ALS Environmental

CERTIFICATE OF ANALYSIS

Work Order	: **EM2121437**	Page	: 1 of 12
Client	: **Dept for Environment & Water**	Laboratory	: Environmental Division Melbourne
Contact	: Mr FRANK MANGERUCA	Contact	: Kieren Burns
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Telephone	: ----	Telephone	: +61881625130
Project	: HCHB - Phase 1	Date Samples Received	: 28-Oct-2021 11:15
Order number	: ----	Date Analysis Commenced	: 28-Oct-2021
C-O-C number	: ----	Issue Date	: 12-Nov-2021 14:50
Sampler	: ----		
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 Certificate of Analysis contains the following information:

- General Comments
- Analytical Results

Additional information pertinent to this report will be found in the following separate attachments: Quality Control Report, QA/QC Compliance Assessment to assist with Quality Review and Sample Receipt Notification.

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
Dilani Fernando	Laboratory Coordinator	Melbourne Inorganics, Springvale, VIC
Jarwis Nheu	Senior Inorganic Chemist	Melbourne Inorganics, Springvale, VIC
Nikki Stepniewski	Senior Inorganic Instrument Chemist	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.

When sampling time information is not provided by the client, sampling dates are shown without a time component. In these instances, the time component has been assumed by the laboratory for processing purposes.

Where a result is required to meet compliance limits the associated uncertainty must be considered. Refer to the ALS Contact for details.

Key : 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
^ = This result is computed from individual analyte detections at or above the level of reporting
ø = ALS is not NATA accredited for these tests.
~ = Indicates an estimated value.

- ED037-P: EM2021437 #1. Alkalinity has been confirmed via re-preparation and re-analysis.
- EP002:EP005:It is recognised that total organic carbon less than dissolved organic carbon for samples EM2121437 #7, #9, #10, #17, #18 & #19. However, the difference is within experimental variation of the methods.
- EP008, Chlorophyll-a standard does not contained Pheophytin-a standard.
- EP008, LOR raised for sample 17 for Chlorophyll-b and Pheophytin-a due to sample matrix.
- EP008, LOR raised for Chlorophyll-b for sample 18 due to sample matrix.
- EA015H: EM2121437 #3-6, #10-18, #22: TDS by method EA-015 may bias high due to the presence of fine particulate matter, which may pass through the prescribed GF/C paper.
- EK067G : EM2121437 #10 Poor duplicate precision for Total phosphorus due to sample heterogeneity. Confirmed by re-extraction and re-analysis.
- ED045G: The presence of Thiocyanate, Thiosulfate and Sulfite can positively contribute to the chloride result, thereby may bias results higher than expected. Results should be scrutinised accordingly.
- Algal Count (BM010) has been performed by ALS Water Resources Group, NATA Accreditation no. 992, Site no. 989.

Analytical Results

Sub-Matrix: **WATER**
(Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	1.8km west of Salt Creek	3.2km south of Salt Creek (land) NR	Bonneys	Long Point	Mark Point NR
				Sampling date / time	26-Oct-2021 15:30	26-Oct-2021 15:20	27-Oct-2021 08:20	27-Oct-2021 09:00	27-Oct-2021 09:30
					EM2121437-001	EM2121437-002	EM2121437-003	EM2121437-004	EM2121437-005
					Result	Result	Result	Result	Result
BM010: Algal Count									
Algal Count	----	-	-		**NRind**	**NRind**	**NRind**	**NRind**	**NRind**
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L		**66300**	**73000**	**63100**	**41900**	**24100**
EA045: Turbidity									
Turbidity	----	0.1	NTU		**9.0**	**6.4**	**2.8**	**4.1**	**4.0**
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L		<1	<1	<1	<1	<1
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L		<1	**11**	<1	<1	<1
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L		**238**	**236**	**181**	**140**	**117**
Total Alkalinity as CaCO3	----	1	mg/L		**238**	**247**	**181**	**140**	**117**
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L		**38500**	**38000**	**31300**	**19600**	**10700**
EG052G: Silica by Discrete Analyser									
Reactive Silica	----	0.05	mg/L		**1.40**	**1.10**	**0.30**	**0.49**	**1.66**
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water									
Ammonia as N	7664-41-7	0.02	mg/L		**0.08**	<0.02	**0.30**	**0.29**	**0.16**
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L		<0.01	<0.01	<0.01	<0.01	<0.01
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L		**0.01**	<0.01	<0.01	<0.01	<0.01
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L		**0.01**	<0.01	<0.01	<0.01	<0.01
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L		**1.4**	**2.6**	**0.6**	**0.4**	**0.4**
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
^ Total Nitrogen as N	----	0.1	mg/L		**1.4**	**2.6**	**0.6**	**0.4**	**0.4**
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		**0.62**	**0.67**	**0.06**	**0.10**	**0.05**
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		**0.01**	<0.01	<0.01	<0.01	<0.01
EP002: Dissolved Organic Carbon (DOC)									
Dissolved Organic Carbon	----	1	mg/L		**25**	**24**	**21**	**13**	**10**

Analytical Results

Sub-Matrix: **WATER**
(Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	1.8km west of Salt Creek	3.2km south of Salt Creek (land) NR	Bonneys	Long Point	Mark Point NR
				Sampling date / time	26-Oct-2021 15:30	26-Oct-2021 15:20	27-Oct-2021 08:20	27-Oct-2021 09:00	27-Oct-2021 09:30
					EM2121437-001	**EM2121437-002**	**EM2121437-003**	**EM2121437-004**	**EM2121437-005**
					Result	Result	Result	Result	Result
EP005: Total Organic Carbon (TOC)									
Total Organic Carbon	----	1	mg/L		**30**	**32**	**21**	**14**	**10**
EP008: Chlorophyll									
Chlorophyll a	----	1	mg/m³		**6**	**2**	**2**	**1**	**8**
Chlorophyll b	----	1	mg/m³		<1	<1	<1	<1	<1
Pheophytin a	----	1	mg/m³		**2**	<1	<1	<1	**1**

Analytical Results

Sub-Matrix: **WATER**
(Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	McGrath Flat North	Morella Basin @ outlet regulator NR	Morella Creek @ gauge NR	Murray Mouth NR	Noonameena
				Sampling date / time	27-Oct-2021 07:55	26-Oct-2021 16:00	26-Oct-2021 15:50	26-Oct-2021 11:10	27-Oct-2021 08:35
					EM2121437-006	EM2121437-007	EM2121437-008	EM2121437-009	EM2121437-010
					Result	Result	Result	Result	Result
BM010: Algal Count									
Algal Count	----	-	-		**NRind**	**NRind**	**NRind**	**NRind**	**NRind**
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L		**87900**	**8380**	**8220**	**1310**	**57200**
EA045: Turbidity									
Turbidity	----	0.1	NTU		**12.1**	**2.1**	**1.8**	**13.2**	**2.0**
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L		<1	<1	<1	<1	<1
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L		<1	**232**	**244**	<1	**22**
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L		**225**	**43**	**26**	**87**	**161**
Total Alkalinity as CaCO3	----	1	mg/L		**225**	**275**	**270**	**87**	**183**
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L		**46100**	**4290**	**4330**	**631**	**31700**
EG052G: Silica by Discrete Analyser									
Reactive Silica	----	0.05	mg/L		**0.35**	**8.73**	**8.49**	**0.79**	**0.62**
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water									
Ammonia as N	7664-41-7	0.02	mg/L		**0.07**	**0.21**	**0.20**	**0.28**	**0.24**
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L		<0.01	<0.01	<0.01	**0.01**	<0.01
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L		<0.01	<0.01	<0.01	**0.02**	<0.01
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L		<0.01	<0.01	<0.01	**0.03**	<0.01
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L		**2.2**	**0.8**	**1.0**	**1.2**	**0.9**
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
^ Total Nitrogen as N	----	0.1	mg/L		**2.2**	**0.8**	**1.0**	**1.2**	**0.9**
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		**2.45**	**0.04**	**0.03**	**0.07**	**0.66**
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		<0.01	**0.01**	**0.01**	<0.01	<0.01
EP002: Dissolved Organic Carbon (DOC)									
Dissolved Organic Carbon	----	1	mg/L		**29**	**11**	**10**	**9**	**21**

Analytical Results

Sub-Matrix: **WATER**
(Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	McGrath Flat North	Morella Basin @ outlet regulator NR	Morella Creek @ gauge NR	Murray Mouth NR	Noonameena
				Sampling date / time	27-Oct-2021 07:55	26-Oct-2021 16:00	26-Oct-2021 15:50	26-Oct-2021 11:10	27-Oct-2021 08:35
					EM2121437-006	**EM2121437-007**	**EM2121437-008**	**EM2121437-009**	**EM2121437-010**
					Result	Result	Result	Result	Result
EP005: Total Organic Carbon (TOC)									
Total Organic Carbon	----	1	mg/L		**34**	**10**	**10**	**8**	**20**
EP008: Chlorophyll									
Chlorophyll a	----	1	mg/m³		**4**	<1	<1	**3**	<1
Chlorophyll b	----	1	mg/m³		<1	<1	<1	<1	<1
Pheophytin a	----	1	mg/m³		**1**	<1	<1	**2**	<1

Analytical Results

Sub-Matrix: **WATER**
(Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	North Jacks Point	Parnka Point NR	Salt Creek Outlet	Snipe Point	South Policeman Point / Seagull Island
				Sampling date / time	26-Oct-2021 16:30	26-Oct-2021 18:20	26-Oct-2021 15:10	26-Oct-2021 15:45	26-Oct-2021 16:00
					EM2121437-011	EM2121437-012	EM2121437-013	EM2121437-014	EM2121437-015
					Result	Result	Result	Result	Result
BM010: Algal Count									
Algal Count	----	-	-		**NRind**	**NRind**	**NRind**	**NRind**	**NRind**
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L		**81500**	**86400**	**74100**	**74000**	**77300**
EA045: Turbidity									
Turbidity	----	0.1	NTU		**11.3**	**10.6**	**8.2**	**8.3**	**8.6**
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L		<1	<1	<1	<1	<1
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L		<1	<1	**5**	<1	<1
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L		**246**	**232**	**256**	**262**	**263**
Total Alkalinity as CaCO3	----	1	mg/L		**246**	**232**	**260**	**262**	**263**
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L		**47200**	**41200**	**38400**	**39700**	**41100**
EG052G: Silica by Discrete Analyser									
Reactive Silica	----	0.05	mg/L		**0.81**	**0.46**	**1.41**	**1.33**	**1.16**
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water									
Ammonia as N	7664-41-7	0.02	mg/L		**0.14**	<0.02	**0.18**	**0.20**	**0.02**
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L		<0.01	<0.01	<0.01	<0.01	<0.01
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L		<0.01	<0.01	<0.01	<0.01	<0.01
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L		<0.01	<0.01	<0.01	<0.01	<0.01
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L		**2.3**	**2.2**	**1.1**	**1.4**	**1.2**
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
^ Total Nitrogen as N	----	0.1	mg/L		**2.3**	**2.2**	**1.1**	**1.4**	**1.2**
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		**1.09**	**1.11**	**0.22**	**0.14**	**0.08**
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		<0.01	<0.01	<0.01	<0.01	<0.01
EP002: Dissolved Organic Carbon (DOC)									
Dissolved Organic Carbon	----	1	mg/L		**28**	**27**	**27**	**26**	**26**
EP005: Total Organic Carbon (TOC)									

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	North Jacks Point	Parnka Point NR	Salt Creek Outlet	Snipe Point	South Policeman Point / Seagull Island
				Sampling date / time	26-Oct-2021 16:30	26-Oct-2021 18:20	26-Oct-2021 15:10	26-Oct-2021 15:45	26-Oct-2021 16:00
Compound	CAS Number	LOR	Unit		EM2121437-011	EM2121437-012	EM2121437-013	EM2121437-014	EM2121437-015
					Result	Result	Result	Result	Result
EP005: Total Organic Carbon (TOC) - Continued									
Total Organic Carbon	----	1	mg/L		**34**	**31**	**31**	**31**	**30**
EP008: Chlorophyll									
Chlorophyll a	----	1	mg/m³		**6**	**2**	**7**	**9**	**5**
Chlorophyll b	----	1	mg/m³		<1	<1	**1**	**1**	<1
Pheophytin a	----	1	mg/m³		**4**	**7**	**3**	**3**	<1

Analytical Results

Sub-Matrix: **WATER**
(Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	Stoney Well NR	Tauwitchere D/S	Tauwitchere U/S	Tilley Swamp Drain D/S Nth Outlet NR	Tilley Swamp Drain U/S Morella NR
				Sampling date / time	26-Oct-2021 17:00	27-Oct-2021 09:50	27-Oct-2021 09:50	26-Oct-2021 17:15	26-Oct-2021 16:35
					EM2121437-016	EM2121437-017	EM2121437-018	EM2121437-019	EM2121437-020
					Result	Result	Result	Result	Result
BM010: Algal Count									
Algal Count	----	-	-		**NRind**	**NRind**	**NRind**	**NRind**	**NRind**
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L		**83400**	**1080**	**655**	**5990**	**6860**
EA045: Turbidity									
Turbidity	----	0.1	NTU		**9.3**	**90.0**	**112**	**2.4**	**1.8**
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L		<1	<1	<1	<1	<1
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L		<1	<1	<1	**6**	**22**
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L		**251**	**70**	**68**	**442**	**424**
Total Alkalinity as CaCO3	----	1	mg/L		**251**	**70**	**68**	**448**	**446**
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L		**46400**	**388**	**129**	**3170**	**3590**
EG052G: Silica by Discrete Analyser									
Reactive Silica	----	0.05	mg/L		**0.44**	**0.33**	**0.25**	**12.3**	**11.4**
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water									
Ammonia as N	7664-41-7	0.02	mg/L		<0.02	**0.38**	**0.29**	**0.14**	**0.21**
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L		<0.01	<0.01	<0.01	<0.01	<0.01
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L		<0.01	**0.02**	<0.01	**0.05**	**0.03**
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L		<0.01	**0.02**	<0.01	**0.05**	**0.03**
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L		**1.9**	**1.4**	**1.7**	**0.7**	**0.5**
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
^ Total Nitrogen as N	----	0.1	mg/L		**1.9**	**1.4**	**1.7**	**0.8**	**0.5**
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		**0.76**	**0.11**	**0.14**	**0.03**	**0.04**
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		<0.01	<0.01	<0.01	<0.01	**0.01**
EP002: Dissolved Organic Carbon (DOC)									
Dissolved Organic Carbon	----	1	mg/L		**27**	**12**	**8**	**6**	**6**

Analytical Results

Sub-Matrix: **WATER**
(Matrix: **WATER**)

Compound	CAS Number	LOR	Unit	Sample ID	Stoney Well NR	Tauwitchere D/S	Tauwitchere U/S	Tilley Swamp Drain D/S Nth Outlet NR	Tilley Swamp Drain U/S Morella NR
				Sampling date / time	26-Oct-2021 17:00	27-Oct-2021 09:50	27-Oct-2021 09:50	26-Oct-2021 17:15	26-Oct-2021 16:35
					EM2121437-016	EM2121437-017	EM2121437-018	EM2121437-019	EM2121437-020
					Result	Result	Result	Result	Result
EP005: Total Organic Carbon (TOC)									
Total Organic Carbon	----	1	mg/L		**30**	**10**	**6**	**4**	**6**
EP008: Chlorophyll									
Chlorophyll a	----	1	mg/m³		**6**	**13**	**20**	<1	<1
Chlorophyll b	----	1	mg/m³		**2**	<6	<11	<1	<1
Pheophytin a	----	1	mg/m³		**7**	<6	**33**	<1	<1

Analytical Results

Sub-Matrix: WATER (Matrix: WATER)				Sample ID	Tilley Swamp Drain Watercourse Outlet NR	Villa de Yumpa NR	----	----	----
				Sampling date / time	26-Oct-2021 17:25	26-Oct-2021 17:30	----	----	----
Compound	CAS Number	LOR	Unit		EM2121437-021	EM2121437-022	--------	--------	--------
					Result	Result	----	----	----
BM010: Algal Count									
Algal Count	----	-	-		NRind	NRind	----	----	----
EA015: Total Dissolved Solids dried at 180 ± 5 °C									
Total Dissolved Solids @180°C	----	10	mg/L		6290	83100	----	----	----
EA045: Turbidity									
Turbidity	----	0.1	NTU		3.4	12.6	----	----	----
ED037P: Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L		<1	<1	----	----	----
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L		22	<1	----	----	----
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L		426	226	----	----	----
Total Alkalinity as CaCO3	----	1	mg/L		448	226	----	----	----
ED045G: Chloride by Discrete Analyser									
Chloride	16887-00-6	1	mg/L		3300	43000	----	----	----
EG052G: Silica by Discrete Analyser									
Reactive Silica	----	0.05	mg/L		12.4	0.43	----	----	----
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water									
Ammonia as N	7664-41-7	0.02	mg/L		0.25	0.02	----	----	----
EK057G: Nitrite as N by Discrete Analyser									
Nitrite as N	14797-65-0	0.01	mg/L		<0.01	<0.01	----	----	----
EK058G: Nitrate as N by Discrete Analyser									
Nitrate as N	14797-55-8	0.01	mg/L		0.06	<0.01	----	----	----
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser									
Nitrite + Nitrate as N	----	0.01	mg/L		0.06	<0.01	----	----	----
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser									
Total Kjeldahl Nitrogen as N	----	0.1	mg/L		0.4	1.9	----	----	----
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser									
^ Total Nitrogen as N	----	0.1	mg/L		0.5	1.9	----	----	----
EK067G: Total Phosphorus as P by Discrete Analyser									
Total Phosphorus as P	----	0.01	mg/L		0.02	3.37	----	----	----
EK071G: Reactive Phosphorus as P by discrete analyser									
Reactive Phosphorus as P	14265-44-2	0.01	mg/L		0.01	<0.01	----	----	----
EP002: Dissolved Organic Carbon (DOC)									
Dissolved Organic Carbon	----	1	mg/L		5	27	----	----	----

Analytical Results

Sub-Matrix: **WATER** (Matrix: **WATER**)				Sample ID	**Tilley Swamp Drain Watercourse Outlet NR**	**Villa de Yumpa NR**	**----**	**----**	**----**
				Sampling date / time	26-Oct-2021 17:25	26-Oct-2021 17:30	----	----	----
Compound	*CAS Number*	*LOR*	*Unit*		**EM2121437-021**	**EM2121437-022**	**--------**	**--------**	**--------**
					Result	Result	----	----	----
EP005: Total Organic Carbon (TOC)									
Total Organic Carbon	----	1	mg/L		**6**	**32**	**----**	**----**	**----**
EP008: Chlorophyll									
Chlorophyll a	----	1	mg/m³		<1	**7**	**----**	**----**	**----**
Chlorophyll b	----	1	mg/m³		<1	**1**	**----**	**----**	**----**
Pheophytin a	----	1	mg/m³		<1	**6**	**----**	**----**	**----**

Inter-Laboratory Testing

Analysis conducted by ALS Sydney, NATA accreditation no. 825, site no. 10911 (Chemistry) 14913 (Biology).

(WATER) EP008: Chlorophyll