ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **EM2209350**	Page	: 1 of 8
Client	: **Dept for Environment & Water**	Laboratory	: Environmental Division Melbourne
Contact	: STEPHEN MADIGAN	Contact	: Kieren Burns
Address	: GPO BOX 2834 ADELAIDE SA, AUSTRALIA 5001	Address	: 4 Westall Rd Springvale VIC Australia 3171
Telephone	: ----	Telephone	: +61881625130
Project	: Healthy Coorong, Healthy Basin - Phase 1	Date Samples Received	: 20-May-2022
Order number	: ----	Date Analysis Commenced	: 20-May-2022
C-O-C number	: ----	Issue Date	: 31-May-2022
Sampler	: WRMU		
Site	: ----		
Quote number	: AD/052/20 V2		
No. of samples received	: 22		
No. of samples analysed	: 22		

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
Dilani Fernando	Laboratory Coordinator	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: 4353991)									
EM2209350-001	1.8km west of Salt Creek	EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	<0.02	<0.02	0.0	No Limit
EM2209350-010	Murray Mouth	EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	0.21	0.19	8.1	0% - 50%
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QC Lot: 4353993)									
EM2209350-021	US Tauwitchere	EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	0.15	0.12	17.8	No Limit
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QC Lot: 4354791)									
EM2209253-001	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	6930	7000	1.1	0% - 20%
EM2209334-001	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	1100	1060	3.9	0% - 20%
EM2209096-001	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	351	361	2.8	0% - 20%
EM2209223-008	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	1610	1600	0.7	0% - 20%
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QC Lot: 4355910)									
EM2209350-009	Morella Creek @ guage	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	13000	12900	1.1	0% - 20%
EM2209350-020	Tilley Swamp Watercourse Outlet	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	4580	4580	0.0	0% - 20%
EM2209353-009	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	1020	1070	4.1	0% - 20%
EM2209226-008	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	3150	3040	3.4	0% - 20%
EA045: Turbidity (QC Lot: 4351835)									
EM2209350-001	1.8km west of Salt Creek	EA045: Turbidity	----	0.1	NTU	10.8	10.1	6.7	0% - 20%
EM2209350-010	Murray Mouth	EA045: Turbidity	----	0.1	NTU	8.1	8.1	0.0	0% - 20%
EA045: Turbidity (QC Lot: 4351836)									
EM2209350-021	US Tauwitchere	EA045: Turbidity	----	0.1	NTU	29.5	29.4	0.3	0% - 20%
ED037P: Alkalinity by PC Titrator (QC Lot: 4358931)									
EM2209350-002	3.2km south of Salt Creek (land)	ED037-P: Hydroxide Alkalinity as CaCO3	DMO-210-001	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: 4358931) - continued									
EM2209350-002	3.2km south of Salt Creek (land)	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	231	229	0.5	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	231	229	0.5	0% - 20%
EM2209350-012	North Jacks 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	197	198	0.6	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	197	198	0.6	0% - 20%
ED037P: Alkalinity by PC Titrator (QC Lot: 4358932)									
EM2209359-006	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	206	208	0.9	0% - 20%
		ED037-P: Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	1500	1460	2.9	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	1710	1670	2.5	0% - 20%
EM2209356-005	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
ED045G: Chloride by Discrete Analyser (QC Lot: 4351845)									
EM2209366-011	Anonymous	ED045G: Chloride	16887-00-6	1	mg/L	3530	3550	0.6	0% - 20%
EM2209350-003	Bonneys	ED045G: Chloride	16887-00-6	1	mg/L	1370	1380	0.4	0% - 20%
ED045G: Chloride by Discrete Analyser (QC Lot: 4352505)									
EM2209350-015	Snip Point	ED045G: Chloride	16887-00-6	1	mg/L	53500	51900	3.0	0% - 20%
EM2209226-008	Anonymous	ED045G: Chloride	16887-00-6	1	mg/L	1110	1100	1.3	0% - 20%
EG052G: Silica by Discrete Analyser (QC Lot: 4351844)									
EM2209350-003	Bonneys	EG052G: Reactive Silica	----	0.05	mg/L	3.60	3.44	4.5	0% - 20%
EG052G: Silica by Discrete Analyser (QC Lot: 4352507)									
EM2209350-018	Tilley Swamp D/S Nth Outlet	EG052G: Reactive Silica	----	0.05	mg/L	9.50	9.54	0.5	0% - 20%
EM2209350-001	1.8km west of Salt Creek	EG052G: Reactive Silica	----	0.05	mg/L	4.94	4.91	0.6	0% - 20%
EK057G: Nitrite as N by Discrete Analyser (QC Lot: 4351843)									
EM2209357-002	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EM2209350-003	Bonneys	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.08	0.08	0.0	No Limit
EK057G: Nitrite as N by Discrete Analyser (QC Lot: 4352506)									
EM2209350-016	South Policeman Point	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EM2209226-008	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	3.48	3.68	5.5	0% - 20%
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QC Lot: 4353990)									
EM2209350-001	1.8km west of Salt Creek	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EM2209350-010	Murray Mouth	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	0.02	0.03	0.0	No Limit
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QC Lot: 4353992)									

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 (%)*
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QC Lot: 4353992) - continued									
EM2209350-021	US Tauwitchere	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	0.03	0.02	68.8	No Limit
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QC Lot: 4353587)									
EM2209329-001	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	26.2	26.5	1.3	0% - 20%
EM2209350-005	Long Point	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.5	0.6	0.0	No Limit
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QC Lot: 4353589)									
EM2209350-013	Parnka Point	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	2.6	6.3	84.2	No Limit
EM2209350-022	Villa de Yumpa	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	6.4	7.6	17.1	No Limit
EK067G: Total Phosphorus as P by Discrete Analyser (QC Lot: 4353588)									
EM2209329-001	Anonymous	EK067G: Total Phosphorus as P	----	0.01	mg/L	8.27	8.03	3.0	0% - 20%
EM2209350-005	Long Point	EK067G: Total Phosphorus as P	----	0.01	mg/L	0.04	0.03	0.0	No Limit
EK067G: Total Phosphorus as P by Discrete Analyser (QC Lot: 4353590)									
EM2209350-022	Villa de Yumpa	EK067G: Total Phosphorus as P	----	0.01	mg/L	0.32	0.75	81.6	No Limit
EM2209369-004	Anonymous	EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EK071G: Reactive Phosphorus as P by discrete analyser (QC Lot: 4351846)									
EM2209369-002	Anonymous	EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	0.01	0.01	0.0	No Limit
EM2209350-003	Bonneys	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: 4352508)									
EM2209350-017	Stony Well	EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EM2209350-001	1.8km west of Salt Creek	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: 4359308)									
EM2209226-002	Anonymous	EP002: Dissolved Organic Carbon	----	1	mg/L	22	18	17.7	0% - 20%
EM2209350-005	Long Point	EP002: Dissolved Organic Carbon	----	1	mg/L	12	12	0.0	0% - 50%
EP002: Dissolved Organic Carbon (DOC) (QC Lot: 4359310)									
EM2209350-016	South Policeman Point	EP002: Dissolved Organic Carbon	----	1	mg/L	38	38	0.0	0% - 20%
EP002: Dissolved Organic Carbon (DOC) (QC Lot: 4362189)									
EM2209226-008	Anonymous	EP002: Dissolved Organic Carbon	----	1	mg/L	35	54	43.9	No Limit
EM2209356-004	Anonymous	EP002: Dissolved Organic Carbon	----	1	mg/L	8	7	13.9	No Limit
EP005: Total Organic Carbon (TOC) (QC Lot: 4359309)									
EM2209226-002	Anonymous	EP005: Total Organic Carbon	----	1	mg/L	23	# 18	25.0	0% - 20%
EM2209350-005	Long Point	EP005: Total Organic Carbon	----	1	mg/L	10	10	0.0	0% - 50%
EP005: Total Organic Carbon (TOC) (QC Lot: 4359311)									
EM2209350-016	South Policeman Point	EP005: Total Organic Carbon	----	1	mg/L	43	44	0.0	0% - 20%
EP005: Total Organic Carbon (TOC) (QC Lot: 4362190)									
EM2209350-017	Stony Well	EP005: Total Organic Carbon	----	1	mg/L	30	31	4.1	No Limit
EM2209356-004	Anonymous	EP005: Total Organic Carbon	----	1	mg/L	6	<5	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) 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: 4353991)								
EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	<0.02	0.5 mg/L	108	81.1	124
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 4353993)								
EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	<0.02	0.5 mg/L	97.5	81.1	124
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QCLot: 4354791)								
EA015H: Total Dissolved Solids @180°C	----	10	mg/L	<10	2000 mg/L	99.6	91.0	110
				<10	2460 mg/L	98.6	81.7	118
				<10	293 mg/L	95.2	91.0	110
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QCLot: 4355910)								
EA015H: Total Dissolved Solids @180°C	----	10	mg/L	<10	2000 mg/L	97.0	91.0	110
				<10	2460 mg/L	101	81.7	118
				<10	293 mg/L	95.9	91.0	110
EA045: Turbidity (QCLot: 4351835)								
EA045: Turbidity	----	0.1	NTU	<0.1	40 NTU	96.2	88.1	110
EA045: Turbidity (QCLot: 4351836)								
EA045: Turbidity	----	0.1	NTU	<0.1	40 NTU	97.8	88.1	110
ED037P: Alkalinity by PC Titrator (QCLot: 4358931)								
ED037-P: Total Alkalinity as CaCO3	----	----	mg/L	----	200 mg/L	106	85.0	116
ED037P: Alkalinity by PC Titrator (QCLot: 4358932)								
ED037-P: Total Alkalinity as CaCO3	----	----	mg/L	----	200 mg/L	107	85.0	116
ED045G: Chloride by Discrete Analyser (QCLot: 4351845)								
ED045G: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	97.0	85.0	115
				<1	1000 mg/L	94.0	85.0	122
ED045G: Chloride by Discrete Analyser (QCLot: 4352505)								
ED045G: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	98.2	85.0	115
				<1	1000 mg/L	95.5	85.0	122
EG052G: Silica by Discrete Analyser (QCLot: 4351844)								
EG052G: Reactive Silica	----	0.05	mg/L	<0.05	5 mg/L	94.0	78.9	118
EG052G: Silica by Discrete Analyser (QCLot: 4352507)								
EG052G: Reactive Silica	----	0.05	mg/L	<0.05	5 mg/L	94.8	78.9	118
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4351843)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	104	90.9	112
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4352506)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	100	90.9	112

Sub-Matrix: **WATER**

Method: Compound	CAS Number	LOR	Unit	Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike	Spike Recovery (%)	Acceptable Limits (%)	
				Result	Concentration	LCS	Low	High
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4353990)								
EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.5 mg/L	116	90.0	117
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4353992)								
EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.5 mg/L	115	90.0	117
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4353587)								
EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	5 mg/L	92.8	70.0	117
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4353589)								
EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	5 mg/L	84.3	70.0	117
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4353588)								
EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.01	2.21 mg/L	85.2	71.9	114
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4353590)								
EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.01	2.21 mg/L	84.4	71.9	114
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 4351846)								
EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	98.6	92.7	119
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 4352508)								
EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	110	92.7	119
EP002: Dissolved Organic Carbon (DOC) (QCLot: 4359308)								
EP002: Dissolved Organic Carbon	----	1	mg/L	<1	100 mg/L	102	83.0	115
EP002: Dissolved Organic Carbon (DOC) (QCLot: 4359310)								
EP002: Dissolved Organic Carbon	----	1	mg/L	<1	100 mg/L	104	83.0	115
EP002: Dissolved Organic Carbon (DOC) (QCLot: 4362189)								
EP002: Dissolved Organic Carbon	----	1	mg/L	<1	100 mg/L	99.0	83.0	115
EP005: Total Organic Carbon (TOC) (QCLot: 4359309)								
EP005: Total Organic Carbon	----	1	mg/L	<1	100 mg/L	103	81.2	110
EP005: Total Organic Carbon (TOC) (QCLot: 4359311)								
EP005: Total Organic Carbon	----	1	mg/L	<1	100 mg/L	104	81.2	110
EP005: Total Organic Carbon (TOC) (QCLot: 4362190)								
EP005: Total Organic Carbon	----	1	mg/L	<1	100 mg/L	100	81.2	110
EP008: Chlorophyll (QCLot: 4357136)								
EP008: Chlorophyll a	----	1	mg/m³	<1	20 mg/m³	103	70.0	130
EP008: Chlorophyll (QCLot: 4357137)								
EP008: Chlorophyll a	----	1	mg/m³	<1	20 mg/m³	108	70.0	130
EP008: Chlorophyll (QCLot: 4357146)								
EP008B: Chlorophyll b	----	1	mg/m³	<1	----	----	----	----
EP008: Chlorophyll (QCLot: 4357147)								
EP008B: Chlorophyll b	----	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**

				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: 4353991)							
EM2209350-002	3.2km south of Salt Creek (land)	EK055G-SW: Ammonia as N	7664-41-7	0.5 mg/L	# 61.1	70.0	130
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 4353993)							
EM2209350-022	Villa de Yumpa	EK055G-SW: Ammonia as N	7664-41-7	0.5 mg/L	81.7	70.0	130
ED045G: Chloride by Discrete Analyser (QCLot: 4351845)							
EM2209350-004	DS Tauwitchere	ED045G: Chloride	16887-00-6	400 mg/L	70.7	70.0	142
ED045G: Chloride by Discrete Analyser (QCLot: 4352505)							
EM2209350-001	1.8km west of Salt Creek	ED045G: Chloride	16887-00-6	400 mg/L	# Not Determined	70.0	142
EG052G: Silica by Discrete Analyser (QCLot: 4351844)							
EM2209350-004	DS Tauwitchere	EG052G: Reactive Silica	----	5 mg/L	105	80.0	120
EG052G: Silica by Discrete Analyser (QCLot: 4352507)							
EM2209350-002	3.2km south of Salt Creek (land)	EG052G: Reactive Silica	----	5 mg/L	# 72.0	80.0	120
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4351843)							
EM2209350-004	DS Tauwitchere	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	90.8	80.0	114
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4352506)							
EM2209350-001	1.8km west of Salt Creek	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	86.4	80.0	114
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4353990)							
EM2209350-002	3.2km south of Salt Creek (land)	EK059G: Nitrite + Nitrate as N	----	0.5 mg/L	87.9	70.0	130
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4353992)							
EM2209350-022	Villa de Yumpa	EK059G: Nitrite + Nitrate as N	----	0.5 mg/L	91.9	70.0	130
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4353587)							
EM2209329-002	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	5 mg/L	107	70.0	130
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4353589)							
EM2209350-017	Stony Well	EK061G: Total Kjeldahl Nitrogen as N	----	5 mg/L	95.7	70.0	130
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4353588)							
EM2209329-002	Anonymous	EK067G: Total Phosphorus as P	----	1 mg/L	106	70.0	130
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4353590)							
EM2209350-017	Stony Well	EK067G: Total Phosphorus as P	----	1 mg/L	106	70.0	130
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 4351846)							

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 4351846) - continued							
EM2209350-004	DS Tauwitchere	EK071G: Reactive Phosphorus as P	14265-44-2	0.5 mg/L	83.3	79.0	123
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 4352508)							
EM2209350-002	3.2km south of Salt Creek (land)	EK071G: Reactive Phosphorus as P	14265-44-2	0.5 mg/L	97.6	79.0	123
EP002: Dissolved Organic Carbon (DOC) (QCLot: 4359308)							
EM2209226-003	Anonymous	EP002: Dissolved Organic Carbon	----	100 mg/L	98.3	75.0	117
EP002: Dissolved Organic Carbon (DOC) (QCLot: 4362189)							
EM2209350-017	Stony Well	EP002: Dissolved Organic Carbon	----	500 mg/L	99.6	75.0	117
EP005: Total Organic Carbon (TOC) (QCLot: 4359309)							
EM2209226-003	Anonymous	EP005: Total Organic Carbon	----	100 mg/L	103	76.6	125
EP005: Total Organic Carbon (TOC) (QCLot: 4362190)							
EM2209350-018	Tilley Swamp D/S Nth Outlet	EP005: Total Organic Carbon	----	100 mg/L	96.7	76.6	125