Sample Identification		Aquatic Ecosystem Guideline ^A	SW1	SW2		
Rainfall (mm) in preceding 24hours ^B	s ^B PQL 95% Fresh		29	9.8		
Time of Sample Collection			9:00	9:00		
Date of Sample Collection			8/01	/2025		
	Cloudy, no colour, no odour	Cloudy sediment, light brown, minimal odour				
Laborat	tory Re	eport Reference				
	S	ample Purpose	EPL Compliance			
	Sam	ple collected by	Т	oll		
Ammonia as N	0.01	0.9	1.14	175		
Nitrate ^C	0.01	0.04	21.1	332		
Oil and Grease	5		<5	<5		
Total Suspended Solds	5		34	71		

All results are in units of mg/L

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 7th January to 9am 8th January.

^C Guidelines for Lowland (Coastal) Rivers in NSW

Results shown in **BOLD** are in excess of the guidelines

Sample Identification		Aquatic Ecosystem Guideline ^A	SW1	SW2		
Rainfall (mm) in preceding 24hours ^B	B PQL 95% Fresh		0	.0		
Time of Sample Collection			6:00	6:00		
Date of Sample Collection			15/01	/2025		
	Cloudy, dirty, little to no odour	Cloudy, dirty, little to no odour				
Laborat	ory Re	eport Reference				
	S	ample Purpose	EPL Compliance			
	Sam	ple collected by	Toll			
Ammonia as N	0.01	0.9	73.2	0.54		
Nitrate ^C	0.01	0.04	134.0	7.83		
Oil and Grease	5		8	<5		
Total Suspended Solds	5		121	510		

All results are in units of mg/L

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 14th January to 6am 15th January. It is noted that no rainfall was recorded since 9am 13th January

^C Guidelines for Lowland (Coastal) Rivers in NSW

Results shown in **BOLD** are in excess of the guidelines

Sample Identification		Aquatic Ecosystem Guideline ^A	SW1	SW2		
Rainfall (mm) in preceding 24hours ^B	B PQL 95% Fresh		2	1.4		
Time of Sample Collection			7:00	7:00		
Date of Sample Collection			17/01	/2025		
	Cloudy, dirty, little to no odour	Cloudy, dirty, little to no odour				
Laborat	ory Re	eport Reference				
	S	ample Purpose	EPL Compliance			
	Sam	ple collected by	Т	oll		
Ammonia as N	0.01	0.9	124	0.86		
Nitrate ^C	0.01	0.04	226.0	6.59		
Oil and Grease	5		<5	<5		
Total Suspended Solds	5		4840	59		

All results are in units of mg/L

Blank Cell indicates no criterion available

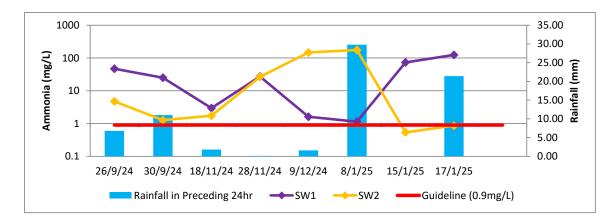
PQL = Practical Quantitation Limit.

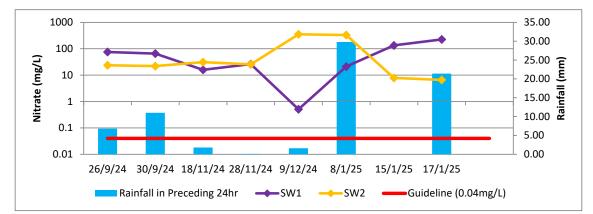
 $^{\rm A}~$ % Protection Level for Receiving Water Type.

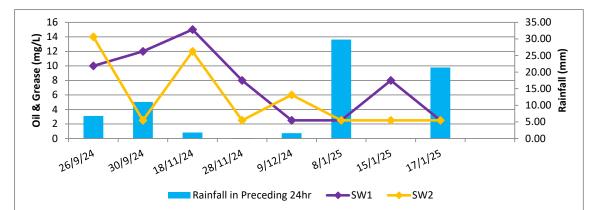
^B Based on BOM Williamtown data from 7am 16th January to 7am 17th January.

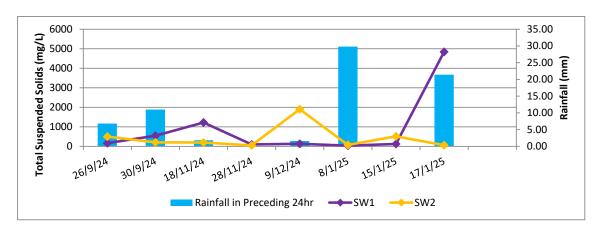
^C Guidelines for Lowland (Coastal) Rivers in NSW

Results shown in **BOLD** are in excess of the guidelines











CERTIFICATE OF ANALYSIS Page Work Order : EN2500268 : 1 of 3 Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Newcastle Contact : ADMIN ADMINISTRATOR Contact Address Address : 5/585 Maitland Road Mayfield West NSW Australia 2304 : PO BOX 175 CARRINGTON NSW, AUSTRALIA 2294 Telephone : +61 2 4902 9200 Telephone : +61 2 4014 2500 Project : 12513e **Date Samples Received** : 08-Jan-2025 09:00 Order number : -----Date Analysis Commenced : 10-Jan-2025 C-O-C number Issue Date : -----: 15-Jan-2025 15:34 Sampler : P Nicou, Toll SST Tomagao Site : -----Quote number : EN/222 "Julula Accreditation No. 825 No. of samples received : 2 Accredited for compliance with

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.

ISO/IEC 17025 - Testing

This Certificate of Analysis contains the following information:

: 2

- 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

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



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			
		Samplii	ng date / time	08-Jan-2025 09:00	08-Jan-2025 09:00			
Compound	CAS Number	LOR	Unit	EN2500268-001	EN2500268-002			
				Result	Result			
EA025: Total Suspended Solids dr	ried at 104 ± 2°C							
Suspended Solids (SS)		5	mg/L	34	71			
EK055G: Ammonia as N by Discrete Analyser								
Ammonia as N	7664-41-7	0.01	mg/L	1.14	175			
EK057G: Nitrite as N by Discrete	Analyser							
Nitrite as N	14797-65-0	0.01	mg/L	0.09	0.81			
EK058G: Nitrate as N by Discrete	Analyser							
Nitrate as N	14797-55-8	0.01	mg/L	21.1	332			
EK059G: Nitrite plus Nitrate as N	(NOx) by Discrete Ana	lyser						
Nitrite + Nitrate as N		0.01	mg/L	21.2	333			
EP020: Oil and Grease (O&G)								
Oil & Grease		5	mg/L	<5	<5			



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

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



QUALITY CONTROL REPORT : EN2500268 Work Order Page : 1 of 3 Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Newcastle Contact : ADMIN ADMINISTRATOR Contact Address Address : PO BOX 175 : 5/585 Maitland Road Mayfield West NSW Australia 2304 CARRINGTON NSW. AUSTRALIA 2294 Telephone : +61 2 4902 9200 Telephone : +61 2 4014 2500 Project : 12513e Date Samples Received : 08-Jan-2025 Order number **Date Analysis Commenced** : 10-Jan-2025 : -----· 15-Jan-2025 C-O-C number Issue Date · ____ Sampler : P Nicou, Toll SST Tomagao



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



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 Suspe	nded Solids dried at	: 104 ± 2°C (QC Lot: 6310234)							
EN2500268-001	SW1	EA025H: Suspended Solids (SS)		5	mg/L	34	30	12.6	No Limit
ES2500343-001	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	18	18	0.0	No Limit
ES2500372-003	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	187	179	4.2	0% - 20%
ES2500630-003	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	78	79	1.3	0% - 50%
EK055G: Ammonia	as N by Discrete Ana	alyser (QC Lot: 6310011)							
EN2500268-001	SW1	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	1.14	1.14	0.0	0% - 20%
ME2500064-003	Anonymous	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	0.51	0.51	0.0	0% - 20%
EK057G: Nitrite as I	N by Discrete Analys	ser (QC Lot: 6305248)							
EN2500268-001	SW1	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.09	0.09	0.0	No Limit
EK059G: Nitrite plus	s Nitrate as N (NOx)	by Discrete Analyser (QC Lot: 6310012)							
EN2500268-001	SW1	EK059G: Nitrite + Nitrate as N		0.01	mg/L	21.2	20.9	1.6	0% - 20%
ME2500064-003	Anonymous	EK059G: Nitrite + Nitrate as N		0.01	mg/L	0.08	0.08	0.0	No Limit



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	e Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High	
EA025: Total Suspended Solids dried at 104 ±	2°C (QCLot: 6310234)								
EA025H: Suspended Solids (SS)		5	mg/L	<5	150 mg/L	113	83.0	129	
				<5	1000 mg/L	97.0	82.0	110	
				<5	828 mg/L	96.9	83.0	118	
EK055G: Ammonia as N by Discrete Analyser	(QCLot: 6310011)				·	- -	L.		
EK055G: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	92.2	90.0	114	
EK057G: Nitrite as N by Discrete Analyser (Q	CLot: 6305248)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	94.9	82.0	114	
EK059G: Nitrite plus Nitrate as N (NOx) by Dis	screte Analyser (QCLot: 631	10012)							
EK059G: Nitrite + Nitrate as N		0.01	mg/L	<0.01	0.5 mg/L	106	91.0	113	
EP020: Oil and Grease (O&G) (QCLot: 630596	3)						• •		
EP020: Oil & Grease		5	mg/L	<5	5000 mg/L	90.0	81.0	121	
				<5	4000 mg/L	89.5	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	Limits (%)
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EK055G: Ammonia	as N by Discrete Analyser (QCLot: 6310011)						
EN2500268-001	SW1	EK055G: Ammonia as N	7664-41-7	1 mg/L	92.0	70.0	130
EK057G: Nitrite as	N by Discrete Analyser (QCLot: 6305248)						
EN2500268-001	SW1	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	99.7	70.0	130
EK059G: Nitrite pl	us Nitrate as N (NOx) by Discrete Analyser (QCLot: 631	0012)					
EN2500268-001	SW1	EK059G: Nitrite + Nitrate as N		0.5 mg/L	# Not	70.0	130
					Determined		



	QA/QC Compliance As	ssessment to assist wit	h Quality Review	
Work Order	: EN2500268	Page	: 1 of 4	
Client	: ROBERT CARR & ASSOCIATES P/L	Laboratory	: Environmental Division Newcastle	
Contact	: ADMIN ADMINISTRATOR	Telephone	: +61 2 4014 2500	
Project	: 12513e	Date Samples Received	: 08-Jan-2025	
Site	:	Issue Date	: 15-Jan-2025	
Sampler	: P Nicou, 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.
- <u>NO</u> 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, <u>NO</u> 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.



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							
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete A	EN2500268001	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	Extraction / 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-Jan-2025	10-Jan-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 ; 🗸 = Withi	n holding time
Method		Sample Date	Extraction / 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	08-Jan-2025				14-Jan-2025	15-Jan-2025	1
EK055G: Ammonia as N by Discrete Analyser								
Clear Plastic Bottle - Sulfuric Acid (EK055G) SW1,	SW2	08-Jan-2025				14-Jan-2025	05-Feb-2025	1
EK057G: Nitrite as N by Discrete Analyser								
Clear Plastic Bottle - Natural (EK057G) SW1,	SW2	08-Jan-2025				11-Jan-2025	10-Jan-2025	×
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Ana	lyser							
Clear Plastic Bottle - Sulfuric Acid (EK059G) SW1,	SW2	08-Jan-2025				14-Jan-2025	05-Feb-2025	1
EP020: Oil and Grease (O&G)								
Amber Jar - Sulfuric Acid or Sodium Bisulfate (EP020) SW1,	SW2	08-Jan-2025				13-Jan-2025	05-Feb-2025	✓



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	n: × = Quality Co	ontrol frequency	not within specification ; \checkmark = Quality Control frequency within specification
Quality Control Sample Type		Count		Rate (%)			Quality Control Specification
Analytical Methods	Method	QC	Reaular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Ammonia as N by Discrete analyser	EK055G	2	10	20.00	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	1	2	50.00	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	10	10.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	10	10.00	5.00	1	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Oil and Grease	EP020	4	45	8.89	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	10	10.00	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	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Oil and Grease	EP020	3	45	6.67	6.00	1	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	10	10.00	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	2	50.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard



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)

AL	CHAIN O CUSTOD	Ph DB 8359 0890 Y DBRISBANE 32 0 Ph 07 3243 7222 DGLADSTONE 4		K8 DA 3099 Ph: 07 4944 0177 E Iobal com DMELBOURNE 2-4 vrd QLD 4053 DMELBOURNE 2-4 ne@atsglobal com Ph: 03 8549 9600 E ve Clinion QLD 4680 DMUDGEE 27 Sydni	bour Road Mackay QLD 4 Ermackay@alsglobal.com Westall Road Springvale samples metbourne@ats ey Road Mudgee NSW 26 mudgee mail@alsglobat.com	I VIC 3171 global com 150	Pi D Pi	h: 02 4014 2500 E NOWRA 4/13 Ge h: 024423 2063 E PERTH 10 Hod W	585 Mailland Rd Maylie asamples newcastle@ eary Place North Nowra in nowra@alsglobal.com /ay Malaga WA 6090 samples perth@alsglo	alsglobal com NSW 2541 bal com	Ph D D D D Ph	02 8784 8555 1 TOWNSVILLE 1 07 4796 0600 VOLLONGONG 02 4225 3125 E	9 Woodpark Road Smothleidt NSW 2104 E sampios sydney@alsglobai.com 4-15 Desma Court Bohle OLD 4818 E townsvile environmenta@alsglobal.com 99 Kenny Street Woliongong NSW 2500 ; portkembia@alsglobal.com
LIENT: FFICE:	RCA Australia 92 Hill Street, Carrington	(3		D REQUIREMENTS : Stand	ard TAT (List due d	ate):					FOR LABORAT Custody Seal Inlac	17	Yes No
CA Ref No:	12513e		ALS QUOTE I				COC:	17	NCE NUMBER (C		Free ice / frozen ic receipt? Random Sample T		Tes IV
AMPLER: Toll SS DC emailed to Al mail Reports to: a mail Invoice to: a	LS? (NO) administrator@rca.com,au + enviro as above	EDD FORMAT	BILE: - 64664		PBIC	- GoorA	DATI	E/TIME:	8-1-25 0900		Other comment: IQUISHED BY: /TIME:		RECEIVED BY: DATE/TIME:
ALS USE		DISPOSAL: PLE DETAILS OLID (S) WATER (W)		CONTAINER INFORMATION					SUITES (NB. Suite Fotal (unfiltered botti required)				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	8-1-25 900	w	Purple Glass, Purple Plastic, Green Plastic	3	x	x	x	x				
	SW2	8.1.25 400	y w	Purple Glass, Purple Plastic, Green Plastic	3	x	x	x	x			-	.v
			÷										
	(#) 										Environm	iental D	jvision
											Newcasti Work O EN	e rder Refe 250()268
The Plant Known				TOT	AL 6	2	2	2	2			- 67 2 40-	



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order	: EN2500268					
Client Contact Address	: ROBERT CARR & ASSOCIATES P/L : ADMIN ADMINISTRATOR : PO BOX 175 CARRINGTON NSW, AUSTRALIA 2294	Contact : Address : 5/585 Ma	 Environmental Division Newcastle 5/585 Maitland Road Mayfield West NSW Australia 2304 +61 2 4014 2500 +61 2 4967 7382 1 of 2 EP2024ROBCAR0001 (EN/222) NEPM 2013 B3 & ALS QC Standard 			
E-mail Telephone Facsimile	: administrator@rca.com.au : +61 2 4902 9200 : +61 2 4902 9299					
Project Order number C-O-C number Site Sampler	: 12513e : : : : P Nicou, Toll SST Tomagao	Quote number : EP2024F				
Dates Date Samples Rece Client Requested Du Date		Issue Date Scheduled Reporting Date	: 10-Jan-2025 : 15-Jan-2025			
Delivery Deta Mode of Delivery No. of coolers/boxes Receipt Detail	: Client Drop Off	Security Seal Temperature No. of samples received / analysec	: Not Available : 20.3 : 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.



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 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

Matrix: WATER

Laboratory sample ID	Sampling date / time	Sample ID	WATER - I Suspendee	WATER - I Ammonia a	WATER - I Nitrate as	WATER - I Oil & Grea
EN2500268-001	08-Jan-2025 09:00	SW1	✓	✓	✓	✓
EN2500268-002	08-Jan-2025 09:00	SW2	✓	✓	✓	✓

Proactive Holding Time Report

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

Requested Deliverables

ADMINISTRATOR

 *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
- 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
ALL INVOICES		
- A4 - AU Tax Invoice (INV)	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
- 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

is N By Discrete Analyser

by Discrete Analyser

:K058G

-P020 (0&G)

- Standard Level

Solids -EK055G

EA025H

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

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



CERTIFICATE OF ANALYSIS Page Work Order : ES2501135 : 1 of 2 Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Sydney Contact : MS FIONA BROOKER Contact : Danae Hambly Address Address : 277-289 Woodpark Road Smithfield NSW Australia 2164 : 92 HILL STREET **CARRINGTON NSW 2294** Telephone : +61 02 4902 9200 Telephone : +61-2-8784 8555 Project : 12513e **Date Samples Received** : 15-Jan-2025 06:00 Order number Date Analysis Commenced : -----: 17-Jan-2025 C-O-C number Issue Date : -----: 22-Jan-2025 15:30 Sampler : Client Site : -----Quote number : NSW Custom BQ 2024 "hilahow Accreditation No. 825

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.

Accredited for compliance with ISO/IEC 17025 - Testing

This Certificate of Analysis contains the following information:

: 2

: 2

- 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

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



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	 	
		Samplii	ng date / time	15-Jan-2025 06:00	15-Jan-2025 06:00	 	
Compound	CAS Number	LOR	Unit	ES2501135-001	ES2501135-002	 	
				Result	Result	 	
EA025: Total Suspended Solids dr	ried at 104 ± 2°C						
Suspended Solids (SS)		5	mg/L	121	510	 	
EK055G: Ammonia as N by Discre	te Analyser						
Ammonia as N	7664-41-7	0.01	mg/L	73.2	0.54	 	
EK057G: Nitrite as N by Discrete	Analyser						
Nitrite as N	14797-65-0	0.01	mg/L	0.51	0.08	 	
EK058G: Nitrate as N by Discrete	Analyser						
Nitrate as N	14797-55-8	0.01	mg/L	133	7.75	 	
EK059G: Nitrite plus Nitrate as N	(NOx) by Discrete Anal	yser					
Nitrite + Nitrate as N		0.01	mg/L	134	7.83	 	
EP020: Oil and Grease (O&G)							
Oil & Grease		5	mg/L	8	<5	 	



QUALITY CONTROL REPORT

Work Order	: ES2501135	Page	: 1 of 4	
Client	: ROBERT CARR & ASSOCIATES P/L	Laboratory	: Environmental Division	Sydney
Contact	: MS FIONA BROOKER	Contact	: Danae Hambly	
Address	: 92 HILL STREET CARRINGTON NSW 2294	Address	: 277-289 Woodpark Roa	ad Smithfield NSW Australia 2164
Telephone	: +61 02 4902 9200	Telephone	: +61-2-8784 8555	
Project	: 12513e	Date Samples Received	: 15-Jan-2025	SMIIII.
Order number	:	Date Analysis Commenced	: 17-Jan-2025	
C-O-C number	:	Issue Date	22-Jan-2025	
Sampler	: Client			
Site	:			
Quote number	: NSW Custom BQ 2024			Accreditation No. 825
No. of samples received	: 2			Accredited for compliance with
No. of samples analysed	: 2			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 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



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 L	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: 6322787)							
EN2500719-001	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	11	10	16.9	No Limit
ES2501243-003	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	16	17	6.2	No Limit
EK055G: Ammonia a	s N by Discrete Analyser(QC Lot: 6321225)							
ES2440066-005	Anonymous	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	11.0	11.6	5.3	0% - 20%
ES2500588-009	Anonymous	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	0.04	0.04	0.0	No Limit
EK055G: Ammonia a	s N by Discrete Analyser(QC Lot: 6321226)							
ES2501135-002	SW2	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	0.54	0.54	0.0	0% - 20%
EK057G: Nitrite as N	by Discrete Analyser (QC	Lot: 6316555)							
ES2501148-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.07	0.08	0.0	No Limit
EN2500611-004	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.27	0.27	0.0	0% - 20%
EK059G: Nitrite plus	Nitrate as N (NOx) by Dis	crete Analyser (QC Lot: 6321224)							
EN2500758-001	Anonymous	EK059G: Nitrite + Nitrate as N		0.01 (0.10)*	mg/L	0.48	0.50	5.7	No Limit
ES2500588-008	Anonymous	EK059G: Nitrite + Nitrate as N		0.01	mg/L	<0.01	<0.01	0.0	No Limit



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 (%)	Acceptabl	e Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High	
EA025: Total Suspended Solids dried at 104 ± 2°C (QCLot: 6	322787)								
EA025H: Suspended Solids (SS)		5	mg/L	<5	150 mg/L	97.7	83.0	129	
				<5	1000 mg/L	98.8	82.0	110	
				<5	828 mg/L	98.5	83.0	118	
EK055G: Ammonia as N by Discrete Analyser (QCLot: 63212	225)				• 			·	
EK055G: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	1 mg/L	107	90.0	114	
EK055G: Ammonia as N by Discrete Analyser (QCLot: 63212	226)								
EK055G: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	1 mg/L	109	90.0	114	
EK057G: Nitrite as N by Discrete Analyser (QCLot: 6316555)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	99.0	82.0	114	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyse	er (QCLot: 63	321224)							
EK059G: Nitrite + Nitrate as N		0.01	mg/L	<0.01	0.5 mg/L	106	91.0	113	
EP020: Oil and Grease (O&G) (QCLot: 6323364)									
EP020: Oil & Grease		5	mg/L	<5	5000 mg/L	93.6	81.0	121	
				<5	4000 mg/L	86.1	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	Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High	
EK055G: Ammoni	a as N by Discrete Analyser (QCLot: 6321225)							
ES2440066-005	Anonymous	EK055G: Ammonia as N	7664-41-7	1 mg/L	# Not	70.0	130	
					Determined			
EK055G: Ammoni	a as N by Discrete Analyser (QCLot: 6321226)							
ES2501135-002	SW2	EK055G: Ammonia as N	7664-41-7	1 mg/L	103	70.0	130	
EK057G: Nitrite a	s N by Discrete Analyser (QCLot: 6316555)							
EN2500611-004	Anonymous	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	101	70.0	130	
EK059G: Nitrite p	lus Nitrate as N (NOx) by Discrete Analyser (QCLot	: 6321224)						
EN2500758-001	Anonymous	EK059G: Nitrite + Nitrate as N		5 mg/L	114	70.0	130	





	QA/QC Compliance As	ssessment to assist wit	h Quality Review	
Work Order	: ES2501135	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	: 15-Jan-2025	
Site		Issue Date	: 22-Jan-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.
- <u>NO</u> 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, <u>NO</u> surrogate recovery outliers occur.

Outliers : Analysis Holding Time Compliance

• <u>NO</u> Analysis Holding Time Outliers exist.

Outliers : Frequency of Quality Control Samples

• <u>NO</u> Quality Control Sample Frequency Outliers exist.



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	ES2440066005	Anonymous	Ammonia as N	7664-41-7	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 VOC in soils 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 ; ✓ = Withi	n holding time.	
Method			nple Date	Ext	raction / 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	15-Ji	Jan-2025				21-Jan-2025	22-Jan-2025	✓	
EK055G: Ammonia as N by Discrete Analyser										
Clear Plastic Bottle - Sulfuric Acid (EK055G) SW1,	SW2	15-Ja	Jan-2025				20-Jan-2025	12-Feb-2025	✓	
EK057G: Nitrite as N by Discrete Analyser										
Clear Plastic Bottle - Natural (EK057G) SW1,	SW2	15-Ji	Jan-2025				17-Jan-2025	17-Jan-2025	✓	
EK059G: Nitrite plus Nitrate as N (NOx) by Discr	ete Analyser									
Clear Plastic Bottle - Sulfuric Acid (EK059G) SW1,	SW2	15-Ji	Jan-2025				20-Jan-2025	12-Feb-2025	✓	
EP020: Oil and Grease (O&G)										
Amber Jar - Sulfuric Acid or Sodium Bisulfate (EF SW1,	P020) SW2	15-Ji	Jan-2025				21-Jan-2025	12-Feb-2025	✓	



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				Evaluatio	n: × = Quality Co	ntrol frequency	not within specification ; \checkmark = Quality Control frequency within specification
Quality Control Sample Type		Co	ount		Rate (%)		Quality Control Specification
Analytical Methods	Method	QC	Reaular	Actual Expected Evaluation		Evaluation	
Laboratory Duplicates (DUP)							
Ammonia as N by Discrete analyser	EK055G	3	28	10.71	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	2	15	13.33	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Suspended Solids (High Level)	EA025H	2	17	11.76	10.00	~	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Ammonia as N by Discrete analyser	EK055G	2	28	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	15	6.67	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	3	17	17.65	12.50	~	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Ammonia as N by Discrete analyser	EK055G	2	28	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	15	6.67	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	1	17	5.88	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Matrix Spikes (MS)							
Ammonia as N by Discrete analyser	EK055G	2	28	7.14	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	15	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard



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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CLIENT: RC	CA Australia			IND REQUIREMENTS :		ard TAT (List due da	te):		FOR LABORATORY				ATORY USE	ONLY (Circle)		
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ALS USE		IPLE DETAILS SOLID (S) WATER (W)		CONTAINER I	NFORMATION					Total (unf			be listed to attra or Dîssolved (fie		Additional Information	
. LAB ID	Sample ID	Date / Time	Matrix	Type & Preservativ (refer to codes belov		Total Containers	Ammonia	Nitrate	Total Suspended Solids	Oil and Grease					Comments on likely contaminant levels, diutions, or samples requiring specific QC analysis etc.	
- magnetic	SW1	15.1 6am	w	Purple Glass, Purple Plastic, G	reen Plastic	3	x	x	x	x						
V	SW2	15.1 6cm	w	Purple Glass, Purple Plastic, G	reen Plastic	3	x	x	x	x						
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Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphale Soils; B = Unpreserved Bag

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# SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order	: ES2501135		
Client Contact Address	: ROBERT CARR & ASSOCIATES P/L : MS FIONA BROOKER : 92 HILL STREET CARRINGTON NSW 2294	Laboratory Contact Address	<ul> <li>Environmental Division Sydney</li> <li>Danae Hambly</li> <li>277-289 Woodpark Road Smithfield NSW Australia 2164</li> </ul>
E-mail Telephone Facsimile	: fionab@rca.com.au : +61 02 4902 9200 : +61 02 4902 9299	E-mail Telephone Facsimile	: danae.hambly@alsglobal.com : +61-2-8784 8555 : +61-2-8784 8500
Project Order number	: 12513e :	Page Quote number	: 1 of 2 : EN2023ROBCAR0002 (NSW Custom BQ 2024)
C-O-C number Site Sampler	: : : Client	QC Level	: NEPM 2013 B3 & ALS QC Standard
Dates Date Samples Recei Client Requested Du Date		Issue Date Scheduled Reporting	: 16-Jan-2025 Date : <b>22-Jan-2025</b>
Delivery Deta Mode of Delivery No. of coolers/boxes Receipt Detail	: Undefined	Security Seal Temperature No. of samples recei	: Not Available : 3.0 - Ice Bricks present ved / 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.



### 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 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

#### Matrix: WATER

Laboratory sample ID	Sampling date / time	Sample ID	WATER - I Suspender	WATER -   Ammonia	WATER -   Nitrate as	WATER - I Oil & Grea
ES2501135-001	15-Jan-2025 06:00	SW1	✓	✓	✓	✓
ES2501135-002	15-Jan-2025 06:00	SW2	✓	✓	✓	✓

as N By Discrete Analyser

V by Discrete Analyser

EK055G as N By I EK058G EP020 se (0&G)

Solids - Standard Level

EA025H

### Proactive Holding Time Report

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

### **Requested Deliverables**

### ADMINISTRATOR

<ul> <li>*AU Certificate of Analysis - NATA (COA)</li> </ul>	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
ALL INVOICES		
- A4 - AU Tax Invoice (INV)	Email	administrator@rca.com.au
ENVIRO		
<ul> <li>*AU Certificate of Analysis - NATA (COA)</li> </ul>	Email	enviro@rca.com.au
<ul> <li>*AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)</li> </ul>	Email	enviro@rca.com.au
<ul> <li>*AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)</li> </ul>	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		
<ul> <li>*AU Certificate of Analysis - NATA (COA)</li> </ul>	Email	fionab@rca.com.au
<ul> <li>*AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)</li> </ul>	Email	fionab@rca.com.au
<ul> <li>*AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)</li> </ul>	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



#### **CERTIFICATE OF ANALYSIS** Page Work Order : ES2501153 : 1 of 2 Client : ROBERT CARR & ASSOCIATES P/L Laboratory : Environmental Division Sydney Contact : MS FIONA BROOKER Contact : Danae Hambly Address Address : 277-289 Woodpark Road Smithfield NSW Australia 2164 : 92 HILL STREET **CARRINGTON NSW 2294** Telephone : +61 02 4902 9200 Telephone : +61-2-8784 8555 Project : 12513e **Date Samples Received** : 17-Jan-2025 08:45 Order number Date Analysis Commenced : -----: 18-Jan-2025 C-O-C number Issue Date : -----: 24-Jan-2025 10:46 Sampler : Client Site : -----Quote number : NSW Custom BQ 2024 "hilahow Accreditation No. 825 No. of samples received : 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 not be reproduced, except in full.

Accredited for compliance with ISO/IEC 17025 - Testing

This Certificate of Analysis contains the following information:

: 2

- 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

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



### **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	17-Jan-2025 07:00	17-Jan-2025 07:00	 	
Compound	CAS Number	LOR	Unit	ES2501153-001	ES2501153-002	 	
				Result	Result	 	
EA025: Total Suspended Solids d	ried at 104 ± 2°C						
Suspended Solids (SS)		5	mg/L	4840	59	 	
EK055G: Ammonia as N by Discre	ete Analyser						
Ammonia as N	7664-41-7	0.01	mg/L	124	0.86	 	
EK057G: Nitrite as N by Discrete	Analyser						
Nitrite as N	14797-65-0	0.01	mg/L	0.68	0.09	 	
EK058G: Nitrate as N by Discrete	Analyser						
Nitrate as N	14797-55-8	0.01	mg/L	226	6.59	 	
EK059G: Nitrite plus Nitrate as N	(NOx) by Discrete Ana	lyser					
Nitrite + Nitrate as N		0.01	mg/L	227	6.68	 	
EP020: Oil and Grease (O&G)							
Oil & Grease		5	mg/L	<5	<5	 	



# QUALITY CONTROL REPORT

Work Order	: ES2501153	Page	: 1 of 3
Client Contact Address Telephone Project Order number C-O-C number Sampler	: ES2501153 : ROBERT CARR & ASSOCIATES P/L : MS FIONA BROOKER : 92 HILL STREET CARRINGTON NSW 2294 : +61 02 4902 9200 : 12513e : : Client	Page Laboratory Contact Address Telephone Date Samples Received Date Analysis Commenced Issue Date	<ul> <li>: 1 of 3</li> <li>: Environmental Division Sydney</li> <li>: Danae Hambly</li> <li>: 277-289 Woodpark Road Smithfield NSW Australia 2164</li> <li>: +61-2-8784 8555</li> <li>: 17-Jan-2025</li> <li>: 18-Jan-2025</li> <li>: 24-Jan-2025</li> <li>: 24-Jan-2025</li> </ul>
Site Quote number No. of samples received No. of samples analysed	: : NSW Custom BQ 2024 : 2 : 2		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 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



#### **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	ub-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	ded Solids dried at 104 ± 2°	C (QC Lot: 6326078)									
ES2501144-004	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	<5	<5	0.0	No Limit		
ES2501245-001	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	1070	1010	6.0	0% - 20%		
ES2501267-008	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	25	26	0.0	No Limit		
EW2500255-001	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	31	28	10.2	No Limit		
EK055G: Ammonia a	s N by Discrete Analyser (Q	C Lot: 6324833)									
ES2501153-001	SW1	EK055G: Ammonia as N	7664-41-7	0.01 (0.10)*	mg/L	124	121	2.4	0% - 20%		
ES2501153-002	SW2	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	0.86	0.86	0.0	0% - 20%		
EK057G: Nitrite as N	l by Discrete Analyser (QC I	₋ot: 6319310)									
ES2501125-016	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.08	0.08	0.0	No Limit		
EW2500295-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.16	0.16	0.0	0% - 50%		
EK059G: Nitrite plus	Nitrate as N (NOx) by Discr	rete Analyser (QC Lot: 6324832)									
ES2501153-001	SW1	EK059G: Nitrite + Nitrate as N		0.01 (0.10)*	mg/L	227	222	2.1	0% - 20%		
ES2501153-002	SW2	EK059G: Nitrite + Nitrate as N		0.01	mg/L	6.68	6.64	0.5	0% - 20%		



### 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	Sub-Matrix: WATER				Laboratory Control Spike (LCS) Report					
				Report	Spike	Spike Recovery (%)	Acceptable	e Limits (%)		
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High		
EA025: Total Suspended Solids dried at 104 ± 2°0	C (QCLot: 6326078)									
EA025H: Suspended Solids (SS)		5	mg/L	<5	150 mg/L	94.0	83.0	129		
				<5	1000 mg/L	98.8	82.0	110		
				<5	828 mg/L	90.4	83.0	118		
EK055G: Ammonia as N by Discrete Analyser (Q	CLot: 6324833)						-	·		
EK055G: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	0.5 mg/L	99.4	90.0	114		
EK057G: Nitrite as N by Discrete Analyser (QCL	ot: 6319310)									
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 Discr	ete Analyser (QCLot: 632	24832)								
EK059G: Nitrite + Nitrate as N		0.01	mg/L	<0.01	0.5 mg/L	111	91.0	113		
EP020: Oil and Grease (O&G) (QCLot: 6327354)							-	·		
EP020: Oil & Grease		5	mg/L	<5	5000 mg/L	94.9	81.0	121		
				<5	4000 mg/L	95.2	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			Matrix Spike (MS) Report					
			Sj	pike	SpikeRecovery(%) Acceptable Lin		.imits (%)	
Laboratory sample ID	Sample ID	Method: Compound CAS N	Number Conce	entration	MS	Low	High	
EK055G: Ammonia	as N by Discrete Analyser (QCLot: 6324833)							
ES2501153-001	SW1	EK055G: Ammonia as N 7664-	-41-7 1 n	ng/L	# Not Determined	70.0	130	
EK057G: Nitrite as	N by Discrete Analyser (QCLot: 6319310)			ľ	, in the second s			
ES2501125-016	Anonymous	EK057G: Nitrite as N 14797	7-65-0 0.5	mg/L	111	70.0	130	
EK059G: Nitrite pl	us Nitrate as N (NOx) by Discrete Analyser (QCLot: 632	4832)						
ES2501153-001	SW1	EK059G: Nitrite + Nitrate as N	0.5	mg/L	# Not Determined	70.0	130	



	QA/QC Compliance Assessment to assist with Quality Review									
Work Order	: ES2501153	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	: 17-Jan-2025							
Site	:	Issue Date	: 24-Jan-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.
- <u>NO</u> Duplicate outliers occur.
- <u>NO</u> 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, <u>NO</u> surrogate recovery outliers occur.

### **Outliers : Analysis Holding Time Compliance**

• <u>NO</u> Analysis Holding Time Outliers exist.

### **Outliers : Frequency of Quality Control Samples**

• <u>NO</u> Quality Control Sample Frequency Outliers exist.



#### **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	ES2501153001	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 ES2501153001	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 VOC in soils 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	n: × = Holding time	breach ; 🗸 = Withi	n holding time	
Method		Sample Date	Extraction / 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	17-Jan-2025				22-Jan-2025	24-Jan-2025	1	
EK055G: Ammonia as N by Discrete Analyser									
Clear Plastic Bottle - Sulfuric Acid (EK055G) SW1,	SW2	17-Jan-2025				22-Jan-2025	14-Feb-2025	1	
EK057G: Nitrite as N by Discrete Analyser									
Clear Plastic Bottle - Natural (EK057G) SW1,	SW2	17-Jan-2025				18-Jan-2025	19-Jan-2025	~	
EK059G: Nitrite plus Nitrate as N (NOx) by Disc	crete Analyser								
Clear Plastic Bottle - Sulfuric Acid (EK059G) SW1,	SW2	17-Jan-2025				22-Jan-2025	14-Feb-2025	1	
EP020: Oil and Grease (O&G)									
Amber Jar - Sulfuric Acid or Sodium Bisulfate (E SW1,	E <b>P020)</b> SW2	17-Jan-2025				23-Jan-2025	14-Feb-2025	1	



# **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		Evaluatio	n: × = Quality Co	ontrol frequency	not within specification ; $\checkmark$ = 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	14	14.29	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	2	15	13.33	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	20	5.00	5.00	1	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	15	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Oil and Grease	EP020	4	49	8.16	8.00	✓	NEPM 2013 B3 & ALS QC Standard
Suspended Solids (High Level)	EA025H	5	40	12.50	12.50	1	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	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	15	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Oil and Grease	EP020	3	49	6.12	6.00	1	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	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	15	6.67	5.00	✓	NEPM 2013 B3 & ALS QC Standard



## **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)

Enutronme	CHAIN OF Ph: 06 B350 0000 E: solitaide@sisglobal.com Ph: 0 CUSTODY BRISBANE 32 Shand Street Statford QLD 4053 DME Ph: 07 3243 7222 E: samples brisbane@alsglobal.com Ph: 0			h: 06 8359 0690 E: sdelarde@sisglobal.com Ph: 07 4944 01 /7 E: mackay@addjibal.com Ph. 02 4014 2000 E: samples. hevoestle@dsglobal.com BRISBANE 32 Shand Street Stafford (c)D 4053 DMELBOURNE 2-4 Westel Road Springulae VIC 3171 DNOWRA 4/13 Geory Pipes North Nowa NSW2541 h: 07 3243 7222 E: samples bisbane@alsglobal.com Ph: 03 8549 9600 E: samples.melbourne@alsglobal.com Ph: 02442 3083 E: howra@alsglobal.com Ph: 02442 3083 E: howra@alsglobal.com Ph: 02403 2083 E: howra@alsglobal.com Disc Orthogen Ph: 052453 7222 E: samples. New Control Co						bal.com 2541	Ph: 02 8784 8555 E CITOWNSVILLE 1 Ph: 07 4796 0600	9 Woodpark Road Smithfield NSW 2164 : samples sydney@alsglobal.com 4-15 Desma Court Bohle QLD 4818 E: townsville.envronnenle@alsglobal.com 99 Kanny Street Wollongong NSW 2500 : portkembla@alsglobal.com		
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ROJECT MANAGER:	Fiona Brooker	CONTACT	PH: 0408 687 5	29					DC: 1 F: 1			Random St Other comr	imple Temperature o	1 Receipt: C
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ALS USE		DETAILS D (S) WATER (W)		CONTAINER IN	NFORMATION		ANAL Where I	/SIS REQL ietals are r	JIRED includin equired, specify	g SUITES / Total (ur	i (NB. Suite Code filtered bottle req required),	s must be listed to at uired) or Dissolved (	tract suite price) field filtered bottle	Additional Information
LAE ID	Sample ID	Date / Time	Matrix	Type & Preservativo (refer to codes below)		Totaí Containers	Ammonia	Nitrate	Total Suspended Solids	Oil and Grease				Comments on likely contaminant levels, (ditutions, or samples requiring specific QC analysis etc.
ipa X	SW1	Tam	w	Purple Glass, Purple Plastic, Gr	een Plastic	3	x	x	x	x			1 e 4 7	EMALED
V	SW2	Zam	w	Purple Glass, Purple Plastic, Gr	een Plastic	3	x	x	x	x				LAB OF ORIGIN:
													1	NEWCASTLE
					- 0									
								1						
												E	Environmen Sydney Work Order ES25	Tal Division Reference 501153
					TOTAL	6	2	2	2	2				

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# SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order	: ES2501153		
Client Contact Address	: <b>ROBERT CARR &amp; ASSOCIATES P/L</b> : MS FIONA BROOKER : 92 HILL STREET CARRINGTON NSW 2294	Laboratory Contact Address	<ul> <li>Environmental Division Sydney</li> <li>Danae Hambly</li> <li>277-289 Woodpark Road Smithfield NSW Australia 2164</li> </ul>
E-mail Telephone Facsimile	phone : +61 02 4902 9200		: danae.hambly@alsglobal.com : +61-2-8784 8555 : +61-2-8784 8500
Project Order number	: 12513e :	Page Quote number	: 1 of 2 : EN2023ROBCAR0002 (NSW Custom BQ 2024)
C-O-C number Site Sampler	: : : Client	QC Level	: NEPM 2013 B3 & ALS QC Standard
Dates Date Samples Receir Client Requested Du Date		Issue Date Scheduled Reportin	: 17-Jan-2025 ng Date : <b>24-Jan-2025</b>
Delivery Detail Mode of Delivery No. of coolers/boxes Receipt Detail	i <b>ls</b> : Undefined : 1 :	Security Seal Temperature No. of samples rec	: Not Available : eived / 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.



### 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 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

#### Matrix: WATER

Laboratory sample ID	Sampling date / time	Sample ID	WATER - F Suspended	WATER - F Ammonia a	WATER - F	WATER - I Oil & Grea
ES2501153-001	17-Jan-2025 07:00	SW1	✓	✓	✓	✓
ES2501153-002	17-Jan-2025 07:00	SW2	✓	✓	✓	✓

is N By Discrete Analyser

IS N By E K058G by Discrete Analyser

P020 e (0&G)

Solids - Standard Level

A025H

### Proactive Holding Time Report

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

### **Requested Deliverables**

### ADMINISTRATOR

<ul> <li>*AU Certificate of Analysis - NATA (COA)</li> </ul>	Email	administrator@rca.com.au
- *AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)	Email	administrator@rca.com.au
<ul> <li>*AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)</li> </ul>	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
ALL INVOICES		
- A4 - AU Tax Invoice (INV)	Email	administrator@rca.com.au
ENVIRO		
<ul> <li>*AU Certificate of Analysis - NATA (COA)</li> </ul>	Email	enviro@rca.com.au
<ul> <li>*AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)</li> </ul>	Email	enviro@rca.com.au
<ul> <li>*AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)</li> </ul>	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		
<ul> <li>*AU Certificate of Analysis - NATA (COA)</li> </ul>	Email	fionab@rca.com.au
<ul> <li>*AU Interpretive QC Report - DEFAULT (Anon QCI Rep) (QCI)</li> </ul>	Email	fionab@rca.com.au
<ul> <li>*AU QC Report - DEFAULT (Anon QC Rep) - NATA (QC)</li> </ul>	Email	fionab@rca.com.au
- A4 - AU Sample Receipt Notification - Environmental HT (SRN)	Email	fionab@rca.com.au
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- EDI Format - ENMRG (ENMRG)	Email	fionab@rca.com.au
- EDI Format - ESDAT (ESDAT)	Email	fionab@rca.com.au