

CERTIFICATE OF ANALYSIS

Work Order : EM2210355

Client Dept for Environment & Water Contact : DARCY MORRIS

Address : GPO BOX 2834

ADELAIDE SA. AUSTRALIA 5001

Telephone : HCHB Monitoring Program Project

Order number **Date Analysis Commenced**

C-O-C number 38367 Sampler

: DARCY MORRIS, ROWLAND BOXALL

Site · HCHB Boat 01062022

Quote number : AD/052/20 V2

No. of samples received : 10 No. of samples analysed : 10 Page : 1 of 7

Laboratory : Environmental Division Melbourne

Contact : Kieren Burns

Address : 4 Westall Rd Springvale VIC Australia 3171

Telephone : +61881625130 **Date Samples Received** : 03-Jun-2022 11:35

: 03-Jun-2022

Issue Date : 16-Jun-2022 12:13



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 Senior Chemist - Inorganics Sydney Inorganics, Smithfield, NSW Dilani Fernando Laboratory Coordinator Melbourne Inorganics, Springvale, VIC Jarwis Nheu Senior Inorganic Chemist Melbourne Inorganics, Springvale, VIC Page : 2 of 7
Work Order : EM2210355

Client : Dept for Environment & Water
Project · HCHB Monitoring Program



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 Contract 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.
- EK059G: EM2210354 #2, Poor matrix spike recovery for NOx due to matrix effects. Confirmed by re-preparation and re-analysis.
- EP002:EP005:It is recognised that total organic carbon is less than dissolved organic carbon for samples EM2210355 #2. However, the difference is within experimental variation of the methods.
- EK067G: EM2210355 #1,4,5,8 &10 Sample required dilution for total phosphorus due to sample matrix. LOR has been raised accordingly.
- EP008; Chlorophyll-A Standard does not contain Pheophytin
- EG052G: EM2210355-010 Poor matrix spike recovery for reactive silica due to matrix effects.
- EP002: EM2210355 #2 Poor matrix spike recovery for dissolved organic carbon due to sample matrix. Insufficient sample to confirm the results.
- 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.
- Total Algae Count (MB010) is conducted by ALS Scoresby NATA accreditation no. 992, site no. 989.

Page : 3 of 7
Work Order : EM2210355

Client : Dept for Environment & Water Project : HCHB Monitoring Program



Campound	Sub-Matrix: MARINE WATER (Matrix: WATER)			Sample ID	Parnka Point Cold, overcast and light wind	Villa De Yumpa Cold, overcast, still	Stoney Well Cold, still, overcast	North Jacks Point Cold, still, overcast	South Policeman Point Cold, still, overcast.
Result R				_					
EAD15: Total Dissolved Solids dried at 180 ± 5 °C	Compound	CAS Number	LOR	Unit					
Total Dissolved Solids @180°C 10 mg/L 28300 38200 56300 77200 77700					Result	Result	Result	Result	Result
EA045: Turbidity			- 10						
Turbidity			10	mg/L	25300	38200	56300	77200	71700
ED037P; Alkalinity by PC Titrator									
Hydroxide Alkalinity as CaCO3	•		0.1	NTU	12.1	13.6	15.0	8.4	10.1
Carbonate Alkalinity as CaCO3 3812-32-6 1 mg/L <1 <1 <1 <1 <1 <1 <1 <									
Bicarbonate Alkalinity as CaCO3	· · · · · · · · · · · · · · · · · · ·			- u					
Total Alkalinity as CaCO3 1 mg/L 143 159 187 200 201 ED045C: Chloride by Discrete Analyser Chloride 16887-00-6 1 mg/L 14000 25600 33800 49200 49600 EG052C: Silica by Discrete Analyser Reactive Silica 0.05 mg/L 1.16 1.70 3.38 4.62 4.93 EK055C:SW: Ammonia as N by Discrete Analyser in Saline Water Ammonia as N 7664-41-7 0.02 mg/L 0.07 0.08 <0.02 0.13 <0.02 EK057G: Nitirite as N by Discrete Analyser Nitrate as N 14797-55-8 0.01 mg/L 0.06 0.03 0.02 0.02 0.02 EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser Nitrite Nitrate as N 0.01 mg/L 0.07 0.03 0.02 0.02 0.02 EK059G: Nitrite plus Nitrate as N 0.01 mg/L 0.07 0.03 0.02 0.02 0.02 EK0561C: Total Kjeldah Nitrogen By Discrete Analyser Total Kjeldah Nitrogen as N 0.1 mg/L 4.2 4.2 5.8 5.9 7.0 EK0667C: Total Nitrogen as N 0.01 mg/L 0.10 <0.00 <0.02 <0.02 0.01 0.02 EK0667C: Total Nitrogen as P 0.1 mg/L 4.3 4.2 5.8 5.9 7.0 EK0667C: Total Phosphorus as P by Discrete Analyser Total Phosphorus as P 0.01 mg/L 0.10 <0.02 <0.02 <0.02 0.11 0.25 EP002: Dissolved Organic Carbon (DOC) Dissolved Organic Carbon (TOC)				-					
ED045G: Chloride by Discrete Analyser Chloride 16887-00-6 1 mg/L 14000 25600 39800 49200 49600 EG052G: Silica by Discrete Analyser Reactive Silica				-			-		
Chloride	Total Alkalinity as CaCO3		1	mg/L	143	159	187	200	201
EG052G: Silica by Discrete Analyser Reactive Silica									
Reactive Silica	Chloride	16887-00-6	1	mg/L	14000	25600	39800	49200	49600
EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water Ammonia as N 7664-41-7 0.02 mg/L 0.07 0.08 <0.02 0.13 <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 <0.01 <0.01 EK058G: Nitrate as N by Discrete Analyser Nitrate as N 14797-55-8 0.01 mg/L 0.06 0.03 0.02 0.02 0.02 EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser Nitrite as N 0.01 mg/L 0.07 0.03 0.02 0.02 0.02 EK061G: Total Kjeldahl Nitrogen By Discrete Analyser Total Kjeldahl Nitrogen as N 0.1 mg/L 4.2 4.2 5.8 5.9 7.0 EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser A Total Nitrogen as N (TKN + NOx) by Discrete Analyser Total Kjeldahl Nitrogen as N (TKN + NOx) by Discrete Analyser A Total Nitrogen as N 0.1 mg/L 4.3 4.2 5.8 5.9 7.0 EK067G: Total Phosphorus as P by Discrete Analyser Total Kjeldahl Carbon (DOC) Dissolved Organic Carbon (DOC) Dissolved Organic Carbon (TOC)									
Ammonia as N 7664-41-7 0.02 mg/L 0.07 0.08 <0.02 0.13 <0.02	Reactive Silica		0.05	mg/L	1.16	1.70	3.38	4.62	4.93
EK057G: Nitrite as N by Discrete Analyser Nitrite as N by Discrete Analyser Nitrite as N 14797-65-8 0.01 mg/L 0.06 0.03 0.02 0.02 0.02 0.02	EK055G-SW: Ammonia as N by Discre	te Analyser in Saliı	ne Water						
Nitrite as N 14797-65-0 0.01 mg/L 0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.01 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.02 <0.	Ammonia as N	7664-41-7	0.02	mg/L	0.07	0.08	<0.02	0.13	<0.02
EK058G: Nitrate as N by Discrete Analyser Nitrate as N 14797-55-8 0.01 mg/L 0.06 0.03 0.02	EK057G: Nitrite as N by Discrete Analy	yser							
Nitrate as N	Nitrite as N	14797-65-0	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	EK058G: Nitrate as N by Discrete Anal	lyser							
Nitrite + Nitrate as N 0.01 mg/L 0.07 0.03 0.02 0.02 0.02 EK061G: Total Kjeldahl Nitrogen By Discrete Analyser Total Kjeldahl Nitrogen as N 0.1 mg/L 4.2 4.2 5.8 5.9 7.0 EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser ^ Total Nitrogen as N 0.1 mg/L 4.3 4.2 5.8 5.9 7.0 EK067G: Total Phosphorus as P by Discrete Analyser Total Phosphorus as P by Discrete Analyser Total Phosphorus as P 0.01 mg/L 0.10 <0.02 <0.02 0.11 0.25 EP002: Dissolved Organic Carbon (DOC) Dissolved Organic Carbon (TOC)	Nitrate as N	14797-55-8	0.01	mg/L	0.06	0.03	0.02	0.02	0.02
EK061G: Total Kjeldahl Nitrogen By Discrete Analyser Total Kjeldahl Nitrogen as N 0.1 mg/L 4.2 4.2 5.8 5.9 7.0 EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser ^ Total Nitrogen as N 0.1 mg/L 4.3 4.2 5.8 5.9 7.0 EK067G: Total Phosphorus as P by Discrete Analyser Total Phosphorus as P by Discrete Analyser Total Phosphorus as P 0.01 mg/L 0.10 <0.02 <0.02 0.11 0.25 EP002: Dissolved Organic Carbon (DOC) Dissolved Organic Carbon (TOC) EP005: Total Organic Carbon (TOC)	EK059G: Nitrite plus Nitrate as N (NO)	c) by Discrete Ana	lyser						
Total Kjeldahl Nitrogen as N	Nitrite + Nitrate as N		0.01	mg/L	0.07	0.03	0.02	0.02	0.02
EK062G: Total Nitrogen as N (TKN + NOx) by Discrete Analyser ^ Total Nitrogen as N 0.1 mg/L 4.3 4.2 5.8 5.9 7.0 EK067G: Total Phosphorus as P by Discrete Analyser Total Phosphorus as P 0.01 mg/L 0.10 <0.02 <0.02 0.11 0.25 EP002: Dissolved Organic Carbon (DOC) Dissolved Organic Carbon (TOC) EP005: Total Organic Carbon (TOC)	EK061G: Total Kjeldahl Nitrogen By Di	screte Analyser							
^ Total Nitrogen as N 0.1 mg/L 4.3 4.2 5.8 5.9 7.0 EK067G: Total Phosphorus as P by Discrete Analyser Total Phosphorus as P 0.01 mg/L 0.10 <0.02 <0.02 0.11 0.25 EP002: Dissolved Organic Carbon (DOC) Dissolved Organic Carbon (TOC) EP005: Total Organic Carbon (TOC)	Total Kjeldahl Nitrogen as N		0.1	mg/L	4.2	4.2	5.8	5.9	7.0
^ Total Nitrogen as N 0.1 mg/L 4.3 4.2 5.8 5.9 7.0 EK067G: Total Phosphorus as P by Discrete Analyser Total Phosphorus as P 0.01 mg/L 0.10 <0.02 <0.02 0.11 0.25 EP002: Dissolved Organic Carbon (DOC) Dissolved Organic Carbon (TOC) EP005: Total Organic Carbon (TOC)	EK062G: Total Nitrogen as N (TKN + N	Ox) by Discrete An	alyser						
Total Phosphorus as P 0.01 mg/L 0.10 <0.02 <0.02 0.11 0.25 EP002: Dissolved Organic Carbon (DOC) Dissolved Organic Carbon (TOC) Dissolved Organic Carbon (TOC) 21 26 34 35				mg/L	4.3	4.2	5.8	5.9	7.0
Total Phosphorus as P 0.01 mg/L 0.10 <0.02 <0.02 0.11 0.25 EP002: Dissolved Organic Carbon (DOC) Dissolved Organic Carbon (TOC) Dissolved Organic Carbon (TOC) 21 26 34 35	EK067G: Total Phosphorus as P by Dis	screte Analyser							
Dissolved Organic Carbon 1 mg/L 16 21 26 34 35 EP005: Total Organic Carbon (TOC) 1 1 1 35 <td< td=""><td></td><td></td><td>0.01</td><td>mg/L</td><td>0.10</td><td><0.02</td><td><0.02</td><td>0.11</td><td>0.25</td></td<>			0.01	mg/L	0.10	<0.02	<0.02	0.11	0.25
Dissolved Organic Carbon 1 mg/L 16 21 26 34 35 EP005: Total Organic Carbon (TOC) 1 1 1 35 <td< td=""><td>EP002: Dissolved Organic Carbon (DO</td><td>(C)</td><td></td><td></td><td></td><td></td><td></td><td></td><td></td></td<>	EP002: Dissolved Organic Carbon (DO	(C)							
EP005: Total Organic Carbon (TOC)		<u>, </u>	1	mg/L	16	21	26	34	35
			1	mg/L	16	24	31	37	38

Page : 4 of 7
Work Order : EM2210355

Client : Dept for Environment & Water Project : HCHB Monitoring Program



Sub-Matrix: MARINE WATER (Matrix: WATER)			Sample ID	Snipe Point Cold, still, overcast	Salt Creek Outlet Cold, still, overcast	1.8km west of Salt Creek Cold, still, overcast	
		Sampl	ing date / time	02-Jun-2022 09:07	02-Jun-2022 08:35	02-Jun-2022 08:48	
Compound	CAS Number	LOR	Unit	EM2210355-008	EM2210355-009	EM2210355-010	
				Result	Result	Result	
EA015: Total Dissolved Solids dried at	180 ± 5 °C						
Total Dissolved Solids @180°C		10	mg/L	82500	82400	82200	
EA045: Turbidity							
Turbidity		0.1	NTU	9.5	8.4	7.5	
ED037P: Alkalinity by PC Titrator							
Hydroxide Alkalinity as CaCO3	DMO-210-001	1	mg/L	<1	<1	<1	
Carbonate Alkalinity as CaCO3	3812-32-6	1	mg/L	<1	<1	<1	
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	204	212	206	
Total Alkalinity as CaCO3		1	mg/L	204	212	206	
ED045G: Chloride by Discrete Analyse							
Chloride	16887-00-6	1	mg/L	52600	53900	53300	
EG052G: Silica by Discrete Analyser							
Reactive Silica		0.05	mg/L	5.13	5.56	5.29	
EK055G-SW: Ammonia as N by Discret	e Analyser in Salir	ne Water					
Ammonia as N	7664-41-7		mg/L	<0.02	0.04	0.09	
EK057G: Nitrite as N by Discrete Analy	/ser						
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01	<0.01	
EK058G: Nitrate as N by Discrete Analy	vser						
Nitrate as N	14797-55-8	0.01	mg/L	0.02	0.04	0.05	
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Anal	vser					
Nitrite + Nitrate as N		0.01	mg/L	0.02	0.04	0.05	
EK061G: Total Kjeldahl Nitrogen By Dis	screte Analyser						
Total Kjeldahl Nitrogen as N		0.1	mg/L	6.3	8.6	6.1	
EK062G: Total Nitrogen as N (TKN + NO	Dx) by Discrete An	alvser					
^ Total Nitrogen as N		0.1	mg/L	6.3	8.6	6.2	
EK067G: Total Phosphorus as P by Dis	crete Analyser						
Total Phosphorus as P		0.01	mg/L	<0.02	0.20	<0.02	
EP002: Dissolved Organic Carbon (DO							
Dissolved Organic Carbon		1	mg/L	34	38	34	
EP005: Total Organic Carbon (TOC)			3. =				
Total Organic Carbon (10C)		1	mg/L	42	45	39	
. C.S. C. gamo Garbon		•	mg/L			55	

Page : 5 of 7
Work Order : EM2210355

Client : Dept for Environment & Water Project : HCHB Monitoring Program



Sub-Matrix: SEAWATER (Matrix: WATER)			Sample ID	Murray Mouth land	Mark Point land	Parnka Point Cold, overcast and light wind	Villa De Yumpa Cold, overcast, still	Stoney Well Cold, still, overcast
			ing date / time	01-Jun-2022 14:38	01-Jun-2022 13:55	02-Jun-2022 11:13	02-Jun-2022 10:43	02-Jun-2022 10:10
Compound	CAS Number	LOR	Unit	EM2210355-001	EM2210355-002	EM2210355-003	EM2210355-004	EM2210355-005
				Result	Result	Result	Result	Result
EA015: Total Dissolved Solids dried at		40		0.4700	F440			
Total Dissolved Solids @180°C		10	mg/L	31700	5110			
EA045: Turbidity		0.4	NITH	***			l	
Turbidity		0.1	NTU	14.3	9.0			
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	<1	<1			
Bicarbonate Alkalinity as CaCO3	71-52-3	1	mg/L	119	103			
Total Alkalinity as CaCO3		1	mg/L	119	103			
ED045G: Chloride by Discrete Analyse								
Chloride	16887-00-6	1	mg/L	18500	2990			
EG052G: Silica by Discrete Analyser								
Reactive Silica		0.05	mg/L	0.34	2.62			
EK055G-SW: Ammonia as N by Discret	e Analyser in Salin	e Water						
Ammonia as N	7664-41-7	0.02	mg/L	0.06	0.20			
EK057G: Nitrite as N by Discrete Analy	/ser							
Nitrite as N	14797-65-0	0.01	mg/L	<0.01	<0.01			
EK058G: Nitrate as N by Discrete Anal	vser							
Nitrate as N	14797-55-8	0.01	mg/L	0.06	0.13			
EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Anal	vser						
Nitrite + Nitrate as N		0.01	mg/L	0.06	0.13			
EK061G: Total Kjeldahl Nitrogen By Dis	screte Analyser							
Total Kjeldahl Nitrogen as N		0.1	mg/L	2.5	0.2			
	Ox) by Diggrets An		g		V.=			
EK062G: Total Nitrogen as N (TKN + NO ^ Total Nitrogen as N	DX) by Discrete And	0.1	mg/L	2.6	0.3			
		0.1	mg/L	2.0	0.0			
EK067G: Total Phosphorus as P by Dis		0.01	mg/L	<0.02	0.00		I	I
Total Phosphorus as P		0.01	mg/L	~ 0.02	0.06			
EP002: Dissolved Organic Carbon (DO					10			
Dissolved Organic Carbon		1	mg/L	4	10			
EP005: Total Organic Carbon (TOC)								
Total Organic Carbon		1	mg/L	4	9			
EP008: Chlorophyll								
Chlorophyll a		1	mg/m³	4	9	8	11	15

Page : 6 of 7
Work Order : EM2210355

Client : Dept for Environment & Water Project : HCHB Monitoring Program



Sub-Matrix: SEAWATER (Matrix: WATER)			Sample ID	Murray Mouth land	Mark Point land	Parnka Point Cold, overcast and light wind	Villa De Yumpa Cold, overcast, still	Stoney Well Cold, still, overcast
		Sampli	ng date / time	01-Jun-2022 14:38	01-Jun-2022 13:55	02-Jun-2022 11:13	02-Jun-2022 10:43	02-Jun-2022 10:10
Compound	CAS Number	LOR	Unit	EM2210355-001	EM2210355-002	EM2210355-003	EM2210355-004	EM2210355-005
				Result	Result	Result	Result	Result
EP008: Chlorophyll - Continued								
Chlorophyll b		1	mg/m³	<1	<1	1	1	2
Pheophytin a		1	mg/m³	4	8	8	9	12

Page : 7 of 7
Work Order : EM2210355

Client : Dept for Environment & Water
Project : HCHB Monitoring Program



Analytical Results

Sub-Matrix: SEAWATER (Matrix: WATER)			Sample ID	North Jacks Point Cold, still, overcast	South Policeman Point Cold, still, overcast.	Snipe Point Cold, still, overcast	Salt Creek Outlet Cold, still, overcast	1.8km west of Salt Creek
								Cold, still, overcast
		Sampli	ng date / time	02-Jun-2022 10:16	02-Jun-2022 09:25	02-Jun-2022 09:07	02-Jun-2022 08:35	02-Jun-2022 08:48
Compound	CAS Number	LOR	Unit	EM2210355-006	EM2210355-007	EM2210355-008	EM2210355-009	EM2210355-010
				Result	Result	Result	Result	Result
EP008: Chlorophyll								
Chlorophyll a		1	mg/m³	12	21	16	14	12
Chlorophyll b		1	mg/m³	1	2	2	2	1
Pheophytin a		1	mg/m³	12	14	30	10	12

Inter-Laboratory Testing

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

(WATER) EP008: Chlorophyll