

QUALITY CONTROL REPORT

Work Order : EM2012826

Client : Dept for Environment & Water

Contact : Mr FRANK MANGERUCA

Address : GPO BOX 2834

ADELAIDE SA, AUSTRALIA 5001

Telephone : ----

Project : HCHB Sampling

Order number : ----

C-O-C number : ----

Sampler : JOSHUA CASTLE

Site · ---

Quote number : AD/052/20 V2

No. of samples received : 19
No. of samples analysed : 19

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Laboratory : Environmental Division Melbourne

Contact : Kieren Burns

Address : 4 Westall Rd Springvale VIC Australia 3171

Telephone : +61881625130
Date Samples Received : 23-Jul-2020
Date Analysis Commenced : 24-Jul-2020

Issue Date : 03-Aug-2020



This report supersedes any previous report(s) with this reference. Results apply to the sample(s) as submitted. 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
Arenie Vijayaratnam	Non-Metals Team Leader	Melbourne Inorganics, Springvale, VIC
Dilani Fernando	Senior Inorganic Chemist	Melbourne Inorganics, Springvale, VIC
Samantha Smith	Laboratory Coordinator	WRG Subcontracting, Springvale, VIC

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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

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	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)			
EA015: Total Dissol	ved Solids dried at 180 ± 5 °C	C (QC Lot: 3167193)										
EM2012825-005	Anonymous	EA015H: Total Dissolved Solids @180°C		10	mg/L	444	372	17.8	0% - 20%			
EM2012826-005	Morella Creek @ gauge	EA015H: Total Dissolved Solids @180°C		10	mg/L	10700	9690	9.92	0% - 20%			
EA015: Total Dissol	ved Solids dried at 180 ± 5 °C	(QC Lot: 3167194)										
EM2012826-016	Bonneys	EA015H: Total Dissolved Solids @180°C		10	mg/L	53900	47800	11.9	0% - 20%			
EM2012829-001	Anonymous	EA015H: Total Dissolved Solids @180°C		10	mg/L	70900	73000	2.89	0% - 20%			
EA045: Turbidity (C	(C Lot: 3161284)											
EM2012793-004	Anonymous	EA045: Turbidity		0.1	NTU	0.6	0.7	0.00	No Limit			
EM2012825-004	Anonymous	EA045: Turbidity		0.1	NTU	15.6	15.6	0.00	0% - 20%			
EA045: Turbidity (C	C Lot: 3161285)											
EM2012826-006	Salt Creek Outlet	EA045: Turbidity		0.1	NTU	7.4	7.3	0.00	0% - 20%			
EM2012826-015	Noonameena	EA045: Turbidity		0.1	NTU	2.8	2.9	0.00	0% - 20%			
ED037P: Alkalinity b	by PC Titrator (QC Lot: 31703	345)										
EM2012792-006	Anonymous	ED037-P: Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	0.00	No Limit			
		ED037-P: Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	0.00	No Limit			
		ED037-P: Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	92	92	0.00	0% - 20%			
		ED037-P: Total Alkalinity as CaCO3		1	mg/L	92	92	0.00	0% - 20%			
EM2012818-002	Anonymous	ED037-P: Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	0.00	No Limit			
		ED037-P: Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	0.00	No Limit			
		ED037-P: Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	2380	2340	1.41	0% - 20%			
		ED037-P: Total Alkalinity as CaCO3		1	mg/L	2380	2340	1.41	0% - 20%			
ED037P: Alkalinity b	y PC Titrator (QC Lot: 31703	346)										
EM2012826-010	Murray Mouth	ED037-P: Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	0.00	No Limit			
		ED037-P: Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	0.00	No Limit			
		ED037-P: Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	130	129	0.843	0% - 20%			

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Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)	
	by PC Titrator (QC Lot: 3170	346) - continued								
EM2012826-010	Murray Mouth	ED037-P: Total Alkalinity as CaCO3		1	mg/L	130	129	0.843	0% - 20%	
EM2012836-002	Anonymous	ED037-P: Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	0.00	No Limit	
		ED037-P: Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	0.00	No Limit	
		ED037-P: Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	103	99	3.80	0% - 20%	
		ED037-P: Total Alkalinity as CaCO3		1	mg/L	103	99	3.80	0% - 20%	
ED045G: Chloride b	y Discrete Analyser (QC Lot	:: 3160056)								
EM2012826-006	Salt Creek Outlet	ED045G: Chloride	16887-00-6	1	mg/L	48500	49100	1.30	0% - 20%	
EM2012685-032	Anonymous	ED045G: Chloride	16887-00-6	1	mg/L	8400	8400	0.0470	0% - 20%	
ED045G: Chloride b	y Discrete Analyser (QC Lot	:: 3160060)								
EM2012826-018	Parnka Point	ED045G: Chloride	16887-00-6	1	mg/L	31400	31000	1.04	0% - 20%	
EG052G: Silica by D	Discrete Analyser (QC Lot: 3	160057)								
EM2012826-011	US Tauwitchere	EG052G: Reactive Silica		0.05	mg/L	0.31	0.34	7.89	No Limit	
EM2012826-001	Stony Well	EG052G: Reactive Silica		0.05	mg/L	<0.05	<0.05	0.00	No Limit	
EK055G-SW: Ammo	onia as N by Discrete Analyse	er in Sea Water (QC Lot: 3174493)								
EM2012826-001	Stony Well	EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	<0.02	<0.02	0.00	No Limit	
EM2012826-010	Murray Mouth	EK055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	0.07	0.07	0.00	No Limit	
	N by Discrete Analyser (QC				9					
EM2012826-007	1.8km west of Salt Creek		14797-65-0	0.01	mg/L	<0.01	<0.01	0.00	No Limit	
EM2012685-032	Anonymous	EK057G: Nitrite as N EK057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	0.00	No Limit	
	N by Discrete Analyser (QC		14707 00 0	0.01	mg/L	10.01	10.01	0.00	140 Lillin	
			14707 65 0	0.01	ma/l	<0.01	-0.01	0.00	No Limit	
EM2012829-001 EM2012826-018	Anonymous Parnka Point	EK057G: Nitrite as N	14797-65-0 14797-65-0	0.01	mg/L mg/L	<0.01 <0.01	<0.01 <0.01	0.00	No Limit No Limit	
		EK057G: Nitrite as N	14797-03-0	0.01	IIIg/L	<0.01	<0.01	0.00	NO LIIIII	
	· · · · · ·	rete Analyser (QC Lot: 3161945)								
EM2012826-001	Stony Well	EK059G: Nitrite + Nitrate as N		0.01	mg/L	0.02	0.01	0.00	No Limit	
EM2012826-010	Murray Mouth	EK059G: Nitrite + Nitrate as N		0.01	mg/L	<0.01	<0.01	0.00	No Limit	
	· · · · · ·	rete Analyser (QC Lot: 3161953)								
EM2012826-012	DS Tauwitchere	EK059G: Nitrite + Nitrate as N		0.01	mg/L	0.02	0.02	0.00	No Limit	
EM2012836-001	Anonymous	EK059G: Nitrite + Nitrate as N		0.01	mg/L	0.03	0.02	0.00	No Limit	
EK061G: Total Kjeld	dahl Nitrogen By Discrete An	alyser (QC Lot: 3166464)								
EM2010907-001	Anonymous	EK061G: Total Kjeldahl Nitrogen as N		0.1	mg/L	2.5	2.5	0.00	0% - 20%	
EM2012792-012	Anonymous	EK061G: Total Kjeldahl Nitrogen as N		0.1	mg/L	0.2	0.2	0.00	No Limit	
EK061G: Total Kjelo	dahl Nitrogen By Discrete An	alyser (QC Lot: 3166467)								
EM2012826-004	Snipe Point	EK061G: Total Kjeldahl Nitrogen as N		0.1	mg/L	4.1	4.1	0.00	0% - 20%	
EM2012826-013	Mark Point	EK061G: Total Kjeldahl Nitrogen as N		0.1	mg/L	1.4	1.4	0.00	0% - 50%	
EK067G: Total Phos	sphorus as P by Discrete Ana									
EM2010907-001	Anonymous	EK067G: Total Phosphorus as P		0.01	mg/L	1.65	1.66	0.756	0% - 20%	
EM2012792-012	Anonymous	EK067G: Total Phosphorus as P		0.01	mg/L	0.04	0.04	0.00	No Limit	
	sphorus as P by Discrete Ana					I			1	

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Sub-Matrix: WATER				Laboratory Duplicate (DUP) Report						
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	LOR	Unit	Original Result	Duplicate Result	RPD (%)	Recovery Limits (%)	
EK067G: Total Phos	phorus as P by Discrete Ana	lyser (QC Lot: 3166466) - continued								
EM2012826-004	Snipe Point	EK067G: Total Phosphorus as P		0.01	mg/L	3.64	3.41	6.55	0% - 20%	
EM2012826-013	Mark Point	EK067G: Total Phosphorus as P		0.01	mg/L	0.05	0.07	33.4	No Limit	
EK071G: Reactive Phosphorus as P by discrete analyser (QC Lot: 3160058)										
EM2012826-010	Murray Mouth	EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	0.00	No Limit	
EM2012826-001	Stony Well	EK071G: Reactive Phosphorus as P	14265-44-2	0.01	mg/L	<0.01	<0.01	0.00	No Limit	
EP002: Dissolved Or	ganic Carbon (DOC) (QC Lo	ot: 3169905)								
EM2012826-001	Stony Well	EP002: Dissolved Organic Carbon		1	mg/L	21	20	0.00	0% - 20%	
EM2012826-010	Murray Mouth	EP002: Dissolved Organic Carbon		1	mg/L	<1	<1	0.00	No Limit	
EP005: Total Organi	c Carbon (TOC) (QC Lot: 31	69906)								
EM2012826-001	Stony Well	EP005: Total Organic Carbon		1	mg/L	25	25	0.00	0% - 20%	
EM2012826-010	Murray Mouth	EP005: Total Organic Carbon		1	mg/L	<1	<1	0.00	No Limit	
EP008: Chlorophyll	(QC Lot: 3167357)									
EM2012826-001	Stony Well	EP008B: Chlorophyll b		1	mg/m³	<1	<1	0.00	No Limit	
EM2012826-010	Murray Mouth	EP008B: Chlorophyll b		1	mg/m³	<1	<1	0.00	No Limit	

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Method Blank (MB) and Laboratory Control Spike (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 Spike (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)	Laboratory Control Spike (LCS) Report				
				Report	Spike	Spike Recovery (%)	Recovery	Limits (%)	
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High	
A015: Total Dissolved Solids dried at 180 ± 5 °C (QCI	Lot: 3167193)								
A015H: Total Dissolved Solids @180°C		10	mg/L	<10	2000 mg/L	98.2	93.7	107	
				<10	293 mg/L	97.6	90.0	110	
EA015: Total Dissolved Solids dried at 180 ± 5 °C (QCI	Lot: 3167194)								
A015H: Total Dissolved Solids @180°C		10	mg/L	<10	2000 mg/L	100	93.7	107	
				<10	293 mg/L	108	90.0	110	
EA045: Turbidity (QCLot: 3161284)									
A045: Turbidity		0.1	NTU	<0.1	40 NTU	102	88.1	110	
:A045: Turbidity (QCLot: 3161285)									
A045: Turbidity		0.1	NTU	<0.1	40 NTU	103	88.1	110	
D037P: Alkalinity by PC Titrator (QCLot: 3170345)									
ED037-P: Total Alkalinity as CaCO3			mg/L		200 mg/L	102	88.0	112	
ED037P: Alkalinity by PC Titrator (QCLot: 3170346)									
D037-P: Total Alkalinity as CaCO3			mg/L		200 mg/L	102	88.0	112	
:D045G: Chloride by Discrete Analyser (QCLot: 31600)56\				J				
D045G: Chloride	16887-00-6	1	mg/L	<1	10 mg/L	97.2	85.0	122	
.bu-suc. Officiale	.000.000	·	9/ =	<1	1000 mg/L	100	85.0	122	
ED045G: Chloride by Discrete Analyser (QCLot: 31600	160)								
:D045G: Chloride by Discrete Analyser (QCLOt. 51000	16887-00-6	1	mg/L	<1	10 mg/L	97.1	85.0	122	
.50400. Official	.000.000	·	9/ =	<1	1000 mg/L	101	85.0	122	
G052G: Silica by Discrete Analyser (QCLot: 3160057									
G052G: Reactive Silica		0.05	mg/L	<0.05	5 mg/L	101	78.9	128	
	no Motor (OCL et: 24					1,2			
:K055G-SW: Ammonia as N by Discrete Analyser in Se :K055G-SW: Ammonia as N	7664-41-7	0.02	mg/L	<0.02	0.5 mg/L	101	81.1	124	
		0.02	mg/L	10.02	0.5 mg/L	101	01.1	12-7	
EK057G: Nitrite as N by Discrete Analyser (QCLot: 31	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	100	90.9	112	
K057G: Nitrite as N		0.01	IIIg/L	<0.01	0.5 Hig/L	100	90.9	112	
K057G: Nitrite as N by Discrete Analyser (QCLot: 31		0.04		.0.04	0.5	404	00.0	110	
K057G: Nitrite as N	14797-65-0	0.01	mg/L	<0.01	0.5 mg/L	101	90.9	112	
K059G: Nitrite plus Nitrate as N (NOx) by Discrete A	<u> </u>	<u> </u>		0.51	0.5 "	40.	00.5	=	
K059G: Nitrite + Nitrate as N		0.01	mg/L	<0.01	0.5 mg/L	101	90.0	117	
K059G: Nitrite plus Nitrate as N (NOx) by Discrete A	nalyser (QCLot: 3161								
EK059G: Nitrite + Nitrate as N		0.01	mg/L	<0.01	0.5 mg/L	104	90.0	117	

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Sub-Matrix: WATER				Method Blank (MB)	Laboratory Control Spike (LCS) Report					
					Spike	Spike Recovery (%)	Recovery L	imits (%)		
Method: Compound	CAS Number	LOR	Unit	Result	Concentration	LCS	Low	High		
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot	: 3166464)	- continued								
EK061G: Total Kjeldahl Nitrogen as N		0.1	mg/L	<0.1	5 mg/L	85.8	70.0	117		
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser (QCLot	:: 3166467)									
EK061G: Total Kjeldahl Nitrogen as N		0.1	mg/L	<0.1	5 mg/L	83.9	70.0	117		
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot:	: 3166465)									
EK067G: Total Phosphorus as P		0.01	mg/L	<0.01	2.21 mg/L	99.5	71.9	114		
EK067G: Total Phosphorus as P by Discrete Analyser (QCLot:	3166466)									
EK067G: Total Phosphorus as P		0.01	mg/L	<0.01	2.21 mg/L	103	71.9	114		
EK071G: Reactive Phosphorus as P by discrete analyser (QCI	_ot: 3160058	3)								
EK071G: Reactive Phosphorus as P	4265-44-2	0.01	mg/L	<0.01	0.5 mg/L	114	92.7	119		
EP002: Dissolved Organic Carbon (DOC) (QCLot: 3169905)										
EP002: Dissolved Organic Carbon		1	mg/L	<1	100 mg/L	90.4	83.0	115		
EP005: Total Organic Carbon (TOC) (QCLot: 3169906)										
EP005: Total Organic Carbon		1	mg/L	<1	100 mg/L	90.7	81.2	109		
EP008: Chlorophyll (QCLot: 3167357)										
EP008B: Chlorophyll b		1	mg/m³	<1						
EP008: Chlorophyll (QCLot: 3167362)										
EP008: Chlorophyll a		1	mg/m³	<1	20 mg/m³	91.4	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		Matrix Spike (MS) Report							
				Spike	SpikeRecovery(%)	Recovery Li	mits (%)		
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High		
ED045G: Chloride	by Discrete Analyser (QCLot: 3160056)								
EM2012814-019	Anonymous	ED045G: Chloride	16887-00-6	400 mg/L	# Not	70.0	130		
					Determined				
ED045G: Chloride	by Discrete Analyser (QCLot: 3160060)								
EM2012826-019	Villa de Yumpa	ED045G: Chloride	16887-00-6	400 mg/L	# Not	70.0	130		
					Determined				
EG052G: Silica by	Discrete Analyser (QCLot: 3160057)								
EM2012826-002	North Jacks Point	EG052G: Reactive Silica		5 mg/L	102	80.0	120		
EK055G-SW: Amm	EK055G-SW: Ammonia as N by Discrete Analyser in Sea Water (QCLot: 3174493)								
EM2012826-002	North Jacks Point	EK055G-SW: Ammonia as N	7664-41-7	0.5 mg/L	99.2	70.0	130		

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Sub-Matrix: WATER		Matrix Spike (MS) Report					
				Spike	SpikeRecovery(%)	Recovery L	imits (%)
Laboratory sample ID	Client sample ID	Method: Compound	CAS Number	Concentration	MS	Low	High
EK057G: Nitrite as	s N by Discrete Analyser (QCLot: 3160054)						
EM2012814-019	Anonymous	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	82.0	80.0	114
EK057G: Nitrite as	s N by Discrete Analyser (QCLot: 3160059)						
EM2012826-019	Villa de Yumpa	EK057G: Nitrite as N	14797-65-0	0.5 mg/L	101	80.0	114
EK059G: Nitrite p	lus Nitrate as N (NOx) by Discrete Analyser (QCLot: 316	31945)					
EM2012826-002	North Jacks Point	EK059G: Nitrite + Nitrate as N		0.5 mg/L	78.0	70.0	130
EK059G: Nitrite p	lus Nitrate as N (NOx) by Discrete Analyser (QCLot: 316	31953)					
EM2012826-013	Mark Point	EK059G: Nitrite + Nitrate as N		0.5 mg/L	94.0	70.0	130
EK061G: Total Kje	eldahl Nitrogen By Discrete Analyser (QCLot: 3166464)						
EM2012792-001	Anonymous	EK061G: Total Kjeldahl Nitrogen as N		5 mg/L	85.0	70.0	130
EK061G: Total Kje	eldahl Nitrogen By Discrete Analyser (QCLot: 3166467)						
EM2012826-005	Morella Creek @ gauge	EK061G: Total Kjeldahl Nitrogen as N		5 mg/L	93.0	70.0	130
EK067G: Total Pho	osphorus as P by Discrete Analyser (QCLot: 3166465)						
EM2012792-001	Anonymous	EK067G: Total Phosphorus as P		1 mg/L	95.6	70.0	130
EK067G: Total Pho	osphorus as P by Discrete Analyser (QCLot: 3166466)						
EM2012826-005	Morella Creek @ gauge	EK067G: Total Phosphorus as P		1 mg/L	84.4	70.0	130
EK071G: Reactive	Phosphorus as P by discrete analyser (QCLot: 3160058)					
EM2012826-002	North Jacks Point	EK071G: Reactive Phosphorus as P	14265-44-2	0.5 mg/L	110	79.0	123
EP002: Dissolved	Organic Carbon (DOC) (QCLot: 3169905)						
EM2012826-002	North Jacks Point	EP002: Dissolved Organic Carbon		100 mg/L	112	75.0	117
EP005: Total Orga	nic Carbon (TOC) (QCLot: 3169906)						
EM2012826-002	North Jacks Point	EP005: Total Organic Carbon		100 mg/L	113	80.0	114