Sample Identification		Aquatic Ecosystem Guideline A	SW1	SW2		
Rainfall (mm) in preceding 24hours ^B	PQL		0.	.0		
Time of Sample Collection		95% Fresh	11:00			
Date of Sample Collection			13/05	/2024		
	Sam	ole Description	Quite clear, tiny sediment, no colour, smells of mud	No sample		
Laborato	ry Rep	oort Reference	ES2415301			
	Sa	ample Purpose	EPL Compliance			
	Samp	le collected by	To	oll		
Ammonia as N	0.01	0.9	6.51			
Nitrate ^C	0.01	0.04	14.1			
Oil and Grease	5		<5			
Total Suspended Solds	5		28			

All results are in units of mg/L

Blank Cell indicates no criterion available

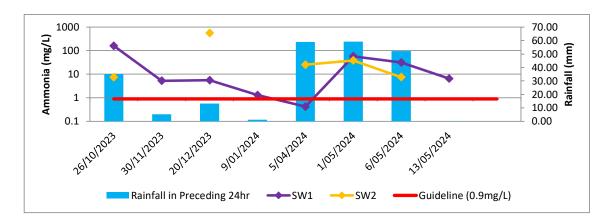
PQL = Practical Quantitation Limit.

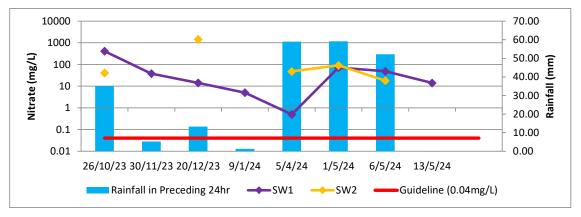
Results shown in **BOLD** are in excess of the guidelines

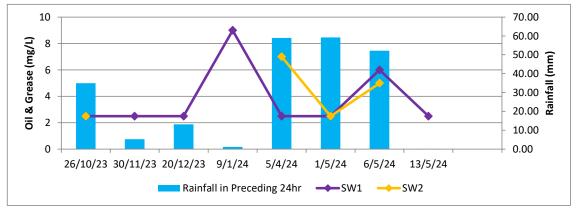
^A % Protection Level for Receiving Water Type.

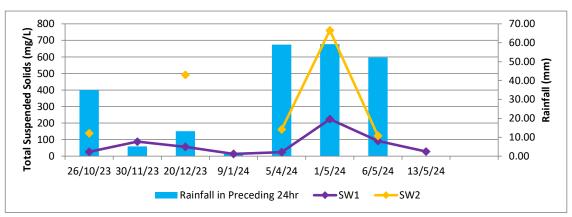
^B Based on BOM Williamtown data from 11am 12th May to 11am 13th May

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











CERTIFICATE OF ANALYSIS

Work Order : ES2415301

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 James Cunningham

Site : ----

Quote number : EN/222

No. of samples received : 1
No. of samples analysed : 1

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 : 13-May-2024 11:51

Date Analysis Commenced : 15-May-2024

Issue Date : 20-May-2024 10:59



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 : ES2415301

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			Sample ID	SW1	 	
(Matrix: WATER)						
		Sampli	ng date / time	13-May-2024 11:00	 	
Compound	CAS Number	LOR	Unit	ES2415301-001	 	
				Result	 	
EA025: Total Suspended Solids dried a	t 104 ± 2°C					
Suspended Solids (SS)		5	mg/L	28	 	
EK055G: Ammonia as N by Discrete An	alyser					
Ammonia as N	7664-41-7	0.01	mg/L	6.51	 	
EK057G: Nitrite as N by Discrete Analy	rser					
Nitrite as N	14797-65-0	0.01	mg/L	2.50	 	
EK058G: Nitrate as N by Discrete Analy	yser					
Nitrate as N	14797-55-8	0.01	mg/L	14.1	 	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Ana	lyser				
Nitrite + Nitrate as N		0.01	mg/L	16.6	 	
EP020: Oil and Grease (O&G)						
Oil & Grease		5	mg/L	<5	 	





QUALITY CONTROL REPORT

Telephone

Issue Date

Date Samples Received

Date Analysis Commenced

: 1 of 3

: +61-2-8784 8555

: 13-May-2024

: 15-May-2024

: 20-May-2024

Accreditation No. 825

Accredited for compliance with ISO/IEC 17025 - Testing

Work Order : ES2415301 Page

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

Contact : MS FIONA BROOKER Contact : Danae Hambly

Address : 92 HILL STREET Address : 277-289 Woodpark Road Smithfield NSW Australia 2164

CARRINGTON NSW 2294
Telephone : +61 02 4902 9200

 Project
 : 12513e

 Order number
 : ---

 G-O-C number
 : ---

Sampler : Client James Cunningham

Site : ---Quote number : EN/222
No. of samples received : 1

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:

: 1

- 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 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 : ES2415301

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	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: 5796317)							
ES2415267-001	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	5	7	29.8	No Limit
ES2415377-003	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	46	43	5.6	No Limit
ES2415774-001	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	63	63	0.0	0% - 50%
EW2402211-003	Anonymous	EA025H: Suspended Solids (SS)		5	mg/L	30	35	15.3	No Limit
EK055G: Ammonia a	as N by Discrete Analyser (C	QC Lot: 5797631)							
ES2415385-001	Anonymous	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	36.3	37.2	2.4	0% - 20%
ES2415123-001	Anonymous	EK055G: Ammonia as N	7664-41-7	0.01	mg/L	0.02	0.04	74.9	No Limit
EK057G: Nitrite as I	N by Discrete Analyser (QC	Lot: 5790034)							
ES2415423-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.11	0.11	0.0	0% - 50%
ES2415342-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.12	0.12	0.0	0% - 50%
EK059G: Nitrite plus	s Nitrate as N (NOx) by Disc	rete Analyser (QC Lot: 5797632)							
ES2415344-002	Anonymous	EK059G: Nitrite + Nitrate as N		0.01 (0.10)*	mg/L	<0.10	<0.10	0.0	No Limit
ES2415123-001	Anonymous	EK059G: Nitrite + Nitrate as N		0.01	mg/L	6.89	7.01	1.8	0% - 20%

Page : 3 of 3 Work Order : ES2415301

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:	: 5796317)							
EA025H: Suspended Solids (SS)		5	mg/L	<5	150 mg/L	98.3	83.0	129
				<5	1000 mg/L	93.4	82.0	110
				<5	928 mg/L	86.4	83.0	118
EK055G: Ammonia as N by Discrete Analyser (QCLot: 579	7631)							
EK055G: Ammonia as N	7664-41-7	0.01	mg/L	<0.01	1 mg/L	103	90.0	114
EK057G: Nitrite as N by Discrete Analyser (QCLot: 579003	34)							
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 Analy	ser (QCLot: 5	797632)						
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: 5796155)								
EP020: Oil & Grease		5	mg/L	<5	5000 mg/L	93.5	81.0	121
				<5	4000 mg/L	97.3	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					
				Spike	SpikeRecovery(%)	Acceptable L	imits (%)
Laboratory sample ID	Sample ID	Method: Compound Ca	CAS Number	Concentration	MS	Low	High
EK055G: Ammonia	as N by Discrete Analyser (QCLot: 5797631)						
ES2415123-001	Anonymous	EK055G: Ammonia as N	664-41-7	1 mg/L	114	70.0	130
EK057G: Nitrite as	N by Discrete Analyser (QCLot: 5790034)						
ES2415342-001	Anonymous	EK057G: Nitrite as N	4797-65-0	0.5 mg/L	105	70.0	130
EK059G: Nitrite pl	us Nitrate as N (NOx) by Discrete Analyser (QCLot: 579	7632)					
ES2415123-001	Anonymous	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 : **ES2415301** 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
 : 13-May-2024

 Site
 : -- Issue Date
 : 20-May-2024

Sampler : Client James Cunningham No. of samples received : 1
Order number : ---- No. of samples analysed : 1

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 : ES2415301

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							
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Ar	ES2415123001	Anonymous	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 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	i: * = Holding time	e breach ; ✓ = vvitni	in notating time
Method	Sample Date	E	traction / Preparation				
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	13-May-2024				17-May-2024	20-May-2024	✓
EK055G: Ammonia as N by Discrete Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK055G) SW1	13-May-2024				17-May-2024	10-Jun-2024	✓
EK057G: Nitrite as N by Discrete Analyser							
Clear Plastic Bottle - Natural (EK057G) SW1	13-May-2024				15-May-2024	15-May-2024	✓
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser							
Clear Plastic Bottle - Sulfuric Acid (EK059G) SW1	13-May-2024				17-May-2024	10-Jun-2024	✓
EP020: Oil and Grease (O&G)							
Amber Jar - Sulfuric Acid or Sodium Bisulfate (EP020) SW1	13-May-2024				17-May-2024	10-Jun-2024	√

Page : 3 of 4
Work Order : ES2415301

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: WATED

Evaluation: * = Quality Control frequency not within specification: \checkmark = Quality Control frequency within specification

Matrix: WATER				Evaluation	n: 🗴 = Quality Co	ontrol frequency	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	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	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Suspended Solids (High Level)	EA025H	4	39	10.26	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	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	39	12.82	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	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	39	5.13	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	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard

Page : 4 of 4 Work Order : ES2415301

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)

•
ALS
Environmental

CHAIN OF CUSTODY

ALS Laboratory: please tick → □ADELAIDE 21 Burma Road Pooraka SA 5095 Ph: 08 8359 0890 E; adelaide@alsqlobal.com □BRISBANE 32 Shand Street Stafford QLD 4053 Ph: 07 3243 7222 E. samples brisbane@alsglobal.com DGLADSTONE 46 Callemondah Drive Clinton OLD 4680 Ph: 07 7471 5600 E: gladstone@alsglobal.com

□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 DMUDGEE 27 Sydney Road Mudgee NSW 2850 Ph; 02 6372 6735 E: mudgee.mail@alsglobal.com

DNEWCASTLE 5/585 Maitland Rd Mayfield Wost NSW 2304

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

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

USYDNEY 277-289 Woodpark Road Smithfield NSW 2164 Ph: 02 8784 8555 F: samples sydney@alsolobal.com

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

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

FOR LABORATORY LISE ONLY (Circle)

CLIENT:	RCA Australia			ND REQUIREMENTS :	☐ Standa	ard TAT (List due da	ite):							BORATORY US	SE ONLY			/
OFFICE:	92 Hill Street, Carrington		(Standard TAT r Trace Organics)	may be longer for some tests e.g Ultra)									CONTROL OF THE PARTY OF THE PAR	eal Intact? frozen ice bricks p	recent upon	Yes	No	NIA
RCA Ref No:	12513e		ALS QUOTE	NO.: SY	BQ_400_21				COC SEQU	ENCE N	JMBER	(Circle)	receipt?			Yes	(No)	N/A
								coc:	1				Random S	Sample Temperatu	ire on Receip	ot 71.0) .c	
ROJECT MANAG	ER: Fiona Brooker	CONTACT PI							1				Other com	nment;		61		
SAMPLER: Client	James (unnihe	hom SAMPLER M	OBILE: ()	1475722538	RELINQUIS	SHED BY:		REC	EIVED BY:	. 0		F	RELINQUISHE	ED BY:		RECEIVED BY	r: N	
COC emailed to Al	-	EDD FORMA	T (or default)	!				J	N	13.	5.24			→	-	Ch	= H	
mail Reports to:	administrator@rca.com.au + enviro@	@rca.com.au	0.00		DATE/TIME			DAT	E/TIME:	11	50		DATE/TIME:	13	5	DATE/TIME:	U	25
mail Invoice to:	as above									11	20		Sp	~		13/05/20	1 19	35
COMMENTS/SPEC	CIAL HANDLING/STORAGE OR DIS	SPOSAL:																
ALS USE		LE DETAILS LID (S) WATER (W)		CONTAINER INFO	ORMATION		ANALY Where Me	'SIS REQUIF etals are req	RED including quired, specify	g SUITES Total (ur	(NB. Suite filtered bo required).	ttle require	ust be listed to a d) or Dissolved	attract suite price) I (field filtered bottl	le	Additional	Information	
LAB ID	Sample ID	Date / Time	Matrix	Type & Preservative (refer to codes below)		Total Containers	Ammonia	Nitrate	Total Suspended Solids	Oil and Grease					dilutio	nents on likely cor ins, or samples re sis etc.		
1	SW1	llam 13.5.24	w	Purple Glass, Purple Plastic, Green	n Plastic	3	х	x	x	x								
-	SW2		w	Purple Glass, Purple Plastic, Gree	n Plastic	3	х	x	х	x								
							5											
										20000 10000	M							
											R. SE E4 B	100,000	NOT LEVEL PARK					
											continues a polygon.			,				
	×													EI S	nvironr /dnev	nental Di	vision	7
				8					L	AB (OF O	RIG	IN:		Work O	rder Refere	nce	
				Tel.						NEV	VOA.	STL	nyme Tradi		ES2	rder Refere 24153	301	
				2														

Water Container Codes: P = Unpreserved Plastic; N = Nitric Preserved Plastic; ORC = Nitric Preserved ORC; SH = Sodium Hydroxide/Cd Preserved; S = Sodium Hydroxide Preserved Plastic; AG = Amber Glass Unpreserved: AP - Airfreight Unpreserved Plastic V = VOA Vial Sodium Bisulphate Preserved; VS = VOA Vial Sulfuric Preserved Vial SC = Sulfuric Preserved Amber Glass; H = HCl preserved Plastic; HS = HCl preserved Speciation bottle; SP = Sulfuric Preserved Z = Zinc Acetate Preserved Bottle; E = EDTA Preserved Bottles; ST = Sterile Bottle; ASS = Plastic Bag for Acid Sulphate Soils; B = Unpreserved Bag.

Telephone: +61-2-8784 8555

TOTAL



FIELD SHEET

DISCHARGE SAMPLING RECORD

PROJECT No.: 125136 PS · S · S | :∃TAG

TOLL Group

PROJECT: CLIENT:

Discharge Water Monitoring

Cumes Cunningham

O475722538

SAMPLER

					boundary) (SW2
Sediment		Jac	Sticy no colo	Mall	SW1 (northern boundary)
, colour, odour)	The state of the s		5	Time of Sample	Sample Location



SAMPLE RECEIPT NOTIFICATION (SRN)

Work Order : ES2415301

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

Contact : MS FIONA BROOKER Contact : Danae Hambly

Address : 92 HILL STREET 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 2294

 Order number
 : -- Quote number
 : EN2023ROBCAR0002 (EN/222)

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

Site : ----

Sampler : Client James Cunningham

Dates

Date

Delivery Details

Mode of Delivery: UndefinedSecurity Seal: Not AvailableNo. of coolers/boxes: 1Temperature: 21.0'CReceipt Detail: No. of samples received / analysed: 1 / 1

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.
- Analytical work for this work order will be conducted at ALS Sydney.
- 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 : 13-May-2024

Page

: 2 of 3 : ES2415301 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 itrate as N by Discrete Analyser 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) VATER - EK055G /ATER - EK058G VATER - EA025H Matrix: WATER Sampling date / Sample ID Laboratory sample time ES2415301-001 13-May-2024 11:00 SW1

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
- 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
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
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: 13-May-2024 Issue Date

Page

3 of 3 ES2415301 Amendment 0 Work Order

Client : ROBERT CARR & ASSOCIATES P/L

