ALS Environmental

QUALITY CONTROL REPORT

Work Order	: **EM2207234**	Page	: 1 of 8
Client	: **Dept for Environment & Water**	Laboratory	: Environmental Division Melbourne
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Project	: HCHB	Date Samples Received	: 22-Apr-2022
Order number	: ----	Date Analysis Commenced	: 22-Apr-2022
C-O-C number	: ----	Issue Date	: 02-May-2022
Sampler	: RD		
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*
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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: 4303604)									
EM2207234-001	Murray Mouth	EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	0.07	0.06	0.0	No Limit
EM2207234-010	Villa de 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: 4303606)									
EM2207234-021	Tilley Swamp Drain U/S Morella	EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	0.36	0.34	3.2	0% - 50%
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QC Lot: 4302458)									
EM2207149-008	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	6110	6160	0.9	0% - 20%
EM2207195-004	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	31200	32100	2.7	0% - 20%
EM2207234-003	DS Tauwitchere	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	268	267	0.6	0% - 20%
EM2207028-001	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	225	227	0.6	0% - 20%
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QC Lot: 4305214)									
EM2207234-015	Snipe Point	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	128000	116000	10.2	0% - 20%
EM2207246-003	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	9060	9100	0.5	0% - 20%
EM2207285-006	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	4180	4270	2.1	0% - 20%
EM2207180-001	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	4920	5170	5.0	0% - 20%
EA045: Turbidity (QC Lot: 4300464)									
EM2207225-002	Anonymous	EA045: Turbidity	----	0.1	NTU	0.2	0.2	0.0	No Limit
EM2207234-009	Parnka Point	EA045: Turbidity	----	0.1	NTU	12.7	12.6	0.8	0% - 20%
EA045: Turbidity (QC Lot: 4300465)									
EM2207234-020	3.2km south of Salt Creek (land)	EA045: Turbidity	----	0.1	NTU	29.6	29.4	0.7	0% - 20%
ED037P: Alkalinity by PC Titrator (QC Lot: 4304348)									
EM2207050-020	Anonymous	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: 4304348) - continued									
EM2207050-020	Anonymous	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
EM2207195-014	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	829	829	0.0	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	829	829	0.0	0% - 20%
ED037P: Alkalinity by PC Titrator (QC Lot: 4304352)									
EM2207234-007	Bonneys	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	132	133	0.0	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	132	133	0.0	0% - 20%
EM2207234-017	Morella Creek @ gauge	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	117	122	3.6	0% - 20%
		ED037-P: Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	292	288	1.3	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	410	410	0.0	0% - 20%
ED045G: Chloride by Discrete Analyser (QC Lot: 4300286)									
EM2207234-009	Parnka Point	ED045G: Chloride	16887-00-6	1	mg/L	25300	25500	0.6	0% - 20%
EM2207234-001	Murray Mouth	ED045G: Chloride	16887-00-6	1	mg/L	4100	4110	0.4	0% - 20%
ED045G: Chloride by Discrete Analyser (QC Lot: 4300290)									
EM2207234-021	Tilley Swamp Drain U/S Morella	ED045G: Chloride	16887-00-6	1	mg/L	2670	2660	0.5	0% - 20%
EG052G: Silica by Discrete Analyser (QC Lot: 4300285)									
EM2207234-011	Tilley Swamp Drain D/S Nth Outlet	EG052G: Reactive Silica	----	0.05	mg/L	12.8	12.7	0.3	0% - 20%
EM2207234-001	Murray Mouth	EG052G: Reactive Silica	----	0.05	mg/L	2.04	2.02	1.0	0% - 20%
EG052G: Silica by Discrete Analyser (QC Lot: 4300289)									
EM2207234-021	Tilley Swamp Drain U/S Morella	EG052G: Reactive Silica	----	0.05	mg/L	12.0	12.1	0.3	0% - 20%
EK057G: Nitrite as N by Discrete Analyser (QC Lot: 4300284)									
EM2207234-010	Villa de Yumpa	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EM2207234-001	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: 4300288)									
EM2207234-021	Tilley Swamp Drain U/S Morella	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: 4303603)									
EM2207234-001	Murray Mouth	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	0.07	0.09	25.7	No Limit
EM2207234-010	Villa de 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: 4303605)									

Sub-Matrix: **WATER**

Laboratory sample ID	Sample ID	Method: Compound	CAS Number	Laboratory Duplicate (DUP) Report					
				LOR	Unit	Original Result	Duplicate Result	RPD (%)	Acceptable RPD (%)
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QC Lot: 4303605) - continued									
EM2207234-021	Tilley Swamp Drain U/S Morella	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: 4301067)									
EM2207206-001	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	4.7	3.2	37.2	No Limit
EM2207206-010	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	1.8	2.0	9.4	No Limit
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QC Lot: 4301070)									
EM2207234-003	DS Tauwitchere	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	1.2	1.3	0.0	0% - 50%
EM2207234-012	Stoney Well	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	1.2	1.4	13.2	0% - 50%
EK067G: Total Phosphorus as P by Discrete Analyser (QC Lot: 4301068)									
EM2207206-001	Anonymous	EK067G: Total Phosphorus as P	----	0.01	mg/L	0.09	<0.05	54.3	No Limit
EM2207206-010	Anonymous	EK067G: Total Phosphorus as P	----	0.01	mg/L	0.21	0.13	47.8	No Limit
EK067G: Total Phosphorus as P by Discrete Analyser (QC Lot: 4301069)									
EM2207234-003	DS Tauwitchere	EK067G: Total Phosphorus as P	----	0.01	mg/L	0.08	0.09	0.0	No Limit
EM2207234-012	Stoney Well	EK067G: Total Phosphorus as P	----	0.01	mg/L	0.08	0.09	15.9	No Limit
EK071G: Reactive Phosphorus as P by discrete analyser (QC Lot: 4300287)									
EM2207234-010	Villa de Yumpa	EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EM2207234-001	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: 4300291)									
EM2207234-021	Tilley Swamp Drain U/S Morella	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: 4306634)									
EM2207234-001	Murray Mouth	EP002: Dissolved Organic Carbon	----	1	mg/L	10	10	0.0	No Limit
EP002: Dissolved Organic Carbon (DOC) (QC Lot: 4308787)									
EM2207234-008	McGrath Flat North	EP002: Dissolved Organic Carbon	----	1	mg/L	21	21	0.0	0% - 20%
EM2207234-017	Morella Creek @ gauge	EP002: Dissolved Organic Carbon	----	1	mg/L	18	19	0.0	0% - 50%
EP005: Total Organic Carbon (TOC) (QC Lot: 4306633)									
EM2207146-003	Anonymous	EP005: Total Organic Carbon	----	1	mg/L	12	12	0.0	0% - 50%
EM2207225-003	Anonymous	EP005: Total Organic Carbon	----	1	mg/L	5	<1	135	No Limit
EP005: Total Organic Carbon (TOC) (QC Lot: 4308788)									
EM2207234-008	McGrath Flat North	EP005: Total Organic Carbon	----	1	mg/L	22	23	0.0	0% - 20%
EM2207234-017	Morella Creek @ gauge	EP005: Total Organic Carbon	----	1	mg/L	18	18	0.0	0% - 50%

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: 4303604)								
EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	<0.02	0.5 mg/L	97.5	81.1	124
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 4303606)								
EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	<0.02	0.5 mg/L	85.2	81.1	124
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QCLot: 4302458)								
EA015H: Total Dissolved Solids @180°C	----	10	mg/L	<10	2000 mg/L	102	91.0	110
				<10	2460 mg/L	100	81.7	118
				<10	293 mg/L	104	91.0	110
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QCLot: 4305214)								
EA015H: Total Dissolved Solids @180°C	----	10	mg/L	<10	2000 mg/L	102	91.0	110
				<10	2460 mg/L	105	81.7	118
				<10	293 mg/L	109	91.0	110
EA045: Turbidity (QCLot: 4300464)								
EA045: Turbidity	----	0.1	NTU	<0.1	40 NTU	104	88.1	110
EA045: Turbidity (QCLot: 4300465)								
EA045: Turbidity	----	0.1	NTU	<0.1	40 NTU	104	88.1	110
ED037P: Alkalinity by PC Titrator (QCLot: 4304348)								
ED037-P: Total Alkalinity as CaCO3	----	----	mg/L	----	200 mg/L	104	85.0	116
ED037P: Alkalinity by PC Titrator (QCLot: 4304352)								
ED037-P: Total Alkalinity as CaCO3	----	----	mg/L	----	200 mg/L	105	85.0	116
ED045G: Chloride by Discrete Analyser (QCLot: 4300286)								
ED045G: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	101	85.0	115
				<1	1000 mg/L	96.8	85.0	122
ED045G: Chloride by Discrete Analyser (QCLot: 4300290)								
ED045G: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	96.6	85.0	115
				<1	1000 mg/L	96.2	85.0	122
EG052G: Silica by Discrete Analyser (QCLot: 4300285)								
EG052G: Reactive Silica	----	0.05	mg/L	<0.05	5 mg/L	100	78.9	118
EG052G: Silica by Discrete Analyser (QCLot: 4300289)								
EG052G: Reactive Silica	----	0.05	mg/L	<0.05	5 mg/L	101	78.9	118
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4300284)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	105	90.9	112
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4300288)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	97.1	90.9	112

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: 4303603)								
EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.5 mg/L	114	90.0	117
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4303605)								
EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.5 mg/L	114	90.0	117
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4301067)								
EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	5 mg/L	92.7	70.0	117
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4301070)								
EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	5 mg/L	82.3	70.0	117
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4301068)								
EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.01	2.21 mg/L	89.6	71.9	114
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4301069)								
EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.01	2.21 mg/L	90.4	71.9	114
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 4300287)								
EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	106	92.7	119
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 4300291)								
EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	106	92.7	119
EP002: Dissolved Organic Carbon (DOC) (QCLot: 4306634)								
EP002: Dissolved Organic Carbon	----	1	mg/L	<1	100 mg/L	91.1	83.0	115
EP002: Dissolved Organic Carbon (DOC) (QCLot: 4308787)								
EP002: Dissolved Organic Carbon	----	1	mg/L	<1	100 mg/L	92.7	83.0	115
EP005: Total Organic Carbon (TOC) (QCLot: 4306633)								
EP005: Total Organic Carbon	----	1	mg/L	<1	100 mg/L	92.5	81.2	110
EP005: Total Organic Carbon (TOC) (QCLot: 4308788)								
EP005: Total Organic Carbon	----	1	mg/L	<1	100 mg/L	91.9	81.2	110
EP008: Chlorophyll (QCLot: 4307813)								
EP008B: Chlorophyll b	----	1	mg/m³	<1	----	----	----	----
EP008: Chlorophyll (QCLot: 4307814)								
EP008B: Chlorophyll b	----	1	mg/m³	<1	----	----	----	----
EP008: Chlorophyll (QCLot: 4307815)								
EP008: Chlorophyll a	----	1	mg/m³	<1	20 mg/m³	102	70.0	130
EP008: Chlorophyll (QCLot: 4307816)								
EP008: Chlorophyll a	----	1	mg/m³	<1	20 mg/m³	104	70.0	130

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: 4303604)							
EM2207234-002	US Tauwitchere	EK055G-SW: Ammonia as N	7664-41-7	0.5 mg/L	119	70.0	130
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 4303606)							
EM2207234-022	Tilley Swamp Drain Watercourse Outlet	EK055G-SW: Ammonia as N	7664-41-7	0.5 mg/L	123	70.0	130
ED045G: Chloride by Discrete Analyser (QCLot: 4300286)							
EM2207234-002	US Tauwitchere	ED045G: Chloride	16887-00-6	400 mg/L	104	70.0	142
ED045G: Chloride by Discrete Analyser (QCLot: 4300290)							
EM2207234-022	Tilley Swamp Drain Watercourse Outlet	ED045G: Chloride	16887-00-6	400 mg/L	# Not Determined	70.0	142
EG052G: Silica by Discrete Analyser (QCLot: 4300285)							
EM2207234-002	US Tauwitchere	EG052G: Reactive Silica	----	5 mg/L	99.2	80.0	120
EG052G: Silica by Discrete Analyser (QCLot: 4300289)							
EM2207234-022	Tilley Swamp Drain Watercourse Outlet	EG052G: Reactive Silica	----	5 mg/L	101	80.0	120
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4300284)							
EM2207234-002	US Tauwitchere	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	91.4	80.0	114
EK057G: Nitrite as N by Discrete Analyser (QCLot: 4300288)							
EM2207234-022	Tilley Swamp Drain Watercourse Outlet	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	81.8	80.0	114
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4303603)							
EM2207234-002	US Tauwitchere	EK059G: Nitrite + Nitrate as N	----	0.5 mg/L	95.1	70.0	130
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 4303605)							
EM2207234-022	Tilley Swamp Drain Watercourse Outlet	EK059G: Nitrite + Nitrate as N	----	0.5 mg/L	96.5	70.0	130
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4301067)							
EM2207206-002	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	5 mg/L	# 43.3	70.0	130
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 4301070)							
EM2207234-004	Mark Point	EK061G: Total Kjeldahl Nitrogen as N	----	5 mg/L	93.3	70.0	130
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4301068)							
EM2207206-002	Anonymous	EK067G: Total Phosphorus as P	----	1 mg/L	104	70.0	130
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 4301069)							
EM2207234-004	Mark Point	EK067G: Total Phosphorus as P	----	1 mg/L	76.5	70.0	130
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 4300287)							
EM2207234-002	US Tauwitchere	EK071G: Reactive Phosphorus as P	14265-44-2	0.5 mg/L	92.0	79.0	123
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 4300291)							
EM2207234-022	Tilley Swamp Drain Watercourse Outlet	EK071G: Reactive Phosphorus as P	14265-44-2	0.5 mg/L	91.6	79.0	123
EP002: Dissolved Organic Carbon (DOC) (QCLot: 4306634)							

Sub-Matrix: **WATER**

				Matrix Spike (MS) Report			
				Spike	SpikeRecovery(%)	Acceptable Limits (%)	
Laboratory sample ID	*Sample ID*	*Method: Compound*	*CAS Number*	*Concentration*	*MS*	*Low*	*High*
EP002: Dissolved Organic Carbon (DOC) (QCLot: 4306634) - continued							
EM2207234-002	US Tauwitchere	EP002: Dissolved Organic Carbon	----	500 mg/L	116	75.0	117
EP002: Dissolved Organic Carbon (DOC) (QCLot: 4308787)							
EM2207234-009	Parnka Point	EP002: Dissolved Organic Carbon	----	100 mg/L	113	75.0	117
EP005: Total Organic Carbon (TOC) (QCLot: 4306633)							
EM2207147-001	Anonymous	EP005: Total Organic Carbon	----	100 mg/L	107	76.6	125
EP005: Total Organic Carbon (TOC) (QCLot: 4308788)							
EM2207234-009	Parnka Point	EP005: Total Organic Carbon	----	100 mg/L	102	76.6	125