ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **EM2116912**	Page	: 1 of 7
Client	: **Dept for Environment & Water**	Laboratory	: Environmental Division Melbourne
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Project	: HCHB	Date Samples Received	: 26-Aug-2021
Order number	: ----	Date Analysis Commenced	: 26-Aug-2021
C-O-C number	: ----	Issue Date	: 03-Sep-2021
Sampler	: RB		
Site	: ----		
Quote number	: AD/052/20 V2		
No. of samples received	: 21		
No. of samples analysed	: 21		

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	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
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Samantha Smith	Laboratory Coordinator	WRG Subcontracting, Springvale, VIC

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 (%)
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QC Lot: 3871146)									
EM2116912-001	Murray Mouth	EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	0.07	0.06	0.0	No Limit
EM2116912-010	Villa du Yumpa	EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	0.04	0.03	0.0	No Limit
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QC Lot: 3871148)									
EM2116912-021	Tilley Swamp Watercourse Outlet	EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	0.23	0.25	6.4	0% - 50%
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QC Lot: 3869500)									
EM2116864-004	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	2950	2770	6.2	0% - 20%
EM2116883-001	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	1670	1650	1.1	0% - 20%
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QC Lot: 3869502)									
EM2116912-011	Stony Well	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	73000	71200	2.4	0% - 20%
EM2116912-020	Tilley Swamp D/S Nth Outlet	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	5880	5900	0.3	0% - 20%
EA045: Turbidity (QC Lot: 3868954)									
EM2116889-001	Anonymous	EA045: Turbidity	----	0.1	NTU	130	132	1.5	0% - 20%
EM2116889-011	Anonymous	EA045: Turbidity	----	0.1	NTU	120	120	0.0	0% - 20%
EA045: Turbidity (QC Lot: 3868955)									
EM2116912-010	Villa du Yumpa	EA045: Turbidity	----	0.1	NTU	17.4	17.7	1.7	0% - 20%
EM2116912-018	1.8km West of Salt Creek	EA045: Turbidity	----	0.1	NTU	8.3	7.0	17.3	0% - 20%
ED037P: Alkalinity by PC Titrator (QC Lot: 3869721)									
EM2116892-004	Anonymous	ED037-P: Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	<1	<1	0.0	No Limit

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 (%)*
ED037P: Alkalinity by PC Titrator (QC Lot: 3869721) - continued									
EM2116901-001	Anonymous	ED037-P: Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	686	695	1.2	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	686	695	1.2	0% - 20%
ED037P: Alkalinity by PC Titrator (QC Lot: 3869722)									
EM2116912-009	Parnka Point	ED037-P: Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	210	210	0.0	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	210	210	0.0	0% - 20%
ED045G: Chloride by Discrete Analyser (QC Lot: 3868886)									
EM2116912-009	Parnka Point	ED045G: Chloride	16887-00-6	1	mg/L	38500	39000	1.3	0% - 20%
EM2116912-001	Murray Mouth	ED045G: Chloride	16887-00-6	1	mg/L	1070	1070	0.4	0% - 20%
ED045G: Chloride by Discrete Analyser (QC Lot: 3868889)									
EM2116912-021	Tilley Swamp Watercourse Outlet	ED045G: Chloride	16887-00-6	1	mg/L	3480	3490	0.4	0% - 20%
EG052G: Silica by Discrete Analyser (QC Lot: 3868885)									
EM2116912-011	Stony Well	EG052G: Reactive Silica	----	0.05	mg/L	0.21	0.20	5.1	No Limit
EM2116912-001	Murray Mouth	EG052G: Reactive Silica	----	0.05	mg/L	0.26	0.24	8.0	No Limit
EG052G: Silica by Discrete Analyser (QC Lot: 3868887)									
EM2116912-021	Tilley Swamp Watercourse Outlet	EG052G: Reactive Silica	----	0.05	mg/L	8.37	8.33	0.5	0% - 20%
EK057G: Nitrite as N by Discrete Analyser (QC Lot: 3868883)									
EM2116912-010	Villa du Yumpa	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EM2116912-001	Murray Mouth	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EK057G: Nitrite as N by Discrete Analyser (QC Lot: 3868888)									
EM2116912-021	Tilley Swamp Watercourse Outlet	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.04	0.04	0.0	No Limit
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QC Lot: 3871145)									
EM2116912-001	Murray Mouth	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	0.01	0.01	0.0	No Limit
EM2116912-010	Villa du Yumpa	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QC Lot: 3871147)									
EM2116912-021	Tilley Swamp Watercourse Outlet	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	0.79	0.78	0.0	0% - 20%
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QC Lot: 3869608)									
EM2116890-006	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.6	0.4	34.2	No Limit
EM2116892-006	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.7	0.9	16.4	No Limit
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QC Lot: 3869610)									
EM2116912-003	DS Tauwitchere	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	1.3	1.2	0.0	0% - 50%

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 (%)*
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QC Lot: 3869610) - continued									
EM2116912-011	Stony Well	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	1.5	1.4	9.8	0% - 50%
EK067G: Total Phosphorus as P by Discrete Analyser (QC Lot: 3869609)									
EM2116892-006	Anonymous	EK067G: Total Phosphorus as P	----	0.01	mg/L	0.04	0.07	49.2	No Limit
EM2116912-003	DS Tauwitchere	EK067G: Total Phosphorus as P	----	0.01	mg/L	0.10	0.11	0.0	0% - 50%
EK067G: Total Phosphorus as P by Discrete Analyser (QC Lot: 3869611)									
EM2116912-011	Stony Well	EK067G: Total Phosphorus as P	----	0.01	mg/L	0.99	0.94	5.7	0% - 20%
EM2116916-002	Anonymous	EK067G: Total Phosphorus as P	----	0.01	mg/L	0.07	0.07	0.0	No Limit
EK071G: Reactive Phosphorus as P by discrete analyser (QC Lot: 3868884)									
EM2116912-010	Villa du Yumpa	EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EM2116912-001	Murray Mouth	EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EK071G: Reactive Phosphorus as P by discrete analyser (QC Lot: 3868890)									
EM2116912-021	Tilley Swamp Watercourse Outlet	EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EP002: Dissolved Organic Carbon (DOC) (QC Lot: 3870316)									
EM2116912-001	Murray Mouth	EP002: Dissolved Organic Carbon	----	1	mg/L	7	7	0.0	No Limit
EM2116912-011	Stony Well	EP002: Dissolved Organic Carbon	----	1	mg/L	23	23	0.0	0% - 20%
EP005: Total Organic Carbon (TOC) (QC Lot: 3870315)									
EM2116912-001	Murray Mouth	EP005: Total Organic Carbon	----	1	mg/L	9	11	18.1	0% - 50%
EM2116912-011	Stony Well	EP005: Total Organic Carbon	----	1	mg/L	28	28	0.0	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**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 3871146)								
EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	<0.02	0.5 mg/L	105	81.1	124
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 3871148)								
EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	<0.02	0.5 mg/L	102	81.1	124
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QCLot: 3869500)								
EA015H: Total Dissolved Solids @180°C	----	10	mg/L	<10	2000 mg/L	97.1	91.0	110
				<10	293 mg/L	102	91.0	110
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QCLot: 3869502)								
EA015H: Total Dissolved Solids @180°C	----	10	mg/L	<10	2000 mg/L	100	91.0	110
				<10	293 mg/L	98.3	91.0	110
EA045: Turbidity (QCLot: 3868954)								
EA045: Turbidity	----	0.1	NTU	<0.1	40 NTU	99.5	88.1	110
EA045: Turbidity (QCLot: 3868955)								
EA045: Turbidity	----	0.1	NTU	<0.1	40 NTU	99.0	88.1	110
ED037P: Alkalinity by PC Titrator (QCLot: 3869721)								
ED037-P: Total Alkalinity as CaCO3	----	----	mg/L	----	200 mg/L	106	85.0	116
ED037P: Alkalinity by PC Titrator (QCLot: 3869722)								
ED037-P: Total Alkalinity as CaCO3	----	----	mg/L	----	200 mg/L	112	85.0	116
ED045G: Chloride by Discrete Analyser (QCLot: 3868886)								
ED045G: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	99.1	85.0	115
				<1	1000 mg/L	110	85.0	122
ED045G: Chloride by Discrete Analyser (QCLot: 3868889)								
ED045G: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	102	85.0	115
				<1	1000 mg/L	112	85.0	122
EG052G: Silica by Discrete Analyser (QCLot: 3868885)								
EG052G: Reactive Silica	----	0.05	mg/L	<0.05	5 mg/L	103	78.9	118
EG052G: Silica by Discrete Analyser (QCLot: 3868887)								
EG052G: Reactive Silica	----	0.05	mg/L	<0.05	5 mg/L	106	78.9	118
EK057G: Nitrite as N by Discrete Analyser (QCLot: 3868883)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	95.0	90.9	112
EK057G: Nitrite as N by Discrete Analyser (QCLot: 3868888)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	98.6	90.9	112
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 3871145)								

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report: Result	Laboratory Control Spike (LCS) Report: Spike Concentration	Spike Recovery (%): LCS	Acceptable Limits (%): Low	Acceptable Limits (%): High
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 3871145) - continued								
EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.5 mg/L	104	90.0	117
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 3871147)								
EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.5 mg/L	104	90.0	117
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 3869608)								
EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	5 mg/L	90.6	70.0	117
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 3869610)								
EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	5 mg/L	101	70.0	117
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 3869609)								
EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.01	2.21 mg/L	84.8	71.9	114
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 3869611)								
EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.01	2.21 mg/L	90.1	71.9	114
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 3868884)								
EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	113	92.7	119
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 3868890)								
EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	116	92.7	119
EP002: Dissolved Organic Carbon (DOC) (QCLot: 3870316)								
EP002: Dissolved Organic Carbon	----	1	mg/L	<1	100 mg/L	97.0	83.0	115
EP005: Total Organic Carbon (TOC) (QCLot: 3870315)								
EP005: Total Organic Carbon	----	1	mg/L	<1	100 mg/L	97.6	81.2	110
EP008: Chlorophyll (QCLot: 3873162)								
EP008B: Chlorophyll b	----	1	mg/m³	<1	----	----	----	----
EP008: Chlorophyll (QCLot: 3873163)								
EP008B: Chlorophyll b	----	1	mg/m³	<1	----	----	----	----
EP008: Chlorophyll (QCLot: 3873164)								
EP008: Chlorophyll a	----	1	mg/m³	<1	20 mg/m³	98.6	70.0	130
EP008: Pheophytin a	----	1	mg/m³	<1	----	----	----	----
EP008: Chlorophyll (QCLot: 3873165)								
EP008: Chlorophyll a	----	1	mg/m³	<1	20 mg/m³	97.2	70.0	130
EP008: Pheophytin a	----	1	mg/m³	<1	----	----	----	----

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**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Matrix Spike (MS) Report: Spike Concentration	SpikeRecovery(%): MS	Acceptable Limits (%): Low	Acceptable Limits (%): High

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-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 3871146)							
EM2116912-002	US Tauwitchere	EK055G-SW: Ammonia as N	7664-41-7	0.5 mg/L	79.2	70.0	130
ED045G: Chloride by Discrete Analyser (QCLot: 3868886)							
EM2116912-002	US Tauwitchere	ED045G: Chloride	16887-00-6	400 mg/L	96.0	70.0	142
ED045G: Chloride by Discrete Analyser (QCLot: 3868889)							
EM2116923-001	Anonymous	ED045G: Chloride	16887-00-6	400 mg/L	# Not Determined	70.0	142
EG052G: Silica by Discrete Analyser (QCLot: 3868885)							
EM2116912-002	US Tauwitchere	EG052G: Reactive Silica	----	5 mg/L	101	80.0	120
EK057G: Nitrite as N by Discrete Analyser (QCLot: 3868883)							
EM2116912-002	US Tauwitchere	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	92.5	80.0	114
EK057G: Nitrite as N by Discrete Analyser (QCLot: 3868888)							
EM2116923-001	Anonymous	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	94.5	80.0	114
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 3871145)							
EM2116912-002	US Tauwitchere	EK059G: Nitrite + Nitrate as N	----	0.5 mg/L	100	70.0	130
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 3869608)							
EM2116892-007	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	5 mg/L	99.2	70.0	130
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 3869610)							
EM2116912-012	North Jacks Point	EK061G: Total Kjeldahl Nitrogen as N	----	5 mg/L	83.0	70.0	130
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 3869609)							
EM2116892-007	Anonymous	EK067G: Total Phosphorus as P	----	1 mg/L	81.2	70.0	130
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 3869611)							
EM2116912-012	North Jacks Point	EK067G: Total Phosphorus as P	----	1 mg/L	85.2	70.0	130
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 3868884)							
EM2116912-002	US Tauwitchere	EK071G: Reactive Phosphorus as P	14265-44-2	0.5 mg/L	100	79.0	123
EP002: Dissolved Organic Carbon (DOC) (QCLot: 3870316)							
EM2116912-002	US Tauwitchere	EP002: Dissolved Organic Carbon	----	100 mg/L	# 122	75.0	117
EP005: Total Organic Carbon (TOC) (QCLot: 3870315)							
EM2116912-003	DS Tauwitchere	EP005: Total Organic Carbon	----	100 mg/L	104	76.6	125