

QUALITY CONTROL REPORT

Work Order	: EM2118068	Page	: 1 of 8
Client	: Dept for Environment & Water	Laboratory	: Environmental Division Melbourne
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Project	: HCHB	Date Samples Received	: 10-Sep-2021
Order number	: ----	Date Analysis Commenced	: 10-Sep-2021
C-O-C number	: ----	Issue Date	: 21-Sep-2021
Sampler	: RB		
Site	: ----		
Quote number	: AD/052/20 V2		
No. of samples received	: 22		
No. of samples analysed	: 22		



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.

<i>Signatories</i>	<i>Position</i>	<i>Accreditation Category</i>
Dilani Fernando	Senior Inorganic Chemist	Melbourne Inorganics, Springvale, VIC
Jarwis Nheu	Non-Metals Team Leader	Melbourne Inorganics, Springvale, VIC
Samantha Smith	Assistant Laboratory Manager	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: 3898398)									
EM2118068-001	Murray Mouth	EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	0.09	0.07	25.0	No Limit
EM2118068-010	Villa du Yumpa	EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	<0.02	<0.02	0.0	No Limit
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QC Lot: 3898400)									
EM2118068-021	Tilley Swamp Drain D/S Nth Outlet	EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	0.03	0.03	0.0	No Limit
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QC Lot: 3899992)									
EM2118061-001	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	14800	14900	0.9	0% - 20%
EM2118061-010	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	11800	12100	2.7	0% - 20%
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QC Lot: 3899994)									
EM2118068-009	Pamka Point	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	73900	76100	3.0	0% - 20%
EM2118068-018	1.8km West of Salt Creek	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	67000	68100	1.6	0% - 20%
EA045: Turbidity (QC Lot: 3896558)									
EM2118068-001	Murray Mouth	EA045: Turbidity	----	0.1	NTU	20.7	20.1	2.9	0% - 20%
EM2118068-010	Villa du Yumpa	EA045: Turbidity	----	0.1	NTU	9.1	8.7	4.6	0% - 20%
EA045: Turbidity (QC Lot: 3896559)									
EM2118068-021	Tilley Swamp Drain D/S Nth Outlet	EA045: Turbidity	----	0.1	NTU	2.2	2.0	7.7	0% - 20%
ED037P: Alkalinity by PC Titrator (QC Lot: 3900223)									
EM2118061-013	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	3	2	61.4	No Limit
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	3	2	61.4	No Limit
EM2118068-008	McGrath Flat North	ED037-P: Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	0.0	No Limit

Page : 3 of 8
 Work Order : EM2118068
 Client : Dept for Environment & Water
 Project : HCHB



Sub-Matrix: **WATER**

Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report					
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
ED037P: Alkalinity by PC Titrator (QC Lot: 3900223) - continued									
EM2118068-008	McGrath Flat North	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	193	198	2.8	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	193	198	2.8	0% - 20%
ED037P: Alkalinity by PC Titrator (QC Lot: 3900224)									
EM2118068-018	1.8km West of Salt Creek	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	248	238	3.7	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	248	238	3.7	0% - 20%
EM2118106-001	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	226	232	2.5	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	226	232	2.5	0% - 20%
ED045G: Chloride by Discrete Analyser (QC Lot: 3896695)									
EM2118061-001	Anonymous	ED045G: Chloride	16887-00-6	1	mg/L	7900	7960	0.7	0% - 20%
EM2118061-009	Anonymous	ED045G: Chloride	16887-00-6	1	mg/L	7940	7960	0.2	0% - 20%
ED045G: Chloride by Discrete Analyser (QC Lot: 3896699)									
EM2118068-006	Noonameena	ED045G: Chloride	16887-00-6	1	mg/L	26000	23900	8.3	0% - 20%
EM2118068-014	Snipe Point	ED045G: Chloride	16887-00-6	1	mg/L	42200	41600	1.5	0% - 20%
EG052G: Silica by Discrete Analyser (QC Lot: 3896697)									
EM2118068-011	Stony Well	EG052G: Reactive Silica	----	0.05	mg/L	0.28	0.28	0.0	No Limit
EM2118068-001	Murray Mouth	EG052G: Reactive Silica	----	0.05	mg/L	0.87	0.85	2.3	0% - 50%
EG052G: Silica by Discrete Analyser (QC Lot: 3896701)									
EM2118068-021	Tilley Swamp Drain D/S Nth Outlet	EG052G: Reactive Silica	----	0.05	mg/L	7.63	7.64	0.0	0% - 20%
EK057G: Nitrite as N by Discrete Analyser (QC Lot: 3896696)									
EM2118061-016	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EM2118068-005	Long Point	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: 3896700)									
EM2118068-016	Morella Creek @ Guage	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.02	0.01	0.0	No Limit
EM2118072-003	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.01	0.01	0.0	No Limit
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QC Lot: 3898396)									
EM2118059-001	Anonymous	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	19.9	19.8	0.7	0% - 20%
EM2118061-006	Anonymous	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	0.13	0.12	0.0	0% - 50%
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QC Lot: 3898399)									
EM2118068-003	DS Tauwitchere	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	0.02	0.02	0.0	No Limit
EM2118068-012	North Jacks Point	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QC Lot: 3899987)									
EM2118068-001	Murray Mouth	EK061G: Total Kieldahl Nitrogen as N	----	0.1	mg/L	1.4	1.4	0.0	0% - 50%

Page : 4 of 8
 Work Order : EM2118068
 Client : Dept for Environment & Water
 Project : HCHB



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: 3899987) - continued									
EM2118068-010	Villa du Yumpa	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	2.6	2.5	5.0	0% - 20%
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QC Lot: 3899989)									
EM2118106-001	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	1.0	0.7	41.8	0% - 50%
EM2118113-001	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.5	0.2	78.9	No Limit
EK067G: Total Phosphorus as P by Discrete Analyser (QC Lot: 3899986)									
EM2118068-001	Murray Mouth	EK067G: Total Phosphorus as P	----	0.01	mg/L	0.11	0.09	13.6	0% - 50%
EM2118068-010	Villa du Yumpa	EK067G: Total Phosphorus as P	----	0.01	mg/L	1.73	1.90	9.3	0% - 20%
EK067G: Total Phosphorus as P by Discrete Analyser (QC Lot: 3899988)									
EM2118106-001	Anonymous	EK067G: Total Phosphorus as P	----	0.01	mg/L	0.04	0.03	0.0	No Limit
EM2118113-001	Anonymous	EK067G: Total Phosphorus as P	----	0.01	mg/L	0.41	0.34	17.2	0% - 20%
EK071G: Reactive Phosphorus as P by discrete analyser (QC Lot: 3896698)									
EM2118068-010	Villa du Yumpa	EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EM2118068-001	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: 3896702)									
EM2118103-008	Anonymous	EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	0.03	0.02	0.0	No Limit
EM2118068-021	Tilley Swamp Drain D/S Nth 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: 3898954)									
EM2118068-001	Murray Mouth	EP002: Dissolved Organic Carbon	----	1	mg/L	7	7	0.0	No Limit
EM2118068-010	Villa du Yumpa	EP002: Dissolved Organic Carbon	----	1	mg/L	24	23	0.0	0% - 20%
EP002: Dissolved Organic Carbon (DOC) (QC Lot: 3900952)									
EM2118068-013	Seagull Island	EP002: Dissolved Organic Carbon	----	1	mg/L	24	24	0.0	0% - 20%
EM2118068-022	Tilley Swamp Drain Watercourse Outlet	EP002: Dissolved Organic Carbon	----	1	mg/L	7	2	118	No Limit
EP005: Total Organic Carbon (TOC) (QC Lot: 3898955)									
EM2118068-001	Murray Mouth	EP005: Total Organic Carbon	----	1	mg/L	9	9	0.0	No Limit
EM2118068-010	Villa du Yumpa	EP005: Total Organic Carbon	----	1	mg/L	29	27	5.5	0% - 20%
EP005: Total Organic Carbon (TOC) (QC Lot: 3900951)									
EM2118068-013	Seagull Island	EP005: Total Organic Carbon	----	1	mg/L	30	30	0.0	0% - 20%
EM2118068-022	Tilley Swamp Drain Watercourse Outlet	EP005: Total Organic Carbon	----	1	mg/L	7	6	0.0	No Limit

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 Concentration	Spike Recovery (%) LCS	Acceptable Limits (%) Low High	
Method: Compound	CAS Number	LOR	Unit	Result				
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 3898398)								
EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	<0.02	0.5 mg/L	97.3	81.1	124
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 3898400)								
EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	<0.02	0.5 mg/L	115	81.1	124
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QCLot: 3899992)								
EA015H: Total Dissolved Solids @180°C	----	10	mg/L	<10	2000 mg/L	99.8	91.0	110
				<10	293 mg/L	104	91.0	110
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QCLot: 3899994)								
EA015H: Total Dissolved Solids @180°C	----	10	mg/L	<10	2000 mg/L	101	91.0	110
				<10	293 mg/L	99.0	91.0	110
EA045: Turbidity (QCLot: 3896558)								
EA045: Turbidity	----	0.1	NTU	<0.1	40 NTU	102	88.1	110
EA045: Turbidity (QCLot: 3896559)								
EA045: Turbidity	----	0.1	NTU	<0.1	40 NTU	101	88.1	110
ED037P: Alkalinity by PC Titrator (QCLot: 3900223)								
ED037-P: Total Alkalinity as CaCO3	----	----	mg/L	----	200 mg/L	95.0	85.0	116
ED037P: Alkalinity by PC Titrator (QCLot: 3900224)								
ED037-P: Total Alkalinity as CaCO3	----	----	mg/L	----	200 mg/L	98.4	85.0	116
ED045G: Chloride by Discrete Analyser (QCLot: 3896695)								
ED045G: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	99.7	85.0	115
				<1	1000 mg/L	104	85.0	122
ED045G: Chloride by Discrete Analyser (QCLot: 3896699)								
ED045G: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	97.8	85.0	115
				<1	1000 mg/L	107	85.0	122
EG052G: Silica by Discrete Analyser (QCLot: 3896697)								
EG052G: Reactive Silica	----	0.05	mg/L	<0.05	5 mg/L	102	78.9	118
EG052G: Silica by Discrete Analyser (QCLot: 3896701)								
EG052G: Reactive Silica	----	0.05	mg/L	<0.05	5 mg/L	104	78.9	118
EK057G: Nitrite as N by Discrete Analyser (QCLot: 3896696)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	93.5	90.9	112
EK057G: Nitrite as N by Discrete Analyser (QCLot: 3896700)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	95.3	90.9	112
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 3898396)								

Matrix Spike (MS) Report

Sub-Matrix: **WATER**

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: 3898398)							
EM2118068-002	US Tauwitschere	EK055G-SW: Ammonia as N	7664-41-7	0.5 mg/L	106	70.0	130
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 3898400)							
EM2118068-022	Tilley Swamp Drain Watercourse Outlet	EK055G-SW: Ammonia as N	7664-41-7	0.5 mg/L	108	70.0	130
ED045G: Chloride by Discrete Analyser (QCLot: 3896695)							



Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
ED045G: Chloride by Discrete Analyser (QCLot: 3896695) - continued							
EM2118061-002	Anonymous	ED045G: Chloride	16887-00-6	400 mg/L	81.2	70.0	142
ED045G: Chloride by Discrete Analyser (QCLot: 3896699)							
EM2118068-007	Bonneys	ED045G: Chloride	16887-00-6	400 mg/L	# Not Determined	70.0	142
EG052G: Silica by Discrete Analyser (QCLot: 3896697)							
EM2118068-002	US Tauwitschere	EG052G: Reactive Silica	----	5 mg/L	100	80.0	120
EG052G: Silica by Discrete Analyser (QCLot: 3896701)							
EM2118068-022	Tilley Swamp Drain Watercourse Outlet	EG052G: Reactive Silica	----	25 mg/L	103	80.0	120
EK057G: Nitrite as N by Discrete Analyser (QCLot: 3896696)							
EM2118061-017	Anonymous	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	105	80.0	114
EK057G: Nitrite as N by Discrete Analyser (QCLot: 3896700)							
EM2118068-017	Salt Creek Outlet	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	97.6	80.0	114
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 3898396)							
EM2118059-002	Anonymous	EK059G: Nitrite + Nitrate as N	----	0.5 mg/L	# Not Determined	70.0	130
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 3898399)							
EM2118068-004	Mark Point	EK059G: Nitrite + Nitrate as N	----	0.5 mg/L	94.6	70.0	130
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 3899987)							
EM2118068-002	US Tauwitschere	EK061G: Total Kjeldahl Nitrogen as N	----	5 mg/L	87.5	70.0	130
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 3899989)							
EM2118068-022	Tilley Swamp Drain Watercourse Outlet	EK061G: Total Kjeldahl Nitrogen as N	----	5 mg/L	97.6	70.0	130
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 3899986)							
EM2118068-002	US Tauwitschere	EK067G: Total Phosphorus as P	----	1 mg/L	88.1	70.0	130
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 3899988)							
EM2118068-022	Tilley Swamp Drain Watercourse Outlet	EK067G: Total Phosphorus as P	----	1 mg/L	89.1	70.0	130
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 3896698)							
EM2118068-002	US Tauwitschere	EK071G: Reactive Phosphorus as P	14265-44-2	0.5 mg/L	108	79.0	123
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 3896702)							
EM2118068-022	Tilley Swamp Drain Watercourse Outlet	EK071G: Reactive Phosphorus as P	14265-44-2	0.5 mg/L	104	79.0	123
EP002: Dissolved Organic Carbon (DOC) (QCLot: 3898954)							
EM2118068-002	US Tauwitschere	EP002: Dissolved Organic Carbon	----	100 mg/L	115	75.0	117
EP002: Dissolved Organic Carbon (DOC) (QCLot: 3900952)							
EM2118068-014	Snipe Point	EP002: Dissolved Organic Carbon	----	100 mg/L	108	75.0	117



Sub-Matrix: WATER

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EP005: Total Organic Carbon (TOC) (QCLot: 3898955)							
EM2118068-002	US Tauwitschere	EP005: Total Organic Carbon	----	100 mg/L	106	76.6	125
EP005: Total Organic Carbon (TOC) (QCLot: 3900951)							
EM2118068-014	Snipe Point	EP005: Total Organic Carbon	----	100 mg/L	95.9	76.6	125