Sample Identification		Aquatic Ecosystem Guideline ^A	SW1	SW2		
Rainfall (mm) in preceding 24hours ^B	PQL	-	20	0.4		
Time of Sample Collection		95% Fresh	14:00	14:00		
Date of Sample Collection			1/08/2025			
	Sam	Dark brown, low clarity, strong Dirty brown, semi clear muddy odour no odour				
Laborat	ory Re	port Reference	ES2523567 ES2523567			
	S	ample Purpose	EPL Compliance			
	Sam	ple collected by	Toll - JC			
Ammonia as N	0.01	0.9	4.39	46.9		
Nitrate ^C	0.01	0.04	29.6	117		
Oil and Grease	5		28 13			
Total Suspended Solds	5		2960 315			

Blank Cell indicates no criterion available

PQL = Practical Quantitation Limit.

^A % Protection Level for Receiving Water Type.

^B Based on BOM Williamtown data from 9a.m. to 2p.m. 1st August 2025; there was 27.2mm from 9a.m. 31st July to 9a.m. 1st August.

^C Guidelines for Lowland (Coastal) Rivers in NSW

Sample Identification		Aquatic Ecosystem Guideline ^A	SW1	SW2		
Rainfall (mm) in preceding 24hours ^B	PQL		4.6	5.6		
Time of Sample Collection		95% Fresh	9:30	8:00		
Date of Sample Collection			4/08/2025			
	Sam	Dirty brown, little to no odour, low clarity, small amount of sediment Sediment Dirty brown, little to no od low clarity, small amoun				
Labora		eport Reference	EN2512927 EN2512927			
		Sample Purpose	EPL Compliance			
	Sam	ple collected by	Toll - JC			
Ammonia as N	0.01	0.9	46.5	83.5		
Nitrate ^C	0.01	0.04	86	117		
Oil and Grease	5		16	14		
Total Suspended Solds	5		354 876			

Blank Cell indicates no criterion available

PQL = Practical Quantitation Limit.

^A % Protection Level for Receiving Water Type.

^B Based on BOM Williamtown data from 9.30a.m. and 8.00a.m 3rd August 2025 to 9.30a.m. and 8.00a.m 4th August 2025 respectively.

^C Guidelines for Lowland (Coastal) Rivers in NSW

Sample Identification	Aquatic Ecosystem Guideline ^A		SW1	SW2		
Rainfall (mm) in preceding 24hours ^B	PQL		12.4	12.4		
Time of Sample Collection		95% Fresh	9:00	9:00		
Date of Sample Collection			7/08/2025			
	Sam	Low clarity, dirty brown, little Low clarity, dirty brown oily odour oily odour				
Laborat	ory Re	port Reference	ES2524108 ES2524108			
	S	ample Purpose	EPL Compliance			
	Sam	ple collected by	Toll - JC			
Ammonia as N	0.01	0.9	0.31	33.9		
Nitrate ^C	0.01	0.04	20 92.3			
Oil and Grease	5		10	22		
Total Suspended Solds	5		418 2110			

Blank Cell indicates no criterion available

PQL = Practical Quantitation Limit.

^A % Protection Level for Receiving Water Type.

^B Based on BOM Williamtown data from 9am 6th August to 9am 7th August 2025.

 $^{^{\}rm C}$ Guidelines for Lowland (Coastal) Rivers in NSW

Sample Identification		Aquatic Ecosystem Guideline ^A	SW1	SW2		
Rainfall (mm) in preceding 24hours ^B	PQL		1.2	1.2		
Time of Sample Collection		95% Fresh	13:30	13:30		
Date of Sample Collection			11/08/2025			
	Sam	Dirty brown, low clarity, little to no odour, small amount of sediment sediment Dirty brown, low clarity, low odour, small amount of sediment				
Labora	tory Re	eport Reference	EN2513495 EN2513495			
	S	Sample Purpose	EPL Compliance			
	Sam	ple collected by	Toll	- JC		
Ammonia as N	0.01	0.9	3.45	16.8		
Nitrate ^C	0.01	0.04	35	71.3		
Oil and Grease	5		17	12		
Total Suspended Solds	5		1320 397			

Blank Cell indicates no criterion available

PQL = Practical Quantitation Limit.

^A % Protection Level for Receiving Water Type.

^B Based on BOM Williamtown data from 1:30pm 10th August to 1:30pm 11th August 2025.

^C Guidelines for Lowland (Coastal) Rivers in NSW

Sample Identification		Aquatic Ecosystem Guideline ^A	SW1	SW2		
Rainfall (mm) in preceding 24hours ^B	PQL		16.6	16.6		
Time of Sample Collection		95% Fresh	11:00	11:00		
Date of Sample Collection			19/08	8/2025		
	Sam	High clarity, no odour	High clarity, no odour			
Laborat	ory Re	port Reference	EN2514009	EN2514009		
	S	ample Purpose	EPL Compliance			
	Sam	ple collected by	Toll - JC			
Ammonia as N	0.01	0.9	10.5	15.1		
Nitrate ^C	0.01	0.04	78	97.1		
Oil and Grease	5		<5	<5		
Total Suspended Solds	5		48	40		

Blank Cell indicates no criterion available

PQL = Practical Quantitation Limit.

^A % Protection Level for Receiving Water Type.

^B Based on BOM Williamtown data from 11:00am 18th August to 11:00am 19th August 2025.

^C Guidelines for Lowland (Coastal) Rivers in NSW

Sample Identification		Aquatic Ecosystem Guideline ^A	SW1	SW2		
Rainfall (mm) in preceding 24hours ^B	PQL		18.2	18.2		
Time of Sample Collection		95% Fresh	10:00	10:00		
Date of Sample Collection			21/08/2025			
	Sam	High clarity, little to no odour, light brown, small amount of sediment sediment High clarity, little to no of light brown, small amount of sediment				
Laborat		port Reference	EN2514220 EN2514220			
		ample Purpose	EPL Compliance			
	Sam	ple collected by	Toll - JC			
Ammonia as N	0.01	0.9	5.7	12.1		
Nitrate ^C	0.01	0.04	31	84.3		
Oil and Grease	5		26	13		
Total Suspended Solds	5		911 134			

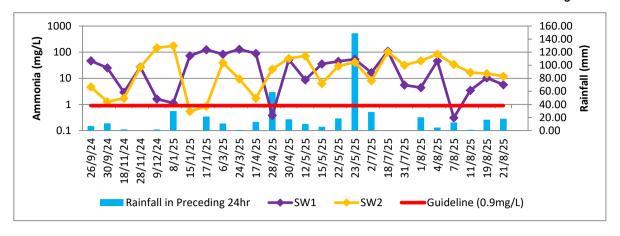
Blank Cell indicates no criterion available

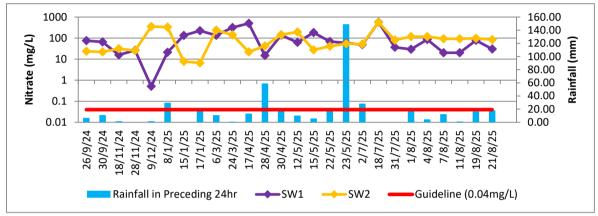
PQL = Practical Quantitation Limit.

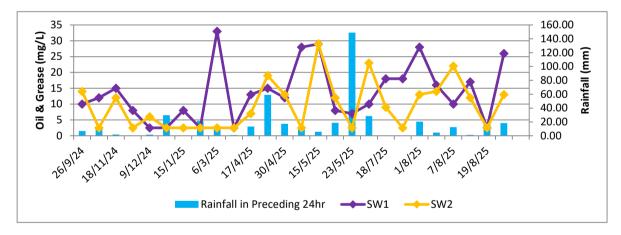
^A % Protection Level for Receiving Water Type.

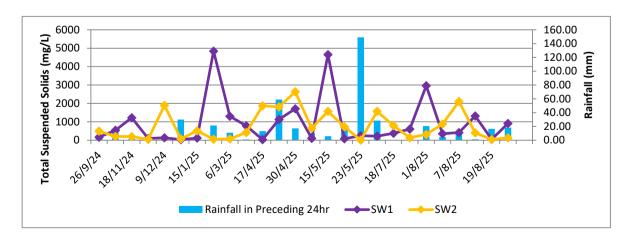
 $^{^{\}rm B}$ Based on BOM Williamtown data from 10:00am 20th August to 10:00am 21st August 2025.

^C Guidelines for Lowland (Coastal) Rivers in NSW











CERTIFICATE OF ANALYSIS

Work Order : ES2523567

Client : ROBERT CARR & ASSOCIATES P/L

Contact : MS FIONA BROOKER

Address : PO BOX 175

CARRINGTON NSW, AUSTRALIA 2294

Telephone : +61 02 4902 9200

 Project
 : 12513e

 Order number
 : ---

 C-O-C number
 : ---

C-O-C number : ---Sampler : Client

Site : ----

Quote number : NSW Custom BQ 2024

No. of samples received : 2
No. of samples analysed : 2

Page : 1 of 2

Laboratory : Environmental Division Sydney

Contact : Danae Hambly

Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

Telephone : +61-2-8784 8555

Date Samples Received : 01-Aug-2025 14:48

Date Analysis Commenced : 01-Aug-2025

Issue Date : 07-Aug-2025 16:28





Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories Position Accreditation Category

Ankit Joshi Senior Chemist - Inorganics Sydney Inorganics, Smithfield, NSW

Page : 2 of 2 Work Order : ES2523567

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key: CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

- ^ = This result is computed from individual analyte detections at or above the level of reporting
- ø = ALS is not NATA accredited for these tests.
- ~ = Indicates an estimated value.

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)		Sample ID		SW1	SW1 SW2			
		Sampli	ing date / time	01-Aug-2025 14:00	01-Aug-2025 14:00			
Compound	CAS Number	LOR	Unit	ES2523567-001	ES2523567-002			
				Result	Result			
EA025: Total Suspended Solids dried	at 104 ± 2°C							
Suspended Solids (SS)		5	mg/L	2960	315			
EK055G: Ammonia as N by Discrete A	Analyser							
Ammonia as N	7664-41-7	0.01	mg/L	4.39	46.9			
EK057G: Nitrite as N by Discrete Ana	lyser							
Nitrite as N	14797-65-0	0.01	mg/L	0.36	1.24			
EK058G: Nitrate as N by Discrete Ana	alyser							
Nitrate as N	14797-55-8	0.01	mg/L	29.6	117			
EK059G: Nitrite plus Nitrate as N (NO	x) by Discrete Ana	lyser						
Nitrite + Nitrate as N		0.01	mg/L	30.0	118			
EP020: Oil and Grease (O&G)		3						
Oil & Grease		5	mg/L	28	13			





QUALITY CONTROL REPORT

: 1 of 3

Accreditation No. 825

Accredited for compliance with ISO/IEC 17025 - Testing

Work Order : ES2523567 Page

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Sydney

Contact : MS FIONA BROOKER Contact : Danae Hambly

Address : PO BOX 175 Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

Telephone : +61 02 4902 9200 Telephone : +61-2-8784 8555

Project: 12513eDate Samples Received: 01-Aug-2025Order number: ----Date Analysis Commenced: 01-Aug-2025

C-O-C number : ---- Issue Date : 07-Aug-2025
Sampler : Client

Site : ---

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

: 2

: 2

Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits

CARRINGTON NSW. AUSTRALIA 2294

- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

: NSW Custom BQ 2024

Signatories

Quote number

No. of samples received

No. of samples analysed

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories Position Accreditation Category

Ankit Joshi Senior Chemist - Inorganics Sydney Inorganics, Smithfield, NSW

Page : 2 of 3 Work Order : ES2523567

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key: Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot

CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

RPD = Relative Percentage Difference

= Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: WATER	ıb-Matrix: WATER					Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)			
EA025: Total Suspen	A025: Total Suspended Solids dried at 104 ± 2°C (QC Lot: 6767851)											
EN2513023-014	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	24	22	9.7	No Limit			
ES2523563-001	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	<5	<5	0.0	No Limit			
ES2523580-003	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	6	5	17.4	No Limit			
ES2523597-009	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	28500	31100	8.5	0% - 20%			
EK055G: Ammonia a	s N by Discrete Analyser (C	(C Lot: 6761371)										
ES2523567-001	SW1	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	4.39	4.27	2.7	0% - 20%			
ES2523407-001	Anonymous	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	0.84	0.80	5.2	0% - 20%			
EK057G: Nitrite as N	by Discrete Analyser (QC I	Lot: 6761210)										
ES2523562-004	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit			
ES2523563-003	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.02	0.02	0.0	No Limit			
EK059G: Nitrite plus	EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QC Lot: 6761372)											
ES2523407-001	Anonymous	EK059G: Nitrite + Nitrate as N		0.01	mg/L	0.06	0.05	26.4	No Limit			

Page : 3 of 3 Work Order : ES2523567

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e



Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: WATER	ıb-Matrix: WATER			Method Blank (MB)	Laboratory Control Spike (LCS) Report				
				Report	Spike	Spike Recovery (%)	Acceptable	Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High	
EA025: Total Suspended Solids dried at 104 ± 2°C (QCLot: 6	767851)								
EA025H: Suspended Solids (SS)		5	mg/L	<5	150 mg/L	98.0	83.0	129	
				<5	1000 mg/L	93.3	82.0	110	
				<5	816 mg/L	109	83.0	118	
EK055G: Ammonia as N by Discrete Analyser (QCLot: 67613	371)								
EK055G: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	96.4	90.0	114	
EK057G: Nitrite as N by Discrete Analyser (QCLot: 6761210)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	102	82.0	114	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyse	er (QCLot: 6	761372)							
EK059G: Nitrite + Nitrate as N		0.01	mg/L	<0.01	0.5 mg/L	102	91.0	113	
EP020: Oil and Grease (O&G) (QCLot: 6766950)									
EP020: Oil & Grease		5	mg/L	<5	5000 mg/L	90.6	81.0	121	
				<5	4000 mg/L	83.6	70.0	110	

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: WATER		L	Matrix Spike (MS) Report						
				Spike	SpikeRecovery(%)	Acceptable i	Limits (%)		
Laboratory sample ID	Sample ID	Method: Compound C	CAS Number	Concentration	MS	Low	High		
EK055G: Ammonia	EK055G: Ammonia as N by Discrete Analyser (QCLot: 6761371)								
ES2523407-001	Anonymous	EK055G: Ammonia as N 7	7664-41-7	0.5 mg/L	88.4	70.0	130		
EK057G: Nitrite as	N by Discrete Analyser (QCLot: 6761210)								
ES2523562-004	Anonymous	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	92.4	70.0	130		
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 6761372)									
ES2523407-001	Anonymous	EK059G: Nitrite + Nitrate as N		0.5 mg/L	107	70.0	130		



QA/QC Compliance Assessment to assist with Quality Review

Work Order : **ES2523567** Page : 1 of 4

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Sydney

 Contact
 : MS FIONA BROOKER
 Telephone
 : +61-2-8784 8555

 Project
 : 12513e
 Date Samples Received
 : 01-Aug-2025

 Site
 : --- Issue Date
 : 07-Aug-2025

Sampler : Client No. of samples received : 2
Order number : ---- No. of samples analysed : 2

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers: Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- NO Method Blank value outliers occur.
- NO Duplicate outliers occur.
- NO Laboratory Control outliers occur.
- NO Matrix Spike outliers occur.
- For all regular sample matrices, where applicable to the methodology, NO surrogate recovery outliers occur.

Outliers: Analysis Holding Time Compliance

NO Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

• NO Quality Control Sample Frequency Outliers exist.

Page : 2 of 4 Work Order : ES2523567

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e



Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for <u>VOC in soils</u> vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: WATER

Evaluation: **x** = Holding time breach; ✓ = Within holding time.

Matrix: WATER						Evaluation	. 🔻 = Holding time	breach; ▼ = within	it notating time
Method		Sa	ample Date	Ex	traction / Preparation			Analysis	
Container / Client Sample ID(s)				Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA025: Total Suspended Solids dried at 104 ± 2°C									
Clear Plastic Bottle - Natural (EA025H) SW1,	SW2	01	-Aug-2025				06-Aug-2025	08-Aug-2025	✓
EK055G: Ammonia as N by Discrete Analyser									
Clear Plastic Bottle - Sulfuric Acid (EK055G) SW1,	SW2	01-	-Aug-2025				04-Aug-2025	29-Aug-2025	✓
EK057G: Nitrite as N by Discrete Analyser									
Clear Plastic Bottle - Natural (EK057G) SW1,	SW2	01	-Aug-2025				02-Aug-2025	03-Aug-2025	✓
EK059G: Nitrite plus Nitrate as N (NOx) by Discre	ete Analyser								
Clear Plastic Bottle - Sulfuric Acid (EK059G) SW2		01	-Aug-2025				02-Aug-2025	29-Aug-2025	✓
Clear Plastic Bottle - Sulfuric Acid (EK059G) SW1		01	-Aug-2025				04-Aug-2025	29-Aug-2025	✓
EP020: Oil and Grease (O&G)									
Amber Jar - Sulfuric Acid or Sodium Bisulfate (EPC SW1,	020) SW2	01	-Aug-2025				06-Aug-2025	29-Aug-2025	√

Page : 3 of 4 Work Order ES2523567

Client ROBERT CARR & ASSOCIATES P/L

Project : 12513e



Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: WATER	Evaluation: x = Quality Control frequency not within specification; ✓ = Quality Control frequency within specification.						
Quality Control Sample Type		Co	ount		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Ammonia as N by Discrete analyser	EK055G	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	6	16.67	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	2	18	11.11	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Suspended Solids (High Level)	EA025H	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Ammonia as N by Discrete analyser	EK055G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Oil and Grease	EP020	4	50	8.00	8.00	✓	NEPM 2013 B3 & ALS QC Standard
Suspended Solids (High Level)	EA025H	5	40	12.50	12.50	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Ammonia as N by Discrete analyser	EK055G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Oil and Grease	EP020	3	50	6.00	6.00	✓	NEPM 2013 B3 & ALS QC Standard
Suspended Solids (High Level)	EA025H	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Ammonia as N by Discrete analyser	EK055G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	6	16.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard

Page : 4 of 4 Work Order : ES2523567

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Suspended Solids (High Level)	EA025H	WATER	In house: Referenced to APHA 2540D. A gravimetric procedure employed to determine the amount of
			`non-filterable` residue in a aqueous sample. The prescribed GFC (1.2um) filter is rinsed with deionised water,
			oven dried and weighed prior to analysis. A well-mixed sample is filtered through a glass fibre filter (1.2um).
			The residue on the filter paper is dried at 104+/-2C . This method is compliant with NEPM Schedule B(3)
Ammonia as N by Discrete analyser	EK055G	WATER	In house: Referenced to APHA 4500-NH3 G Ammonia is determined by direct colorimetry by Discrete Analyser.
			This method is compliant with NEPM Schedule B(3)
Nitrite as N by Discrete Analyser	EK057G	WATER	In house: Referenced to APHA 4500-NO2- B. Nitrite is determined by direct colourimetry by Discrete Analyser.
			This method is compliant with NEPM Schedule B(3)
Nitrate as N by Discrete Analyser	EK058G	WATER	In house: Referenced to APHA 4500-NO3- F. Nitrate is reduced to nitrite by way of a chemical reduction followed
			by quantification by Discrete Analyser. Nitrite is determined seperately by direct colourimetry and result for Nitrate
			calculated as the difference between the two results. This method is compliant with NEPM Schedule B(3)
Nitrite and Nitrate as N (NOx) by Discrete	EK059G	WATER	In house: Referenced to APHA 4500-NO3- F. Combined oxidised Nitrogen (NO2+NO3) is determined by
Analyser			Chemical Reduction and direct colourimetry by Discrete Analyser. This method is compliant with NEPM
			Schedule B(3)
Oil and Grease	EP020	WATER	In house: Referenced to APHA 5520 B. Oil & grease is a gravimetric procedure to determine the amount of
			dissolved or emulsified oil & grease residue in an aqueous sample. The sample is serially extracted three times
			n-hexane. The resultant extracts are combined, dehydrated and concentrated prior to gravimetric determination.
			This method is compliant with NEPM Schedule B(3)



client DIO

FOR LABORATORY USE ONLY (Circle)

Free ice / frozen ice bricks present upon

Custody Seal Intact?

receipt?

Environmenta

RCA Australia

12513e

92 Hill Street, Carrington

CLIENT:

OFFICE:

RCA Ref No:

CHAIN OF CUSTODY

ALS Laboratory:

DADELAIDE 21 Burma Road Pooraka SA 5095
Ph: 08 3859 0980 E: Adelaide@alsglobal.com
DBRISBANK 52 Shand Street Safford QLD 4053
Ph: 07 3243 7222 E: samples. brisbane@alsglobal.com
DGLADSTONE 46 Callemondah Drive Clinton QLD 4650
Ph: 07 7471 5000 E: gladstone@alsglobal.com

Trace Organics)

ALS QUOTE NO :

TURNAROUND REQUIREMENTS :

(Standard TAT may be longer for some tests e.g., Ultra

UMACKAY 78 Harbour Road Mackay QLD 4740 Ph: 07 4944 0177 E: mackay@aleglobal.com UMELBOURNE 2-4 Westall Road Springyale VIC 3171 Ph: 03 6549 9600 E: samples. melbourne@aleglobal.com UMUDGEE 27 Sydney Road Mudgee NSW 2850 Ph: 02 6327 6735 E: muddee mal@aleslobal.com

☐ Standard TAT (List due date):

NSW Custom BO

□NEWCASTLE 5/585 Mailland Rd Mayfield West NSW 2304 Ph: 02 4014 2500 E: samples.newcastle@alsglobal.com □NOWRA 4/13 Geary Place North Nowra NSW 2541 Ph: 024423 2053 E: nowra@alsglobal.com

□PERTH 10 Hod Way Malaga WA 6090
Ph: 08 9209 7655 E: samples,perth@alsglobal,com

COC SEQUENCE NUMBER (Circle)

DSYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph; 02 8784 8555 E; samples.sydney@alsglobal.com

DTOWNSVILLE 14-15 Desma Court Bohle QLD 4818 Ph: 07 4795 0500 E: townsville.environmental@alsglobal.com

DWOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph; 02 4225 3125 E; portkembla@alsolobal.com

							COC: 1	1		Ran	ndom Sample Temperature	on Receipt: / 3°C
PROJECT MANAGER: F	iona Brooker		PH: 0408 687 5				OF: 1	1		Oth	er comment:	13.7
SAMPLER: Client		SAMPLER	MOBILE: - (475722538 RELINQUIS	SHED BY: Jar	nes	RECEIVE	ED BY:5	4	RELINQU	JISHED BY:	RECEIVED BY:
COC emailed to ALS? (I		EDD FORM	AT (or default)	Carrie	naham	., = 3		3/	1	(01	35/9	559549
Email Reports to: admin	istrator@rca.com.au + env	iro@rca.com.augoston	eane for	.forget@follgroup.com				ME:		DATE/TIN	ME: (/OC	DATE/TIME:
Email Invoice to: as abo	ove	3	,	18.25	2pm	2	8	1/8/2	25 2	:48 (20/108	01/2/05/19
COMMENTS/SPECIAL H	ANDL NG/STORAGE OR	DISPOSAL:									1-0	19/10/15/19
KANADA NA NA NA												
ALS USE		MPLE DETAILS SOLID (S) WATER (W)		CONTAINER INFORMATION		ANALYSI: Where Meta	S REQUIRED i	including SU d, specify Tota	ITES (NB. Suite I (unfiltered bo required).	e Codes must be list ttle required) or Diss	ed to attract suite price) solved (field filtered bottle	Additional Information
LAB ID	Sample ID	Date / Time	Matrix	Type & Preservative (refer to codes below)	Total Containers	EK055G - Ammonia	EK058G - Nitrate	EA025H - Total Suspended Solids	EP020 - Oil and Grease			Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
6	SW1	1.8.25	w	Purple Glass, Purple Plastic, Green Plastic	3	x	x	х	х			
2	SW2	2pm	W	Purple Glass, Purple Plastic, Green Plastic	3	х	x	х	х			
				LAB OF ORIGIN: NEWCASTLE							Sydne Wor	onmental Division by k Order Reference S2523567
					6	2	2	2	2			
				C; SH = Sodium Hydroxide/Cd Preserved; S = Sodium H AV = Airfreight Unpreserved Vial SG = Sulfuric Preserve d Sulphate Solls; B = Unpreserved Bag.	lydroxide Preserved F d Amber Glass; H =	Plastic; AG = Aml HCI preserved I	ber Glass Unpr Plastic; HS = H	reserved; AP - HCI preserved	Airfreight Unpi Speciation bot	reserved Plastic tle; SP = Sulfuric Pre	eserved Plastic; F = Forma	Idehyde Preserved Glass;



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : ES2523567

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Sydney

Contact : MS FIONA BROOKER Contact : Danae Hambly

Address : PO BOX 175 Address : 277-289 Woodpark Road Smithfield

NSW Australia 2164

 Telephone
 : +61 02 4902 9200
 Telephone
 : +61-2-8784 8555

 Facsimile
 : +61 02 4902 9299
 Facsimile
 : +61-2-8784 8500

Project : 12513e Page : 1 of 3

CARRINGTON NSW, AUSTRALIA 2294

Order number : ---- Quote number : EN2023ROBCAR0002 (NSW Custom

BQ 2024)

C-O-C number : ---- QC Level : NEPM 2013 B3 & ALS QC Standard

Site : ----Sampler : Client

Dates

Date

Delivery Details

 Mode of Delivery
 : Undefined
 Security Seal
 : Not Available

 No. of coolers/boxes
 : --- Temperature
 : 15.3°C

 Receipt Detail
 : No. of samples received / analysed
 : 2 / 2

General Comments

• This report contains the following information:

- Sample Container(s)/Preservation Non-Compliances
- Summary of Sample(s) and Requested Analysis
- Proactive Holding Time Report
- Requested Deliverables
- Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Unless otherwise stated, analytical work for this work order will be conducted at ALS Sydney, NATA accreditation no. 825, site no. 10911.
- Sample Disposal Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

Issue Date : 01-Aug-2025

Page

2 of 3 ES2523567 Amendment 0 Work Order

Client : ROBERT CARR & ASSOCIATES P/L



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

• No sample container / preservation non-compliance exists.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package. If no sampling time is provided, the sampling time will mmonia as N By Discrete Analyser Suspended Solids - Standard Level default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component WATER - EP020 Oil & Grease (O&G) /ATER - EK055G /ATER - EK058G VATER - EA025H Matrix: WATER Laboratory sample Sampling date / Sample ID time ES2523567-001 01-Aug-2025 14:00 ES2523567-002 01-Aug-2025 14:00

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Issue Date : 01-Aug-2025

Page

: 3 of 3 : ES2523567 Amendment 0 Work Order

Client : ROBERT CARR & ASSOCIATES P/L



Requested Deliverables

ΔD	N/III	INI	ופו	ГΟ	Α-	$\Gamma \cap$	D

Email	administrator@rca.com.au
Email	administrator@rca.com.au
	Email Email Email Email Email Email

Email

administrator@rca.com.au

ALL INVOICES

- A4 - AU Tax Invoice (INV)

ENVIRO

FIONA BROOKER

- *AU Certificate of Analysis - NATA (COA)	Email	fionab@rca.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	fionab@rca.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	fionab@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	fionab@rca.com.au
- Chain of Custody (CoC) (COC)	Email	fionab@rca.com.au
- EDI Format - ENMRG (ENMRG)	Email	fionab@rca.com.au
- EDI Format - ESDAT (ESDAT)	Email	fionab@rca.com.au

Gastonjeane Forget

Sastonjeane Forget		
- *AU Certificate of Analysis - NATA (COA)	Email	Gastonjeane.Forget@tollgroup.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	Gastonjeane.Forget@tollgroup.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	Gastonjeane.Forget@tollgroup.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	Gastonjeane.Forget@tollgroup.com
- A4 - AU Tax Invoice (INV)	Email	Gastonjeane.Forget@tollgroup.com
- Chain of Custody (CoC) (COC)	Email	Gastonjeane.Forget@tollgroup.com
- EDI Format - ENMRG (ENMRG)	Email	Gastonjeane.Forget@tollgroup.com
- EDI Format - ESDAT (ESDAT)	Email	Gastonjeane.Forget@tollgroup.com



CERTIFICATE OF ANALYSIS

Work Order : **EN2512927**

Client : ROBERT CARR & ASSOCIATES P/L

Contact : MS FIONA BROOKER

Address : 92 HILL STREET

CARRINGTON NSW 2294

Telephone : +61 02 4902 9200

 Project
 : 12513e

 Order number
 : ---

 C-O-C number
 : ---

 Sampler
 : Client

Site

Quote number : NSW Custom BQ 2024

No. of samples received : 2
No. of samples analysed : 2

Page : 1 of 3

Laboratory : Environmental Division Newcastle

Contact : Danae Hambly

Address : 5/585 Maitland Road Mayfield West NSW Australia 2304

Telephone : +61 2 4014 2500

Date Samples Received : 04-Aug-2025 10:40

Date Analysis Commenced : 06-Aug-2025

Issue Date : 11-Aug-2025 10:46





Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories Position Accreditation Category

Ankit Joshi Senior Chemist - Inorganics Sydney Inorganics, Smithfield, NSW

Page : 2 of 3 Work Order : EN2512927

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key: CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

- ^ = This result is computed from individual analyte detections at or above the level of reporting
- ø = ALS is not NATA accredited for these tests.
- ~ = Indicates an estimated value.

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	SW1	SW2	 	
		Sampli	ng date / time	04-Aug-2025 09:00	04-Aug-2025 08:00	 	
Compound	CAS Number	LOR	Unit	EN2512927-001	EN2512927-002	 	
				Result	Result	 	
EA025: Total Suspended Solids drie	d at 104 ± 2°C						
Suspended Solids (SS)		5	mg/L	354	876	 	
EK055G: Ammonia as N by Discrete	Analyser						
Ammonia as N	7664-41-7	0.01	mg/L	46.5	83.5	 	
EK057G: Nitrite as N by Discrete An	alyser						
Nitrite as N	14797-65-0	0.01	mg/L	1.29	1.22	 	
EK058G: Nitrate as N by Discrete A	nalyser						
Nitrate as N	14797-55-8	0.01	mg/L	85.6	117	 	
EK059G: Nitrite plus Nitrate as N (N	Ox) by Discrete Ana	lyser					
Nitrite + Nitrate as N		0.01	mg/L	86.9	118	 	
EP020: Oil and Grease (O&G)							
Oil & Grease		5	mg/L	16	14	 	



Page : 3 of 3 Work Order : EN2512927

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

Inter-Laboratory Testing

Analysis conducted by ALS Sydney, NATA accreditation no. 825, site no. 10911 (Chemistry / Biology).

(WATER) EK055G: Ammonia as N by Discrete Analyser (WATER) EA025: Total Suspended Solids dried at 104 \pm 2°C (WATER) EK058G: Nitrate as N by Discrete Analyser

(WATER) EK057G: Nitrite as N by Discrete Analyser

(WATER) EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser

(WATER) EP020: Oil and Grease (O&G)





Telephone

Site
Quote number

QUALITY CONTROL REPORT

Work Order : **EN2512927** Page : 1 of 3

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Newcastle

Contact : MS FIONA BROOKER Contact : Danae Hambly

Address : 92 HILL STREET Address : 5/585 Maitland Road Mayfield West NSW Australia 2304

CARRINGTON NSW 2294 : +61 02 4902 9200 Telephone : +61 2 4014 2500

Project : 12513e Date Samples Received : 04-Aug-2025
Order number : ---- Date Analysis Commenced : 06-Aug-2025

C-O-C number : ---- Issue Date : 11-Aug-2025

Sampler ; Client

No. of samples analysed : 2

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall

Accreditation No. 825

Accredited for compliance with

not be reproduced, except in full.

This Quality Control Report contains the following information:

: 2

Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits

: NSW Custom BQ 2024

- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

No. of samples received

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories Position Accreditation Category

Ankit Joshi Senior Chemist - Inorganics Sydney Inorganics, Smithfield, NSW

Page : 2 of 3 Work Order : EN2512927

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key: Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot

CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

RPD = Relative Percentage Difference

= Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)	
EA025: Total Suspen	ded Solids dried at 104 ± 2°	C (QC Lot: 6772811)								
EN2512927-001	SW1	EA025H: Suspended Solids (SS)		5	mg/L	354	339	4.2	0% - 20%	
ES2523771-002	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	<5	<5	0.0	No Limit	
ES2523771-012	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	15	16	0.0	No Limit	
EW2503903-004	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	<5	<5	0.0	No Limit	
EK055G: Ammonia a	s N by Discrete Analyser (Q	C Lot: 6771235)								
EN2512927-001	SW1	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	46.5	41.2	12.0	0% - 20%	
EK057G: Nitrite as N	by Discrete Analyser (QC I	_ot: 6767734)								
ES2523682-004	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.01	0.0	No Limit	
EN2512975-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.24	0.24	0.0	0% - 20%	
EK059G: Nitrite plus	Nitrate as N (NOx) by Disci	rete Analyser (QC Lot: 6771236)								
EN2512927-001	SW1	EK059G: Nitrite + Nitrate as N		0.01	mg/L	86.9	87.2	0.2	0% - 20%	

Page : 3 of 3 Work Order : EN2512927

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e



Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: WATER	Method Blank (MB)	Laboratory Control Spike (LCS) Report					
			Report	Spike	Spike Recovery (%)	Acceptable	Limits (%)
Method: Compound CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EA025: Total Suspended Solids dried at 104 ± 2°C (QCLot: 6772811)							
EA025H: Suspended Solids (SS)	5	mg/L	<5	150 mg/L	115	83.0	129
			<5	1000 mg/L	92.1	82.0	110
			<5	816 mg/L	99.9	83.0	118
EK055G: Ammonia as N by Discrete Analyser (QCLot: 6771235)							
EK055G: Ammonia as N 7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	106	90.0	114
EK057G: Nitrite as N by Discrete Analyser (QCLot: 6767734)							
EK057G: Nitrite as N 14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	103	82.0	114
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot:	6771236)						
EK059G: Nitrite + Nitrate as N	0.01	mg/L	<0.01	0.5 mg/L	98.9	91.0	113
EP020: Oil and Grease (O&G) (QCLot: 6770550)							
EP020: Oil & Grease	5	mg/L	<5	5000 mg/L	99.7	81.0	121

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: WATER				Matrix Spike (MS) Report				
				Spike	SpikeRecovery(%)	Acceptable L	imits (%)	
Laboratory sample ID	Sample ID	Method: Compound C	CAS Number	Concentration	MS	Low	High	
EK055G: Ammonia	as N by Discrete Analyser (QCLot: 6771235)							
EN2512927-001	SW1	EK055G: Ammonia as N 7	7664-41-7	1 mg/L	# Not	70.0	130	
					Determined			
EK057G: Nitrite as	N by Discrete Analyser (QCLot: 6767734)							
EN2512975-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	105	70.0	130	
EK059G: Nitrite plu	us Nitrate as N (NOx) by Discrete Analyser (QCLot: 677	1236)						
EN2512927-001	SW1	EK059G: Nitrite + Nitrate as N		0.5 mg/L	# Not	70.0	130	
					Determined			



QA/QC Compliance Assessment to assist with Quality Review

Work Order : **EN2512927** Page : 1 of 4

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Newcastle

 Contact
 : MS FIONA BROOKER
 Telephone
 : +61 2 4014 2500

 Project
 : 12513e
 Date Samples Received
 : 04-Aug-2025

 Site
 : -- Issue Date
 : 11-Aug-2025

Sampler : Client No. of samples received : 2
Order number : ---- No. of samples analysed : 2

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers: Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- NO Method Blank value outliers occur.
- NO Duplicate outliers occur.
- NO Laboratory Control outliers occur.
- Matrix Spike outliers exist please see following pages for full details.
- For all regular sample matrices, where applicable to the methodology, NO surrogate recovery outliers occur.

Outliers : Analysis Holding Time Compliance

• NO Analysis Holding Time Outliers exist.

Outliers: Frequency of Quality Control Samples

NO Quality Control Sample Frequency Outliers exist.

Page : 2 of 4
Work Order : EN2512927

Client : ROBERT CARR & ASSOCIATES P/L

Project : 125136

Outliers: Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: WATER

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EK055G: Ammonia as N by Discrete Analyser	EN2512927001	SW1	Ammonia as N	7664-41-7	Not		MS recovery not determined,
					Determined		background level greater than or
							equal to 4x spike level.
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete A	r EN2512927001	SW1	Nitrite + Nitrate as N		Not		MS recovery not determined,
					Determined		background level greater than or
							equal to 4x spike level.

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for <u>VOC in soils</u> vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive <u>or</u> Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: WATER

Evaluation: **x** = Holding time breach; ✓ = Within holding time.

				Lvalaation		broadin, within	in nording time
Method			traction / Preparation		Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
PC							
SW2	04-Aug-2025				08-Aug-2025	11-Aug-2025	✓
SW2	04-Aug-2025				07-Aug-2025	01-Sep-2025	✓
SW2	04-Aug-2025				06-Aug-2025	06-Aug-2025	✓
rete Analyser							
SW2	04-Aug-2025				07-Aug-2025	01-Sep-2025	✓
P020)							
SW2	04-Aug-2025				07-Aug-2025	01-Sep-2025	✓
	SW2 SW2 rete Analyser SW2 P020)	SW2 04-Aug-2025 SW2 04-Aug-2025 SW2 04-Aug-2025 rete Analyser SW2 04-Aug-2025	Date extracted	Date extracted Due for extraction	Sample Date Extraction / Preparation Date extracted Due for extraction Evaluation	Sample Date Extraction / Preparation Date analysed	Date extracted Due for extraction Evaluation Date analysed Due for analysis SW2 04-Aug-2025 08-Aug-2025 11-Aug-2025 SW2 04-Aug-2025 07-Aug-2025 01-Sep-2025 SW2 04-Aug-2025 06-Aug-2025 06-Aug-2025 rete Analyser SW2 04-Aug-2025 07-Aug-2025 01-Sep-2025 P020) P0201 07-Aug-2025 01-Sep-2025

Page : 3 of 4 Work Order EN2512927

Client · ROBERT CARR & ASSOCIATES P/L

Project : 12513e



Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

atrix: WATER Evaluation: × = Quality Control frequency not within specification; ✓ = Quality Control frequency within specification; ✓ = Quality Control frequency within specification.								
Quality Control Sample Type		Co	ount	Rate (%)			Quality Control Specification	
Analytical Methods	Method	QC	Reaular	Actual	Expected	Evaluation		
Laboratory Duplicates (DUP)								
Ammonia as N by Discrete analyser	EK055G	1	4	25.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	2	50.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite as N by Discrete Analyser	EK057G	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Suspended Solids (High Level)	EA025H	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Laboratory Control Samples (LCS)								
Ammonia as N by Discrete analyser	EK055G	1	4	25.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite as N by Discrete Analyser	EK057G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Oil and Grease	EP020	2	25	8.00	8.00	✓	NEPM 2013 B3 & ALS QC Standard	
Suspended Solids (High Level)	EA025H	5	40	12.50	12.50	✓	NEPM 2013 B3 & ALS QC Standard	
Method Blanks (MB)								
Ammonia as N by Discrete analyser	EK055G	1	4	25.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite as N by Discrete Analyser	EK057G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Oil and Grease	EP020	2	25	8.00	6.00	✓	NEPM 2013 B3 & ALS QC Standard	
Suspended Solids (High Level)	EA025H	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Matrix Spikes (MS)								
Ammonia as N by Discrete analyser	EK055G	1	4	25.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite as N by Discrete Analyser	EK057G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	

Page : 4 of 4 Work Order : EN2512927

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

ALS

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Suspended Solids (High Level)	EA025H	WATER	In house: Referenced to APHA 2540D. A gravimetric procedure employed to determine the amount of
			`non-filterable` residue in a aqueous sample. The prescribed GFC (1.2um) filter is rinsed with deionised water,
			oven dried and weighed prior to analysis. A well-mixed sample is filtered through a glass fibre filter (1.2um).
			The residue on the filter paper is dried at 104+/-2C . This method is compliant with NEPM Schedule B(3)
Ammonia as N by Discrete analyser	EK055G	WATER	In house: Referenced to APHA 4500-NH3 G Ammonia is determined by direct colorimetry by Discrete Analyser.
			This method is compliant with NEPM Schedule B(3)
Nitrite as N by Discrete Analyser	EK057G	WATER	In house: Referenced to APHA 4500-NO2- B. Nitrite is determined by direct colourimetry by Discrete Analyser.
			This method is compliant with NEPM Schedule B(3)
Nitrate as N by Discrete Analyser	EK058G	WATER	In house: Referenced to APHA 4500-NO3- F. Nitrate is reduced to nitrite by way of a chemical reduction followed
			by quantification by Discrete Analyser. Nitrite is determined seperately by direct colourimetry and result for Nitrate
			calculated as the difference between the two results. This method is compliant with NEPM Schedule B(3)
Nitrite and Nitrate as N (NOx) by Discrete	EK059G	WATER	In house: Referenced to APHA 4500-NO3- F. Combined oxidised Nitrogen (NO2+NO3) is determined by
Analyser			Chemical Reduction and direct colourimetry by Discrete Analyser. This method is compliant with NEPM
			Schedule B(3)
Oil and Grease	EP020	WATER	In house: Referenced to APHA 5520 B. Oil & grease is a gravimetric procedure to determine the amount of
			dissolved or emulsified oil & grease residue in an aqueous sample. The sample is serially extracted three times
			n-hexane. The resultant extracts are combined, dehydrated and concentrated prior to gravimetric determination.
			This method is compliant with NEPM Schedule B(3)

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CHAIN OF CUSTODY

ALS Laboratory:

DADELAIDE 21 Burma Road Pooraka SA 5095 Ph 08 8359 0890 E: adelaide@alsglobal.com DBRISBANE 32 Shand Street Stafford QLD 4053 Ph: 07 3243 7222 E: samples brisbane@alsglobal.com DGLADSTONE 46 Callemondah Drive Clinton QLD 4680 DMACKAY 78 Harbour Road Mackay QLD 4740 Ph: 07 4944 0177 E: mackay@alsglobal.com

DMELBOURNE 2-4 Westall Road Springvale VIC 3171 Ph 03 8549 9500 E: samples melbourne@alsglobal.com DMUDGEE 27 Sydney Road Mudgee NSW 2650 Ph: 02 6372 6735 F: mudgee mail@alsglobal.com

DNEWCASTLE 5/565 Maitland Rd Mayfield West NSW 2304 Ph: 02 4014 2500 E. samples newcastle@alsglobal.com

DNOWRA 4/13 Geary Place North Nowra NSW 2541 Ph. 024423 2063 E. nowra@alsglobal.com

□PERTH 10 Hod Way Malaga WA 6090

CISYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph: 02 8784 8555 E: samples sydney@alsglobal com

CITOWNSVILLE 14-15 Desma Court Bohle QLD 4818 Ph: 07 4796 0600 E: townsville environmental@alsglobal.com

UWOLLONGONG 99 Kenny Street Wollongong NSW 2500

		please tick ->	THE OF THE TOOOD E. GODDINE & SGOOD	50111	This occupation is a second se	Ph. 08 9209 7655 E. Samples pelin@alsglobal col	11 Pri, 02 4223 3123 E. politi	Rembia@aisglobal.bottl
CLIENT:	RCA Australia		TURNAROUND RE	QUIREMENTS:	☐ Standard TAT (List due date):		FOR LABORATORY USE ONLY	(Circle)
OFFICE:	92 Hill Street, Ca	rrington	(Standard TAT may be Trace Organics)	longer for some tests e.g. Ult	ra		Oustody Sent Intact?	Yes No
RCA Ref No: 12513e		ALS QUOTE NO.:		NSW Custom BQ COC SEQUENCE NUMBER (Circle)		Free los / frezen los backs present up receipt?	on Yes No (
						coc: 1	Random Sample Temperature on Rec	
PROJECT MANA	AGER: Fiona Brooker		CONTACT PH: 0408 687 529			OF: 1	Other comment	16.1
SAMPLER: Clier	nt		SAMPLER MOBILE: - 0475	722 538	RELINQUISHED BY: James	RESEIVED BY:	RELINQUISHED BY:	RECEIVED BY:
COC emailed to	ALS? (NO)		EDD FORMAT (or default):		Cunningham	U15516		
Email Reports to	o: administrator@rca.c	om.au + enviro@rca.con	augastonjeane.forget	@tollaroup.co	m DATE/TIME: J	DATE/TIME: (040	DATE/TIME:	DATE/TIME:
Email Invoice to			3 3	- 3 '	4.8.25 8am	04/08/25		
COMMENTS/SPE	ECIAL HANDLING/ST	ORAGE OR DISPOSAL:			The second secon			

ALS SAMPLE DETAILS USE MATRIX: SOLID (S) WATER (W)								RED including quired, specify	Additional Information			
LAB ID Sample ID Date / Time Matrix	LAB ID	Type & Preservative (refer to codes below)	Total Containers	EK055G - Ammonla	EK058G - Nitrate	EA025H - Total Suspended Solids	EP020 - Oll and Grease			Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc		
	SW1	9am	w	Purple Glass, Purple Plastic, Green Plastic	3	x	x	x	x			
	SW2	4.8.25 8am	w	Purple Glass, Purple Plastic, Green Plastic	3	х	×	х	х			
										_		Environment
												Newcastle Work Order EN25

2

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/C4 Preserved. S = Sodium Hydroxide Preserved Plastic; AP = Airfreight Unpreserved; AP = Airfreight Unpreserved Plastic. V = VOA Vial HCI Preserved, VB = VOA Vial Sodium Bisulphate Preserved, VS = VOA Vial Sulfuric Preserved AV = Auftreight Unpreserved Vial SG = Sulfuric Preserved Armber Glass; H = HCI preserved Plastic; HS = HCI preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Z = Zinc Acetate Preserved Bottle, E = EDTA Preserved Bottles, ST = Sterile Bottle. ASS = Plastic Bag for Acid Sulphate Soils, B = Unpreserved Bag.

imental Division stle Order Reference 12512927





SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : EN2512927

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Newcastle

Contact : MS FIONA BROOKER Contact : Danae Hambly

Address : 92 HILL STREET Address : 5/585 Maitland Road Mayfield West

NSW Australia 2304

Telephone : +61 02 4902 9200 Telephone : +61 2 4014 2500 Facsimile : +61 02 4902 9299 Facsimile : +61 2 4967 7382

Project : 12513e Page : 1 of 3

CARRINGTON NSW 2294

Order number : ---- Quote number : EN2023ROBCAR0002 (NSW Custom

BQ 2024)

C-O-C number : ---- QC Level : NEPM 2013 B3 & ALS QC Standard

Site : ----Sampler : Client

Dates

Date

Delivery Details

Mode of Delivery : Client Drop Off Security Seal : Not Available

No. of coolers/boxes : ---- Temperature : 16.7
Receipt Detail : No. of samples received / analysed : 2 / 2

General Comments

• This report contains the following information:

- Sample Container(s)/Preservation Non-Compliances
- Summary of Sample(s) and Requested Analysis
- Proactive Holding Time Report
- Requested Deliverables
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.
- Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.
- Sample Disposal Aqueous Chemistry (3 weeks), Aqueous Microbiological (1 week), Solid (2 months ± 1 week) from receipt of samples.

Issue Date 04-Aug-2025

Page

: 2 of 3 : EN2512927 Amendment 0 Work Order

Client : ROBERT CARR & ASSOCIATES P/L



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

• No sample container / preservation non-compliance exists.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package. If no sampling time is provided, the sampling time will Suspended Solids - Standard Level default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the mmonia as N By Discrete laboratory and displayed in brackets without a time component WATER - EP020 Oil & Grease (O&G) /ATER - EK055G /ATER - EK058G VATER - EA025H Matrix: WATER Sampling date / Sample ID Laboratory sample time EN2512927-001 04-Aug-2025 09:00 EN2512927-002 04-Aug-2025 08:00

Proactive Holding Time Report

- *AU Certificate of Analysis - NATA (COA)

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ADMINISTRATOR

		adminionation @Foa.com.aa
 *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) 	Email	administrator@rca.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	administrator@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	administrator@rca.com.au
- A4 - AU Tax Invoice (INV)	Email	administrator@rca.com.au
- Chain of Custody (CoC) (COC)	Email	administrator@rca.com.au
- EDI Format - ENMRG (ENMRG)	Email	administrator@rca.com.au
- EDI Format - ESDAT (ESDAT)	Email	administrator@rca.com.au
- EDI Format - XTab (XTAB)	Email	administrator@rca.com.au
ENVIRO		
 *AU Certificate of Analysis - NATA (COA) 	Email	enviro@rca.com.au
 *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) 	Email	enviro@rca.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	enviro@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	enviro@rca.com.au
- A4 - AU Tax Invoice (INV)	Email	enviro@rca.com.au
- Chain of Custody (CoC) (COC)	Email	enviro@rca.com.au
- EDI Format - ENMRG (ENMRG)	Email	enviro@rca.com.au
- EDI Format - ESDAT (ESDAT)	Email	enviro@rca.com.au
- EDI Format - XTab (XTAB)	Email	enviro@rca.com.au
Gastonjeane Forget		
 *AU Certificate of Analysis - NATA (COA) 	Email	Gastonjeane.Forget@tollgroup.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	Gastonjeane.Forget@tollgroup.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	Gastonjeane.Forget@tollgroup.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	Gastonjeane.Forget@tollgroup.com
- A4 - AU Tax Invoice (INV)	Email	Gastonjeane.Forget@tollgroup.com
- Chain of Custody (CoC) (COC)	Email	Gastonjeane.Forget@tollgroup.com
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- EDI Format - ESDAT (ESDAT)	Email	Gastonjeane.Forget@tollgroup.com
- EDI Format - XTab (XTAB)	Email	Gastonjeane.Forget@tollgroup.com

Email

administrator@rca.com.au

: 04-Aug-2025 Issue Date

Page

3 of 3 EN2512927 Amendment 0 Work Order

Client : ROBERT CARR & ASSOCIATES P/L



Inter-Laboratory Testing

Analysis conducted by ALS Sydney, NATA accreditation no. 825, site no. 10911 (Chemistry / Biology).

(WATER) EK055G: Ammonia as N by Discrete Analyser (WATER) EA025: Total Suspended Solids dried at 104 ± 2°C (WATER) EK058G: Nitrate as N by Discrete Analyser (WATER) EK057G: Nitrite as N by Discrete Analyser

(WATER) EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser

(WATER) EP020: Oil and Grease (O&G)



CERTIFICATE OF ANALYSIS

Work Order : ES2524108

Client : ROBERT CARR & ASSOCIATES P/L

Contact : MS FIONA BROOKER

Address : PO BOX 175

CARRINGTON NSW, AUSTRALIA 2294

Telephone : +61 02 4902 9200

Project : 12513e
Order number ----

C-O-C number : ----

Sampler : Toll SST Tomagao

Site : ---

Quote number : NSW Custom BQ 2024

No. of samples received : 2
No. of samples analysed : 2

Page : 1 of 2

Laboratory : Environmental Division Sydney

Contact : Danae Hambly

Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

Telephone : +61-2-8784 8555

Date Samples Received : 07-Aug-2025 11:30

Date Analysis Commenced : 09-Aug-2025

Issue Date : 13-Aug-2025 14:26





Accreditation No. 825 Accredited for compliance with ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories Position Accreditation Category

Ankit Joshi Senior Chemist - Inorganics Sydney Inorganics, Smithfield, NSW

Page : 2 of 2 Work Order : ES2524108

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key: CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

- ^ = This result is computed from individual analyte detections at or above the level of reporting
- ø = ALS is not NATA accredited for these tests.
- ~ = Indicates an estimated value.

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	SW1	SW2	 	
Sampling date / time			07-Aug-2025 09:00	07-Aug-2025 09:00	 		
Compound	CAS Number	LOR	Unit	ES2524108-001	ES2524108-002	 	
				Result	Result	 	
EA025: Total Suspended Solids dried at	104 ± 2°C						
Suspended Solids (SS)		5	mg/L	418	2110	 	
EK055G: Ammonia as N by Discrete Ana	lyser						
Ammonia as N	7664-41-7	0.01	mg/L	0.31	33.9	 	
EK057G: Nitrite as N by Discrete Analys	er						
Nitrite as N	14797-65-0	0.01	mg/L	0.38	3.08	 	
EK058G: Nitrate as N by Discrete Analys	ser						
Nitrate as N	14797-55-8	0.01	mg/L	20.0	92.3	 	
EK059G: Nitrite plus Nitrate as N (NOx)	by Discrete Ana	lyser					
Nitrite + Nitrate as N		0.01	mg/L	20.4	95.4	 	
EP020: Oil and Grease (O&G)							
Oil & Grease		5	mg/L	10	22	 	





QUALITY CONTROL REPORT

Work Order : ES2524108

Client : ROBERT CARR & ASSOCIATES P/L

Contact : MS FIONA BROOKER

Address : PO BOX 175

CARRINGTON NSW, AUSTRALIA 2294

Telephone : +61 02 4902 9200

Project : 12513e
Order number : ----

C-O-C number · ---

Sampler : Toll SST Tomagao

Site · ---

Quote number : NSW Custom BQ 2024

No. of samples received : 2
No. of samples analysed : 2

Page : 1 of 4

Laboratory : Environmental Division Sydney

Contact : Danae Hambly

Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

Telephone : +61-2-8784 8555

Date Samples Received : 07-Aug-2025

Date Analysis Commenced : 09-Aug-2025

Issue Date : 13-Aug-2025



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories Position Accreditation Category

Ankit Joshi Senior Chemist - Inorganics Sydney Inorganics, Smithfield, NSW

Page : 2 of 4
Work Order : ES2524108

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key: Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot

CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

RPD = Relative Percentage Difference

= Indicates failed QC

* = The final LOR has been raised due to dilution or other sample specific cause; adjusted LOR is shown in brackets. The duplicate ranges for Acceptable RPD% are applied to the final LOR where applicable.

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit: Result between 10 and 20 times LOR: 0% - 50%: Result > 20 times LOR: 0% - 20%.

Sub-Matrix: WATER	Laboratory Duplicate (DUP) Report								
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EA025: Total Susper	nded Solids dried at 104 ± 2°	C (QC Lot: 6781020)							
ES2523978-001	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	50	59	15.9	0% - 50%
ES2524104-006	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	7	7	0.0	No Limit
ES2524135-002	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	80	82	1.8	0% - 50%
ES2524206-005	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	18	19	9.5	No Limit
EK055G: Ammonia a	s N by Discrete Analyser(C	QC Lot: 6780541)							
ES2524108-002	SW2	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	33.9	33.8	0.1	0% - 20%
EW2503910-002	Anonymous	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	0.08	0.08	0.0	No Limit
EK057G: Nitrite as N	I by Discrete Analyser (QC	Lot: 6776627)							
ES2524103-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EN2513294-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.22	0.22	0.0	0% - 20%
EK059G: Nitrite plus	Nitrate as N (NOx) by Disc	rete Analyser (QC Lot: 6780540)							
EN2513188-001	Anonymous	EK059G: Nitrite + Nitrate as N		0.01	mg/L	2.85	2.85	0.0	0% - 20%
ES2524045-005	Anonymous	EK059G: Nitrite + Nitrate as N		0.01	mg/L	0.18	0.18	0.0	0% - 50%
EK059G: Nitrite plus	Nitrate as N (NOx) by Disc	rete Analyser (QC Lot: 6780542)							
ES2524108-002	SW2	EK059G: Nitrite + Nitrate as N		0.01 (0.10)*	mg/L	95.4	91.2	4.4	0% - 20%
EW2503910-002	Anonymous	EK059G: Nitrite + Nitrate as N		0.01	mg/L	0.57	0.55	2.4	0% - 20%

Page : 3 of 4 Work Order : ES2524108

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e



Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: WATER			Method Blank (MB)	Laboratory Control Spike (LCS) Report						
			Report	Spike	Spike Recovery (%)	Acceptable	Limits (%)			
Method: Compound CAS Nut	mber LOR	Unit	Result	Concentration	LCS	Low	High			
EA025: Total Suspended Solids dried at 104 ± 2°C (QCLot: 6781020)										
EA025H: Suspended Solids (SS)	5	mg/L	<5	150 mg/L	101	83.0	129			
			<5	1000 mg/L	97.0	82.0	110			
			<5	816 mg/L	102	83.0	118			
EK055G: Ammonia as N by Discrete Analyser (QCLot: 6780541)										
EK055G: Ammonia as N 7664-4	1-7 0.01	mg/L	<0.01	0.5 mg/L	106	90.0	114			
EK057G: Nitrite as N by Discrete Analyser (QCLot: 6776627)										
EK057G: Nitrite as N 14797-6	5-0 0.01	mg/L	<0.01	0.5 mg/L	102	82.0	114			
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCL	ot: 6780540)									
EK059G: Nitrite + Nitrate as N	0.01	mg/L	<0.01	0.5 mg/L	100	91.0	113			
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCL	ot: 6780542)									
EK059G: Nitrite + Nitrate as N	0.01	mg/L	<0.01	0.5 mg/L	102	91.0	113			
EP020: Oil and Grease (O&G) (QCLot: 6780529)										
EP020: Oil & Grease	5	mg/L	<5	5000 mg/L	92.0	81.0	121			
			<5	4000 mg/L	100	70.0	110			

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: WATER		Matrix Spike (MS) Report					
				Spike	SpikeRecovery(%)	Acceptable L	imits (%)
Laboratory sample ID	Sample ID	Method: Compound CA	AS Number	Concentration	MS	Low	High
EK055G: Ammonia	as N by Discrete Analyser (QCLot: 6780541)						
ES2524108-002	SW2	EK055G: Ammonia as N 760	664-41-7	0.5 mg/L	# Not	70.0	130
					Determined		
EK057G: Nitrite as	N by Discrete Analyser (QCLot: 6776627)						
EN2513294-001	Anonymous	EK057G: Nitrite as N 14	1797-65-0	0.5 mg/L	100.0	70.0	130
EK059G: Nitrite pl	us Nitrate as N (NOx) by Discrete Analyser (QCLot: 678	0540)					
EN2513188-001	Anonymous	EK059G: Nitrite + Nitrate as N		0.5 mg/L	# Not	70.0	130
					Determined		
EK059G: Nitrite pl	us Nitrate as N (NOx) by Discrete Analyser (QCLot: 678	0542)					

Page : 4 of 4 Work Order : ES2524108

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e







QA/QC Compliance Assessment to assist with Quality Review

Work Order : **ES2524108** Page : 1 of 5

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Sydney

 Contact
 : MS FIONA BROOKER
 Telephone
 : +61-2-8784 8555

 Project
 : 12513e
 Date Samples Received
 : 07-Aug-2025

 Site
 : --- Issue Date
 : 13-Aug-2025

Sampler : Toll SST Tomagao No. of samples received : 2
Order number : ---- No. of samples analysed : 2

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers: Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- NO Method Blank value outliers occur.
- NO Duplicate outliers occur.
- NO Laboratory Control outliers occur.
- Matrix Spike outliers exist please see following pages for full details.
- For all regular sample matrices, where applicable to the methodology, NO surrogate recovery outliers occur.

Outliers : Analysis Holding Time Compliance

• Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers: Frequency of Quality Control Samples

NO Quality Control Sample Frequency Outliers exist.

Page : 2 of 5 Work Order : ES2524108

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

Outliers: Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: WATER

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EK055G: Ammonia as N by Discrete Analyser	ES2524108002	SW2	Ammonia as N	7664-41-7	Not		MS recovery not determined,
					Determined		background level greater than or
							equal to 4x spike level.
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Ar	EN2513188001	Anonymous	Nitrite + Nitrate as N		Not		MS recovery not determined,
					Determined		background level greater than or
							equal to 4x spike level.
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Ar	ES2524108002	SW2	Nitrite + Nitrate as N		Not		MS recovery not determined,
					Determined		background level greater than or
							equal to 4x spike level.

Outliers: Analysis Holding Time Compliance

Matrix: WATER

Method	Ex	traction / Preparation		Analysis		
Container / Client Sample ID(s)	Date extracted	Due for extraction	Days	Date analysed	Due for analysis	Days
			overdue			overdue
EK057G: Nitrite as N by Discrete Analyser						
Clear Plastic Bottle - Natural						
SW1, SW2				11-Aug-2025	09-Aug-2025	2

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for <u>VOC in soils</u> vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: WATER

Evaluation	x =	Holding t	time breacl	h ;	Within holding time.
------------	-----	-----------	-------------	-----	----------------------

Method		Sample Date	Ex	traction / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA025: Total Suspended Solids dried at 104 ± 2°C								
Clear Plastic Bottle - Natural (EA025H) SW1,	SW2	07-Aug-2025				12-Aug-2025	14-Aug-2025	✓
EK055G: Ammonia as N by Discrete Analyser								
Clear Plastic Bottle - Sulfuric Acid (EK055G) SW1,	SW2	07-Aug-2025				12-Aug-2025	04-Sep-2025	✓
EK057G: Nitrite as N by Discrete Analyser								
Clear Plastic Bottle - Natural (EK057G) SW1,	SW2	07-Aug-2025				11-Aug-2025	09-Aug-2025	×

Page : 3 of 5
Work Order : ES2524108

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e



Matrix: WATER					Evaluation	: x = Holding time	breach ; ✓ = Within	n holding time
Method	Sample Date	Ex	traction / Preparation		Analysis			
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EK059G: Nitrite plus Nitrate as N (NOx)	by Discrete Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK0	59G)							
SW1,	SW2	07-Aug-2025				12-Aug-2025	04-Sep-2025	✓
EP020: Oil and Grease (O&G)								
Amber Jar - Sulfuric Acid or Sodium Bis	sulfate (EP020)							
SW1,	SW2	07-Aug-2025				12-Aug-2025	04-Sep-2025	✓

Page : 4 of 5 Work Order ES2524108

Client ROBERT CARR & ASSOCIATES P/L

Project : 12513e



Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

	i e				Quality Oc		not within specification; ✓ = Quality Control frequency within specification.
Quality Control Sample Type		Co	ount		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Reaular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Ammonia as N by Discrete analyser	EK055G	2	18	11.11	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	4	33	12.12	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Suspended Solids (High Level)	EA025H	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Ammonia as N by Discrete analyser	EK055G	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	2	33	6.06	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Oil and Grease	EP020	4	41	9.76	8.00	✓	NEPM 2013 B3 & ALS QC Standard
Suspended Solids (High Level)	EA025H	5	40	12.50	12.50	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Ammonia as N by Discrete analyser	EK055G	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	2	33	6.06	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Oil and Grease	EP020	3	41	7.32	6.00	✓	NEPM 2013 B3 & ALS QC Standard
Suspended Solids (High Level)	EA025H	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Ammonia as N by Discrete analyser	EK055G	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	2	33	6.06	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard

Page : 5 of 5 Work Order : ES2524108

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e



Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Suspended Solids (High Level)	EA025H	WATER	In house: Referenced to APHA 2540D. A gravimetric procedure employed to determine the amount of
			`non-filterable` residue in a aqueous sample. The prescribed GFC (1.2um) filter is rinsed with deionised water,
			oven dried and weighed prior to analysis. A well-mixed sample is filtered through a glass fibre filter (1.2um).
			The residue on the filter paper is dried at 104+/-2C . This method is compliant with NEPM Schedule B(3)
Ammonia as N by Discrete analyser	EK055G	WATER	In house: Referenced to APHA 4500-NH3 G Ammonia is determined by direct colorimetry by Discrete Analyser.
			This method is compliant with NEPM Schedule B(3)
Nitrite as N by Discrete Analyser	EK057G	WATER	In house: Referenced to APHA 4500-NO2- B. Nitrite is determined by direct colourimetry by Discrete Analyser.
			This method is compliant with NEPM Schedule B(3)
Nitrate as N by Discrete Analyser	EK058G	WATER	In house: Referenced to APHA 4500-NO3- F. Nitrate is reduced to nitrite by way of a chemical reduction followed
			by quantification by Discrete Analyser. Nitrite is determined seperately by direct colourimetry and result for Nitrate
			calculated as the difference between the two results. This method is compliant with NEPM Schedule B(3)
Nitrite and Nitrate as N (NOx) by Discrete	EK059G	WATER	In house: Referenced to APHA 4500-NO3- F. Combined oxidised Nitrogen (NO2+NO3) is determined by
Analyser			Chemical Reduction and direct colourimetry by Discrete Analyser. This method is compliant with NEPM
			Schedule B(3)
Oil and Grease	EP020	WATER	In house: Referenced to APHA 5520 B. Oil & grease is a gravimetric procedure to determine the amount of
			dissolved or emulsified oil & grease residue in an aqueous sample. The sample is serially extracted three times
			n-hexane. The resultant extracts are combined, dehydrated and concentrated prior to gravimetric determination.
			This method is compliant with NEPM Schedule B(3)



CLIENT:

RCA Australia

CHAIN OF CUSTODY

ALS Laboratory: please tick →

CIADELAIDE 21 Burma Road Pooraka SA 5095
Ph. 08 8359 0890 E: adelaide@alsglobal com
DBRISBANE 32 Shand Street Stafford QLD 4053
Ph. 07 3243 7222 E: samples brisbane@alsglobal com
CIGLADSTONE 46 Callemondah Drive Clinton QLD 4680
Ph. 07 7471 5000 E: aldatone@alsglobal com

TURNAROUND REQUIREMENTS:

DMACKAY 78 Harbour Road Mackay QLD 4740 Ph: 07 4944 0177 E: mackay@alsglobal.com

☐MELBOURNE 2-4 Westall Road Springvale VIC 3171 Ph: 03 8549 9600 E: samples melbourne@alsglobal.com ☐MUDGEE 27 Sydney Road Mudgee NSW 2850 Ph: 02 6372 6736 E: muddee.mail@alsglobal.com

☐ Standard TAT (List due date):

UNEWCASTLE 5/585 Maitland Rd Mayfield West NSW 2304 Ph: 02 4014 2500 E. samples.newcastle@alsglobal.com

☐NOWRA 4/13 Geary Place North Nowra NSW 2541 Ph: 024423 2063 E: nowra@alsqlobal.com

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DTOWNSVILLE 14-15 Desma Court Bohie QLD 4818 Ph: 07 4796 0600 E: townsville.environmental@alsglobal.com

©WOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph: 02 4225 3125 E: portkembla@alsqlobal.com

FOR LABORATORY USE ONLY (Circle)

OFFICE:	92 Hill Street, Carrington		Trace Organics	may be longer for some tests e.g Ultra)							100000000000000000000000000000000000000	Seal Intact?		Yes	No (N/A
RCA Ref No:	12513e		ALS QUOTE					COC SEQU	ENCE NUMBER	(Circle)	Free ice / frozen ice bricks present upon Yes No receipt?				
							coc:	1			Randon	Sample Ten	nperature or	Receipt:	°C
PROJECT MANA	GER: Fiona Brooker	CONTACT F	PH: 0408 687 5				OF:	1			Other co	mment:		150	
SAMPLER: Toll	SST Tomagao	SAMPLER N	MOBILE: 0	475 722 538 RELINQUI	SHED BY: Jo	mes		EIVED BY:			RELINQUIS	HED BY:		RECEIVED BY:	1/4
COC emailed to			AT (or default)	Cunn	ingham		5	A			SA			394	A
Email Reports to	: administrator@rca.com.au + enviro@	orca.com.au astonje	cane forg	- 101.01.00p. CO11				E/TIME:			DATE/TIME:		00	DATE/TIME:	25/020
Email Invoice to		2		9am	7.8.25	5	7/	8	11:30		7/8	170)0	07/81	20192
COMMENTS/SP	ECIAL HANDLING/STORAGE OR DIS	POSAL:													
ALS USE		LE DETAILS LID (S) WATER (W)		CONTAINER INFORMATION					g SUITES (NB. Su Total (unfiltered b required	ottle requir				Additional Inf	formation
LAB ID	Sample ID	Date / Time	Matrix	Type & Preservative (refer to codes below)	Total Containers	EK055G - Ammonia	EK058G - Nitrate	EA025H - Total Suspended Solids	EP020 - Oil and Grease					Comments on likely contar dilutions, or samples requi analysis etc.	
	SW1	gam	w	Purple Glass, Purple Plastic, Green Plastic	3	х	х	х	х						
	SW2	7.8.25	w	Purple Glass, Purple Plastic, Green Plastic	3	x	x	x	x						
	OTTE	1.0.23	- "	,,		- "							1-10	iniolon	
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											Syc	iney	er Refer	ence	
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						110	1							17	
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					1	AB OF	ORK	GIN:		2			· Lagar	10 III -	
					_		CAST		ii.			() E E	ELLERE II	I SE MARTI TO	
						INFAA	UNO I	no fam	£		Tele	ephone: -	1-2-8784	3555	
									1		-				
				TOTAL	6	2	2	2	2						
Water Container C	odes: P = Unpreserved Plastic: N = Nitric P	reserved Plastic: ORC = Nitri	c Preserved ORC	c; SH = Sodium Hydroxide/Cd Preserved; S = Sodium H	vdroxide Preserved	Plastic: AG = A	Amber Glass II	npreserved:	AP - Airfreight Unr	reserved F	Plastic				



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : ES2524108

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Sydney

Contact : MS FIONA BROOKER Contact : Danae Hambly

Address : PO BOX 175 Address : 277-289 Woodpark Road Smithfield

NSW Australia 2164

E-mail : fionab@rca.com.au E-mail : danae.hambly@alsglobal.com

Telephone : +61 02 4902 9200 Telephone : +61-2-8784 8555
Facsimile : +61 02 4902 9299 Facsimile : +61-2-8784 8500

Project : 12513e Page : 1 of 3

CARRINGTON NSW, AUSTRALIA 2294

Order number : ---- Quote number : EN2023ROBCAR0002 (NSW Custom

BQ 2024)

C-O-C number : ---- QC Level : NEPM 2013 B3 & ALS QC Standard

Site : ----

Sampler : Toll SST Tomagao

Dates

Date

Delivery Details

 Mode of Delivery
 : Undefined
 Security Seal
 : Not Available

 No. of coolers/boxes
 : --- Temperature
 : 15.0°C

 Receipt Detail
 : No. of samples received / analysed
 : 2 / 2

General Comments

• This report contains the following information:

- Sample Container(s)/Preservation Non-Compliances
- Summary of Sample(s) and Requested Analysis
- Proactive Holding Time Report
- Requested Deliverables
- Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.
- Please direct any queries you have regarding this work order to the above ALS laboratory contact.
- Unless otherwise stated, analytical work for this work order will be conducted at ALS Sydney, NATA accreditation no. 825, site no. 10911
- Sample Disposal Aqueous (3 weeks), Solid (2 months ± 1 week) from receipt of samples.
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.

Issue Date : 07-Aug-2025

Page

2 of 3 ES2524108 Amendment 0 Work Order

Client : ROBERT CARR & ASSOCIATES P/L



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

• No sample container / preservation non-compliance exists.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package. If no sampling time is provided, the sampling time will mmonia as N By Discrete Analyser Suspended Solids - Standard Level default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component WATER - EP020 Oil & Grease (O&G) /ATER - EK055G /ATER - EK058G VATER - EA025H Matrix: WATER Laboratory sample Sampling date / Sample ID time ES2524108-001 07-Aug-2025 09:00 ES2524108-002 07-Aug-2025 09:00

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Issue Date : 07-Aug-2025

Page

Work Order

: 3 of 3 : ES2524108 Amendment 0 : ROBERT CARR & ASSOCIATES P/L Client



Requested Deliverables

AD				

- *AU Certificate of Analysis - NATA (COA)	Email	administrator@rca.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	administrator@rca.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	administrator@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	administrator@rca.com.au
- A4 - AU Tax Invoice (INV)	Email	administrator@rca.com.au
- Chain of Custody (CoC) (COC)	Email	administrator@rca.com.au
- EDI Format - ENMRG (ENMRG)	Email	administrator@rca.com.au
- EDI Format - ESDAT (ESDAT)	Email	administrator@rca.com.au

Email

administrator@rca.com.au

ALL INVOICES

- A4 - AU Tax Invoice (INV)

ENVIRO

- *AU Certificate of Analysis - NATA (COA)	Email	enviro@rca.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	enviro@rca.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	enviro@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	enviro@rca.com.au
- A4 - AU Tax Invoice (INV)	Email	enviro@rca.com.au
- Chain of Custody (CoC) (COC)	Email	enviro@rca.com.au
- EDI Format - ENMRG (ENMRG)	Email	enviro@rca.com.au
- EDI Format - ESDAT (ESDAT)	Email	enviro@rca.com.au

FIONA BROOKER

- *AU Certificate of Analysis - NATA (COA)	Email	fionab@rca.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	fionab@rca.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	fionab@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	fionab@rca.com.au
- Chain of Custody (CoC) (COC)	Email	fionab@rca.com.au
- EDI Format - ENMRG (ENMRG)	Email	fionab@rca.com.au
- EDI Format - ESDAT (ESDAT)	Email	fionab@rca.com.au

Gastonjeane Forget

Gastonjeane Forget		
- *AU Certificate of Analysis - NATA (COA)	Email	Gastonjeane.Forget@tollgroup.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	Gastonjeane.Forget@tollgroup.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	Gastonjeane.Forget@tollgroup.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	Gastonjeane.Forget@tollgroup.com
- Chain of Custody (CoC) (COC)	Email	Gastonjeane.Forget@tollgroup.com
- EDI Format - ENMRG (ENMRG)	Email	Gastonjeane.Forget@tollgroup.com
- EDI Format - ESDAT (ESDAT)	Email	Gastonjeane.Forget@tollgroup.com



CERTIFICATE OF ANALYSIS

Work Order : EN2513495

Client : ROBERT CARR & ASSOCIATES P/L

Contact : MS FIONA BROOKER

Address : 92 HILL STREET

CARRINGTON NSW 2294

Telephone : +61 02 4902 9200

Project : 12513e

Order number C-O-C number

Sampler : Toll SST Tomago

Site

Quote number : NSW Custom BQ 2024

No. of samples received : 2 No. of samples analysed : 2 Page : 1 of 3

Laboratory : Environmental Division Newcastle

Contact : Danae Hambly

Address : 5/585 Maitland Road Mayfield West NSW Australia 2304

Telephone : +61 2 4014 2500

Date Samples Received : 11-Aug-2025 15:09

Date Analysis Commenced : 13-Aug-2025

Issue Date : 18-Aug-2025 17:30





Accredited for compliance with ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with **Quality Review and Sample Receipt Notification.**

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories Position Accreditation Category

Ankit Joshi Senior Chemist - Inorganics Sydney Inorganics, Smithfield, NSW Page : 2 of 3 Work Order : EN2513495

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key: CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

- ^ = This result is computed from individual analyte detections at or above the level of reporting
- ø = ALS is not NATA accredited for these tests.
- ~ = Indicates an estimated value.

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)		Sample ID		SW1	SW2	 	
(manus consequence)		Sampli	ng date / time	11-Aug-2025 13:30	11-Aug-2025 13:30	 	
Compound	CAS Number	LOR	Unit	EN2513495-001	EN2513495-002	 	
				Result	Result	 	
EA025: Total Suspended Solids drie	d at 104 ± 2°C						
Suspended Solids (SS)		5	mg/L	1320	397	 	
EK055G: Ammonia as N by Discrete	Analyser						
Ammonia as N	7664-41-7	0.01	mg/L	3.45	16.8	 	
EK057G: Nitrite as N by Discrete Ar	nalyser						
Nitrite as N	14797-65-0	0.01	mg/L	0.80	2.38	 	
EK058G: Nitrate as N by Discrete A	nalyser						
Nitrate as N	14797-55-8	0.01	mg/L	34.5	71.3	 	
EK059G: Nitrite plus Nitrate as N (N	Ox) by Discrete Ana	lyser					
Nitrite + Nitrate as N		0.01	mg/L	35.3	73.7	 	
EP020: Oil and Grease (O&G)							
Oil & Grease		5	mg/L	17	12	 	



Page : 3 of 3 Work Order : EN2513495

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513

Inter-Laboratory Testing

Analysis conducted by ALS Sydney, NATA accreditation no. 825, site no. 10911 (Chemistry / Biology).

(WATER) EA025: Total Suspended Solids dried at 104 ± 2°C

(WATER) EP020: Oil and Grease (O&G)

(WATER) EK058G: Nitrate as N by Discrete Analyser (WATER) EK057G: Nitrite as N by Discrete Analyser

(WATER) EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser

(WATER) EK055G: Ammonia as N by Discrete Analyser





Telephone

QUALITY CONTROL REPORT

Work Order : **EN2513495** Page : 1 of 3

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Newcastle

Contact : MS FIONA BROOKER Contact : Danae Hambly

Address : 92 HILL STREET Address : 5/585 Maitland Road Mayfield West NSW Australia 2304

CARRINGTON NSW 2294
: +61 02 4902 9200
Telephone : +61 2 4014 2500

Project : 12513e Date Samples Received : 11-Aug-2025
Order number : ---- Date Analysis Commenced : 13-Aug-2025

C-O-C number : ---- Issue Date : 18-Aug-2025

Sampler ; Toll SST Tomago

Site : ---Quote number : NSW Custom BQ 2024

No. of samples analysed : 2

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall

Accreditation No. 825

Accredited for compliance with

not be reproduced, except in full.

This Quality Control Report contains the following information:

: 2

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

No. of samples received

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories Position Accreditation Category

Ankit Joshi Senior Chemist - Inorganics Sydney Inorganics, Smithfield, NSW

Page : 2 of 3 Work Order : EN2513495

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

ALS

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key: Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot

CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

RPD = Relative Percentage Difference

= Indicates failed QC

* = The final LOR has been raised due to dilution or other sample specific cause; adjusted LOR is shown in brackets. The duplicate ranges for Acceptable RPD% are applied to the final LOR where applicable.

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit: Result between 10 and 20 times LOR: 0% - 50%: Result > 20 times LOR: 0% - 20%.

Sub-Matrix: WATER	b-Matrix: WATER			Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EA025: Total Suspen	ded Solids dried at 104 ± 2°	C (QC Lot: 6789034)							
EN2513495-001	SW1	EA025H: Suspended Solids (SS)		5	mg/L	1320	1520	14.4	0% - 20%
ES2524715-001	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	559	654	15.7	0% - 20%
ES2524847-002	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	<5	<5	0.0	No Limit
ES2524868-003	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	<5	<5	0.0	No Limit
EK055G: Ammonia a	s N by Discrete Analyser (Q	C Lot: 6792080)							
ES2525219-004	Anonymous	EK055G: Ammonia as N	7664-41-7	0.01 (1.00)*	mg/L	784	770	1.7	0% - 20%
EN2513495-001	SW1	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	3.45	3.59	4.0	0% - 20%
EK057G: Nitrite as N	by Discrete Analyser (QC I	_ot: 6783357)							
EN2513483-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EN2513504-003	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EK059G: Nitrite plus	Nitrate as N (NOx) by Disci	rete Analyser (QC Lot: 6792079)							
ES2525219-004	Anonymous	EK059G: Nitrite + Nitrate as N		0.01 (1.00)*	mg/L	3.58	3.60	0.6	No Limit
EN2513495-001	SW1	EK059G: Nitrite + Nitrate as N		0.01	mg/L	35.3	33.3	5.8	0% - 20%

Page : 3 of 3 Work Order : EN2513495

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e



Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

ıb-Matrix: WATER			Method Blank (MB)	Laboratory Control Spike (LCS) Report				
			Report	Spike	Spike Recovery (%)	Acceptable	Limits (%)	
Method: Compound CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High	
EA025: Total Suspended Solids dried at 104 ± 2°C (QCLot: 6789034)								
EA025H: Suspended Solids (SS)	5	mg/L	<5	150 mg/L	97.7	83.0	129	
			<5	1000 mg/L	87.0	82.0	110	
			<5	816 mg/L	90.5	83.0	118	
EK055G: Ammonia as N by Discrete Analyser (QCLot: 6792080)								
EK055G: Ammonia as N 7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	98.7	90.0	114	
EK057G: Nitrite as N by Discrete Analyser (QCLot: 6783357)								
EK057G: Nitrite as N 14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	99.7	82.0	114	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot:	6792079)							
EK059G: Nitrite + Nitrate as N	0.01	mg/L	<0.01	0.5 mg/L	101	91.0	113	
EP020: Oil and Grease (O&G) (QCLot: 6788409)								
EP020: Oil & Grease	5	mg/L	<5	5000 mg/L	96.6	81.0	121	

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: WATER				Matrix Spike (MS) Report					
				Spike	SpikeRecovery(%)	Acceptable L	imits (%)		
Laboratory sample ID	Sample ID	Method: Compound CAS	S Number	Concentration	MS	Low	High		
EK055G: Ammonia	as N by Discrete Analyser (QCLot: 6792080)								
EN2513495-001	SW1	EK055G: Ammonia as N 766	64-41-7	0.5 mg/L	# Not	70.0	130		
					Determined				
EK057G: Nitrite as	N by Discrete Analyser (QCLot: 6783357)								
EN2513483-001	Anonymous	EK057G: Nitrite as N 147	797-65-0	0.5 mg/L	126	70.0	130		
EK059G: Nitrite plu	EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 6792079)								
EN2513495-001	SW1	EK059G: Nitrite + Nitrate as N		0.5 mg/L	# Not	70.0	130		
					Determined				



QA/QC Compliance Assessment to assist with Quality Review

Work Order : **EN2513495** Page : 1 of 4

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Newcastle

 Contact
 : MS FIONA BROOKER
 Telephone
 : +61 2 4014 2500

 Project
 : 12513e
 Date Samples Received
 : 11-Aug-2025

 Site
 :-- Issue Date
 : 18-Aug-2025

Sampler : Toll SST Tomago No. of samples received : 2
Order number : ---- No. of samples analysed : 2

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers: Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- NO Method Blank value outliers occur.
- NO Duplicate outliers occur.
- NO Laboratory Control outliers occur.
- Matrix Spike outliers exist please see following pages for full details.
- For all regular sample matrices, where applicable to the methodology, NO surrogate recovery outliers occur.

Outliers: Analysis Holding Time Compliance

• NO Analysis Holding Time Outliers exist.

Outliers: Frequency of Quality Control Samples

NO Quality Control Sample Frequency Outliers exist.

Page : 2 of 4
Work Order : EN2513495

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

Outliers: Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: WATER

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EK055G: Ammonia as N by Discrete Analyser	EN2513495001	SW1	Ammonia as N	7664-41-7	Not		MS recovery not determined,
					Determined		background level greater than or
							equal to 4x spike level.
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Ar	EN2513495001	SW1	Nitrite + Nitrate as N		Not		MS recovery not determined,
					Determined		background level greater than or
							equal to 4x spike level.

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for <u>VOC in soils</u> vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive <u>or</u> Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: WATER

Evaluation: **x** = Holding time breach ; ✓ = Within holding time.

Method		Sample Date	Ex	traction / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA025: Total Suspended Solids dried at 104 ± 2°C								
Clear Plastic Bottle - Natural (EA025H) SW1,	SW2	11-Aug-2025				15-Aug-2025	18-Aug-2025	✓
EK055G: Ammonia as N by Discrete Analyser								
Clear Plastic Bottle - Sulfuric Acid (EK055G) SW1,	SW2	11-Aug-2025				18-Aug-2025	08-Sep-2025	✓
EK057G: Nitrite as N by Discrete Analyser								
Clear Plastic Bottle - Natural (EK057G) SW1,	SW2	11-Aug-2025				13-Aug-2025	13-Aug-2025	✓
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Ana	lyser							
Clear Plastic Bottle - Sulfuric Acid (EK059G) SW1,	SW2	11-Aug-2025				18-Aug-2025	08-Sep-2025	✓
EP020: Oil and Grease (O&G)								
Amber Jar - Sulfuric Acid or Sodium Bisulfate (EP020) SW1,	SW2	11-Aug-2025				14-Aug-2025	08-Sep-2025	✓

Page : 3 of 4 Work Order EN2513495

Client · ROBERT CARR & ASSOCIATES P/L

Project : 12513e



Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: WATER	VATER Evaluation: × = Quality Control frequency not within specification; ✓ = Quality Control frequency within specific							
Quality Control Sample Type		Co	ount		Rate (%)		Quality Control Specification	
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation		
Laboratory Duplicates (DUP)								
Ammonia as N by Discrete analyser	EK055G	2	14	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	2	10	20.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite as N by Discrete Analyser	EK057G	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Suspended Solids (High Level)	EA025H	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard	
Laboratory Control Samples (LCS)								
Ammonia as N by Discrete analyser	EK055G	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	10	10.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite as N by Discrete Analyser	EK057G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Oil and Grease	EP020	1	10	10.00	8.00	✓	NEPM 2013 B3 & ALS QC Standard	
Suspended Solids (High Level)	EA025H	5	40	12.50	12.50	✓	NEPM 2013 B3 & ALS QC Standard	
Method Blanks (MB)								
Ammonia as N by Discrete analyser	EK055G	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	10	10.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite as N by Discrete Analyser	EK057G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Oil and Grease	EP020	1	10	10.00	6.00	✓	NEPM 2013 B3 & ALS QC Standard	
Suspended Solids (High Level)	EA025H	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Matrix Spikes (MS)								
Ammonia as N by Discrete analyser	EK055G	1	14	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	10	10.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard	
Nitrite as N by Discrete Analyser	EK057G	1	20	5.00	5.00	√	NEPM 2013 B3 & ALS QC Standard	

Page : 4 of 4 Work Order : EN2513495

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

ALS

Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Suspended Solids (High Level)	EA025H	WATER	In house: Referenced to APHA 2540D. A gravimetric procedure employed to determine the amount of
			`non-filterable` residue in a aqueous sample. The prescribed GFC (1.2um) filter is rinsed with deionised water,
			oven dried and weighed prior to analysis. A well-mixed sample is filtered through a glass fibre filter (1.2um).
			The residue on the filter paper is dried at 104+/-2C . This method is compliant with NEPM Schedule B(3)
Ammonia as N by Discrete analyser	EK055G	WATER	In house: Referenced to APHA 4500-NH3 G Ammonia is determined by direct colorimetry by Discrete Analyser.
			This method is compliant with NEPM Schedule B(3)
Nitrite as N by Discrete Analyser	EK057G	WATER	In house: Referenced to APHA 4500-NO2- B. Nitrite is determined by direct colourimetry by Discrete Analyser.
			This method is compliant with NEPM Schedule B(3)
Nitrate as N by Discrete Analyser	EK058G	WATER	In house: Referenced to APHA 4500-NO3- F. Nitrate is reduced to nitrite by way of a chemical reduction followed
			by quantification by Discrete Analyser. Nitrite is determined seperately by direct colourimetry and result for Nitrate
			calculated as the difference between the two results. This method is compliant with NEPM Schedule B(3)
Nitrite and Nitrate as N (NOx) by Discrete	EK059G	WATER	In house: Referenced to APHA 4500-NO3- F. Combined oxidised Nitrogen (NO2+NO3) is determined by
Analyser			Chemical Reduction and direct colourimetry by Discrete Analyser. This method is compliant with NEPM
			Schedule B(3)
Oil and Grease	EP020	WATER	In house: Referenced to APHA 5520 B. Oil & grease is a gravimetric procedure to determine the amount of
			dissolved or emulsified oil & grease residue in an aqueous sample. The sample is serially extracted three times
			n-hexane. The resultant extracts are combined, dehydrated and concentrated prior to gravimetric determination.
			This method is compliant with NEPM Schedule B(3)



RCA Australia

92 Hill Street, Carrington

CLIENT:

OFFICE:

CHAIN OF CUSTODY

ALS Laboratory: please tick >

DADELAIDE 21 Burina Road Poolaka SA 5095 Phi 08 8359 0890 E adelaide@alsglobal.com □BRISBANE 32 Shand Street Stafford QLD 4053 Ph 07 3243 7222 E samples biisbane@alsglobal.com □GLADSTONE 46 Callemondah Drive Clinton OLD 4680 Ph 07 7471 5600 E gladstone@alsglobal.com

Trace Organics)

TURNAROUND REQUIREMENTS:

(Standard TAT may be longer for some tests e.g., Ultra

MACKAY 78 Harbour Road Mackay QLD 4740 Ph 07 4944 0177 E mackay@alsglobal.com

DMELBOURNE 2-4 Westall Road Springvale VIC 3171 Ph 03 8549 9600 E samples melbourne@alsglobal.com MUDGEE 27 Sydney Road Mudgee NSW 2850 Ph 02 6372 6735 E mugee mail@alsglobal com

Standard TAT (List due date):

EINEWCASTLE 5/585 Maitland Rd Mayfield West NSW 2304 Ph 02 4014 2500 E samples newcastle@alsglobal.com

UNOWRA 4/13 Geary Place North Nowra NSW 2541 Ph 024423 2063 E nowra@alsglobal.com

LIPERTH 10 Hod Way Malaga WA 6090 Ph 08 9209 7655 E samples perth@alsglobal.com DSYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph 02 8784 8555 E samples.sydney@alsglobal.com

☐TOWNSVILLE 14-15 Desma Court Bahle QLD 4818 Ph 07 4796 0600 E townsville environmental@alsglobal.com

Yes

CIWOLLONGONG 99 Kenny Street Wollongong NSW 2500 Ph 02 4225 3125 E_portkembla@alsglobal.com

Telephone - - 61 2 4014 2500

FOR LABORATORY USE ONLY (Circle)

Free Ice / frozen ice bricks present upon

Custody Seal Intact?

RCA Ref No: 12	2513e		ALS QUOTE NO.: EN/222/24				coc		ENCE NUMBER (Jircie)	Free Ice / frozen ice bricks pres eceipt? Random Sample Temperature	Yes No
PROJECT MANAGER:	Fiona Brooker	CONTACT F	H: 0408 687 5	29			OF:			10	Other comment:	(71
SAMPLER: Toll SST To	omagao	SAMPLER N	OBILE: - 0456	957 126 R	ELINQUISHED BY:	mes						RECEIVED BY: LD
COC emailed to ALS?	(NO)	EDD FORMA	AT (or default)	:	Conningham	ATTIC S						
Email Reports to: admi	inistrator@rca.com.au + enviro	@rca.com.au costonie	ane.toro				DAT	E/TIME:		DATE	TIME:	DATE/TIME: 11.8.25
Email Invoice to: as at		, ,	-	, ,	1.8.25 1:3	Opm			_			3:09
COMMENTS/SPECIAL	HANDLING/STORAGE OR D	ISPOSAL:				-						
ALS USE		PLE DETAILS DLID (S) WATER (W)		CONTAINER INFOR	RMATION						listed to attract suite price) bissolved (field filtered bottle	Additional Information
LAB ID	Sample ID	Date / Time	Matrix	Type & Preservative (refer to codes below)	Total Containers	EK055G - Ammonia	EK058G - Nitrate	EA025H - Total Suspended Solids	EP020 - Oil and Grease			Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
	SW1	11.8.25	w	Purple Glass, Purple Plastic, Green Pl	lastic 3	x	x	x	x			
	SW2	1:30pm	w	Purple Glass, Purple Plastic, Green Pl	lastic 3	x	x	х	х			
												*
			1								Newc Wor	onmental Division astle k Order Reference V2513495

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved Plastic; AP - Airfreight Unpreserved Plastic; AP - Airfreight Unpreserved Plastic; AP - Airfreight Unpreserved Plastic V = VOA Vial HCI Preserved; VB = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved, AV = Airfreight Unpreserved Vial SG = Sulfuric Preserved Plastic; HS = HCI preserved Speciation bottle; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Vial SG = Sulfuric Preserved Plastic; HS = HCI preserved Speciation bottle; SP = Sulfuric Preserved Plastic; HS = HCI preserved Plastic; HS = HCI preserved Speciation bottle; SP = Sulfuric Preserved Plastic; HS = HCI preserved Plastic; HS = HCI preserved Speciation bottle; SP = Sulfuric Preserved Plastic; HS = HCI preserved Plastic; HS = HCI preserved Speciation bottle; SP = Sulfuric Preserved Plastic; HS = HCI preserved Plastic; Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Solis; B = Unpreserved Bag.

6

2

2

2



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : EN2513495

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Newcastle

Contact : MS FIONA BROOKER Contact : Danae Hambly

Address : 92 HILL STREET Address : 5/585 Maitland Road Mayfield West

NSW Australia 2304

 Telephone
 : +61 02 4902 9200
 Telephone
 : +61 2 4014 2500

 Facsimile
 : +61 02 4902 9299
 Facsimile
 : +61 2 4967 7382

Project : 12513e Page : 1 of 3

CARRINGTON NSW 2294

Order number : ---- Quote number : EN2023ROBCAR0002 (NSW Custom

BQ 2024)

C-O-C number : --- QC Level : NEPM 2013 B3 & ALS QC Standard

Site : ----

Sampler : Toll SST Tomago

Dates

Date

Delivery Details

Mode of Delivery : Client Drop Off Security Seal

Mode of Delivery: Client Drop OffSecurity Seal: Not AvailableNo. of coolers/boxes: ---Temperature: 17.9Receipt Detail: No. of samples received / analysed: 2 / 2

General Comments

• This report contains the following information:

- Sample Container(s)/Preservation Non-Compliances
- Summary of Sample(s) and Requested Analysis
- Proactive Holding Time Report
- Requested Deliverables
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.
- Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.
- Sample Disposal Aqueous Chemistry (3 weeks), Aqueous Microbiological (1 week), Solid (2 months ± 1 week) from receipt of samples.

: 12-Aug-2025 Issue Date

Page

: 2 of 3 : EN2513495 Amendment 0 Work Order

Client : ROBERT CARR & ASSOCIATES P/L



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

• No sample container / preservation non-compliance exists.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package. If no sampling time is provided, the sampling time will nmonia as N By Discrete Analyser Suspended Solids - Standard Level default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component WATER - EP020 Oil & Grease (O&G) /ATER - EK055G /ATER - EK058G VATER - EA025H Matrix: WATER Sampling date / Sample ID Laboratory sample time EN2513495-001 11-Aug-2025 13:30 EN2513495-002 11-Aug-2025 13:30

Proactive Holding Time Report

- *AU Certificate of Analysis - NATA (COA)

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ADMINISTRATOR

- Ab Certificate of Affailysis - NATA (COA)	Liliali	auministrator@rca.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	administrator@rca.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	administrator@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	administrator@rca.com.au
- A4 - AU Tax Invoice (INV)	Email	administrator@rca.com.au
- Chain of Custody (CoC) (COC)	Email	administrator@rca.com.au
- EDI Format - ENMRG (ENMRG)	Email	administrator@rca.com.au
- EDI Format - ESDAT (ESDAT)	Email	administrator@rca.com.au
- EDI Format - XTab (XTAB)	Email	administrator@rca.com.au
ENVIRO		
- *AU Certificate of Analysis - NATA (COA)	Email	enviro@rca.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	enviro@rca.com.au
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	enviro@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	enviro@rca.com.au
- A4 - AU Tax Invoice (INV)	Email	enviro@rca.com.au
- Chain of Custody (CoC) (COC)	Email	enviro@rca.com.au
- EDI Format - ENMRG (ENMRG)	Email	enviro@rca.com.au
- EDI Format - ESDAT (ESDAT)	Email	enviro@rca.com.au
- EDI Format - XTab (XTAB)	Email	enviro@rca.com.au
Gastonjeane Forget		
 *AU Certificate of Analysis - NATA (COA) 	Email	Gastonjeane.Forget@tollgroup.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	Gastonjeane.Forget@tollgroup.com
- *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)	Email	Gastonjeane.Forget@tollgroup.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	Gastonjeane.Forget@tollgroup.com
- A4 - AU Tax Invoice (INV)	Email	Gastonjeane.Forget@tollgroup.com
- Chain of Custody (CoC) (COC)	Email	Gastonjeane.Forget@tollgroup.com
- EDI Format - ENMRG (ENMRG)	Email	Gastonjeane.Forget@tollgroup.com
- EDI Format - ESDAT (ESDAT)	Email	Gastonjeane.Forget@tollgroup.com
- EDI Format - XTab (XTAB)	Email	Gastonjeane.Forget@tollgroup.com

Email

administrator@rca.com.au

: 12-Aug-2025 Issue Date

Page

3 of 3 EN2513495 Amendment 0 Work Order

Client : ROBERT CARR & ASSOCIATES P/L



Inter-Laboratory Testing

Analysis conducted by ALS Sydney, NATA accreditation no. 825, site no. 10911 (Chemistry / Biology).

(WATER) EA025: Total Suspended Solids dried at 104 \pm 2°C

(WATER) EP020: Oil and Grease (O&G)

(WATER) EK058G: Nitrate as N by Discrete Analyser (WATER) EK057G: Nitrite as N by Discrete Analyser

(WATER) EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser

(WATER) EK055G: Ammonia as N by Discrete Analyser



CERTIFICATE OF ANALYSIS

Work Order : EN2514009

Client : ROBERT CARR & ASSOCIATES P/L

Contact : MS FIONA BROOKER

Address : PO BOX 175

CARRINGTON NSW, AUSTRALIA 2294

Telephone : +61 02 4902 9200

Project : Discharge Water Monitoring 12513e

Order number C-O-C number

Sampler : Toll SST Tomago

Site

Quote number : NSW Custom BQ 2024

No. of samples received : 2 No. of samples analysed : 2 Page : 1 of 3

Laboratory : Environmental Division Newcastle

Contact : Danae Hambly

Address : 5/585 Maitland Road Mayfield West NSW Australia 2304

Telephone : +61 2 4014 2500

Date Samples Received : 19-Aug-2025 12:06 Date Analysis Commenced

: 21-Aug-2025 Issue Date : 25-Aug-2025 15:51





Accredited for compliance with ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with **Quality Review and Sample Receipt Notification.**

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories Position Accreditation Category

Ankit Joshi Senior Chemist - Inorganics Sydney Inorganics, Smithfield, NSW Page : 2 of 3 Work Order : EN2514009

Client : ROBERT CARR & ASSOCIATES P/L
Project : Discharge Water Monitoring 12513e



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key: CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

- ^ = This result is computed from individual analyte detections at or above the level of reporting
- ø = ALS is not NATA accredited for these tests.
- ~ = Indicates an estimated value.

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	SW1	SW2	 	
		Sampli	ng date / time	19-Aug-2025 11:00	19-Aug-2025 11:00	 	
Compound	CAS Number	LOR	Unit	EN2514009-001	EN2514009-002	 	
				Result	Result	 	
EA025: Total Suspended Solids dri	ed at 104 ± 2°C						
Suspended Solids (SS)		5	mg/L	48	40	 	
EK055G: Ammonia as N by Discrete	e Analyser						
Ammonia as N	7664-41-7	0.01	mg/L	10.5	15.1	 	
EK057G: Nitrite as N by Discrete A	nalyser						
Nitrite as N	14797-65-0	0.01	mg/L	2.38	2.03	 	
EK058G: Nitrate as N by Discrete A	Analyser						
Nitrate as N	14797-55-8	0.01	mg/L	78.2	97.1	 	
EK059G: Nitrite plus Nitrate as N (I	NOx) by Discrete Ana	lyser					
Nitrite + Nitrate as N		0.01	mg/L	80.6	99.1	 	
EP020: Oil and Grease (O&G)							
Oil & Grease		5	mg/L	<5	<5	 	

Page : 3 of 3 Work Order : EN2514009

Client : ROBERT CARR & ASSOCIATES P/L
Project : Discharge Water Monitoring 12513e



Inter-Laboratory Testing

Analysis conducted by ALS Sydney, NATA accreditation no. 825, site no. 10911 (Chemistry / Biology).

(WATER) EP020: Oil and Grease (O&G)

(WATER) EA025: Total Suspended Solids dried at 104 ± 2°C (WATER) EK058G: Nitrate as N by Discrete Analyser (WATER) EK057G: Nitrite as N by Discrete Analyser

(WATER) EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser

(WATER) EK055G: Ammonia as N by Discrete Analyser



QUALITY CONTROL REPORT

Work Order : **EN2514009** Page : 1 of 3

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Newcastle

Contact : MS FIONA BROOKER Contact : Danae Hambly

Address : PO BOX 175 Address : 5/585 Maitland Road Mayfield West NSW Australia 2304

CARRINGTON NSW, AUSTRALIA 2294
one : +61 02 4902 9200

 Telephone
 : +61 02 4902 9200
 Telephone
 : +61 2 4014 2500

 Project
 : Discharge Water Monitoring 12513e
 Date Samples Received
 : 19-Aug-2025

Order number : ---- Date Analysis Commenced : 21-Aug-2025

C-O-C number : ---- Issue Date : 25-Aug-2025

Sampler : Toll SST Tomago

Site : ----

: 2

Quote number : NSW Custom BQ 2024

No. of samples analysed : 2

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall

Accreditation No. 825

Accredited for compliance with

not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

No. of samples received

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories Position Accreditation Category

Ankit Joshi Senior Chemist - Inorganics Sydney Inorganics, Smithfield, NSW

Page : 2 of 3 Work Order : EN2514009

Client : ROBERT CARR & ASSOCIATES P/L
Project : Discharge Water Monitoring 12513e



General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key: Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot

CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

RPD = Relative Percentage Difference

= Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: WATER	Sub-Matrix: WATER					Laboratory Duplicate (DUP) Report							
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)				
EA025: Total Suspen	ded Solids dried at 104 ± 2°	C (QC Lot: 6808668)											
EN2514009-001	SW1	EA025H: Suspended Solids (SS)		5	mg/L	48	48	2.1	No Limit				
ES2525619-001	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	196	204	4.3	0% - 20%				
ES2525678-006	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	17	17	0.0	No Limit				
ES2525773-009	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	84	84	0.0	0% - 50%				
EK055G: Ammonia as	s N by Discrete Analyser (C	(C Lot: 6805420)											
EN2514009-001	SW1	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	10.5	10.6	0.4	0% - 20%				
EW2504085-003	Anonymous	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	29.8	29.6	0.6	0% - 20%				
EK057G: Nitrite as N	by Discrete Analyser (QC I	Lot: 6803156)											
EN2514088-009	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit				
EN2514026-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.20	0.21	0.0	0% - 20%				
EK059G: Nitrite plus	Nitrate as N (NOx) by Disc	rete Analyser (QC Lot: 6805419)											
EN2514009-001	SW1	EK059G: Nitrite + Nitrate as N		0.01	mg/L	80.6	81.2	0.8	0% - 20%				
EW2504085-003	Anonymous	EK059G: Nitrite + Nitrate as N		0.01	mg/L	0.05	0.05	0.0	No Limit				

Page : 3 of 3 Work Order : EN2514009

Client : ROBERT CARR & ASSOCIATES P/L
Project : Discharge Water Monitoring 12513e



Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: WATER				Method Blank (MB)	Laboratory Control Spike (LCS) Report					
					Spike	Spike Recovery (%)	Acceptable	Limits (%)		
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High		
EA025: Total Suspended Solids dried at 104 ± 2°C (QCLot: 6	6808668)									
EA025H: Suspended Solids (SS)		5	mg/L	<5	150 mg/L	98.0	83.0	129		
				<5	1000 mg/L	92.8	82.0	110		
				<5	816 mg/L	105	83.0	118		
EK055G: Ammonia as N by Discrete Analyser (QCLot: 6805	420)									
EK055G: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	1 mg/L	102	90.0	114		
EK057G: Nitrite as N by Discrete Analyser (QCLot: 6803156	5)									
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	104	82.0	114		
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyse	er (QCLot: 68	305419)								
EK059G: Nitrite + Nitrate as N		0.01	mg/L	<0.01	0.5 mg/L	105	91.0	113		
EP020: Oil and Grease (O&G) (QCLot: 6806072)										
EP020: Oil & Grease		5	mg/L	<5	5000 mg/L	95.8	81.0	121		
				<5	4000 mg/L	80.2	70.0	110		

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: WATER				Ma	trix Spike (MS) Repor	t	
				Spike	SpikeRecovery(%)	Acceptable L	imits (%)
Laboratory sample ID	Sample ID	Method: Compound CAS I	Number	Concentration	MS	Low	High
EK055G: Ammonia	as N by Discrete Analyser (QCLot: 6805420)						
EN2514009-001	SW1	EK055G: Ammonia as N 7664-	4-41-7	1 mg/L	# Not	70.0	130
					Determined		
EK057G: Nitrite as	N by Discrete Analyser (QCLot: 6803156)						
EN2514026-001	Anonymous	EK057G: Nitrite as N 1479	97-65-0	0.5 mg/L	110	70.0	130
EK059G: Nitrite plu	us Nitrate as N (NOx) by Discrete Analyser (QCLot: 680	5419)					
EN2514009-001	SW1	EK059G: Nitrite + Nitrate as N		0.5 mg/L	# Not	70.0	130
					Determined		



QA/QC Compliance Assessment to assist with Quality Review

: EN2514009 **Work Order** Page : 1 of 4

: Environmental Division Newcastle Client : ROBERT CARR & ASSOCIATES P/L Laboratory

: MS FIONA BROOKER Telephone : +61 2 4014 2500 Contact **Project** : Discharge Water Monitoring 12513e **Date Samples Received** : 19-Aug-2025 **Issue Date** Site : 25-Aug-2025

Sampler : Toll SST Tomago No. of samples received

: 2 Order number No. of samples analysed : 2

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers: Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- NO Method Blank value outliers occur.
- NO Duplicate outliers occur.
- NO Laboratory Control outliers occur.
- Matrix Spike outliers exist please see following pages for full details.
- For all regular sample matrices, where applicable to the methodology, NO surrogate recovery outliers occur.

Outliers: Analysis Holding Time Compliance

• NO Analysis Holding Time Outliers exist.

Outliers: Frequency of Quality Control Samples

NO Quality Control Sample Frequency Outliers exist.

Page : 2 of 4 Work Order : EN2514009

Client : ROBERT CARR & ASSOCIATES P/L
Project : Discharge Water Monitoring 12513e

ALS

Outliers: Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: WATER

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EK055G: Ammonia as N by Discrete Analyser	EN2514009001	SW1	Ammonia as N	7664-41-7	Not		MS recovery not determined,
					Determined		background level greater than or
							equal to 4x spike level.
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Al	EN2514009001	SW1	Nitrite + Nitrate as N		Not		MS recovery not determined,
					Determined		background level greater than or
							equal to 4x spike level.

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for <u>VOC in soils</u> vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive <u>or</u> Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: WATER

Evaluation: **×** = Holding time breach; ✓ = Within holding time.

						,	
ethod		Ex	traction / Preparation		Analysis		
		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
SW2	19-Aug-2025				23-Aug-2025	26-Aug-2025	√
SW2	19-Aug-2025				22-Aug-2025	16-Sep-2025	✓
SW2	19-Aug-2025				21-Aug-2025	21-Aug-2025	✓
e Analyser							
SW2	19-Aug-2025				22-Aug-2025	16-Sep-2025	✓
20)							
SW2	19-Aug-2025				22-Aug-2025	16-Sep-2025	✓
	SW2 e Analyser SW2 20)	SW2 19-Aug-2025 SW2 19-Aug-2025 e Analyser SW2 19-Aug-2025	SW2 19-Aug-2025 SW2 19-Aug-2025 SW2 19-Aug-2025 SW2 19-Aug-2025 20)	SW2 19-Aug-2025 SW2 19-Aug-2025 SW2 19-Aug-2025 SW2 19-Aug-2025 SW2 19-Aug-2025 19-Aug-2025	SW2 19-Aug-2025 SW2 19-Aug-2025 SW2 19-Aug-2025 SW2 19-Aug-2025 e Analyser 19-Aug-2025 20) 19-Aug-2025	Date extracted Due for extraction Evaluation Date analysed SW2 19-Aug-2025 23-Aug-2025 SW2 19-Aug-2025 22-Aug-2025 SW2 19-Aug-2025 21-Aug-2025 e Analyser SW2 19-Aug-2025 22-Aug-2025	Date extracted Due for extraction Evaluation Date analysed Due for analysis SW2 19-Aug-2025 23-Aug-2025 26-Aug-2025 SW2 19-Aug-2025 22-Aug-2025 16-Sep-2025 SW2 19-Aug-2025 21-Aug-2025 21-Aug-2025 e Analyser SW2 19-Aug-2025 22-Aug-2025 16-Sep-2025

Page : 3 of 4 Work Order EN2514009

Client ROBERT CARR & ASSOCIATES P/L Discharge Water Monitoring 12513e Project



Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Motrice WATED

Matrix: WATER	Evaluation: × = Quality Control frequency not within specification; ✓ = Quality Control frequency with						
Quality Control Sample Type		С	ount		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Regular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Ammonia as N by Discrete analyser	EK055G	2	18	11.11	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	2	7	28.57	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Suspended Solids (High Level)	EA025H	4	37	10.81	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Ammonia as N by Discrete analyser	EK055G	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Oil and Grease	EP020	4	50	8.00	8.00	✓	NEPM 2013 B3 & ALS QC Standard
Suspended Solids (High Level)	EA025H	5	37	13.51	12.50	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Ammonia as N by Discrete analyser	EK055G	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Oil and Grease	EP020	3	50	6.00	6.00	✓	NEPM 2013 B3 & ALS QC Standard
Suspended Solids (High Level)	EA025H	2	37	5.41	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Ammonia as N by Discrete analyser	EK055G	1	18	5.56	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	7	14.29	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard

Page : 4 of 4 Work Order : EN2514009

Client : ROBERT CARR & ASSOCIATES P/L
Project : Discharge Water Monitoring 12513e



Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Suspended Solids (High Level)	EA025H	WATER	In house: Referenced to APHA 2540D. A gravimetric procedure employed to determine the amount of
			`non-filterable` residue in a aqueous sample. The prescribed GFC (1.2um) filter is rinsed with deionised water,
			oven dried and weighed prior to analysis. A well-mixed sample is filtered through a glass fibre filter (1.2um).
			The residue on the filter paper is dried at 104+/-2C . This method is compliant with NEPM Schedule B(3)
Ammonia as N by Discrete analyser	EK055G	WATER	In house: Referenced to APHA 4500-NH3 G Ammonia is determined by direct colorimetry by Discrete Analyser.
			This method is compliant with NEPM Schedule B(3)
Nitrite as N by Discrete Analyser	EK057G	WATER	In house: Referenced to APHA 4500-NO2- B. Nitrite is determined by direct colourimetry by Discrete Analyser.
			This method is compliant with NEPM Schedule B(3)
Nitrate as N by Discrete Analyser	EK058G	WATER	In house: Referenced to APHA 4500-NO3- F. Nitrate is reduced to nitrite by way of a chemical reduction followed
			by quantification by Discrete Analyser. Nitrite is determined seperately by direct colourimetry and result for Nitrate
			calculated as the difference between the two results. This method is compliant with NEPM Schedule B(3)
Nitrite and Nitrate as N (NOx) by Discrete	EK059G	WATER	In house: Referenced to APHA 4500-NO3- F. Combined oxidised Nitrogen (NO2+NO3) is determined by
Analyser			Chemical Reduction and direct colourimetry by Discrete Analyser. This method is compliant with NEPM
			Schedule B(3)
Oil and Grease	EP020	WATER	In house: Referenced to APHA 5520 B. Oil & grease is a gravimetric procedure to determine the amount of
			dissolved or emulsified oil & grease residue in an aqueous sample. The sample is serially extracted three times
			n-hexane. The resultant extracts are combined, dehydrated and concentrated prior to gravimetric determination.
			This method is compliant with NEPM Schedule B(3)





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Enutror	ALS	Laborator: DGLADSTOI		Drive Clinton QLD 4680	MUDGEE 27 Sydn	: samp.es.melbourne@ai ey Road Mudgee NSW 2 mudgee.mail@afsglobal.	850		PERTH 10 Hod	E: nowra@alsglobal.cor Nay Malaga WA 6090 E: samples perth@alsgl		□WOLLONGONG	E: townsville.environmental@alsglobat.com 99 Kenny Street Wollongong NSW 2500 E: portkembla@alsglobal.com
CLIENT:	RCA Australia			JND REQUIREMENTS:	☐ Stand	lard TAT (List due d	iate):					FOR LABORATORY USE	ONLY (Circle)
OFFICE:	92 Hill Street, Carringto	on	(Standard TAT Trace Organics	may be longer for some tests e.g., Ultra								Custody Seal Intact?	Yes No N/
RCA Ref No:	12513e		ALS QUOTE	E NO.;	EN/222/24				COC SEQL	ENCE NUMBER (ircle)	Free ice / frozen ice bricks prese receipt?	entupon Yes No N/
						-		coc	: 1			Random Sample Temperature of	on Receipt: 17-7 °C
PROJECT MANA	AGER: Fiona Brooker	CONTACT	PH: 0408 687 5	529				OF:	1			Other comment:	
SAMPLER: Toll	SST Tomagao	SAMPLER	MOBILE: - O	475722538	RELINQUI	ISHED BY: Ja	mes	REC	EIVED BY:		REL	INQUISHED BY:	RECEIVED BY: L . D
COC emailed to	ALS? (NO)	EDD FORM	IAT (or default):	Cum	niooloom	3						
Email Reports to	o: administrator@rca.com.au	+ enviro@rca.com.auopstonje	eane force	aet@tollaroup.com	DATE/TIM	ringham		DAT	Е/ТІМЕ:		DAT	TE/TIME:	DATE/TIME: 19.8.75
Email Invoice to		3 4		, - , ,	19.8.	25 Ila	m						12:06
COMMENTS/SP	ECIAL HANDLING/STORAG	E OR DISPOSAL:											
ALS USE	MAT	SAMPLE DETAILS TRIX: SOLID (S) WATER (W)		CONTAINER IN	FORMATION		ANALY: Where Me	SIS REQUII	RED including quired, specify	SUITES (NB, Suite Total (unfiltered bottl required).	Codes must e required) o	be listed to attract suite price) r Dissolved (field filtered bottle	Additional Information
LAB ID	Sample ID	Date / Time	Matrix	Type & Preservative (refer to codes below)		Total Containers	EK055G - Ammonia	EK058G - Nitrate	EA025H - Total Suspended Solids	EP020 - Oll and Grease			Comments on likely contaminant levels, dilutions, or samples requiring specific QC analysis etc.
	SW1	19.8.25	w	Purple Glass, Purple Plastic, Gre	en Plastic	3	x	x	х	x			
	SW2	llam	w	Purple Glass, Purple Plastic, Gre	en Plastic	3	х	×	х	x			

Environmental Division Newcastle Work Order Reference EN2514009



Telephone: -61 2 4014 2500

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved Plastic; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved; AB = Amber Glass Unpreserved; AP - Airfreight Unpreserved Plastic; N = Nitric Preserved Plastic; N = Nitric Preserved Plastic; N = Nitric Preserved Plastic; N = Nitric Preserved; N = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sodium Bisulphate Preserved Plastic; F = Formaldehyde Preserved Glass; N = HCl preserved Plastic; HS = HCl preserved Plastic; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; N = HCl preserved Blastic; HS = HCl preserved Plastic; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; N = HCl preserved Plastic; HS = HCl preserved Plastic; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; N = HCl preserved Plastic; HS = HCl preserved Plastic; HS = HCl preserved Plastic; SP = Sulfuric Preserved Plastic; F = Formaldehyde Preserved Glass; N = HCl preserved Plastic; HS = HCl pr

2

2

2

2



SAMPLE RECEIPT NOTIFICATION (SRN)

: EN2514009 Work Order

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Newcastle

Contact : MS FIONA BROOKER Contact

CARRINGTON NSW, AUSTRALIA 2294

Address : PO BOX 175 Address : 5/585 Maitland Road Mayfield West

NSW Australia 2304

E-mail E-mail : fionab@rca.com.au

Telephone Telephone : +61 2 4014 2500 : +61 02 4902 9200 Facsimile **Facsimile** : +61 02 4902 9299 : +61 2 4967 7382

Project : Discharge Water Monitoring 12513e Page : 1 of 3

Order number Quote number : NEPM 2013 B3 & ALS QC Standard

C-O-C number QC Level

Sampler : Toll SST Tomago

Dates

Date Samples Received Issue Date : 19-Aug-2025 12:06 : 19-Aug-2025 Scheduled Reporting Date : 26-Aug-2025 Client Requested Due 26-Aug-2025

Date

Delivery Details

Mode of Delivery Security Seal Undefined : Not Available

No of coolers/hoxes Temperature Receipt Detail No. of samples received / analysed : 2/2

General Comments

This report contains the following information:

- Sample Container(s)/Preservation Non-Compliances
- Summary of Sample(s) and Requested Analysis
- Proactive Holding Time Report
- Requested Deliverables
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.
- Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.
- Sample Disposal Aqueous Chemistry (3 weeks), Aqueous Microbiological (1 week), Solid (2 months ± 1 week) from receipt of samples.

: 19-Aug-2025 Issue Date

Page

: 2 of 3 : EN2514009 Amendment 0 Work Order

Client : ROBERT CARR & ASSOCIATES P/L



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

• No sample container / preservation non-compliance exists.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package. If no sampling time is provided, the sampling time will nmonia as N By Discrete Analyser Suspended Solids - Standard Level default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the laboratory and displayed in brackets without a time component WATER - EP020 Oil & Grease (O&G) /ATER - EK055G /ATER - EK058G VATER - EA025H Matrix: WATER Sampling date / Sample ID Laboratory sample time EN2514009-001 19-Aug-2025 11:00 EN2514009-002 19-Aug-2025 11:00

Proactive Holding Time Report

- *AU Certificate of Analysis - NATA (COA)

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ALL INVOICES

· · · · · · · · · · · · · · · · · · ·		9
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	administrator@rca.com.au
 *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) 	Email	administrator@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	administrator@rca.com.au
- A4 - AU Tax Invoice (INV)	Email	administrator@rca.com.au
- Chain of Custody (CoC) (COC)	Email	administrator@rca.com.au
- EDI Format - ENMRG (ENMRG)	Email	administrator@rca.com.au
- EDI Format - ESDAT (ESDAT)	Email	administrator@rca.com.au
- EDI Format - XTab (XTAB)	Email	administrator@rca.com.au
ENVIRO		
 *AU Certificate of Analysis - NATA (COA) 	Email	enviro@rca.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	enviro@rca.com.au
 *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) 	Email	enviro@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	enviro@rca.com.au
- A4 - AU Tax Invoice (INV)	Email	enviro@rca.com.au
- Chain of Custody (CoC) (COC)	Email	enviro@rca.com.au
- EDI Format - ENMRG (ENMRG)	Email	enviro@rca.com.au
- EDI Format - ESDAT (ESDAT)	Email	enviro@rca.com.au
- EDI Format - XTab (XTAB)	Email	enviro@rca.com.au
Gastonjeane Forget		
 *AU Certificate of Analysis - NATA (COA) 	Email	Gastonjeane.Forget@tollgroup.com
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	Gastonjeane.Forget@tollgroup.com
 *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) 	Email	Gastonjeane.Forget@tollgroup.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	Gastonjeane.Forget@tollgroup.com
- A4 - AU Tax Invoice (INV)	Email	Gastonjeane.Forget@tollgroup.com
- Chain of Custody (CoC) (COC)	Email	Gastonjeane.Forget@tollgroup.com
- EDI Format - ENMRG (ENMRG)	Email	Gastonjeane.Forget@tollgroup.com
- EDI Format - ESDAT (ESDAT)	Email	Gastonjeane.Forget@tollgroup.com
- EDI Format - XTab (XTAB)	Email	Gastonjeane.Forget@tollgroup.com

Email

administrator@rca.com.au

: 19-Aug-2025 Issue Date

Page

3 of 3 EN2514009 Amendment 0 Work Order

Client : ROBERT CARR & ASSOCIATES P/L



Inter-Laboratory Testing

Analysis conducted by ALS Sydney, NATA accreditation no. 825, site no. 10911 (Chemistry / Biology).

(WATER) EP020: Oil and Grease (O&G)

(WATER) EA025: Total Suspended Solids dried at 104 ± 2°C (WATER) EK058G: Nitrate as N by Discrete Analyser (WATER) EK057G: Nitrite as N by Discrete Analyser

(WATER) EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser

(WATER) EK055G: Ammonia as N by Discrete Analyser



CERTIFICATE OF ANALYSIS

Work Order : EN2514220

Client : ROBERT CARR & ASSOCIATES P/L

Contact : MS FIONA BROOKER

Address : 92 HILL STREET

CARRINGTON NSW 2294

Telephone : +61 02 4902 9200

Project : 12513e

Order number : ---C-O-C number : ----

Sampler : Toll SST Tomago

Site : ----

Quote number : ---
No. of samples received : 2

No. of samples analysed : 2

Page : 1 of 3

Laboratory : Environmental Division Newcastle

Contact :

Address : 5/585 Maitland Road Mayfield West NSW Australia 2304

Telephone : +61 2 4014 2500

Date Samples Received : 21-Aug-2025 11:40

Date Analysis Commenced : 22-Aug-2025

Issue Date : 28-Aug-2025 10:56





Accreditation No. 825
Accredited for compliance with
ISO/IEC 17025 - Testing

This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories Position Accreditation Category

Ankit Joshi Senior Chemist - Inorganics Sydney Inorganics, Smithfield, NSW

Page : 2 of 3 Work Order : EN2514220

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis.

Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contract for details.

Key: CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

- ^ = This result is computed from individual analyte detections at or above the level of reporting
- ø = ALS is not NATA accredited for these tests.
- ~ = Indicates an estimated value.

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)			Sample ID	SW1	SW2	 	
(Matrix. WATER)		Sampli	ng date / time	21-Aug-2025 10:00	21-Aug-2025 10:00	 	
Compound	CAS Number	LOR	Unit	EN2514220-001	EN2514220-002	 	
Compound	CAS Number	2071	O'III				
				Result	Result	 	
EA025: Total Suspended Solids dried	l at 104 ± 2°C						
Suspended Solids (SS)		5	mg/L	911	134	 	
EK055G: Ammonia as N by Discrete	Analyser						
Ammonia as N	7664-41-7	0.01	mg/L	5.70	12.1	 	
EK057G: Nitrite as N by Discrete Ana	alyser						
Nitrite as N	14797-65-0	0.01	mg/L	0.56	1.44	 	
EK058G: Nitrate as N by Discrete An	alyser						
Nitrate as N	14797-55-8	0.01	mg/L	30.5	84.3	 	
EK059G: Nitrite plus Nitrate as N (NC	0x) by Discrete Ana	lyser					
Nitrite + Nitrate as N		0.01	mg/L	31.1	85.7	 	
EP020: Oil and Grease (O&G)							
Oil & Grease		5	mg/L	26	13	 	



Page : 3 of 3 Work Order : EN2514220

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513

Inter-Laboratory Testing

Analysis conducted by ALS Sydney, NATA accreditation no. 825, site no. 10911 (Chemistry / Biology).

(WATER) EP020: Oil and Grease (O&G)

(WATER) EK058G: Nitrate as N by Discrete Analyser (WATER) EK057G: Nitrite as N by Discrete Analyser

(WATER) EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser

(WATER) EK055G: Ammonia as N by Discrete Analyser (WATER) EA025: Total Suspended Solids dried at 104 \pm 2°C





QUALITY CONTROL REPORT

Work Order : **EN2514220**

Client : ROBERT CARR & ASSOCIATES P/L

Contact : MS FIONA BROOKER

Address : 92 HILL STREET

CARRINGTON NSW 2294

Telephone : +61 02 4902 9200

Project : 12513e
Order number : ----

C-O-C number : ----

Sampler : Toll SST Tomago

Site : ---Quote number : ---No. of samples received : 2
No. of samples analysed : 2

Page : 1 of 3

Laboratory : Environmental Division Newcastle

Contact

Address : 5/585 Maitland Road Mayfield West NSW Australia 2304

Telephone : +61 2 4014 2500

Date Samples Received : 21-Aug-2025

Date Analysis Commenced : 22-Aug-2025

Issue Date : 28-Aug-2025



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted, unless the sampling was conducted by ALS. This document shall not be reproduced, except in full.

This Quality Control Report contains the following information:

- Laboratory Duplicate (DUP) Report; Relative Percentage Difference (RPD) and Acceptance Limits
- Method Blank (MB) and Laboratory Control Spike (LCS) Report; Recovery and Acceptance Limits
- Matrix Spike (MS) Report; Recovery and Acceptance Limits

Signatories

This document has been electronically signed by the authorized signatories below. Electronic signing is carried out in compliance with procedures specified in 21 CFR Part 11.

Signatories Position Accreditation Category

Ankit Joshi Senior Chemist - Inorganics Sydney Inorganics, Smithfield, NSW

Page : 2 of 3 Work Order : EN2514220

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

General Comments

The analytical procedures used by ALS have been developed from established internationally recognised procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are fully validated and are often at the client request.

Where moisture determination has been performed, results are reported on a dry weight basis.

Where a reported less than (<) result is higher than the LOR, this may be due to primary sample extract/digestate dilution and/or insufficient sample for analysis. Where the LOR of a reported result differs from standard LOR, this may be due to high moisture content, insufficient sample (reduced weight employed) or matrix interference.

Key: Anonymous = Refers to samples which are not specifically part of this work order but formed part of the QC process lot

CAS Number = CAS registry number from database maintained by Chemical Abstracts Services. The Chemical Abstracts Service is a division of the American Chemical Society.

LOR = Limit of reporting

RPD = Relative Percentage Difference

= Indicates failed QC

Laboratory Duplicate (DUP) Report

The quality control term Laboratory Duplicate refers to a randomly selected intralaboratory split. Laboratory duplicates provide information regarding method precision and sample heterogeneity. The permitted ranges for the Relative Percent Deviation (RPD) of Laboratory Duplicates are specified in ALS Method QWI-EN/38 and are dependent on the magnitude of results in comparison to the level of reporting: Result < 10 times LOR: No Limit; Result between 10 and 20 times LOR: 0% - 50%; Result > 20 times LOR: 0% - 20%.

Sub-Matrix: WATER	Sub-Matrix: WATER					Laboratory Duplicate (DUP) Report							
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)				
EA025: Total Suspen	ded Solids dried at 104 ± 2°												
EN2514220-001	SW1	EA025H: Suspended Solids (SS)		5	mg/L	911	894	1.9	0% - 20%				
ES2526168-002	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	<5	<5	0.0	No Limit				
ES2526279-001	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	31	31	0.0	No Limit				
EW2504170-006	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	<5	<5	0.0	No Limit				
EK055G: Ammonia a	s N by Discrete Analyser (C	(C Lot: 6814728)											
EN2514220-001	SW1	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	5.70	5.84	2.4	0% - 20%				
ES2525996-004	Anonymous	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	0.02	0.02	0.0	No Limit				
EK057G: Nitrite as N	by Discrete Analyser (QC	Lot: 6808576)											
EN2514273-004	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit				
EN2514273-013	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit				
EK059G: Nitrite plus	Nitrate as N (NOx) by Disc	rete Analyser (QC Lot: 6814729)											
EN2514220-001	SW1	EK059G: Nitrite + Nitrate as N		0.01	mg/L	31.1	31.0	0.3	0% - 20%				
ES2525996-004	Anonymous	EK059G: Nitrite + Nitrate as N		0.01	mg/L	0.03	0.03	0.0	No Limit				

Page : 3 of 3 Work Order : EN2514220

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e



Method Blank (MB) and Laboratory Control Sample (LCS) Report

The quality control term Method / Laboratory Blank refers to an analyte free matrix to which all reagents are added in the same volumes or proportions as used in standard sample preparation. The purpose of this QC parameter is to monitor potential laboratory contamination. The quality control term Laboratory Control Sample (LCS) refers to a certified reference material, or a known interference free matrix spiked with target analytes. The purpose of this QC parameter is to monitor method precision and accuracy independent of sample matrix. Dynamic Recovery Limits are based on statistical evaluation of processed LCS.

Sub-Matrix: WATER				Method Blank (MB)		Laboratory Control Spike (LC	S) Report	
				Report	Spike	Spike Recovery (%)	Acceptable	Limits (%)
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EA025: Total Suspended Solids dried at 104 ± 2°C (QCLot: 6	813171)							
EA025H: Suspended Solids (SS)		5	mg/L	<5	150 mg/L	94.0	83.0	129
				<5	1000 mg/L	91.2	82.0	110
				<5	816 mg/L	98.4	83.0	118
EK055G: Ammonia as N by Discrete Analyser (QCLot: 68147	28)							
EK055G: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	105	90.0	114
EK057G: Nitrite as N by Discrete Analyser (QCLot: 6808576)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	105	82.0	114
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyse	r (QCLot: 68	814729)						
EK059G: Nitrite + Nitrate as N		0.01	mg/L	<0.01	0.5 mg/L	103	91.0	113
EP020: Oil and Grease (O&G) (QCLot: 6815414)								
EP020: Oil & Grease		5	mg/L	<5	5000 mg/L	92.7	81.0	121
				<5	4000 mg/L	77.0	70.0	110

Matrix Spike (MS) Report

The quality control term Matrix Spike (MS) refers to an intralaboratory split sample spiked with a representative set of target analytes. The purpose of this QC parameter is to monitor potential matrix effects on analyte recoveries. Static Recovery Limits as per laboratory Data Quality Objectives (DQOs). Ideal recovery ranges stated may be waived in the event of sample matrix interference.

Sub-Matrix: WATER	Sub-Matrix: WATER					t	
				Spike	SpikeRecovery(%)	Acceptable L	imits (%)
Laboratory sample ID	Sample ID	Method: Compound CAS N	Number (Concentration	MS	Low	High
EK055G: Ammonia	as N by Discrete Analyser (QCLot: 6814728)						
EN2514220-001	SW1	EK055G: Ammonia as N 7664-4	-41-7	0.5 mg/L	# Not	70.0	130
					Determined		
EK057G: Nitrite as	N by Discrete Analyser (QCLot: 6808576)						
EN2514273-004	Anonymous	EK057G: Nitrite as N 14797	7-65-0	0.5 mg/L	112	70.0	130
EK059G: Nitrite plu	ıs Nitrate as N (NOx) by Discrete Analyser (QCLot: 681	4729)					
EN2514220-001	SW1	EK059G: Nitrite + Nitrate as N		0.5 mg/L	# Not	70.0	130
					Determined		



QA/QC Compliance Assessment to assist with Quality Review

Work Order : **EN2514220** Page : 1 of 5

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Newcastle

 Contact
 : MS FIONA BROOKER
 Telephone
 : +61 2 4014 2500

 Project
 : 12513e
 Date Samples Received
 : 21-Aug-2025

 Site
 : -- Issue Date
 : 28-Aug-2025

Sampler : Toll SST Tomago No. of samples received : 2
Order number : ---- No. of samples analysed : 2

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers: Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- NO Method Blank value outliers occur.
- NO Duplicate outliers occur.
- NO Laboratory Control outliers occur.
- Matrix Spike outliers exist please see following pages for full details.
- For all regular sample matrices, where applicable to the methodology, NO surrogate recovery outliers occur.

Outliers: Analysis Holding Time Compliance

• Analysis Holding Time Outliers exist - please see following pages for full details.

Outliers: Frequency of Quality Control Samples

NO Quality Control Sample Frequency Outliers exist.

Page : 2 of 5 Work Order : EN2514220

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e

Outliers: Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: WATER

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
EK055G: Ammonia as N by Discrete Analyser	EN2514220001	SW1	Ammonia as N	7664-41-7	Not		MS recovery not determined,
					Determined		background level greater than or
							equal to 4x spike level.
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete A	EN2514220001	SW1	Nitrite + Nitrate as N		Not		MS recovery not determined,
					Determined		background level greater than or
							equal to 4x spike level.

Outliers: Analysis Holding Time Compliance

Matrix: WATER

Method	E)	xtraction / Preparation		Analysis		
Container / Client Sample ID(s)	Date extracted	Due for extraction	Days	Date analysed	Due for analysis	Days
			overdue			overdue
EK057G: Nitrite as N by Discrete Analyser						
Clear Plastic Bottle - Natural						
SW1, SW2				24-Aug-2025	23-Aug-2025	1

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for <u>VOC in soils</u> vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive or Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: WATER

Evaluation: **×** = Holding time breach ; ✓ = Within holding time.

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Method		Sample Date	E.	xtraction / Preparation			Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA025: Total Suspended Solids dried at 104 ± 2°C								
Clear Plastic Bottle - Natural (EA025H)								
SW1,	SW2	21-Aug-2025				26-Aug-2025	28-Aug-2025	✓
EK055G: Ammonia as N by Discrete Analyser								
Clear Plastic Bottle - Sulfuric Acid (EK055G)								
SW1,	SW2	21-Aug-2025				27-Aug-2025	18-Sep-2025	✓
EK057G: Nitrite as N by Discrete Analyser								
Clear Plastic Bottle - Natural (EK057G)								
SW1,	SW2	21-Aug-2025				24-Aug-2025	23-Aug-2025	×
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete	Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK059G)								
SW1,	SW2	21-Aug-2025				27-Aug-2025	18-Sep-2025	✓

Page : 3 of 5
Work Order : EN2514220

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e



Matrix:	WATER				Evaluation	: × = Holding time	breach; ✓ = Withi	n holding time.
Method	Method		Extraction / Preparation			Analysis		
Conta	iner / Client Sample ID(s)		Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP020	: Oil and Grease (O&G)							
Amber	Jar - Sulfuric Acid or Sodium Bisulfate (EP020)							
SW ²	, SW2	21-Aug-2025				27-Aug-2025	18-Sep-2025	✓

Page : 4 of 5 Work Order EN2514220

Client ROBERT CARR & ASSOCIATES P/L

Project : 12513e



Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: WATER	Evaluation: x = Quality Control frequency not within specification; ✓ = Quality Control frequency within								
Quality Control Sample Type		Co	ount		Rate (%)		Quality Control Specification		
Analytical Methods	Method	QC	Reaular	Actual	Expected	Evaluation			
Laboratory Duplicates (DUP)									
Ammonia as N by Discrete analyser	EK055G	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	2	19	10.53	10.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite as N by Discrete Analyser	EK057G	2	13	15.38	10.00	✓	NEPM 2013 B3 & ALS QC Standard		
Suspended Solids (High Level)	EA025H	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard		
Laboratory Control Samples (LCS)									
Ammonia as N by Discrete analyser	EK055G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite as N by Discrete Analyser	EK057G	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Oil and Grease	EP020	4	41	9.76	8.00	✓	NEPM 2013 B3 & ALS QC Standard		
Suspended Solids (High Level)	EA025H	5	40	12.50	12.50	✓	NEPM 2013 B3 & ALS QC Standard		
Method Blanks (MB)									
Ammonia as N by Discrete analyser	EK055G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite as N by Discrete Analyser	EK057G	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Oil and Grease	EP020	3	41	7.32	6.00	✓	NEPM 2013 B3 & ALS QC Standard		
Suspended Solids (High Level)	EA025H	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Matrix Spikes (MS)									
Ammonia as N by Discrete analyser	EK055G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	19	5.26	5.00	✓	NEPM 2013 B3 & ALS QC Standard		
Nitrite as N by Discrete Analyser	EK057G	1	13	7.69	5.00	✓	NEPM 2013 B3 & ALS QC Standard		

Page : 5 of 5 Work Order : EN2514220

Client : ROBERT CARR & ASSOCIATES P/L

Project : 12513e Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Suspended Solids (High Level)	EA025H	WATER	In house: Referenced to APHA 2540D. A gravimetric procedure employed to determine the amount of
			`non-filterable` residue in a aqueous sample. The prescribed GFC (1.2um) filter is rinsed with deionised water,
			oven dried and weighed prior to analysis. A well-mixed sample is filtered through a glass fibre filter (1.2um).
			The residue on the filter paper is dried at 104+/-2C . This method is compliant with NEPM Schedule B(3)
Ammonia as N by Discrete analyser	EK055G	WATER	In house: Referenced to APHA 4500-NH3 G Ammonia is determined by direct colorimetry by Discrete Analyser.
			This method is compliant with NEPM Schedule B(3)
Nitrite as N by Discrete Analyser	EK057G	WATER	In house: Referenced to APHA 4500-NO2- B. Nitrite is determined by direct colourimetry by Discrete Analyser.
			This method is compliant with NEPM Schedule B(3)
Nitrate as N by Discrete Analyser	EK058G	WATER	In house: Referenced to APHA 4500-NO3- F. Nitrate is reduced to nitrite by way of a chemical reduction followed
			by quantification by Discrete Analyser. Nitrite is determined seperately by direct colourimetry and result for Nitrate
			calculated as the difference between the two results. This method is compliant with NEPM Schedule B(3)
Nitrite and Nitrate as N (NOx) by Discrete	EK059G	WATER	In house: Referenced to APHA 4500-NO3- F. Combined oxidised Nitrogen (NO2+NO3) is determined by
Analyser			Chemical Reduction and direct colourimetry by Discrete Analyser. This method is compliant with NEPM
			Schedule B(3)
Oil and Grease	EP020	WATER	In house: Referenced to APHA 5520 B. Oil & grease is a gravimetric procedure to determine the amount of
			dissolved or emulsified oil & grease residue in an aqueous sample. The sample is serially extracted three times
			n-hexane. The resultant extracts are combined, dehydrated and concentrated prior to gravimetric determination.
			This method is compliant with NEPM Schedule B(3)



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CHAIN OF CUSTODY

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Ph 07 4796 0600 E: townsville environmental@atsglobal.com

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LIENT:	RCA Australia			In the second second		☐ Standard TAT (List due date):						FOR LABORATORY U	SE ONLY	
FFICE: 92 Hill Street, Carrington				(Standard TAT may be longer for some tests e.g., Ultra Trace Organics)								Custody Seal Intect? Free Ice / today lice bricks		Yes No NA
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OMMENTS/SP	ECIAL HANDLING/ST	ORAGE OR DISPOS	AL:											
ALS USE								YSIS REQUIRED including SUITES (NB. Suite Codes mus Metals are required, specify Total (unfiltered bottle required) required).						Additional Information
LAB ID	Samp	pie ID	Date / Time	Matrix	Type & Preservative (refer to codes below)	Total Containers	EK055G - Ammonía	EK058G - Nitrate	EA025H - Total Suspended Solids	EP020 - Oll and Grease			diluti	nments on likely contaminant levels, ions, or samples requiring specific QC lysis etc.

LAB ID	Sample ID	Date / Time	Matrix	Type & Preservative (refer to codes below)	Total Containers	EK055G - Ammonía	EK058G - Nitrate	EA025H - Total Suspended Solids	EP020 - Oil and Grease			
	SW1	21.8.75	w	Purple Glass, Purple Plastic, Green Plastic	3	x	x	x	x			
	SW2	10am	w	Purple Glass, Purple Plastic, Green Plastic	3	x	x	х	x			
							¥			-		
				W.								
	STATE OF STREET		410	TOTA	6	2	2	2	2		1	

Environmental Division Newcastle

Work Order Reference
EN2514220



Telephone: +61 2 4014 2500



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : EN2514220

Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Newcastle

Contact : MS FIONA BROOKER Contact

CARRINGTON NSW 2294

Address : 92 HILL STREET Address : 5/585 Maitland Road Mayfield West

NSW Australia 2304

E-mail : fionab@rca.com.au E-mail

Telephone : +61 02 4902 9200 Telephone : +61 2 4014 2500 Facsimile : +61 02 4902 9299 Facsimile : +61 2 4967 7382

 Project
 : 12513e
 Page
 : 1 of 3

 Order number
 : --- Quote number
 : ---

C-O-C number : ---- QC Level : NEPM 2013 B3 & ALS QC Standard

Site : ----

Sampler : Toll SST Tomago

Client Requested Due : 28-Aug-2025 Scheduled Reporting Date : 28-Aug-2025

Delivery Details

Date

Mode of Delivery : Client Drop Off Security Seal : Not Available

No. of coolers/boxes : ---- Temperature : 13.7 - Ice Bricks present

Receipt Detail : No. of samples received / analysed : 2 / 2

General Comments

This report contains the following information:

- Sample Container(s)/Preservation Non-Compliances
- Summary of Sample(s) and Requested Analysis
- Proactive Holding Time Report
- Requested Deliverables
- Please be aware that APHA/NEPM recommends water and soil samples be chilled to less than or equal to 6°C for chemical analysis, and less than or equal to 10°C but unfrozen for Microbiological analysis. Where samples are received above this temperature, it should be taken into consideration when interpreting results. Refer to ALS EnviroMail 85 for ALS recommendations of the best practice for chilling samples after sampling and for maintaining a cool temperature during transit.
- Please refer to the Proactive Holding Time Report table below which summarises breaches of recommended holding times that have occurred prior to samples/instructions being received at the laboratory. The laboratory will process these samples unless instructions are received from you indicating you do not wish to proceed. The absence of this summary table indicates that all samples have been received within the recommended holding times for the analysis requested.
- Sample Disposal Aqueous Chemistry (3 weeks), Aqueous Microbiological (1 week), Solid (2 months ± 1 week) from receipt of samples.

Issue Date 21-Aug-2025

Page

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Client : ROBERT CARR & ASSOCIATES P/L



Sample Container(s)/Preservation Non-Compliances

All comparisons are made against pretreatment/preservation AS, APHA, USEPA standards.

• No sample container / preservation non-compliance exists.

Summary of Sample(s) and Requested Analysis

Some items described below may be part of a laboratory process necessary for the execution of client requested tasks. Packages may contain additional analyses, such as the determination of moisture content and preparation tasks, that are included in the package. If no sampling time is provided, the sampling time will Suspended Solids - Standard Level default 00:00 on the date of sampling. If no sampling date is provided, the sampling date will be assumed by the nmonia as N By Discrete laboratory and displayed in brackets without a time component WATER - EP020 Oil & Grease (O&G) /ATER - EK055G /ATER - EK058G VATER - EA025H Matrix: WATER Laboratory sample Sampling date / Sample ID time EN2514220-001 21-Aug-2025 10:00 EN2514220-002 21-Aug-2025 10:00

Proactive Holding Time Report

Sample(s) have been received within the recommended holding times for the requested analysis.

Requested Deliverables

ALL INVOICES

- *AU Certificate of Analysis - NATA (COA)	Email	administrator@rca.com.au
 *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) 	Email	administrator@rca.com.au
 *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) 	Email	administrator@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	administrator@rca.com.au
- A4 - AU Tax Invoice (INV)	Email	administrator@rca.com.au
- Chain of Custody (CoC) (COC)	Email	administrator@rca.com.au
- EDI Format - ENMRG (ENMRG)	Email	administrator@rca.com.au
- EDI Format - ESDAT (ESDAT)	Email	administrator@rca.com.au
- EDI Format - XTab (XTAB)	Email	administrator@rca.com.au
ENVIRO		
 *AU Certificate of Analysis - NATA (COA) 	Email	enviro@rca.com.au
 *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) 	Email	enviro@rca.com.au
 *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) 	Email	enviro@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	enviro@rca.com.au
- A4 - AU Tax Invoice (INV)	Email	enviro@rca.com.au
- Chain of Custody (CoC) (COC)	Email	enviro@rca.com.au
- EDI Format - ENMRG (ENMRG)	Email	enviro@rca.com.au
- EDI Format - ESDAT (ESDAT)	Email	enviro@rca.com.au
- EDI Format - XTab (XTAB)	Email	enviro@rca.com.au
Gastonjeane Forget		
 *AU Certificate of Analysis - NATA (COA) 	Email	Gastonjeane.Forget@tollgroup.com
 *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI) 	Email	Gastonjeane.Forget@tollgroup.com
 *AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC) 	Email	Gastonjeane.Forget@tollgroup.com
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	Gastonjeane.Forget@tollgroup.com
- A4 - AU Tax Invoice (INV)	Email	Gastonjeane.Forget@tollgroup.com
- Chain of Custody (CoC) (COC)	Email	Gastonjeane.Forget@tollgroup.com
- EDI Format - ENMRG (ENMRG)	Email	Gastonjeane.Forget@tollgroup.com
- EDI Format - ESDAT (ESDAT)	Email	Gastonjeane.Forget@tollgroup.com
- EDI Format - XTab (XTAB)	Email	Gastonjeane.Forget@tollgroup.com

Issue Date : 21-Aug-2025

Page

3 of 3 EN2514220 Amendment 0 Work Order

Client : ROBERT CARR & ASSOCIATES P/L



Inter-Laboratory Testing

Analysis conducted by ALS Sydney, NATA accreditation no. 825, site no. 10911 (Chemistry / Biology).

(WATER) EP020: Oil and Grease (O&G)

(WATER) EK058G: Nitrate as N by Discrete Analyser (WATER) EK057G: Nitrite as N by Discrete Analyser

(WATER) EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser

(WATER) EK055G: Ammonia as N by Discrete Analyser (WATER) EA025: Total Suspended Solids dried at 104 \pm 2°C