



General Comments

The analytical procedures used by the Environmental Division have been developed from established internationally recognized procedures such as those published by the USEPA, APHA, AS and NEPM. In house developed procedures are employed in the absence of documented standards or by 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.

- For samples collected by ALS WRG, sampling was carried out in accordance with Procedure EN67
- Result for pH in water tested in the laboratory may be indicative only as holding time is generally not achievable.



Analytical Results

Sub-Matrix: WATER
 (Matrix: WATER)

Client sample ID

				STHMEATS1 Ex Daf	STHMEATS2 Circular Anaerobic Lagoon	STHMEATS3 Aerated Lagoon	STHMEATS4 Settling Pond 2	STHMEATS5 Storage Dam 1
Client sampling date / time				12-Nov-2018 00:00	12-Nov-2018 00:00	12-Nov-2018 00:00	12-Nov-2018 00:00	12-Nov-2018 00:00
Compound	CAS Number	LOR	Unit	CA1806866-001	CA1806866-002	CA1806866-003	CA1806866-004	CA1806866-005
				Result	Result	Result	Result	Result
EA005CA: pH								
pH	----	0.01	pH Unit	6.89	7.52	7.81	7.85	7.75
EA010CA: Conductivity								
Electrical Conductivity @ 25°C	----	2	µS/cm	1590	2620	2620	2620	2360
ED009CA: Anions								
Chloride	16887-00-6	0.1	mg/L	175	189	143	198	207
EA015CA: Total Dissolved Solids								
Total Dissolved Solids	----	10	mg/L	1230	998	976	1020	970
EA025CA: Suspended Solids								
Suspended Solids (SS)	----	2	mg/L	2500	182	227	176	176
EP030CA: Biochemical Oxygen Demand								
Biochemical Oxygen Demand	----	2	mg/L	2810	106	90	93	29
EP026CA: Chemical Oxygen Demand								
Chemical Oxygen Demand	----	5	mg/L	7340	489	541	465	372
EK059CA: Nitrite plus Nitrate as N								
Nitrite + Nitrate as N	----	0.05	mg/L N	0.09	<0.05	<0.05	<0.05	5.60
EK061CA: Total Kjeldahl Nitrogen as N								
Total Kjeldahl Nitrogen as N	----	0.05	mg/L N	229	211	218	210	168
EK062CA: Total Nitrogen as N								
Total Nitrogen as N	----	0.05	mg/L N	229	211	218	210	174
EK067CA: Total Phosphorus as P								
Total Phosphorus as P	----	0.01	mg/L P	36.5	27.9	29.4	29.5	32.0
EG005CA: Total Metals by ICP-OES								
Calcium	7440-70-2	0.05	mg/L	72.0	39.9	46.2	44.4	47.2
Magnesium	7439-95-4	0.05	mg/L	31.4	28.7	29.9	30.0	32.6
Sodium	7440-23-5	0.1	mg/L	205	229	238	238	250
EA006CA: Sodium Adsorption Ratio								
∅ Sodium Adsorption Ratio	----	0.01	-	9.39	6.56	6.33	6.62	6.64



Analytical Results

Sub-Matrix: WATER (Matrix: WATER)		Client sample ID			STHMEATS6 Storage Dam 2	STHMEATS7 Run Off Dam 1	STHMEATS8 Run Off Dam 2	----	----
Client sampling date / time		12-Nov-2018 00:00			12-Nov-2018 00:00	12-Nov-2018 00:00	----	----	
Compound	CAS Number	LOR	Unit	CA1806866-006	CA1806866-007	CA1806866-008	-----	-----	
				Result	Result	Result	----	----	
EA005CA: pH									
pH	----	0.01	pH Unit	7.69	8.44	9.40	----	----	
EA010CA: Conductivity									
Electrical Conductivity @ 25°C	----	2	µS/cm	2270	2150	2250	----	----	
ED009CA: Anions									
Chloride	16887-00-6	0.1	mg/L	213	314	283	----	----	
EA015CA: Total Dissolved Solids									
Total Dissolved Solids	----	10	mg/L	988	1280	1380	----	----	
EA025CA: Suspended Solids									
Suspended Solids (SS)	----	2	mg/L	169	7	103	----	----	
EP030CA: Biochemical Oxygen Demand									
Biochemical Oxygen Demand	----	2	mg/L	42	<2	8	----	----	
EP026CA: Chemical Oxygen Demand									
Chemical Oxygen Demand	----	5	mg/L	293	170	277	----	----	
EK059CA: Nitrite plus Nitrate as N									
Nitrite + Nitrate as N	----	0.05	mg/L N	8.11	4.93	0.08	----	----	
EK061CA: Total Kjeldahl Nitrogen as N									
Total Kjeldahl Nitrogen as N	----	0.05	mg/L N	121	14.1	15.5	----	----	
EK062CA: Total Nitrogen as N									
Total Nitrogen as N	----	0.05	mg/L N	129	19.0	15.6	----	----	
EK067CA: Total Phosphorus as P									
Total Phosphorus as P	----	0.01	mg/L P	33.3	18.5	12.1	----	----	
EG005CA: Total Metals by ICP-OES									
Calcium	7440-70-2	0.05	mg/L	47.7	32.2	21.3	----	----	
Magnesium	7439-95-4	0.05	mg/L	33.9	38.5	29.4	----	----	
Sodium	7440-23-5	0.1	mg/L	252	370	427	----	----	
EA006CA: Sodium Adsorption Ratio									
∅ Sodium Adsorption Ratio	----	0.01	-	6.76	10.2	14.3	----	----	