

QUALITY CONTROL REPORT

Work Order	: EM2119079	Page	: 1 of 8
Client	: Dept for Environment & Water	Laboratory	: Environmental Division Melbourne
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Project	: HCHB	Date Samples Received	: 27-Sep-2021
Order number	: ----	Date Analysis Commenced	: 27-Sep-2021
C-O-C number	: ----	Issue Date	: 06-Oct-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>
Ankit Joshi	Inorganic Chemist	Sydney Inorganics, Smithfield, NSW
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Jarvis 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: 3931413)									
EM2119079-001	Murray Mouth	EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	0.11	0.11	0.0	No Limit
EM2119079-010	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: 3931415)									
EM2119079-021	Tilley Swamp Drain D/S Nth Outlet	EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	<0.02	<0.02	0.0	No Limit
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QC Lot: 3928044)									
EM2119079-001	Murray Mouth	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	8480	8420	0.8	0% - 20%
EM2119079-010	Villa de Yumpa	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	73200	77200	5.4	0% - 20%
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QC Lot: 3928045)									
EM2119079-021	Tilley Swamp Drain D/S Nth Outlet	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	7200	7090	1.6	0% - 20%
EM2119089-008	Anonymous	EA015H: Total Dissolved Solids @180°C	----	10	mg/L	23800	23800	0.1	0% - 20%
EA045: Turbidity (QC Lot: 3924762)									
EM2119079-001	Murray Mouth	EA045: Turbidity	----	0.1	NTU	20.0	20.2	1.0	0% - 20%
EM2119079-010	Villa de Yumpa	EA045: Turbidity	----	0.1	NTU	16.6	17.1	3.0	0% - 20%
EA045: Turbidity (QC Lot: 3924763)									
EM2119079-021	Tilley Swamp Drain D/S Nth Outlet	EA045: Turbidity	----	0.1	NTU	5.9	5.6	5.1	0% - 20%
ED037P: Alkalinity by PC Titrator (QC Lot: 3934610)									
EM2119079-002	US Tauwichee	ED037-P: Hydroxide Alkalinity as CaCO ₃	DMO-210-001	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Carbonate Alkalinity as CaCO ₃	3812-32-6	1	mg/L	<1	<1	0.0	No Limit
		ED037-P: Bicarbonate Alkalinity as CaCO ₃	71-52-3	1	mg/L	82	82	0.0	0% - 20%
		ED037-P: Total Alkalinity as CaCO ₃	----	1	mg/L	82	82	0.0	0% - 20%

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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: 3934610) - continued									
EM2119079-012	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	214	213	0.7	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	214	213	0.7	0% - 20%
ED037P: Alkalinity by PC Titrator (QC Lot: 3934611)									
EM2119079-022	Tilley Swamp Drain W/C Outlet	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	96	98	1.1	0% - 20%
		ED037-P: Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	376	323	15.1	0% - 20%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	472	421	11.6	0% - 20%
EM2119255-001	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	13	10	26.5	0% - 50%
		ED037-P: Total Alkalinity as CaCO3	----	1	mg/L	13	10	26.5	0% - 50%
ED045G: Chloride by Discrete Analyser (QC Lot: 3925584)									
EM2118766-015	Anonymous	ED045G: Chloride	16887-00-6	1	mg/L	11	11	0.0	0% - 50%
EM2119079-002	US Tauwitschere	ED045G: Chloride	16887-00-6	1	mg/L	310	312	0.6	0% - 20%
ED045G: Chloride by Discrete Analyser (QC Lot: 3925589)									
EM2119079-014	Snipe Point	ED045G: Chloride	16887-00-6	1	mg/L	35300	35800	1.5	0% - 20%
EM2119079-022	Tilley Swamp Drain W/C Outlet	ED045G: Chloride	16887-00-6	1	mg/L	4120	4140	0.6	0% - 20%
EG052G: Silica by Discrete Analyser (QC Lot: 3925586)									
EM2119079-011	Stony Well	EG052G: Reactive Silica	----	0.05	mg/L	0.47	0.47	0.0	No Limit
EM2119079-001	Murray Mouth	EG052G: Reactive Silica	----	0.05	mg/L	0.46	0.41	12.5	No Limit
EG052G: Silica by Discrete Analyser (QC Lot: 3925590)									
EM2119079-021	Tilley Swamp Drain D/S Nth Outlet	EG052G: Reactive Silica	----	0.05	mg/L	7.88	7.92	0.4	0% - 20%
EK057G: Nitrite as N by Discrete Analyser (QC Lot: 3925583)									
EM2118766-015	Anonymous	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EM2119079-002	US Tauwitschere	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: 3925588)									
EM2119079-013	South Policeman Point	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EM2119079-022	Tilley Swamp Drain W/C Outlet	EK057G: Nitrite as N	14797-65-0	0.01	mg/L	0.01	0.02	0.0	No Limit
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QC Lot: 3931412)									
EM2119079-001	Murray Mouth	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	0.02	0.02	0.0	No Limit
EM2119079-010	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: 3931414)									
EM2119193-006	Anonymous	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	1.19	1.20	1.3	0% - 20%

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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: 3931414) - continued									
EM2119079-021	Tilley Swamp Drain D/S Nth Outlet	EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	0.19	0.19	0.0	0% - 50%
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QC Lot: 3926074)									
EM2118984-004	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	0.6	0.9	34.4	No Limit
EM2118995-003	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	7.9	8.1	2.1	0% - 20%
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QC Lot: 3926076)									
EM2119079-005	Long Point	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	1.1	1.2	0.0	0% - 50%
EM2119079-014	Snipe Point	EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	3.1	2.9	6.2	0% - 20%
EK067G: Total Phosphorus as P by Discrete Analyser (QC Lot: 3926073)									
EM2118984-003	Anonymous	EK067G: Total Phosphorus as P	----	0.01	mg/L	0.08	# 0.14	60.7	0% - 50%
EM2118995-002	Anonymous	EK067G: Total Phosphorus as P	----	0.01	mg/L	1.36	1.42	3.8	0% - 20%
EK067G: Total Phosphorus as P by Discrete Analyser (QC Lot: 3926075)									
EM2119079-003	DS Tauwichee	EK067G: Total Phosphorus as P	----	0.01	mg/L	0.10	0.09	0.0	No Limit
EM2119079-012	North Jacks Point	EK067G: Total Phosphorus as P	----	0.01	mg/L	2.06	1.93	6.5	0% - 20%
EK071G: Reactive Phosphorus as P by discrete analyser (QC Lot: 3925587)									
EM2119079-010	Villa de Yumpa	EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	0.0	No Limit
EM2119079-001	Murray Mouth	EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	0.03	0.02	0.0	No Limit
EK071G: Reactive Phosphorus as P by discrete analyser (QC Lot: 3925591)									
EM2119079-021	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: 3936438)									
EM2119079-001	Murray Mouth	EP002: Dissolved Organic Carbon	----	1	mg/L	6	7	0.0	No Limit
EM2119079-010	Villa de Yumpa	EP002: Dissolved Organic Carbon	----	1	mg/L	23	22	0.0	0% - 20%
EP002: Dissolved Organic Carbon (DOC) (QC Lot: 3936440)									
EM2119079-021	Tilley Swamp Drain D/S Nth Outlet	EP002: Dissolved Organic Carbon	----	1	mg/L	12	11	0.0	0% - 50%
EP005: Total Organic Carbon (TOC) (QC Lot: 3936439)									
EM2119079-001	Murray Mouth	EP005: Total Organic Carbon	----	1	mg/L	6	6	0.0	No Limit
EM2119079-010	Villa de Yumpa	EP005: Total Organic Carbon	----	1	mg/L	27	27	0.0	0% - 20%
EP005: Total Organic Carbon (TOC) (QC Lot: 3936441)									
EM2119079-021	Tilley Swamp Drain D/S Nth Outlet	EP005: Total Organic Carbon	----	1	mg/L	11	12	0.0	0% - 50%

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: 3931413)								
EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	<0.02	0.5 mg/L	81.5	81.1	124
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 3931415)								
EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	<0.02	0.5 mg/L	85.8	81.1	124
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QCLot: 3928044)								
EA015H: Total Dissolved Solids @180°C	----	10	mg/L	<10	2000 mg/L	106	91.0	110
				<10	293 mg/L	106	91.0	110
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QCLot: 3928045)								
EA015H: Total Dissolved Solids @180°C	----	10	mg/L	<10	2000 mg/L	97.4	91.0	110
				<10	293 mg/L	99.6	91.0	110
EA045: Turbidity (QCLot: 3924762)								
EA045: Turbidity	----	0.1	NTU	<0.1	40 NTU	101	88.1	110
EA045: Turbidity (QCLot: 3924763)								
EA045: Turbidity	----	0.1	NTU	<0.1	40 NTU	100	88.1	110
ED037P: Alkalinity by PC Titrator (QCLot: 3934610)								
ED037-P: Total Alkalinity as CaCO3	----	----	mg/L	----	200 mg/L	99.7	85.0	116
ED037P: Alkalinity by PC Titrator (QCLot: 3934611)								
ED037-P: Total Alkalinity as CaCO3	----	----	mg/L	----	200 mg/L	101	85.0	116
ED045G: Chloride by Discrete Analyser (QCLot: 3925584)								
ED045G: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	104	85.0	115
				<1	1000 mg/L	110	85.0	122
ED045G: Chloride by Discrete Analyser (QCLot: 3925589)								
ED045G: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	98.1	85.0	115
				<1	1000 mg/L	104	85.0	122
EG052G: Silica by Discrete Analyser (QCLot: 3925586)								
EG052G: Reactive Silica	----	0.05	mg/L	<0.05	5 mg/L	109	78.9	118
EG052G: Silica by Discrete Analyser (QCLot: 3925590)								
EG052G: Reactive Silica	----	0.05	mg/L	<0.05	5 mg/L	105	78.9	118
EK057G: Nitrite as N by Discrete Analyser (QCLot: 3925583)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	96.8	90.9	112
EK057G: Nitrite as N by Discrete Analyser (QCLot: 3925588)								
EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	93.2	90.9	112
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 3931412)								



Sub-Matrix: **WATER**

				Method Blank (MB) Report	Laboratory Control Spike (LCS) Report			
					Spike Concentration	Spike Recovery (%) LCS	Acceptable Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result			Low	High
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 3931412) - continued								
EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.5 mg/L	109	90.0	117
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 3931414)								
EK059G: Nitrite + Nitrate as N	----	0.01	mg/L	<0.01	0.5 mg/L	109	90.0	117
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 3926074)								
EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	5 mg/L	85.9	70.0	117
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 3926076)								
EK061G: Total Kjeldahl Nitrogen as N	----	0.1	mg/L	<0.1	5 mg/L	104	70.0	117
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 3926073)								
EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.01	2.21 mg/L	84.1	71.9	114
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 3926075)								
EK067G: Total Phosphorus as P	----	0.01	mg/L	<0.01	2.21 mg/L	94.8	71.9	114
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 3925587)								
EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	107	92.7	119
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 3925591)								
EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	0.5 mg/L	107	92.7	119
EP002: Dissolved Organic Carbon (DOC) (QCLot: 3936438)								
EP002: Dissolved Organic Carbon	----	1	mg/L	<1	100 mg/L	86.6	83.0	115
EP002: Dissolved Organic Carbon (DOC) (QCLot: 3936440)								
EP002: Dissolved Organic Carbon	----	1	mg/L	<1	100 mg/L	86.9	83.0	115
EP005: Total Organic Carbon (TOC) (QCLot: 3936439)								
EP005: Total Organic Carbon	----	1	mg/L	<1	100 mg/L	83.9	81.2	110
EP005: Total Organic Carbon (TOC) (QCLot: 3936441)								
EP005: Total Organic Carbon	----	1	mg/L	<1	100 mg/L	86.5	81.2	110
EP008: Chlorophyll (QCLot: 3928354)								
EP008: Chlorophyll a	----	1	mg/m ³	<1	20 mg/m ³	111	70.0	130
EP008: Pheophytin a	----	1	mg/m ³	<1	----	----	----	----
EP008: Chlorophyll (QCLot: 3928355)								
EP008: Chlorophyll a	----	1	mg/m ³	<1	20 mg/m ³	109	70.0	130
EP008: Pheophytin a	----	1	mg/m ³	<1	----	----	----	----
EP008: Chlorophyll (QCLot: 3931568)								
EP008B: Chlorophyll b	----	1	mg/m ³	<1	----	----	----	----
EP008: Chlorophyll (QCLot: 3931569)								
EP008B: Chlorophyll b	----	1	mg/m ³	<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: 3931413)							
EM2119079-002	US Tauwiche	EK055G-SW: Ammonia as N	7664-41-7	0.5 mg/L	97.3	70.0	130
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water (QCLot: 3931415)							
EM2119079-022	Tilley Swamp Drain W/C Outlet	EK055G-SW: Ammonia as N	7664-41-7	0.5 mg/L	96.7	70.0	130
ED045G: Chloride by Discrete Analyser (QCLot: 3925584)							
EM2118766-030	Anonymous	ED045G: Chloride	16887-00-6	400 mg/L	102	70.0	142
ED045G: Chloride by Discrete Analyser (QCLot: 3925589)							
EM2119079-015	Morella Basin @ outlet regulator	ED045G: Chloride	16887-00-6	400 mg/L	# Not Determined	70.0	142
EG052G: Silica by Discrete Analyser (QCLot: 3925586)							
EM2119079-002	US Tauwiche	EG052G: Reactive Silica	----	5 mg/L	102	80.0	120
EG052G: Silica by Discrete Analyser (QCLot: 3925590)							
EM2119079-022	Tilley Swamp Drain W/C Outlet	EG052G: Reactive Silica	----	5 mg/L	116	80.0	120
EK057G: Nitrite as N by Discrete Analyser (QCLot: 3925583)							
EM2118766-030	Anonymous	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	98.5	80.0	114
EK057G: Nitrite as N by Discrete Analyser (QCLot: 3925588)							
EM2119079-014	Snipe Point	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	100	80.0	114
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 3931412)							
EM2119079-002	US Tauwiche	EK059G: Nitrite + Nitrate as N	----	0.5 mg/L	97.6	70.0	130
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser (QCLot: 3931414)							
EM2119079-022	Tilley Swamp Drain W/C Outlet	EK059G: Nitrite + Nitrate as N	----	0.5 mg/L	92.4	70.0	130
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 3926074)							
EM2118984-005	Anonymous	EK061G: Total Kjeldahl Nitrogen as N	----	5 mg/L	99.0	70.0	130
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot: 3926076)							
EM2119079-006	Noonameena	EK061G: Total Kjeldahl Nitrogen as N	----	5 mg/L	118	70.0	130
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 3926073)							
EM2118984-004	Anonymous	EK067G: Total Phosphorus as P	----	1 mg/L	91.7	70.0	130
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot: 3926075)							
EM2119079-004	Mark Point	EK067G: Total Phosphorus as P	----	1 mg/L	87.3	70.0	130
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 3925587)							
EM2119079-002	US Tauwiche	EK071G: Reactive Phosphorus as P	14265-44-2	0.5 mg/L	102	79.0	123
EK071G: Reactive Phosphorus as P by discrete analyser (QCLot: 3925591)							
EM2119079-022	Tilley Swamp Drain W/C Outlet	EK071G: Reactive Phosphorus as P	14265-44-2	0.5 mg/L	111	79.0	123



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: 3936438)							
EM2119079-002	US Tauwitchere	EP002: Dissolved Organic Carbon	----	100 mg/L	107	75.0	117
EP002: Dissolved Organic Carbon (DOC) (QCLot: 3936440)							
EM2119079-022	Tilley Swamp Drain W/C Outlet	EP002: Dissolved Organic Carbon	----	100 mg/L	106	75.0	117
EP005: Total Organic Carbon (TOC) (QCLot: 3936439)							
EM2119079-002	US Tauwitchere	EP005: Total Organic Carbon	----	100 mg/L	91.6	76.6	125
EP005: Total Organic Carbon (TOC) (QCLot: 3936441)							
EM2119079-022	Tilley Swamp Drain W/C Outlet	EP005: Total Organic Carbon	----	100 mg/L	88.1	76.6	125