

QA/QC Compliance Assessment to assist with Quality Review

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Client : Dept for Environment & Water : Laboratory : Environmental Division Melbourne

Contact: DARCY MORRISTelephone: +61881625130Project: HCHB Monitoring ProgramDate Samples Received: 30-Sep-2022Site: HCHB Boat 28/29th SeptemberIssue Date: 10-Oct-2022

Sampler : Bryce Drechsler, DARCY MORRIS No. of samples received : 10
Order number : - No. of samples analysed : 10

This report is automatically generated by the ALS LIMS through interpretation of the ALS Quality Control Report and several Quality Assurance parameters measured by ALS. This automated reporting highlights any non-conformances, facilitates faster and more accurate data validation and is designed to assist internal expert and external Auditor review. Many components of this report contribute to the overall DQO assessment and reporting for guideline compliance.

Brief method summaries and references are also provided to assist in traceability.

Summary of Outliers

Outliers: Quality Control Samples

This report highlights outliers flagged in the Quality Control (QC) Report.

- NO Method Blank value outliers occur.
- NO Duplicate outliers occur.
- NO Laboratory Control outliers occur.
- Matrix Spike outliers exist please see following pages for full details.
- For all regular sample matrices, NO surrogate recovery outliers occur.

Outliers: Analysis Holding Time Compliance

• NO Analysis Holding Time Outliers exist.

Outliers: Frequency of Quality Control Samples

Quality Control Sample Frequency Outliers exist - please see following pages for full details.

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Outliers: Quality Control Samples

Duplicates, Method Blanks, Laboratory Control Samples and Matrix Spikes

Matrix: WATER

Compound Group Name	Laboratory Sample ID	Client Sample ID	Analyte	CAS Number	Data	Limits	Comment
Matrix Spike (MS) Recoveries							
ED045G: Chloride by Discrete Analyser	EM2218952002	Mark Point	Chloride	16887-00-6	Not		MS recovery not determined,
					Determined		background level greater than or
							equal to 4x spike level.

Outliers: Frequency of Quality Control Samples

Matrix: WATER

Quality Control Sample Type	Count		Rate	: (%)	Quality Control Specification
Method	QC	Regular	Actual Expected		
Laboratory Duplicates (DUP)					
Chlorophyll a, b and c	0	21	0.00	10.00	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)					
Chlorophyll a, b and c	0	21	0.00	5.00	NEPM 2013 B3 & ALS QC Standard

Analysis Holding Time Compliance

If samples are identified below as having been analysed or extracted outside of recommended holding times, this should be taken into consideration when interpreting results.

This report summarizes extraction / preparation and analysis times and compares each with ALS recommended holding times (referencing USEPA SW 846, APHA, AS and NEPM) based on the sample container provided. Dates reported represent first date of extraction or analysis and preclude subsequent dilutions and reruns. A listing of breaches (if any) is provided herein.

Holding time for leachate methods (e.g. TCLP) vary according to the analytes reported. Assessment compares the leach date with the shortest analyte holding time for the equivalent soil method. These are: organics 14 days, mercury 28 days & other metals 180 days. A recorded breach does not guarantee a breach for all non-volatile parameters.

Holding times for <u>VOC in soils</u> vary according to analytes of interest. Vinyl Chloride and Styrene holding time is 7 days; others 14 days. A recorded breach does not guarantee a breach for all VOC analytes and should be verified in case the reported breach is a false positive <u>or</u> Vinyl Chloride and Styrene are not key analytes of interest/concern.

Matrix: WATER Evaluation: ▼ = Holding time breach; ✓ = Within holding time.

Method			E	ktraction / Preparation	action / Preparation		Analysis	
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EA015: Total Dissolved Solids dried at 180 ± 5 °C								
Clear Plastic Bottle - Natural (EA015H)								
Murray Mouth,	Mark Point	28-Sep-2022				05-Oct-2022	05-Oct-2022	✓
Clear Plastic Bottle - Natural (EA015H)								
Parnka Point,	Villa De Yumpa,	29-Sep-2022				05-Oct-2022	06-Oct-2022	✓
Stoney Well,	North Jacks Point,							
South Policeman Point,	Snipe Point,							
Salt Creek Outlet,	1.8km west of Salt Creek							
EA045: Turbidity								
Clear Plastic Bottle - Natural (EA045)								
Murray Mouth,	Mark Point	28-Sep-2022				30-Sep-2022	30-Sep-2022	✓
Clear Plastic Bottle - Natural (EA045)								
Parnka Point,	Villa De Yumpa,	29-Sep-2022				30-Sep-2022	01-Oct-2022	✓
Stoney Well,	North Jacks Point,							
South Policeman Point,	Snipe Point,							
Salt Creek Outlet,	1.8km west of Salt Creek							

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Matrix: WATER Evaluation: × = Holding time breach ; ✓ = Within holding time. Method Sample Date Extraction / Preparation Analysis Container / Client Sample ID(s) Date extracted Due for extraction Evaluation Date analysed Due for analysis Evaluation ED037P: Alkalinity by PC Titrator White Plastic Bottle - Unpreserved (ED037-P) 28-Sep-2022 06-Oct-2022 12-Oct-2022 Murray Mouth, Mark Point ----White Plastic Bottle - Unpreserved (ED037-P) Parnka Point, Villa De Yumpa, 29-Sep-2022 06-Oct-2022 13-Oct-2022 Stoney Well, North Jacks Point, South Policeman Point. Snipe Point, Salt Creek Outlet. 1.8km west of Salt Creek ED045G: Chloride by Discrete Analyser Clear Plastic Bottle - Natural (ED045G) 28-Sep-2022 06-Oct-2022 26-Oct-2022 Murray Mouth. Mark Point ----Clear Plastic Bottle - Natural (ED045G) 29-Sep-2022 06-Oct-2022 27-Oct-2022 Parnka Point, Villa De Yumpa, North Jacks Point. Stoney Well. South Policeman Point. Snipe Point. Salt Creek Outlet. 1.8km west of Salt Creek EG052G: Silica by Discrete Analyser Clear Plastic Bottle - Natural (EG052G) 07-Oct-2022 26-Oct-2022 28-Sep-2022 Murray Mouth, Mark Point ----Clear Plastic Bottle - Natural (EG052G) 27-Oct-2022 Parnka Point, 29-Sep-2022 07-Oct-2022 Villa De Yumpa, Stoney Well, North Jacks Point, South Policeman Point, Snipe Point, 1.8km west of Salt Creek Salt Creek Outlet. EK055G-SW: Ammonia as N by Discrete Analyser in Saline Water Clear Plastic Bottle - Sulfuric Acid (EK055G-SW) 28-Sep-2022 05-Oct-2022 26-Oct-2022 Mark Point Murray Mouth, Clear Plastic Bottle - Sulfuric Acid (EK055G-SW) 29-Sep-2022 05-Oct-2022 27-Oct-2022 Parnka Point. Villa De Yumpa. North Jacks Point. Stoney Well, South Policeman Point. Snipe Point. Salt Creek Outlet. 1.8km west of Salt Creek EK057G: Nitrite as N by Discrete Analyser Clear Plastic Bottle - Natural (EK057G) 30-Sep-2022 Murray Mouth. Mark Point 28-Sep-2022 ----30-Sep-2022 Clear Plastic Bottle - Natural (EK057G) Parnka Point, 29-Sep-2022 30-Sep-2022 01-Oct-2022 Villa De Yumpa. Stoney Well, North Jacks Point. South Policeman Point. Snipe Point, Salt Creek Outlet, 1.8km west of Salt Creek

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Salt Creek Outlet.

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Matrix: WATER Evaluation: × = Holding time breach ; ✓ = Within holding time. Method Sample Date Extraction / Preparation Analysis Container / Client Sample ID(s) Date extracted Due for extraction Evaluation Date analysed Due for analysis Evaluation EK059G: Nitrite plus Nitrate as N (NOx) by Discrete Analyser Clear Plastic Bottle - Sulfuric Acid (EK059G) 28-Sep-2022 04-Oct-2022 26-Oct-2022 Murray Mouth, Mark Point ----Clear Plastic Bottle - Sulfuric Acid (EK059G) Parnka Point, Villa De Yumpa, 29-Sep-2022 04-Oct-2022 27-Oct-2022 Stoney Well, North Jacks Point, South Policeman Point. Snipe Point, Salt Creek Outlet. 1.8km west of Salt Creek EK061G: Total Kjeldahl Nitrogen By Discrete Analyser Clear Plastic Bottle - Sulfuric Acid (EK061G) 28-Sep-2022 06-Oct-2022 26-Oct-2022 1 06-Oct-2022 26-Oct-2022 Murray Mouth. Mark Point Clear Plastic Bottle - Sulfuric Acid (EK061G) 06-Oct-2022 27-Oct-2022 06-Oct-2022 27-Oct-2022 Parnka Point, Villa De Yumpa, 29-Sep-2022 North Jacks Point. Stoney Well. South Policeman Point. Snipe Point. Salt Creek Outlet. 1.8km west of Salt Creek EK067G: Total Phosphorus as P by Discrete Analyser Clear Plastic Bottle - Sulfuric Acid (EK067G) 26-Oct-2022 06-Oct-2022 26-Oct-2022 28-Sep-2022 06-Oct-2022 Murray Mouth, Mark Point 1 Clear Plastic Bottle - Sulfuric Acid (EK067G) 27-Oct-2022 27-Oct-2022 29-Sep-2022 06-Oct-2022 06-Oct-2022 Parnka Point, Villa De Yumpa, Stoney Well, North Jacks Point, South Policeman Point, Snipe Point, Salt Creek Outlet. 1.8km west of Salt Creek EP002: Dissolved Organic Carbon (DOC) Amber DOC Filtered- Sulfuric Preserved (EP002) 28-Sep-2022 05-Oct-2022 26-Oct-2022 Mark Point Murray Mouth, Amber DOC Filtered- Sulfuric Preserved (EP002) 29-Sep-2022 05-Oct-2022 27-Oct-2022 Parnka Point. Villa De Yumpa. ----North Jacks Point Stoney Well, Amber DOC Filtered- Sulfuric Preserved (EP002) 29-Sep-2022 06-Oct-2022 27-Oct-2022 South Policeman Point. Snipe Point. Salt Creek Outlet. 1.8km west of Salt Creek EP005: Total Organic Carbon (TOC) Amber TOC Vial - Sulfuric Acid (EP005) 28-Sep-2022 05-Oct-2022 26-Oct-2022 Murray Mouth, Mark Point ----Amber TOC Vial - Sulfuric Acid (EP005) Parnka Point. Villa De Yumpa, 29-Sep-2022 05-Oct-2022 27-Oct-2022 North Jacks Point Stoney Well, Amber TOC Vial - Sulfuric Acid (EP005) 29-Sep-2022 06-Oct-2022 27-Oct-2022 South Policeman Point. Snipe Point.

1.8km west of Salt Creek

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Dept for Environment & Water Client HCHB Monitoring Program Project



Matrix: WATER Evaluation: **x** = Holding time breach ; ✓ = Within holding time.

Method		Sample Date	Ex	traction / Preparation		Analysis		
Container / Client Sample ID(s)			Date extracted	Due for extraction	Evaluation	Date analysed	Due for analysis	Evaluation
EP008: Chlorophyll								
Glass Fibre Filter Paper (Chlorophyll) (EP008B) Murray Mouth,	Mark Point	28-Sep-2022				04-Oct-2022	19-Oct-2022	√
Glass Fibre Filter Paper (Chlorophyll) (EP008B) Parnka Point,	Villa De Yumpa,	29-Sep-2022				04-Oct-2022	20-Oct-2022	√
Stoney Well,	North Jacks Point,							
South Policeman Point,	Snipe Point,							
Salt Creek Outlet,	1.8km west of Salt Creek							

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Quality Control Parameter Frequency Compliance

The following report summarises the frequency of laboratory QC samples analysed within the analytical lot(s) in which the submitted sample(s) was(were) processed. Actual rate should be greater than or equal to the expected rate. A listing of breaches is provided in the Summary of Outliers.

the expected rate. A listing of breaches is provided in the Summary of Outliers.

Matrix: WATER

Evaluation: × = Quality Control frequency not within specification; ✓ = Quality Control frequency within specification.

Matrix: WAIER Ouglity Control Sample Type	Evaluation: * = Quality Control frequency not within specification; * = Quality Control frequency						
Quality Control Sample Type	Mathad		ount	4.7.1	Rate (%)	Evaluation	Quality Control Specification
Analytical Methods	Method	OC	Reaular	Actual	Expected	Evaluation	
Laboratory Duplicates (DUP)							
Alkalinity by Auto Titrator	ED037-P	3	21	14.29	10.00	√	NEPM 2013 B3 & ALS QC Standard
Ammonia as N (Saline Water)	EK055G-SW	3	23	13.04	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Chlorophyll a, b and c	EP008B	0	21	0.00	10.00	æ	NEPM 2013 B3 & ALS QC Standard
Dissolved Organic Carbon	EP002	4	35	11.43	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	3	23	13.04	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Silica (Reactive) by Discrete Analyser	EG052G	1	10	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Dissolved Solids (High Level)	EA015H	8	80	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Organic Carbon	EP005	4	40	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus as P By Discrete Analyser	EK067G	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Turbidity	EA045	2	11	18.18	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Laboratory Control Samples (LCS)							
Alkalinity by Auto Titrator	ED037-P	2	21	9.52	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Ammonia as N (Saline Water)	EK055G-SW	2	23	8.70	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	2	20	10.00	10.00	✓	NEPM 2013 B3 & ALS QC Standard
Chlorophyll a and Pheophytin a	EP008	2	21	9.52	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Chlorophyll a, b and c	EP008B	0	21	0.00	5.00	se	NEPM 2013 B3 & ALS QC Standard
Dissolved Organic Carbon	EP002	2	35	5.71	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	2	23	8.70	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Silica (Reactive) by Discrete Analyser	EG052G	1	10	10.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Dissolved Solids (High Level)	EA015H	6	80	7.50	7.50	✓	NEPM 2013 B3 & ALS QC Standard
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Organic Carbon	EP005	2	40	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Total Phosphorus as P By Discrete Analyser	EK067G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Turbidity	EA045	1	11	9.09	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Method Blanks (MB)							
Ammonia as N (Saline Water)	EK055G-SW	2	23	8.70	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Chloride by Discrete Analyser	ED045G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Chlorophyll a and Pheophytin a	EP008	2	21	9.52	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Chlorophyll a, b and c	EP008B	2	21	9.52	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Dissolved Organic Carbon	EP002	2	35	5.71	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	2	23	8.70	5.00	✓	NEPM 2013 B3 & ALS QC Standard
Nitrite as N by Discrete Analyser	EK057G	1	20	5.00	5.00	✓	NEPM 2013 B3 & ALS QC Standard

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Total Phosphorus as P By Discrete Analyser

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Matrix: WATER Evaluation: * = Quality Control frequency not within specification; * = Quality Control frequency within specification. Quality Control Sample Type Count Rate (%) **Quality Control Specification** Evaluation Method QC Analytical Methods Regular Actual Expected Method Blanks (MB) - Continued Silica (Reactive) by Discrete Analyser 10 10.00 5.00 NEPM 2013 B3 & ALS QC Standard EG052G 1 1 Total Dissolved Solids (High Level) 4 80 NEPM 2013 B3 & ALS QC Standard 5.00 5.00 1 EA015H 1 Total Kjeldahl Nitrogen as N By Discrete Analyser 20 EK061G 5.00 5.00 NEPM 2013 B3 & ALS QC Standard 1 2 40 Total Organic Carbon 5.00 5.00 NEPM 2013 B3 & ALS QC Standard EP005 1 Total Phosphorus as P By Discrete Analyser EK067G 1 20 5.00 5.00 NEPM 2013 B3 & ALS QC Standard 1 Turbidity 1 11 NEPM 2013 B3 & ALS QC Standard EA045 9.09 5.00 1 Matrix Spikes (MS) Ammonia as N (Saline Water) 2 23 NEPM 2013 B3 & ALS QC Standard EK055G-SW 8.70 5.00 1 1 Chloride by Discrete Analyser 20 ED045G 5.00 5.00 1 NEPM 2013 B3 & ALS QC Standard Dissolved Organic Carbon 2 35 5.71 5.00 1 NEPM 2013 B3 & ALS QC Standard EP002 2 Nitrite and Nitrate as N (NOx) by Discrete Analyser 23 1 EK059G 8.70 5.00 NEPM 2013 B3 & ALS QC Standard Nitrite as N by Discrete Analyser 1 20 5.00 5.00 NEPM 2013 B3 & ALS QC Standard EK057G 1 Silica (Reactive) by Discrete Analyser 1 10 10.00 5.00 NEPM 2013 B3 & ALS QC Standard EG052G 1 Total Kjeldahl Nitrogen as N By Discrete Analyser 1 20 NEPM 2013 B3 & ALS QC Standard 5.00 5.00 EK061G 1 Total Organic Carbon 2 40 EP005 5.00 5.00 1 NEPM 2013 B3 & ALS QC Standard

20

5.00

5.00

1

NEPM 2013 B3 & ALS QC Standard

1

EK067G

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Brief Method Summaries

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the US EPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by client request. The following report provides brief descriptions of the analytical procedures employed for results reported in the Certificate of Analysis. Sources from which ALS methods have been developed are provided within the Method Descriptions.

Analytical Methods	Method	Matrix	Method Descriptions
Total Dissolved Solids (High Level)	EA015H	WATER	In house: Referenced to APHA 2540C. A gravimetric procedure that determines the amount of `filterable` residue in an aqueous sample. A well-mixed sample is filtered through a glass fibre filter (1.2um). The filtrate is evaporated to dryness and dried to constant weight at 180+/-5C. This method is compliant with NEPM Schedule B(3)
Turbidity	EA045	WATER	In house: Referenced to APHA 2130 B. This method is compliant with NEPM Schedule B(3)
Alkalinity by Auto Titrator	ED037-P	WATER	In house: Referenced to APHA 2320 B This procedure determines alkalinity by automated measurement (e.g. PC Titrate) on a settled supernatant aliquot of the sample using pH 4.5 for indicating the total alkalinity end-point. This method is compliant with NEPM Schedule B(3)
Chloride by Discrete Analyser	ED045G	WATER	In house: Referenced to APHA 4500 CI - G.The thiocyanate ion is liberated from mercuric thiocyanate through sequestration of mercury by the chloride ion to form non-ionised mercuric chloride. In the presence of ferric ions the liberated thiocynate forms highly-coloured ferric thiocynate which is measured at 480 nm.
Silica (Reactive) by Discrete Analyser	EG052G	WATER	In house: Referenced to APHA 4500-SiO2 D: Under Acdic conditions reactive silicon combines with ammonium molybdate to form a yellow molybdosilicic acid complex. This is reduced by 1-amino-2-naphthol-4-sulfonic acid to a silicomolybdenum blue complex which is measured by discrete analyser at 670 nm. This method is compliant with NEPM Schedule B(3).
Ammonia as N (Saline Water)	EK055G-SW	WATER	In house: Referenced to APHA 4500-NH3 G Ammonia is determined by direct colorimetry by Discrete Analyser. This method is compliant with NEPM Schedule B(3)
Nitrite as N by Discrete Analyser	EK057G	WATER	In house: Referenced to APHA 4500-NO2- B. Nitrite is determined by direct colourimetry by Discrete Analyser. This method is compliant with NEPM Schedule B(3)
Nitrate as N by Discrete Analyser	EK058G	WATER	In house: Referenced to APHA 4500-NO3- F. Nitrate is reduced to nitrite by way of a chemical reduction followed by quantification by Discrete Analyser. Nitrite is determined seperately by direct colourimetry and result for Nitrate calculated as the difference between the two results. This method is compliant with NEPM Schedule B(3)
Nitrite and Nitrate as N (NOx) by Discrete Analyser	EK059G	WATER	In house: Referenced to APHA 4500-NO3- F. Combined oxidised Nitrogen (NO2+NO3) is determined by Chemical Reduction and direct colourimetry by Discrete Analyser. This method is compliant with NEPM Schedule B(3)
Total Kjeldahl Nitrogen as N By Discrete Analyser	EK061G	WATER	In house: Referenced to APHA 4500-Norg D (In house). An aliquot of sample is digested using a high temperature Kjeldahl digestion to convert nitrogenous compounds to ammonia. Ammonia is determined colorimetrically by discrete analyser. This method is compliant with NEPM Schedule B(3)
Total Nitrogen as N (TKN + Nox) By Discrete Analyser	EK062G	WATER	In house: Referenced to APHA 4500-Norg / 4500-NO3 This method is compliant with NEPM Schedule B(3)
Total Phosphorus as P By Discrete Analyser	EK067G	WATER	In house: Referenced to APHA 4500-P H, Jirka et al, Zhang et al. This procedure involves sulphuric acid digestion of a sample aliquot to break phosphorus down to orthophosphate. The orthophosphate reacts with ammonium molybdate and antimony potassium tartrate to form a complex which is then reduced and its concentration measured at 880nm using discrete analyser. This method is compliant with NEPM Schedule B(3)
Dissolved Organic Carbon	EP002	WATER	In house: Referenced to APHA 5310 B. This method is compliant with NEPM Schedule B(3). Samples are combusted at high termperature in the presence of an oxidative catalyst. The evolved carbon dioxide is quantified using an IR detector.

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Analytical Methods	Method	Matrix	Method Descriptions
Total Organic Carbon	EP005	WATER	In house: Referenced to APHA 5310 B, The automated TOC analyzer determines Total and Inorganic Carbon by
			IR cell. TOC is calculated as the difference. This method is compliant with NEPM Schedule B(3)
Chlorophyll a and Pheophytin a	EP008	WATER	In house: Referenced to APHA 10200 H. The pigments are extracted into aqueous acetone. The optical density of
			the extract before and after acidification at both 664 nm and 665 nm is determined spectrometrically.
Chlorophyll a, b and c	EP008B	WATER	In house: Referenced to APHA 10200 H. The pigments are extracted into aqueous acetone. The trichromatic
			method is used by determining the optical density of the extract at 664 nm, 647nm and 630 nm spectrometrically.
Preparation Methods	Method	Matrix	Method Descriptions
TKN/TP Digestion	EK061/EK067	WATER	In house: Referenced to APHA 4500 Norg - D; APHA 4500 P - H. This method is compliant with NEPM Schedule
			B(3)