	34	--	--	--	32	29	21	29	170	--
Ammonia	0.0264	0.14	0.83	0.18	--	--	--	<0.005	0.03	0.03	<0.005	1.0	--
Nitrate	0.44	0.42	0.02	0.091	--	--	--	0.21	0.02	0.054	0.02	<0.005	--
NO _x	0.491	0.60	0.03	0.18	--	--	--	0.60	0.02	0.062	0.02	<0.005	--
Total Nitrogen	0.645	1.5	2.4	1.5	--	--	--	1.3	0.3	0.6	1.1	5.2	--
Total Phosphorus	0.0168	0.1	0.4	0.06	--	--	--	0.08	0.06	0.06	0.52	2.6	--
Aluminium	0.08	0.14	0.07	0.14	--	--	--	0.13	0.13	0.24	0.02	0.02	--
Arsenic	0.094	0.011	0.015	0.008	--	--	--	0.008	0.004	0.008	0.007	0.01	--
Cadmium	0.0004	<0.0001	<0.0001	<0.0001	--	--	--	<0.0001	<0.0001	<0.0001	<0.0001	<0.0001	--
Chromium	0.02	0.013	0.001	0.011	--	--	--	0.008	<0.001	0.002	<0.001	<0.001	--
Hexavalent Chromium	0.0033	0.01	<0.005	0.01	--	--	--	0.006	<0.005	<0.005	<0.005	<0.005	--
Cobalt	0.015	<0.001	<0.001	<0.001	--	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	--
Copper	0.02	0.011	0.007	0.011	--	--	--	0.009	0.004	0.005	0.007	<0.001	--
Lead	0.0056	<0.001	<0.001	<0.001	--	--	--	<0.001	<0.001	<0.001	<0.001	0.001	--
Nickel	0.013	0.003	0.005	0.003	--	--	--	0.001	<0.001	<0.001	0.006	0.002	--
Selenium	0.018	0.001	<0.001	0.002	--	--	--	<0.001	<0.001	<0.001	<0.001	<0.001	--
Zinc	0.015	0.013	0.003	0.009	--	--	--	0.006	0.003	0.005	0.11	0.006	--
Boron	0.68	0.1	0.23	0.1	--	--	--	0.04	0.06	0.04	0.1	0.24	--
TRH C ₆ -C ₄₀	10	<0.26	<0.26	<0.26	--	--	--	0.144	<0.26	<0.26	<0.26	0.136	--

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 recorded a total rainfall of 173.8 mm during the monitoring period, distributed as 38 mm in October, 18.8 mm in November, and 117 mm in December. **Figure 3** below illustrates these monthly totals, along with the cumulative rainfall for each month.

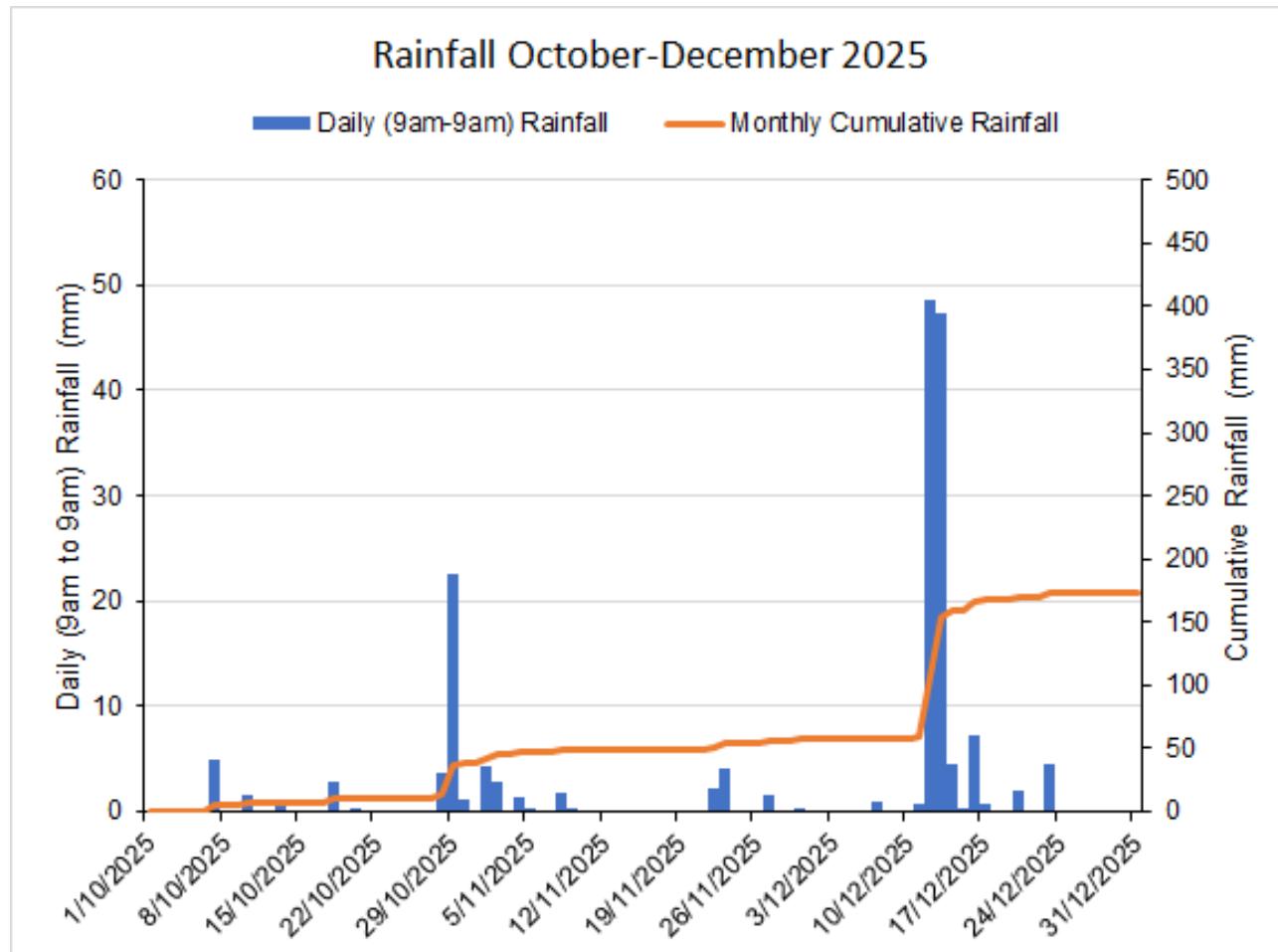


Figure 3 Rainfall for the Monitoring Period (sourced from Bureau of Meteorology weather station at Cooranbong)

5. CONCLUSIONS AND RECOMMENDATIONS

Water monitoring was undertaken at the Concrush Resource Recovery Facility through the October-December 2025 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 BSW2 due to dry conditions is not considered to represent non-compliance.

There were no discharge events during the quarter such that the quality of water within the Sediment Dams are not considered to have potentially impacted the background waters.

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

- Elevated concentrations of ammonia and phosphorous were identified in groundwater exceeding their respective ecological guidelines (Ref [2]) at both GW1 and GW3. The guidelines are not directly relevant to groundwater and rather are relevant to the receiving water, considered to be Cockle Creek. The quarter's results are 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 pH results at LP were above the trigger range during this quarter while WL remained within trigger range.
- Nutrient concentrations at LP and WL exceeded the trigger values in all the sampling rounds; the dominant form of nitrogen was organic nitrogen. It is noted that some vegetation in the WL samples may be impacting the nitrogen results.
- The pH results for both Sediment Dams were generally more alkaline than the trigger range in all sampling rounds. Within the background waters, pH values remained within the trigger range at BSW2 in all monitoring rounds.
- Nutrient concentrations at both Sediment Dams generally exceeded their respective trigger values throughout the quarter. The available data for the background waters indicated concentrations exceeding the trigger values with comparable levels observed.
- Exceedances of aluminium, hexavalent chromium and zinc trigger values were observed in either the Sediment Dams or the background waters; however, no metals were detected in excess of the criteria in both. All other metals were either not detected or detected at low concentrations below their respective trigger values.

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 March 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



Muhammad Hayyat
Environmental Engineer
MEng (Env), BEng

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 DATE: 31.10.25
 PROJECT: Water Quality Monitoring PROJECT No: 13589a
 LOCATION: 21 Racecourse Road, Teralba CLIENT REF: _____
 PERSONNEL: AH

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>9.30</u>	TO	<u>9.55</u>	HEIGHT ABOVE GROUND LEVEL: <u>0.83 m</u>			
BORE DEPTH: <u>5.13 m</u>			VOLUME PURGED: <u>3L</u>			
DEPTH TO AQUIFER: <u>3.62 m</u>						
RESULTS OF WATER QUALITY CHECK:						
Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/ +1L	<u>6.35</u>	<u>1.51</u>	<u>351</u>	<u>6.93</u>	<u>20.68</u>	<u>0.076</u>
2/ +1L	<u>6.34</u>	<u>1.52</u>	<u>242</u>	<u>4.71</u>	<u>20.89</u>	<u>0.076</u>
3/ +1L	<u>6.34</u>	<u>1.51</u>	<u>419</u>	<u>2.76</u>	<u>20.61</u>	<u>0.079</u>
4/						
5/						
6/						
Sample Appearance: <u>Pale grey, slightly turbid, 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: <u>10.00</u>	TO	<u>10.10</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>8.73</u>	<u>2.65</u>	<u>493</u>	<u>8.37</u>	<u>20.53</u>	<u>0.137</u>
2/						
3/						
4/						
5/						
6/						
Sample Appearance: <u>Pale yellow, turbid, no odour</u>						
Duplicate Identification and Other Remarks: _____						

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

Dry

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: Sediment Dam 2 (Southwest corner – adjacent railway). Label bottles 'Sed2'
TIME: 11:15 TO 11:40

RESULTS OF WATER QUALITY CHECK:

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	<u>9.65</u>	<u>6,361</u>	<u>139</u>	<u>7.02</u>	<u>23.27</u>	<u>0.017</u>
2/						
3/						
4/						
5/						
6/						

Sample Appearance: Pale grey, slightly turbid, no odour

Duplicate Identification and Other Remarks: _____

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

No discharge

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:		BSW2 (Western end, south of site boundary, down ladder). Label bottles 'BSW2' – Previously known as 'SW2'				
TIME:	11:50	TO	12:30	WATCH for SNAKES Be careful – poor footing		
RESULTS OF WATER QUALITY CHECK:						
Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	8.26	0.958	234	6.79	22.85	0.047
2/						
3/						
4/						
5/						
6/						
Sample Appearance:		Pale yellow, clear, no odour				
Duplicate Identification and Other Remarks:		QA1025 here				

BORE OR LOCATION ID:		BH1 (Western end – adjacent Railway) Label bottles 'GW1'				
TIME:	10:50	TO	11:15			
BORE DEPTH:	4.83 m	HEIGHT ABOVE GROUND LEVEL:			0.0	
DEPTH TO AQUIFER:	2.16 m	VOLUME PURGED:			8L	
RESULTS OF WATER QUALITY CHECK:						
Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/ + 3	7.6	0.715	218	6.72	20.68	0.035
2/ + 1	7.6	0.705	302	3.89	20.93	0.033
3/ + 1	7.6	0.675	328	2.81	20.83	0.033
4/ + 1	7.6	0.675	264	1.79	21.07	0.032
5/						
6/						
Sample Appearance:		Dark grey, turbid, slight sulphide odour				
Duplicate Identification and Other Remarks:						

BORE OR LOCATION ID:		Sediment Dam 1 (North west corner – adjacent railway). Label bottles 'Sed1'				
TIME:	12:40	TO	13:00			
RESULTS OF WATER QUALITY CHECK:						
Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/	9.43	0.72	160	6.44	28.11	0.035
2/						
3/						
4/						
5/						
6/						
Sample Appearance:		Brown, turbid, no odour				
Duplicate Identification and Other Remarks:						

BORE OR LOCATION ID:		Surface Water 1. Label bottles 'SW1' – Previously known as 'DIS-SED1'				
TIME: _____ TO _____		HEIGHT ABOVE GROUND LEVEL: <u>No discharge</u>				
BORE DEPTH: _____		DEPTH TO AQUIFER: _____				
RESULTS OF WATER QUALITY CHECK: _____		VOLUME PURGED: _____				
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: _____ 2						

BORE OR LOCATION ID:		BSW1 (Western side of Racecourse Road, north of rail access drive). Label bottles 'BSW1' – Previously known as 'SW1'				
TIME: _____ TO _____		HEIGHT ABOVE GROUND LEVEL: <u>Dry</u>				
BORE DEPTH: _____		DEPTH TO AQUIFER: _____				
RESULTS OF WATER QUALITY CHECK: _____		VOLUME PURGED: _____				
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: Damien B

DATE: 27/11/25
 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)

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>12:10PM</u>	TO	<u>12:30PM</u>	HEIGHT ABOVE GROUND LEVEL: <u>0,85</u>			
BORE DEPTH: <u>5.09</u>				VOLUME PURGED: <u>3L</u>		
DEPTH TO AQUIFER: <u>3.808</u>						
RESULTS OF WATER QUALITY CHECK:						
Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/12.18	6.39	1.46	120	3.76	27.55	0.073
2/12.20	6.40	1.54	297	8.30	24.33	0.077
3/12.22	6.33	1.61	433	7.83	23.39	0.081
4/						
5/						
6/						
Sample Appearance: _____						
Duplicate Identification and Other Remarks: <u>clear water with brown tinge with minor sediment, minor off smell odour No bubble</u>						

BORE OR LOCATION ID: Leachate Pond (Eastern end – adjacent Racecourse Road). Sample at outlet to Wetland Pond. Label bottles 'LP'						
TIME: <u>11:50PM</u>	TO	<u>12:05PM</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 (%)
1/11.55	10.25	0.958	342	7.33	31.78	0.047
2/11.57	10.38	0.981	276	6.84	32.68	0.041
3/11.59	10.46	0.972	227	5.93	32.74	0.041
4/						
5/						
6/						
Sample Appearance: <u>water brown tinge with minor sediment no odour</u>						
Duplicate Identification and Other Remarks: _____						

BORE OR LOCATION ID: Wetland (Eastern end – adjacent Racecourse Road). Label bottles 'WL'
 TIME: 11:30am TO 11:45am

RESULTS OF WATER QUALITY CHECK:

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/ 11.37	7.61	1.10	60.3	1.59	25.01	0.055
2/ 11.39	7.51	1.13	62.9	8.44	29.37	0.056
3/ 11.41	7.53	1.08	55.1	8.25	29.00	0.059
4/						
5/						
6/						

Sample Appearance: clear brownish water no odor
 Duplicate Identification and Other Remarks: QA II 25

BORE OR LOCATION ID: Sediment Dam 2 (Southwest corner – adjacent railway). Label bottles 'Sed2'
 TIME: 9.45am TO 10.05am

RESULTS OF WATER QUALITY CHECK:

water clear no odour

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/ 9.47	9.22	0.367	219	5.81	28.31	0.017
2/ 9.49	9.30	0.309	129	5.12	27.56	0.014
3/ 9.51	9.30	0.290	116	7.75	27.07	0.014
4/						
5/						
6/						

Sample Appearance:

Duplicate Identification and Other Remarks:

water cool 0.8m

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 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: 10,50am

TO

11,10am

WATCH for SNAKES

Be careful – poor footing

RESULTS OF WATER QUALITY CHECK:

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/10.52	8.13	1.20	370	8.56	24.59	0.060
2/10.54	8.27	1.22	343	4.56	24.96	0.060
3/10.56	8.37	1.21	362	4.26	25.11	0.061
4/						
5/						
6/						

Sample Appearance: Brownish grey water no smell minor sediment

Duplicate Identification and Other Remarks:

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

TIME: 10,10am TO 10,40am

BORE DEPTH: 4.77 HEIGHT ABOVE GROUND LEVEL: 0
DEPTH TO AQUIFER: 4.308 VOLUME PURGED: 3L

RESULTS OF WATER QUALITY CHECK:

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/10.19	7.29	0.989	127	8.55	24.52	0.049
2/10.21	7.29	1.02	0	9.6	22.29	0.051
3/10.23	7.28	1.05	0	3.35	21.20	0.052
4/						
5/						
6/						

Sample Appearance: Dark grey turbid water, slight sulphur odour, minor sediment

Duplicate Identification and Other Remarks:

9/

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

TIME: 8:55am TO 9,20am

RESULTS OF WATER QUALITY CHECK:

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/ 8.57	6.87	1.10	869	5.54	24.26	0.055
2/ 9am	6.86	1.16	895	4.47	24.96	0.054
3/ 9.03	6.86	1.08	889	7.49	25.67	0.054
4/						
5/						
6/						

Sample Appearance: Brown tinted water no odour, no sediment

Duplicate Identification and Other Remarks: water level 0.7m

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, Terlaba
PERSONNEL: DG miles

DATE: 22/12/25
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.

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

Get Key for side
gate from
weighbridge to
get to SW2

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

TIME: 12.50

TO

1.15pm

HEIGHT ABOVE GROUND LEVEL:

0.85

BORE DEPTH:

5.09 m

DEPTH TO AQUIFER:

4.863

VOLUME PURGED:

3L

RESULTS OF WATER QUALITY CHECK:

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (‰)
1/1.06	6.45	1.99	168	3.57	26.79	0.079
2/1.08	6.68	1.95	136	1.96	25.24	0.073
3/1.10	6.46	1.52	257	1.55	24.87	0.076
4/						
5/						
6/						

Sample Appearance: Water brown, turbid minor sediment no odour

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: 12.40pm

TO

12.50pm



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 (‰)
1/12.45	9.36	3.03	191	7.57	28.02	0.158
2/12.47	9.71	3.25	256	5.76	27.96	0.270
3/12.49	9.71	3.30	227	5.31	28.01	0.172
4/						
5/						
6/						

Sample Appearance: Water yellow brown, turbid no odour

Duplicate Identification and Other Remarks:

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

TIME: _____ TO _____

DR no sample

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

TIME: 10.55am TO 11.15am

clear water no odour

RESULTS OF WATER QUALITY CHECK:

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/ 11.00	9.56	0.352	120	5.02	27.17	0.017
2/ 11.02	2.67	0.329	132	4.47	27.16	0.016
3/ 11.04	9.74	0.339	130	4.28	27.25	0.016
4/						
5/						
6/						

Sample Appearance: _____

Duplicate Identification and Other Remarks: QA 1225

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:

DR 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:		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:		Dry no signif				
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:		Dry no signif				
Duplicate Identification and Other Remarks:						

22/11/25

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

TIME: _____ TO _____

WATCH for SNAKES

Be careful – poor footing

RESULTS OF WATER QUALITY CHECK:

DR 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: BH1 (Western end – adjacent Railway) Label bottles 'GW1'

TIME: 11.20am TO 11.50am

BORE DEPTH: 2.348 HEIGHT ABOVE GROUND LEVEL: 0.4

DEPTH TO AQUIFER: VOLUME PURGED: 7L

RESULTS OF WATER QUALITY CHECK:

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/11.39	7.62	0.975	3.52	1.97	25.18	0.046
2/11.41	7.53	1.01	0	3.75	23.91	0.050
3/11.44	7.50	1.06	6.96	1.84	23.73	0.053
4/						
5/						
6/						

Sample Appearance: Dark grey turbid, might put for organ

Duplicate Identification and Other Remarks:

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

TIME: 10.15 TO 10.45am

RESULTS OF WATER QUALITY CHECK:

Check No.	pH	Conductivity (mS/cm)	Turbidity	Dissolved O ₂ (mg/L)	Temperature (°C)	Salinity (%)
1/10.20	8.88	0.709	107	7.09	27.41	0.045
2/10.22	9.25	0.866	107	3.75	27.61	0.048
3/10.24	7.35	0.854	106	3.80	26.97	0.042
4/						
5/						
6/						

Sample Appearance: clear water no silt right along base

Duplicate Identification and Other Remarks:

Water level 0.8m

Appendix B

Laboratory Report Sheets

CERTIFICATE OF ANALYSIS 394389

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	7 Water
Date samples received	31/10/2025
Date completed instructions received	03/11/2025

Analysis Details

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

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

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

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

Report Details

Date results requested by	10/11/2025
Date of Issue	10/11/2025
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Dragana Tomas, Senior Chemist
Neena Tewari, Senior Chemist
Priya Samarawickrama, Senior Chemist
Tabitha Roberts, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Water					
Our Reference	UNITS	394389-4	394389-5	394389-6	394389-7
Your Reference		Sed-2	BSW2	Sed-1	QA102025
Date Sampled		31/10/2025	31/10/2025	31/10/2025	31/10/2025
Type of sample		Water	Water	Water	Water
Date extracted	-	05/11/2025	05/11/2025	05/11/2025	05/11/2025
Date analysed	-	06/11/2025	06/11/2025	06/11/2025	06/11/2025
TRH C ₆ - C ₉	µg/L	17	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	19	<10	<10	<10
TRH C ₆ - C ₁₀ less BTEX (F1)	µg/L	19	<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	%	103	102	100	102
Surrogate Toluene-d8	%	101	102	99	102
Surrogate 4-Bromofluorobenzene	%	97	96	97	97

svTRH (C10-C40) in Water					
Our Reference		394389-4	394389-5	394389-6	394389-7
Your Reference	UNITS	Sed-2	BSW2	Sed-1	QA102025
Date Sampled		31/10/2025	31/10/2025	31/10/2025	31/10/2025
Type of sample		Water	Water	Water	Water
Date extracted	-	04/11/2025	04/11/2025	04/11/2025	04/11/2025
Date analysed	-	04/11/2025	04/11/2025	04/11/2025	04/11/2025
TRH C ₁₀ - C ₁₄	µg/L	<50	<50	<50	<50
TRH C ₁₅ - C ₂₈	µg/L	<100	<100	<100	<100
TRH C ₂₉ - C ₃₆	µg/L	<100	<100	<100	<100
Total +ve TRH (C10-C36)	µg/L	<50	<50	<50	<50
TRH >C ₁₀ - C ₁₆	µg/L	<50	<50	<50	<50
TRH >C ₁₆ - C ₃₄	µg/L	<100	<100	<100	<100
TRH >C ₃₄ - C ₄₀	µg/L	<100	<100	<100	<100
Total +ve TRH (>C10-C40)	µg/L	<50	<50	<50	<50
Surrogate o-Terphenyl	%	88	95	96	84

HM in water - dissolved					
Our Reference	UNITS	394389-4	394389-5	394389-6	394389-7
Your Reference		Sed-2	BSW2	Sed-1	QA102025
Date Sampled		31/10/2025	31/10/2025	31/10/2025	31/10/2025
Type of sample		Water	Water	Water	Water
Date prepared	-	06/11/2025	06/11/2025	06/11/2025	06/11/2025
Date analysed	-	06/11/2025	06/11/2025	06/11/2025	06/11/2025
Aluminium-Dissolved	µg/L	130	20	140	80
Arsenic-Dissolved	µg/L	8	7	11	7
Boron-Dissolved	µg/L	40	100	100	100
Cadmium-Dissolved	µg/L	<0.1	<0.1	<0.1	<0.1
Chromium-Dissolved	µg/L	8	<1	13	2
Cobalt-Dissolved	µg/L	<1	<1	<1	<1
Copper-Dissolved	µg/L	9	7	11	2
Lead-Dissolved	µg/L	<1	<1	<1	<1
Nickel-Dissolved	µg/L	1	6	3	1
Selenium-Dissolved	µg/L	<1	<1	1	<1
Zinc-Dissolved	µg/L	6	110	13	21

Metals in Waters - Acid extractable						
Our Reference		394389-1	394389-2	394389-3	394389-4	394389-5
Your Reference	UNITS	GW1	GW3	LP	Sed-2	BSW2
Date Sampled		31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	06/11/2025	06/11/2025	06/11/2025	06/11/2025	06/11/2025
Date analysed	-	07/11/2025	07/11/2025	07/11/2025	07/11/2025	07/11/2025
Phosphorus - Total	mg/L	0.2	0.07	1.6	0.08	0.52

Metals in Waters - Acid extractable			
Our Reference		394389-6	394389-7
Your Reference	UNITS	Sed-1	QA102025
Date Sampled		31/10/2025	31/10/2025
Type of sample		Water	Water
Date prepared	-	06/11/2025	06/11/2025
Date analysed	-	07/11/2025	07/11/2025
Phosphorus - Total	mg/L	0.1	0.5

Miscellaneous Inorganics						
Our Reference	UNITS	394389-1	394389-2	394389-3	394389-4	394389-5
Your Reference		GW1	GW3	LP	Sed-2	BSW2
Date Sampled		31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025
Date analysed	-	03/11/2025	03/11/2025	03/11/2025	03/11/2025	03/11/2025
Ammonia as N in water	mg/L	1.3	3.2	0.03	<0.005	<0.005
Nitrite as N in water	mg/L	<0.005	<0.01	<0.005	0.39	0.005
Nitrate as N in water	mg/L	0.01	<0.01	<0.005	0.21	0.02
NOx as N in water	mg/L	0.02	<0.01	<0.005	0.60	0.02
TKN in water	mg/L	[NA]	[NA]	8.0	0.7	1.1
Total Nitrogen in water	mg/L	[NA]	[NA]	8.0	1.3	1.1
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	[NA]	[NA]	[NA]	0.006	<0.005

Miscellaneous Inorganics			
Our Reference	UNITS	394389-6	394389-7
Your Reference		Sed-1	QA102025
Date Sampled		31/10/2025	31/10/2025
Type of sample		Water	Water
Date prepared	-	03/11/2025	03/11/2025
Date analysed	-	03/11/2025	03/11/2025
Ammonia as N in water	mg/L	0.14	<0.005
Nitrite as N in water	mg/L	0.18	<0.005
Nitrate as N in water	mg/L	0.42	<0.005
NOx as N in water	mg/L	0.60	<0.005
TKN in water	mg/L	0.9	1.2
Total Nitrogen in water	mg/L	1.5	1.2
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	0.01	<0.005

Miscellaneous Inorganics						
Our Reference		394389-3	394389-4	394389-5	394389-6	394389-7
Your Reference	UNITS	LP	Sed-2	BSW2	Sed-1	QA102025
Date Sampled		31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
Date analysed	-	31/10/2025	31/10/2025	31/10/2025	31/10/2025	31/10/2025
Total Suspended Solids	mg/L	160	32	29	70	25
pH	pH Units	8.9	9.0	8.1	9.1	8.0
Electrical Conductivity	µS/cm	2,700	390	1,000	760	1,000

Method ID	Methodology Summary
Ext-073_F	Analysis of pH in Water by AS 4500 H+ B and in-house method ENV-LAB006, Analysed by Envirolab Newcastle - NATA Site No. 18077
Ext-073_G	Analysis of Conductivity in Water by AS 2510 B and in-house method ENV-LAB010, Analysed by Envirolab Newcastle - NATA Site No. 18077
Ext-073_J	Analysis of Total Suspended Solids in Water by AS 2540 D and in-house method ENV-LAB009, 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	<p>Determination of various metals/elements by ICP-AES.</p> <p>Total Phosphate determined stoichiometrically from Phosphorus (assumed to be present as Phosphate).</p> <p>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.</p> <p>Submission of low masses of sample e.g. for dust samples, may result in raised PQLs.</p> <p>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.</p>
Metals-022	<p>Determination of various metals by ICP-MS.</p> <p>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.</p> <p>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.</p>
Org-020	<p>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.</p>
Org-023	<p>Water samples are analysed directly by purge and trap GC-MS.</p>
Org-023	<p>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.</p>
Org-023	<p>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.</p> <p>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.</p>

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	-			05/11/2025	[NT]	[NT]	[NT]	[NT]	05/11/2025	[NT]
Date analysed	-			06/11/2025	[NT]	[NT]	[NT]	[NT]	06/11/2025	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	114	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	114	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	118	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	115	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	112	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	113	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	115	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	100	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate Toluene-d8	%		Org-023	98	[NT]	[NT]	[NT]	[NT]	97	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	97	[NT]	[NT]	[NT]	[NT]	95	[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	-			04/11/2025	[NT]	[NT]	[NT]	[NT]	04/11/2025	[NT]
Date analysed	-			04/11/2025	[NT]	[NT]	[NT]	[NT]	04/11/2025	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	90	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	107	[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]	90	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	107	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	86	[NT]
Surrogate o-Terphenyl	%		Org-020	90	[NT]	[NT]	[NT]	[NT]	96	[NT]

QUALITY CONTROL: HM in water - dissolved						Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	[NT]	
Date prepared	-			06/11/2025	[NT]	[NT]	[NT]	[NT]	06/11/2025	[NT]	
Date analysed	-			06/11/2025	[NT]	[NT]	[NT]	[NT]	06/11/2025	[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]	102	[NT]	
Boron-Dissolved	µg/L	20	Metals-022	<20	[NT]	[NT]	[NT]	[NT]	82	[NT]	
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	99	[NT]	
Chromium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]	
Cobalt-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	105	[NT]	
Copper-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	103	[NT]	
Lead-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]	
Nickel-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	104	[NT]	
Selenium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]	
Zinc-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	101	[NT]	

QUALITY CONTROL: Metals in Waters - Acid extractable							Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	394389-7	
Date prepared	-			06/11/2025	4	06/11/2025	06/11/2025		06/11/2025	06/11/2025	
Date analysed	-			07/11/2025	4	07/11/2025	07/11/2025		07/11/2025	07/11/2025	
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	4	0.08	0.08	0	97	105	

QUALITY CONTROL: Miscellaneous Inorganics					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			03/11/2025	2	03/11/2025	03/11/2025		03/11/2025	[NT]
Date analysed	-			03/11/2025	2	03/11/2025	03/11/2025		03/11/2025	[NT]
Ammonia as N in water	mg/L	0.005	Inorg-057	<0.005	2	3.2	3.1	3	94	[NT]
Nitrite as N in water	mg/L	0.005	Inorg-055	<0.005	2	<0.01	<0.01	0	92	[NT]
Nitrate as N in water	mg/L	0.005	Inorg-055	<0.005	2	<0.01	<0.01	0	94	[NT]
NOx as N in water	mg/L	0.005	Inorg-055	<0.005	2	<0.01	<0.01	0	94	[NT]
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]	104	[NT]
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	0.005	Inorg-118	<0.005	[NT]	[NT]	[NT]	[NT]	119	[NT]

QUALITY CONTROL: Miscellaneous Inorganics							Duplicate		Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			[NT]	[NT]	[NT]	[NT]	[NT]	31/10/2025	[NT]
Date analysed	-			[NT]	[NT]	[NT]	[NT]	[NT]	31/10/2025	[NT]
Total Suspended Solids	mg/L	5	Ext-073_J	<5	[NT]	[NT]	[NT]	[NT]	98	[NT]
pH	pH Units		Ext-073_F	[NT]	[NT]	[NT]	[NT]	[NT]	100	[NT]
Electrical Conductivity	µS/cm	2	Ext-073_G	[NT]	[NT]	[NT]	[NT]	[NT]	103	[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.

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

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

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

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

Measurement Uncertainty estimates are available for most tests upon request.

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

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

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

Report Comments

MISC_INORG: 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 Services
12 Ashley St

ENVIROLAB
GROUP

Chatswood NSW 2067

Ph: (02) 9910 6200

Job No: 394389

31/11/25

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Company:	RCA Australia			RCA Reference Number (i.e. report title)				Date Received:
Contact person:	Fiona Brooker			13589a			Time Received:	
Project Mgr:	Fiona Brooker			PO No. (if applicable):	Not applicable			Received By: TV
Sampler:	Damien			Envirolab Quote No. :	BM8			Temp: Cool/Ambient
Address:	92 Hill St Carrington, NSW 2294			Date results required:				Cooling: Ice/Icepack
Phone:	02 4902 9200	Mob:	0410 230 644				Security: Intact/Broken/None	
Email results to:	administrator@rca.com.au + enviro@rca.com.au						Sydney Lab - Envirolab Services	
Email invoice to:							12 Ashley St, Chatswood, NSW 2067	
							02 9910 6200 sydney@envirolab.com.au	

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 (Aluminum, 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	30/10/2025 - 11:15	Water	4	x								x	
2	GW3	30/10/2025 - 9:55	Water	4	x								x	
3	LP	30/10/2025 - 10:10	Water	4	x		x				x	x	x	
4	WL	30/10/2025	Water	4	x	x	x		x	x	x	x	x	Dry
5	Sed-2	30/10/2025 - 11:40	Water	9	x	x	x	x	x	x	x	x	x	
6	BSW2	30/10/2025 - 12:30	Water	9	x	x	x	x	x	x	x	x	x	
7	Sed-1	30/10/2025	Water	9	x	x	x	x	x	x	x	x	x	
8	BSW1	30/10/2025	Water	9	x	x	x	x	x	x	x	x	x	Dry
9	QA102025	30/10/2025	Water	9	x	x	x	x	x	x	x	x	x	
				Total	61 - 13	7-2	2	7-2	5-1	5-1	5-1	7-2	7-2	2

Relinquished by (company):	RCA Australia	Received by (company):	Envirolab.					Lab use only:			
Print Name:	Anh Hoang	Print Name:	Laura Schotterl					Job Number	394389	Cooling:	Ice / Ice Pack / None
Date & Time:	31.10.25 - 14:00	Date & Time:	31/10/2025 - 14:00					Temperature	6.3	Security Seal:	Intact / Broken / Not Used
Signature:	Alvin	Signature:	WOO					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	394389
Date Sample Received	31/10/2025
Date Instructions Received	03/11/2025
Date Results Expected to be Reported	10/11/2025

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	7 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	6.3
Cooling Method	Ice
Sampling Date Provided	YES

Comments

received in ELS Newcastle 31/10/25

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				✓	✓	✓	✓	✓	✓	✓		✓
Sed-2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
BSW2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sed-1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
QA102025	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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 396660

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	8 Water
Date samples received	27/11/2025
Date completed instructions received	28/11/2025

Analysis Details

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

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

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

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

Report Details

Date results requested by	05/12/2025
Date of Issue	05/12/2025
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Larry Ye, Senior Chemist
Laura Schofield, Lab Manager
Priya Samarawickrama, Senior Chemist
Timothy Toll, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

vTRH(C6-C10)/BTEXN in Water						
Our Reference	UNITS	396660-1	396660-2	396660-5	396660-6	396660-7
Your Reference		GW1	GW3	Sed-2	BSW2	Sed-1
Date Sampled		27/11/2025	27/11/2025	27/11/2025	27/11/2025	27/11/2025
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	02/12/2025	02/12/2025	02/12/2025	02/12/2025	02/12/2025
Date analysed	-	03/12/2025	03/12/2025	03/12/2025	03/12/2025	03/12/2025
TRH C ₆ - C ₉	µg/L	<10	<10	<10	<10	<10
TRH C ₆ - C ₁₀	µg/L	<10	<10	<10	11	<10
TRH C ₆ - C ₁₀ less BTEX (F1)	µg/L	<10	<10	<10	11	<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	99	100	102	101
Surrogate Toluene-d8	%	100	97	99	100	100
Surrogate 4-Bromofluorobenzene	%	99	100	100	99	99

svTRH (C10-C40) in Water						
Our Reference	UNITS	396660-1	396660-2	396660-5	396660-6	396660-7
Your Reference		GW1	GW3	Sed-2	BSW2	Sed-1
Date Sampled		27/11/2025	27/11/2025	27/11/2025	27/11/2025	27/11/2025
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	01/12/2025	01/12/2025	01/12/2025	01/12/2025	01/12/2025
Date analysed	-	02/12/2025	02/12/2025	02/12/2025	02/12/2025	02/12/2025
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	%	88	89	81	88	87

HM in water - dissolved				
Our Reference	UNITS	396660-5	396660-6	396660-7
Your Reference		Sed-2	BSW2	Sed-1
Date Sampled		27/11/2025	27/11/2025	27/11/2025
Type of sample		Water	Water	Water
Date prepared	-	01/12/2025	01/12/2025	01/12/2025
Date analysed	-	01/12/2025	01/12/2025	01/12/2025
Aluminium-Dissolved	µg/L	130	20	70
Arsenic-Dissolved	µg/L	4	10	15
Boron-Dissolved	µg/L	60	240	230
Cadmium-Dissolved	µg/L	<0.1	<0.1	<0.1
Chromium-Dissolved	µg/L	<1	<1	1
Cobalt-Dissolved	µg/L	<1	<1	<1
Copper-Dissolved	µg/L	4	<1	7
Lead-Dissolved	µg/L	<1	1	<1
Nickel-Dissolved	µg/L	<1	2	5
Selenium-Dissolved	µg/L	<1	<1	<1
Zinc-Dissolved	µg/L	3	6	3

Metals in Waters - Acid extractable						
Our Reference		396660-1	396660-2	396660-3	396660-4	396660-5
Your Reference	UNITS	GW1	GW3	LP	WL	Sed-2
Date Sampled		27/11/2025	27/11/2025	27/11/2025	27/11/2025	27/11/2025
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	02/12/2025	02/12/2025	02/12/2025	02/12/2025	02/12/2025
Date analysed	-	02/12/2025	02/12/2025	02/12/2025	02/12/2025	02/12/2025
Phosphorus - Total	mg/L	0.4	0.09	0.66	1.5	0.06

Metals in Waters - Acid extractable				
Our Reference		396660-6	396660-7	396660-8
Your Reference	UNITS	BSW2	Sed-1	QA1125
Date Sampled		27/11/2025	27/11/2025	27/11/2025
Type of sample		Water	Water	Water
Date prepared	-	02/12/2025	02/12/2025	02/12/2025
Date analysed	-	02/12/2025	02/12/2025	02/12/2025
Phosphorus - Total	mg/L	2.6	0.4	1.3

Miscellaneous Inorganics						
Our Reference		396660-1	396660-2	396660-3	396660-4	396660-5
Your Reference	UNITS	GW1	GW3	LP	WL	Sed-2
Date Sampled		27/11/2025	27/11/2025	27/11/2025	27/11/2025	27/11/2025
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	28/11/2025	28/11/2025	28/11/2025	28/11/2025	28/11/2025
Date analysed	-	28/11/2025	28/11/2025	28/11/2025	28/11/2025	28/11/2025
Ammonia as N in water	mg/L	1.7	2.7	0.006	0.26	0.03
Nitrite as N in water	mg/L	<0.005	<0.005	<0.005	<0.005	<0.005
Nitrate as N in water	mg/L	0.005	<0.01	<0.005	0.02	0.02
NOx as N in water	mg/L	0.007	<0.01	<0.005	0.02	0.02
TKN in water	mg/L	[NA]	[NA]	2.3	3.6	0.3
Total Nitrogen in water	mg/L	[NA]	[NA]	2.3	3.6	0.3
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	[NA]	[NA]	[NA]	[NA]	<0.005

Miscellaneous Inorganics				
Our Reference		396660-6	396660-7	396660-8
Your Reference	UNITS	BSW2	Sed-1	QA1125
Date Sampled		27/11/2025	27/11/2025	27/11/2025
Type of sample		Water	Water	Water
Date prepared	-	28/11/2025	28/11/2025	28/11/2025
Date analysed	-	28/11/2025	28/11/2025	28/11/2025
Ammonia as N in water	mg/L	1.0	0.83	0.23
Nitrite as N in water	mg/L	<0.005	0.01	<0.005
Nitrate as N in water	mg/L	<0.005	0.02	0.008
NOx as N in water	mg/L	<0.005	0.03	0.009
TKN in water	mg/L	5.2	2.3	3.8
Total Nitrogen in water	mg/L	5.2	2.4	3.8
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	<0.005	<0.005	[NA]

Miscellaneous Inorganics						
Our Reference		396660-3	396660-4	396660-5	396660-6	396660-7
Your Reference	UNITS	LP	WL	Sed-2	BSW2	Sed-1
Date Sampled		27/11/2025	27/11/2025	27/11/2025	27/11/2025	27/11/2025
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	27/11/2025	27/11/2025	27/11/2025	27/11/2025	27/11/2025
Date analysed	-	27/11/2025	27/11/2025	27/11/2025	27/11/2025	27/11/2025
Total Suspended Solids	mg/L	230	64	29	170	460
pH	pH Units	9.6	7.2	8.8	7.8	8.5
Electrical Conductivity	µS/cm	920	1,100	290	1,100	1,100

Miscellaneous Inorganics		
Our Reference		396660-8
Your Reference	UNITS	QA1125
Date Sampled		27/11/2025
Type of sample		Water
Date prepared	-	27/11/2025
Date analysed	-	27/11/2025
Total Suspended Solids	mg/L	26
pH	pH Units	7.2
Electrical Conductivity	µS/cm	1,000

Method ID	Methodology Summary
Ext-073_F	Analysis of pH in Water by AS 4500 H+ B and in-house method ENV-LAB006, Analysed by Envirolab Newcastle - NATA Site No. 18077
Ext-073_G	Analysis of Conductivity in Water by AS 2510 B and in-house method ENV-LAB010, Analysed by Envirolab Newcastle - NATA Site No. 18077
Ext-073_J	Analysis of Total Suspended Solids in Water by AS 2540 D and in-house method ENV-LAB009, 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	<p>Determination of various metals/elements by ICP-AES.</p> <p>Total Phosphate determined stoichiometrically from Phosphorus (assumed to be present as Phosphate).</p> <p>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.</p> <p>Submission of low masses of sample e.g. for dust samples, may result in raised PQLs.</p> <p>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.</p>
Metals-022	<p>Determination of various metals by ICP-MS.</p> <p>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.</p> <p>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.</p>
Org-020	<p>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.</p>
Org-023	<p>Water samples are analysed directly by purge and trap GC-MS.</p>
Org-023	<p>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.</p>
Org-023	<p>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.</p> <p>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.</p>

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water							Duplicate		Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	[NT]
Date extracted	-			02/12/2025	1	02/12/2025	03/12/2025		02/12/2025	[NT]
Date analysed	-			03/12/2025	1	03/12/2025	04/12/2025		03/12/2025	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	1	<10	<10	0	87	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	1	<10	<10	0	87	[NT]
Benzene	µg/L	1	Org-023	<1	1	<1	<1	0	87	[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	83	[NT]
m+p-xylene	µg/L	2	Org-023	<2	1	<2	<2	0	88	[NT]
o-xylene	µg/L	1	Org-023	<1	1	<1	<1	0	87	[NT]
Naphthalene	µg/L	1	Org-023	<1	1	<1	<1	0	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	98	1	100	98	2	102	[NT]
Surrogate Toluene-d8	%		Org-023	98	1	100	99	1	101	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	99	1	99	99	0	99	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			01/12/2025	[NT]	[NT]	[NT]	[NT]	01/12/2025	[NT]
Date analysed	-			02/12/2025	[NT]	[NT]	[NT]	[NT]	02/12/2025	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	118	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	129	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	114	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	118	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	129	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	114	[NT]
Surrogate o-Terphenyl	%		Org-020	91	[NT]	[NT]	[NT]	[NT]	122	[NT]

QUALITY CONTROL: HM in water - dissolved							Duplicate		Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	[NT]
Date prepared	-			01/12/2025	5	01/12/2025	01/12/2025		01/12/2025	[NT]
Date analysed	-			01/12/2025	5	01/12/2025	01/12/2025		01/12/2025	[NT]
Aluminium-Dissolved	µg/L	10	Metals-022	<10	5	130	120	8	89	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	5	4	5	22	95	[NT]
Boron-Dissolved	µg/L	20	Metals-022	<20	5	60	50	18	86	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	5	<0.1	<0.1	0	98	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	5	<1	<1	0	92	[NT]
Cobalt-Dissolved	µg/L	1	Metals-022	<1	5	<1	<1	0	97	[NT]
Copper-Dissolved	µg/L	1	Metals-022	<1	5	4	4	0	97	[NT]
Lead-Dissolved	µg/L	1	Metals-022	<1	5	<1	<1	0	103	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	5	<1	<1	0	94	[NT]
Selenium-Dissolved	µg/L	1	Metals-022	<1	5	<1	<1	0	97	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	5	3	3	0	93	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable							Duplicate		Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			02/12/2025	1	02/12/2025	02/12/2025		02/12/2025	[NT]
Date analysed	-			02/12/2025	1	02/12/2025	02/12/2025		02/12/2025	[NT]
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	1	0.4	0.4	0	108	[NT]

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	396660-5	
Date prepared	-			28/11/2025	[NT]	[NT]	[NT]	[NT]	28/11/2025	28/11/2025	
Date analysed	-			28/11/2025	[NT]	[NT]	[NT]	[NT]	28/11/2025	28/11/2025	
Ammonia as N in water	mg/L	0.005	Inorg-057	<0.005	[NT]	[NT]	[NT]	[NT]	92	114	
Nitrite as N in water	mg/L	0.005	Inorg-055	<0.005	[NT]	[NT]	[NT]	[NT]	95	97	
Nitrate as N in water	mg/L	0.005	Inorg-055	<0.005	[NT]	[NT]	[NT]	[NT]	99	97	
NOx as N in water	mg/L	0.005	Inorg-055	<0.005	[NT]	[NT]	[NT]	[NT]	99	97	
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]	108	[NT]	
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	0.005	Inorg-118	<0.005	[NT]	[NT]	[NT]	[NT]	108	[NT]	

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			27/11/2025	[NT]	[NT]	[NT]	[NT]	27/11/2025	[NT]
Date analysed	-			27/11/2025	[NT]	[NT]	[NT]	[NT]	27/11/2025	[NT]
Total Suspended Solids	mg/L	5	Ext-073_J	<5	[NT]	[NT]	[NT]	[NT]	100	[NT]
pH	pH Units		Ext-073_F	[NT]	[NT]	[NT]	[NT]	[NT]	101	[NT]
Electrical Conductivity	µS/cm	1	Ext-073_G	[NT]	[NT]	[NT]	[NT]	[NT]	97	[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.

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: 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

The EnviroLab logo is a circular emblem. Inside the circle, the word "ENVIROLAB" is written in a bold, sans-serif font, with "ENVIR" on the top line and "OLAB" on the bottom line. Below "ENVIROLAB", the word "GROUP" is written in a smaller, all-caps, sans-serif font.

ENVIROLAB
SERVICES

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:												Standard	
Phone:			02 4902 9200	Mob:											0404371451	
Email results to:	administrator@rca.com.au + enviro@rca.com.au		Lab comments:													
Sample information				# Containers	Tests Required										Comments	
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample		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	E0110 - pH	E01150 - Electrical Conductivity	Sediment within container to be included in analysis if X			
396660-1	GW1	29/08/2025	Water	8	X	X	X	X	X	X	X	X	X	Provide as much information about the sample as you can		
396660-2	GW3	29/08/2025	Water	8	X	X	X	X	X	X	X	X	X			
-3	LP	29/08/2025	Water	4	X	X	X	X	X	X	X	X	X			
-4	WL	29/08/2025	Water	4	X	X	X	X	X	X	X	X	X			
-5	Sed-2	29/08/2025	Water	9	X	X	X	X	X	X	X	X	X	ENVIROLAB GROUP 12 Ashley St, Chatswood NSW Ph: (02) 9910 6200		
-6	BSW2	29/08/2025	Water	9	X	X	X	X	X	X	X	X	X			
-7	Sed-1	29/08/2025	Water	9	X	X	X	X	X	X	X	X	X	Job No: 396660		
-8	BSW3	29/08/2025	Water	9	X	X	X	X	X	X	X	X	X	Date Received: 28/11/25		
	QAN	29/08/2025	Water	4	X	X								Time Received: 1440		
														Received By: <i>KH</i>		
														Temp: Cool/Ambient		
														Cooling: Ice/icepack 10.7°C		
														Security: <input checked="" type="checkbox"/> Taken/Not Taken		
				Total	64	7	2	7	6	4	4	0	7	7	9	
Relinquished by (company):	RCA Australia	Received by (company):	<i>Envirolab</i>										<i>Lab use only:</i>			
Print Name:	<i>Damien</i>	Print Name:	<i>Kylie Harana</i>										Job Number	396660	Cooling:	<input checked="" type="checkbox"/> Ice / Ice Pack / None
Date & Time:	27-11-22	Date & Time:	27/11/25 1:45 pm										Temperature	10.7°C	Security Seal:	<input checked="" type="checkbox"/> Intact / Broken / Not Used
Signature:	<i>D. Bucior</i>	Signature:	<i>Kylie Harana</i>										TAT Req:	SAME DAY / 1 / 2 / 3 / 4 / <input checked="" type="checkbox"/> STD		

SAMPLE RECEIPT ADVICE

Client Details

Client	RCA Australia
Attention	RCA Administrator

Sample Login Details

Your reference	13589a
Envirolab Reference	396660
Date Sample Received	27/11/2025
Date Instructions Received	28/11/2025
Date Results Expected to be Reported	05/12/2025

Sample Condition

Samples received in appropriate condition for analysis	Holding time exceedance
No. of Samples Provided	8 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	10.7
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Please contact the laboratory within 24 hours if you wish to cancel the aformentioned testing. Otherwise testing will proceed as per the COC and hence invoiced accordingly.

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	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
QA1125				✓	✓	✓	✓	✓	✓	✓		

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 396660-A

Client Details

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

Sample Details

Your Reference	<u>13589a</u>
Number of Samples	Additional analysis
Date samples received	27/11/2025
Date completed instructions received	09/12/2025

Analysis Details

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

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

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

Report Details

Date results requested by	16/12/2025
Date of Issue	16/12/2025
NATA Accreditation Number 2901. This document shall not be reproduced except in full.	
Accredited for compliance with ISO/IEC 17025 - Testing. Tests not covered by NATA are denoted with *	

Results Approved By

Dragana Tomas, Senior Chemist

Authorised By

Nancy Zhang, Laboratory Manager

PAHs in Water			
Our Reference	UNITS	396660-A-1	396660-A-2
Your Reference		GW1	GW3
Date Sampled		27/11/2025	27/11/2025
Type of sample		Water	Water
Date extracted	-	10/12/2025	10/12/2025
Date analysed	-	11/12/2025	11/12/2025
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
Benzo(a)pyrene TEQ	µg/L	<0.5	<0.5
Total +ve PAH's	µg/L	<0.1	<0.1
Surrogate <i>p</i> -Terphenyl-d14	%	81	80

Method ID	Methodology Summary
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.

QUALITY CONTROL: PAHs in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W3	[NT]
Date extracted	-			10/12/2025	[NT]	[NT]	[NT]	[NT]	10/12/2025	[NT]
Date analysed	-			11/12/2025	[NT]	[NT]	[NT]	[NT]	11/12/2025	[NT]
Naphthalene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Acenaphthylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Acenaphthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	75	[NT]
Fluorene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Phenanthrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	83	[NT]
Anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Fluoranthene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	97	[NT]
Pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Benzo(a)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Chrysene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	83	[NT]
Benzo(b,j+k)fluoranthene	µg/L	0.2	Org-022/025	<0.2	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(a)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	80	[NT]
Indeno(1,2,3-c,d)pyrene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Dibenzo(a,h)anthracene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Benzo(g,h,i)perylene	µg/L	0.1	Org-022/025	<0.1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate p-Terphenyl-d14	%		Org-022/025	87	[NT]	[NT]	[NT]	[NT]	89	[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.
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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.

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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.

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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.

Anna Bui

From: Greta Petzold
Sent: Tuesday, 9 December 2025 11:43 AM
To: Damien Bucior; Envirolab Sydney Sample Receipt
Subject: RE: Results for Registration 396660 13589a

No worries, Damien

@Envirolab Sydney Sample Receipt A- job please

ES REF: 396660 - A

Kind Regards,

Greta Petzold | Assistant Laboratory Manager | Envirolab Services

Great Science. Great Service.

12 Ashley Street Chatswood NSW 2067
T 612 9910 6200
E GPetzold@envirolab.com.au | W www.envirolab.com.au

MT: STANDARD

DUE: 16/12/25

AS



Related Parties



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⚠ Our business hours will be changing during the festive period. More information.



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Samples will be analysed per our T&C's.

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This e-mail message has been scanned for Viruses

From: Damien Bucior <damienb@rca.com.au>
Sent: Tuesday, 9 December 2025 11:40 AM
To: Greta Petzold <GPetzold@envirolab.com.au>
Subject: RE: Results for Registration 396660 13589a

CAUTION: This email originated from outside of the organisation. Do not act on instructions, click links or open attachments unless you recognise the sender and know the content is authentic and safe.

Hi Greta

Can I please get GW1 (396660-1) and GW3 (396660-2) samples analysed for PAH low level on standard turn around.

Regards



Damien Bucior

l m: 0404 371451

e: damienb@rca.com.au | w: www.rca.com.au

a: PO Box 175 / 92 Hill Street, Carrington NSW 2294



Thank you for your support throughout 2025. We look forward to continuing our work together in 2026 and hope you enjoy the festive season. Please note that we will be operating on modified hours from 22 December 2025 to 4 January 2026. If you have any project requirements during this period, kindly discuss them with your RCA Project Coordinator in advance.

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Any views or opinions presented in this email are solely those of the author and do not necessarily represent those of Robert Carr & Associates Pty. Ltd. If you have any concerns about the delivery of this email, please reply to this email to notify the sender of its incorrect delivery, and then delete both it and your reply.

SAMPLE RECEIPT ADVICE

Client Details

Client	RCA Australia
Attention	Damien Bucior

Sample Login Details

Your reference	13589a
Envirolab Reference	396660-A
Date Sample Received	27/11/2025
Date Instructions Received	09/12/2025
Date Results Expected to be Reported	16/12/2025

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	Additional analysis
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	10.7
Cooling Method	Ice
Sampling Date Provided	YES

Comments

Nil

Please direct any queries to:

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

Analysis Underway, details on the following page:

Sample ID	PAHs in Water	On Hold
GW1	✓	
GW3	✓	
LP		✓
WL		✓
Sed-2		✓
BSW2		✓
Sed-1		✓
QA1125		✓

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 398787

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	23/12/2025
Date completed instructions received	23/12/2025

Analysis Details

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

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

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

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

Report Details

Date results requested by	07/01/2026
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vTRH(C6-C10)/BTEXN in Water						
Our Reference	UNITS	398787-1	398787-2	398787-4	398787-5	398787-6
Your Reference		GW1	GW3	Sed-2	Sed-1	QA12
Date Sampled		22/12/2025	22/12/2025	22/12/2025	22/12/2025	22/12/2025
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	24/12/2025	24/12/2025	24/12/2025	24/12/2025	24/12/2025
Date analysed	-	24/12/2025	24/12/2025	24/12/2025	24/12/2025	24/12/2025
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	%	96	96	101	101	102
Surrogate Toluene-d8	%	98	98	100	99	99
Surrogate 4-Bromofluorobenzene	%	99	102	99	98	98

svTRH (C10-C40) in Water						
Our Reference	UNITS	398787-1	398787-2	398787-4	398787-5	398787-6
Your Reference		GW1	GW3	Sed-2	Sed-1	QA12
Date Sampled		22/12/2025	22/12/2025	22/12/2025	22/12/2025	22/12/2025
Type of sample		Water	Water	Water	Water	Water
Date extracted	-	29/12/2025	29/12/2025	29/12/2025	29/12/2025	29/12/2025
Date analysed	-	29/12/2025	29/12/2025	29/12/2025	29/12/2025	29/12/2025
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	%	114	107	110	109	114

HM in water - dissolved				
Our Reference		398787-4	398787-5	398787-6
Your Reference	UNITS	Sed-2	Sed-1	QA12
Date Sampled		22/12/2025	22/12/2025	22/12/2025
Type of sample		Water	Water	Water
Date prepared	-	30/12/2025	30/12/2025	30/12/2025
Date analysed	-	30/12/2025	30/12/2025	30/12/2025
Aluminium-Dissolved	µg/L	240	140	250
Arsenic-Dissolved	µg/L	8	8	8
Boron-Dissolved	µg/L	40	100	40
Cadmium-Dissolved	µg/L	<0.1	<0.1	<0.1
Chromium-Dissolved	µg/L	2	11	2
Cobalt-Dissolved	µg/L	<1	<1	<1
Copper-Dissolved	µg/L	5	11	4
Lead-Dissolved	µg/L	<1	<1	<1
Nickel-Dissolved	µg/L	<1	3	<1
Selenium-Dissolved	µg/L	<1	2	<1
Zinc-Dissolved	µg/L	5	9	2

Metals in Waters - Acid extractable						
Our Reference		398787-1	398787-2	398787-3	398787-4	398787-5
Your Reference	UNITS	GW1	GW3	LP	Sed-2	Sed-1
Date Sampled		22/12/2025	22/12/2025	22/12/2025	22/12/2025	22/12/2025
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	29/12/2025	29/12/2025	29/12/2025	29/12/2025	29/12/2025
Date analysed	-	30/12/2025	30/12/2025	30/12/2025	30/12/2025	30/12/2025
Phosphorus - Total	mg/L	0.2	0.08	1.8	0.06	0.06

Metals in Waters - Acid extractable		
Our Reference		398787-6
Your Reference	UNITS	QA12
Date Sampled		22/12/2025
Type of sample		Water
Date prepared	-	29/12/2025
Date analysed	-	30/12/2025
Phosphorus - Total	mg/L	0.05

Miscellaneous Inorganics						
Our Reference	UNITS	398787-1	398787-2	398787-3	398787-4	398787-5
Your Reference		GW1	GW3	LP	Sed-2	Sed-1
Date Sampled		22/12/2025	22/12/2025	22/12/2025	22/12/2025	22/12/2025
Type of sample		Water	Water	Water	Water	Water
Date prepared	-	23/12/2025	23/12/2025	23/12/2025	23/12/2025	23/12/2025
Date analysed	-	23/12/2025	23/12/2025	23/12/2025	23/12/2025	23/12/2025
Ammonia as N in water	mg/L	1.8	2.9	0.03	0.03	0.18
Nitrite as N in water	mg/L	<0.005	<0.025	<0.005	0.009	0.089
Nitrate as N in water	mg/L	0.009	0.02	<0.005	0.054	0.091
NOx as N in water	mg/L	0.01	0.02	<0.005	0.062	0.18
TKN in water	mg/L	[NA]	[NA]	9.5	0.5	1.3
Total Nitrogen in water	mg/L	[NA]	[NA]	9.5	0.6	1.5
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	[NA]	[NA]	[NA]	<0.005	0.01

Miscellaneous Inorganics		
Our Reference	UNITS	398787-6
Your Reference		QA12
Date Sampled		22/12/2025
Type of sample		Water
Date prepared	-	23/12/2025
Date analysed	-	23/12/2025
Ammonia as N in water	mg/L	0.03
Nitrite as N in water	mg/L	0.008
Nitrate as N in water	mg/L	0.051
NOx as N in water	mg/L	0.059
TKN in water	mg/L	0.5
Total Nitrogen in water	mg/L	0.5
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	<0.005

Miscellaneous Inorganics					
Our Reference		398787-3	398787-4	398787-5	398787-6
Your Reference	UNITS	LP	Sed-2	Sed-1	QA12
Date Sampled		22/12/2025	22/12/2025	22/12/2025	22/12/2025
Type of sample		Water	Water	Water	Water
Date prepared	-	22/12/2025	22/12/2025	22/12/2025	22/12/2025
Date analysed	-	22/12/2025	22/12/2025	22/12/2025	22/12/2025
Total Suspended Solids	mg/L	16	21	34	26
pH	pH Units	9.1	9.1	8.9	9.0
Electrical Conductivity	µS/cm	3,200	340	850	330

Method ID	Methodology Summary
Ext-073_F	Analysis of pH in Water by AS 4500 H+ B and in-house method ENV-LAB006, Analysed by Envirolab Newcastle - NATA Site No. 18077
Ext-073_G	Analysis of Conductivity in Water by AS 2510 B and in-house method ENV-LAB010, Analysed by Envirolab Newcastle - NATA Site No. 18077
Ext-073_J	Analysis of Total Suspended Solids in Water by AS 2540 D and in-house method ENV-LAB009, 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	<p>Determination of various metals/elements by ICP-AES.</p> <p>Total Phosphate determined stoichiometrically from Phosphorus (assumed to be present as Phosphate).</p> <p>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.</p> <p>Submission of low masses of sample e.g. for dust samples, may result in raised PQLs.</p> <p>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.</p>
Metals-022	<p>Determination of various metals by ICP-MS.</p> <p>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.</p> <p>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.</p>
Org-020	<p>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.</p>
Org-023	<p>Water samples are analysed directly by purge and trap GC-MS.</p>
Org-023	<p>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.</p>
Org-023	<p>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.</p> <p>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.</p>

QUALITY CONTROL: vTRH(C6-C10)/BTEXN in Water							Duplicate		Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W4	[NT]
Date extracted	-			24/12/2025	[NT]	[NT]	[NT]	[NT]	24/12/2025	[NT]
Date analysed	-			24/12/2025	[NT]	[NT]	[NT]	[NT]	24/12/2025	[NT]
TRH C ₆ - C ₉	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	119	[NT]
TRH C ₆ - C ₁₀	µg/L	10	Org-023	<10	[NT]	[NT]	[NT]	[NT]	119	[NT]
Benzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	116	[NT]
Toluene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	119	[NT]
Ethylbenzene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	119	[NT]
m+p-xylene	µg/L	2	Org-023	<2	[NT]	[NT]	[NT]	[NT]	120	[NT]
o-xylene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	120	[NT]
Naphthalene	µg/L	1	Org-023	<1	[NT]	[NT]	[NT]	[NT]	[NT]	[NT]
Surrogate Dibromofluoromethane	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	101	[NT]
Surrogate Toluene-d8	%		Org-023	99	[NT]	[NT]	[NT]	[NT]	100	[NT]
Surrogate 4-Bromofluorobenzene	%		Org-023	98	[NT]	[NT]	[NT]	[NT]	100	[NT]

QUALITY CONTROL: svTRH (C10-C40) in Water					Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W2	[NT]
Date extracted	-			29/12/2025	[NT]	[NT]	[NT]	[NT]	29/12/2025	[NT]
Date analysed	-			29/12/2025	[NT]	[NT]	[NT]	[NT]	29/12/2025	[NT]
TRH C ₁₀ - C ₁₄	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	97	[NT]
TRH C ₁₅ - C ₂₈	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	105	[NT]
TRH C ₂₉ - C ₃₆	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	112	[NT]
TRH >C ₁₀ - C ₁₆	µg/L	50	Org-020	<50	[NT]	[NT]	[NT]	[NT]	97	[NT]
TRH >C ₁₆ - C ₃₄	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	105	[NT]
TRH >C ₃₄ - C ₄₀	µg/L	100	Org-020	<100	[NT]	[NT]	[NT]	[NT]	112	[NT]
Surrogate o-Terphenyl	%		Org-020	113	[NT]	[NT]	[NT]	[NT]	110	[NT]

QUALITY CONTROL: HM in water - dissolved							Duplicate		Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			30/12/2025	[NT]	[NT]	[NT]	[NT]	30/12/2025	[NT]
Date analysed	-			30/12/2025	[NT]	[NT]	[NT]	[NT]	30/12/2025	[NT]
Aluminium-Dissolved	µg/L	10	Metals-022	<10	[NT]	[NT]	[NT]	[NT]	110	[NT]
Arsenic-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	100	[NT]
Boron-Dissolved	µg/L	20	Metals-022	<20	[NT]	[NT]	[NT]	[NT]	92	[NT]
Cadmium-Dissolved	µg/L	0.1	Metals-022	<0.1	[NT]	[NT]	[NT]	[NT]	96	[NT]
Chromium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	92	[NT]
Cobalt-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	94	[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]	96	[NT]
Nickel-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	93	[NT]
Selenium-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	99	[NT]
Zinc-Dissolved	µg/L	1	Metals-022	<1	[NT]	[NT]	[NT]	[NT]	95	[NT]

QUALITY CONTROL: Metals in Waters - Acid extractable							Duplicate		Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	398787-2	
Date prepared	-			29/12/2025	1	29/12/2025	29/12/2025		29/12/2025	29/12/2025	
Date analysed	-			30/12/2025	1	30/12/2025	30/12/2025		30/12/2025	30/12/2025	
Phosphorus - Total	mg/L	0.05	Metals-020	<0.05	1	0.2	0.2	0	101	113	

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %		
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	398787-2	
Date prepared	-			23/12/2025	1	23/12/2025	23/12/2025		23/12/2025	23/12/2025	
Date analysed	-			23/12/2025	1	23/12/2025	23/12/2025		23/12/2025	23/12/2025	
Ammonia as N in water	mg/L	0.005	Inorg-057	<0.005	1	1.8	1.8	0	100	#	
Nitrite as N in water	mg/L	0.005	Inorg-055	<0.005	1	<0.005	<0.005	0	95	105	
Nitrate as N in water	mg/L	0.005	Inorg-055	<0.005	1	0.009	0.009	0	100	84	
NOx as N in water	mg/L	0.005	Inorg-055	<0.005	1	0.01	0.01	0	100	84	
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]	116	[NT]	
Hexavalent Chromium, Cr ⁶⁺ (dissolved)	mg/L	0.005	Inorg-118	<0.005	[NT]	[NT]	[NT]	[NT]	96	[NT]	

QUALITY CONTROL: Miscellaneous Inorganics						Duplicate			Spike Recovery %	
Test Description	Units	PQL	Method	Blank	#	Base	Dup.	RPD	LCS-W1	[NT]
Date prepared	-			22/12/2025	6	22/12/2025	22/12/2025		22/12/2025	[NT]
Date analysed	-			22/12/2025	6	22/12/2025	22/12/2025		22/12/2025	[NT]
Total Suspended Solids	mg/L	5	Ext-073_J	<5	6	26	24	8	105	[NT]
pH	pH Units		Ext-073_F	[NT]	6	9.0	[NT]		101	[NT]
Electrical Conductivity	µS/cm	1	Ext-073_G	[NT]	6	330	[NT]		98	[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.

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

vTRH & BTEXN in Water NEPM - No vials were supplied for analysis of samples 1 and 2. Subsampled from amber bottles provided.

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			Envirolab Quote No. :			BM8
Address:	92 Hill St Carrington, NSW 2294			Date results required:			<i>by 07 Jan</i>
Phone:	02 4902 9200	Mob:	0410 230 644				
Email results to:	administrator@rca.com.au + enviro@rca.com.au						
Email invoice to:				Lab comments:			

Sample Information				# Containers	Tests Required			Comments						
Envirolab Sample ID	Client Sample ID	Date sampled	Type of sample	# Containers	E01550 - 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 (Aluminum, Arsenic, Boron, Cadmium, Chromium, Cobalt, Copper, Lead, Nickel, Selenium, Zinc)	E05360 - Hexavalent Chromium	E01640 - 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	22/12/2025	Water	4		x							x	
2	GW3	22/12/2025	Water	4		x							x	
3	LP	22/12/2025	Water	4	x		x					x	x	x
4	GW1	22/12/2025	Water	4	x		x		x	x	x	x	x	Envirolab Services 12 Ashley St Chatswood NSW 2067 Ph. (02) 9910 6200
4	Sed-2	22/12/2025	Water	9	x		x	x	x	x	x	x	x	Job No: 398787
5	BSW2	22/12/2025	Water	9	x		x	x	x	x	x	x	x	Date Received: 23/12/25
5	Sed-1	22/12/2025	Water	9	x		x	x	x	x	x	x	x	Date Received: 23/12/25
6	BSW1	22/12/2025	Water	9	x		x	x	x	x	x	x	x	Date Received: 23/12/25
6	QA	22/12/2025	Water	4	x		x	x	x	x	x	x	x	Date Received: 23/12/25
Total:				56	2	7	4	4	4	7	7	2		

Relinquished by (company):	RCA Australia	Received by (company):	Envirolab			Lab use only:			
Print Name:	09m167	Print Name:	Yongkyi			Job Number	398787	Cooling:	Ice Pack / None
Date & Time:	22-12-25	Date & Time:	22.12.25 14:20			Temperature	25.6	Security Seal:	Intact / Broken / Not Used
Signature:	Y. Bello	Signature:	Y.S			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	398787
Date Sample Received	23/12/2025
Date Instructions Received	23/12/2025
Date Results Expected to be Reported	07/01/2026

Sample Condition

Samples received in appropriate condition for analysis	Yes
No. of Samples Provided	6 Water
Turnaround Time Requested	Standard
Temperature on Receipt (°C)	25.6
Cooling Method	None
Sampling Date Provided	YES

Comments

received at ELS Newcastle 22/12/25

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				✓	✓	✓	✓	✓	✓	✓		✓
Sed-2	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
Sed-1	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓
QA12	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓	✓

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.