



# Englobe

Soils Materials Environment

## **Town of Yarmouth**

## **Groundwater and Surface Water Monitoring & Testing, Civic No. 2014 Lake George Road, Lake George, NS**

### **Report**

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## Town of Yarmouth

# Groundwater and Surface Water Monitoring & Testing Civic No. 2014 Lake George Road, Lake George, NS

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Prepared by:



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**Lisa Ladouceur, CET**

Technologist, Environmental Engineering

Approved by :



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**Aven Cole, M.Sc.E., P.Eng.**

Project Engineer, Environmental Engineering

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## EXECUTIVE SUMMARY

As a follow-up to our May 2016 Environmental Investigation, Englobe Corp. (Englobe) has conducted a long term monitoring program so that a Remedial Action Plan (RAP) could be prepared to fulfill your obligations under the Nova Scotia Environment (NSE) Contaminated Sites Regulations.

The Monitoring Plan was designed to:

- ▶ Assess the seasonal variability of the groundwater quality at the site so that the onsite pathways can be closed under the NSE Contaminated Sites Regulations;
- ▶ Assess the seasonal variability of the surface water at the site and adjacent 3<sup>rd</sup> party properties;
- ▶ Fully map the drainage pathways from the source to the downgradient receiving habitats, evaluate connectivity of water features and establish surface water and sediment monitoring locations to delineate impacts;
- ▶ Identify a background wetland to evaluate surface water quality in this specific habitat;
- ▶ Assess the seasonal variability and transport mechanism between the surface water and potable water at select locations;
- ▶ Prepare a RAP to address potential for human harm or ecological harm that needs to be repaired, monitored or buffered in some capacity and fulfill the requirements of the NSE Contaminated Sites Regulations; and
- ▶ Complete NSE regulatory checklists

From our review of the data collected and field observations, the Site (2014 Lake George Road) is not impacting potable water quality at the neighbouring properties. There is no direct transport between shallow groundwater at on-site and off-site locations. Given our review of the surface water results, metals are either naturally occurring or not consistently detected, and do constitute an exceedance of the NSE Tier 1 EQS.

In terms of potable water, the one NSE Tier 1 EQS exceedance (lead at PW3) appears to be anomalous and not related to the Site. Natural groundwater quality in the area leads to elevated iron and manganese, and depressed pH; however, these are aesthetic concerns. The homeowners should continue regular monitoring of their drinking water supplies, as recommended by NSE, and treat as required for any objectionable odours or taste (i.e. iron, manganese).

In terms of shallow groundwater, although arsenic was elevated near the former dip tanks, the detections were sporadic in nature (both spatially and temporally). Although arsenic in the groundwater may be related to past fungicide use, in our opinion, it is not mobile and is limited to a small area of the Site. This also relates to potable water, as previous testing revealed the drilled potable water well associated with the site and connected to the dwelling at 2012 Lake George

Road had an elevated arsenic concentration during one sampling event. This elevated concentration may be related to integrity issues with the well, leading to transport from shallower water at the site to the deeper potable well. Further testing was not conducted. Given the uncertainty of the well ownership and the long term water quality, this potable water well should be decommissioned by a licensed well driller to prevent any consumption of untreated water, and to prevent potential impacts (arsenic) from being drawn into the deeper aquifer from pumping and regular use of the well. From previous testing of the adjacent dug well (PW2), there do not appear to be arsenic impacts to the drinking water; although, the homeowner should continue regular monitoring of the drinking water supply.

Various metals were present in surface water on and off Site, and in perched surface water within the wetlands at the Site, at concentrations that exceeded the NSE Tier 1 EQS and CCME FAL guidelines. In our opinion, these metals are related to natural conditions or other background processes, are anomalous (i.e. infrequently detected) and not the result of activities at the Site. This is supported by the natural affinity of these metals to bind with organic and particulate matter, the organic-rich environment of the drainage pathways, lack of connectivity and discernable trends in most of the metals. Further, there is no apparent on-site source (fungicide or soil) for most metals, and for those metals that could be related to past fungicide use (i.e. copper), other metals that would also be present (i.e. boron) are generally not elevated suggesting that there is no remnant source of fungicide at the site. Therefore, it is unlikely that past handling practices of fungicide onsite are currently affecting the environment.

Based on review of the current and past data, the metals present in the drainage pathway leading from wetland 2 (SW3, SW5 and SW6) are naturally occurring (aluminum, cadmium, chromium and iron) or sporadically detected (arsenic, lead, mercury and zinc) and there are no apparent trends or evidence of migration. However, there is a direct piped connection between wetland 2 and drainage infrastructure on Site, and there is evidence of metals adhered to sediment and particulate matter in the crock. Given that the Site will be re-vegetated and no longer used in a commercial capacity, the drainage crock should be drained, and the connection to wetland 2 removed.

The exposed areas of the Site should be stabilized to prevent erosion and potential transport of suspended solids in surface water. Appropriate stabilization methods would include surface treatments (such as mulch and vegetation) and shrub and trees.

## 1 INTRODUCTION

As a follow-up to our May 2016 Environmental Investigation at the above-noted property, Englobe Corp. (Englobe) has conducted a long term monitoring program so that a Remedial Action Plan (RAP) could be prepared to fulfill your obligations under the Nova Scotia Environment (NSE) Contaminated Sites Regulations.

This report provides the methodology and results achieved from the program.

## 2 BACKGROUND

The Town of Yarmouth purchased the former J. Ibbitson Sawmills Inc. lands in 2005. The sawmill reportedly operated between the early 1990s and 2005, when it was purchased and subsequently decommissioned. The land has been vacant since the purchase. In September 2015, the site was selected by the Town of Yarmouth for a reclamation project, and compost produced from a Town of Yarmouth composting facility (municipal green bin program) was transported to the site and spread across areas of the site.

Residents living adjacent to the site expressed concern with debris (plastics, metals, etc.) in the compost, and the effect the compost may have on the drinking water and surface water in the surrounding area. An initial groundwater and surface water study was carried out by Englobe in February 2016 to evaluate the potential for the compost to affect the environmental conditions of the surrounding surface water and groundwater resources. Those results were provided in our report dated February 23, 2016. The results of the investigation revealed no environmental concerns with the quality of the compost and its effect of the surrounding environment. The debris content in the compost, although not an environmental concern, affected the compost classification and its permissible uses, and ultimately the compost was removed from the property in September 2016.

However, review of the February 2016 results and the history of the site suggested that the elevated metals (and depressed pH) in surface water and groundwater near the site may be from historic activities at the site, most likely related to wood preservative use. Using the results of the background investigation and results from the February 2016 testing, an intrusive investigation program was designed to determine potential chemicals and sources present at the site, assess the spatial extents of the impacts and assess the human harm or ecological harm that may need to be repaired, monitored or buffered in some capacity.

Results from the May 2016 Investigative Report indicated there are impacts (metals) at the site in surface water, soil and groundwater that exceed the NSE Tier 1 Environmental Quality

Standards (EQS). The metals in soil at the site satisfied NSE Tier 2 Pathway Specific Standards (PSS) and no further work was recommended.

However, some of the impacts (surface water metals and pH) appear to originate at the site and migrate off-site over adjacent 3<sup>rd</sup> party properties. There was insufficient information to determine if the identified surface water impacts are the result of past activities at the site or the result of natural conditions at the site. Further, there was insufficient information to determine if the impacts are seasonal or steady state (i.e. constant) in nature and to confirm that impacts in the shallow and deeper groundwater are the result of surface water impacts. Therefore, Englobe recommended collecting additional data so that additional surface water and sediment delineation could be carried out to obtain a more thorough understanding of the extent of the metals impacts and seasonal data variability in the surface water, groundwater and potable water.

### 3 SCOPE OF WORK

The Long Term Monitoring was carried out by Englobe following the NSE *Contaminated Sites Regulations*. The Monitoring Plan was designed to:

- ▶ Assess the seasonal variability of the groundwater quality at the site so that the onsite pathways can be closed under the NSE Contaminated Sites Regulations;
- ▶ Assess the seasonal variability of the surface water at the site and adjacent 3<sup>rd</sup> party properties;
- ▶ Fully map the drainage pathways from the source to the downgradient receiving habitats, evaluate connectivity of water features and establish surface water and sediment monitoring locations to delineate impacts;
- ▶ Identify a background wetland to evaluate surface water quality in this specific habitat;
- ▶ Assess the seasonal variability and transport mechanism between the surface water and potable water at select locations;
- ▶ Prepare a RAP to address potential for human harm or ecological harm that needs to be repaired, monitored or buffered in some capacity and fulfill the requirements of the NSE Contaminated Sites Regulations; and
- ▶ Complete NSE regulatory checklists.

Since two rounds of analytical testing at the remainder of the homes did not reveal any drinking water concerns related to metals, no further testing at the dwellings other than the three included in the current program was recommended.

Soil environmental quality at the Site was fully investigated during the Environmental Investigation (reported in May 2016), and not included in the Scope of this work.

The potable water, groundwater, surface water and sediment samples collected were submitted to Maxxam Analytics Inc. laboratory (Maxxam) for chemical analysis of the samples including metals and general chemistry (water).

Details of the field program are provided in Section 5.

## 4 SITE DESCRIPTION

The current area of interest is identified as Civic No. 2014 Lake George Road (PID No. 90149808) in Lake George, Yarmouth County, Nova Scotia. A site location map is presented in Figure 4-1. A site plan is provided in Appendix 1 (Figure 1).

Figure 4-1. Site Location Map, Lake George Road, Lake George, NS.



Currently, the subject property is undeveloped and vacant. A sawmill, kiln and associated storage and treatment areas had been located on the western part of the site between the early-1990s and 2005. The eastern (tree-covered and undisturbed) portion of the property forms a portion of the Lake George Protected Water Area.

The only remaining evidence of the site's past use as a sawmill were four monitor wells (that were installed during an environmental site assessment of a former fungicide underground storage tank in 2005) and a crock that collected shallow surface water. Based on discussion with the local residents, a drain tile system had been installed at the site during former



operations, and drained surface water away from product laydown and spraying areas. A holding pond had been excavated in the northwest corner of the sawmill area to store water used in spraying activities. The discharge pipes of a drainage system were observed entering the crock that remains at the site.

The former sawmill area is a localized topographic high; topography slopes downward radially from the center of the disturbed area. Surface water drainage left the disturbed areas through localized drainage pathways and channels, some manmade and some naturally formed.

Access to the site is via Lake George Road from the west. Neighboring properties include undeveloped tree-covered lands to the north, east and south; Lake George is further to the east. Residential properties are located to the west along Lake George Road, including Civic No. 2012 Lake George Road which was the former residence of the sawmill owner, and is immediately adjacent to the site. There are four neighbouring adjacent land owners which surface water flows directly discharge onto (and through).

## 5 METHODOLOGY

### 5.1 Field Program

In July 2016, the surface water features (permanent channels, intermittent channels and wetlands) downgradient of SW1, SW2, SW6 and SW12 were assessed, mapped, and the discharge locations into Lake George and Killam Lake were identified. The surface water feature locations were acquired with a handheld GPS (sub-metre accuracy). At encountered wet areas, Englobe evaluated the three criteria, vegetation, hydrology and soil, which are necessary for wetland determinations and conducted field pickup of the wetland boundaries. Since there were no permanent channels observed, and no direct connectivity of the drainage features at the site to Lake George and Killam Lake, NSE determination of potential watercourses was not required.

Several potential background wetlands were identified from a desktop study, and field verification was conducted to verify the presence and wetland type. A background wetland similar to those at the site was identified and established as BACK2.

Four additional surface water sampling stations were established (SW13 to SW16) to further delineate and evaluate previously identified elevated metals concentrations, and evaluate background conditions. Sediment sampling locations were established at 6 of the surface water stations to assess streambed quality and equilibrium conditions between surface water and sediment.

Details of the surface water and sediment sample locations are summarized in Table 5-1 and presented on Figure 1.

Table 5-1. Surface Water and Sediment Sample Locations.

ID	LOCATION
SW1	Wetland discharge, at downgradient side of the culvert beneath Lake George Road, between 2087 and 2065 Lake George Road. Sediment collected.
SW2	Drainage channel that discharged from wetland that collected surface water from north and northeast portion of the disturbed area. Sediment collected.
SW3	Ditch downgradient of wetland and onsite water collection crock. Sediment collected.
SW4	Downgradient of SW1 (below fish pond at 2065 Lake George Road).
SW5	Pond discharge downgradient of SW3.
SW6	Downgradient of SW5, discharges to wetland and ultimately Killam Lake.
SW7	Downgradient from SW2 at the wetland edge.
SW8	Northeast corner of cleared area where flow discharges to wetland.
SW9	Discharge from infilled pond area.
SW10	Upgradient of SW8, adjacent to former dip tank location.
SW11	Upgradient of SW1 at discharge from wetland 1.
SW12	Wetland 2 discharge south of the site. Sediment collected.
SW13*	Downgradient of SW7 where wetland discharges to Lake George.
SW14*	Downgradient of SW4 at wetland edge. Sediment collected.
SW15*	Downgradient of SW12 at downgradient side of the culvert beneath quarry access road.
SW16*	Downgradient of SW14 and SW15 where wetland discharges to Killam Lake.
BACKGROUND	Surface flow to the north of the site, flowing northeast to southwest.
BACK2*	Watercourse to southeast of Lake George, flowing northwest. Sediment collected.
P1A	Piezometer in wetland 2
P1B	Piezometer in wetland 2
P2A	Piezometer in wetland 1
P2B	Piezometer in wetland 1
P3	Piezometer in wetland 1

Note: \* sampling station established in July 2016

## 5.2 Groundwater Sampling

During the four sampling events, Englobe personnel measured the field parameters in the 17 on-site monitor wells for static water level, conductivity, temperature, and pH. Static water levels were measured using a Solinst electronic water level tape. Temperature, pH and conductivity were measured using a YSI Multiparameter Probe field instrument. All equipment was decontaminated between sampling locations. Each monitor well is equipped with dedicated Waterra tubing and a locked stick-up protective cover; although due to turbidity issues, MW9 and MW10 are sampled with disposable bailers. The monitor wells were purged a minimum of three well volumes (using a 3-stage electric pump), and sampled for laboratory testing. The sampling locations are shown on the enclosed plan, Figure 1, Appendix 1.

In accordance with laboratory sampling protocols, groundwater samples were collected using 120mL plastic containers for dissolved metals (filtered and preserved with nitric acid in the field), 120mL plastic containers for total lead (preserved with nitric acid in the field), 200mL



plastic containers for general inorganic chemistry, 100mL amber glass bottles for ammonia and Total Organic Carbon (TOC) (preserved with sulfuric acid) and 100mL glass bottles (preserved with potassium dichromate) for mercury. Groundwater samples were immediately placed in an ice-packed cooler and transported to Maxxam for analysis as detailed above.

Due to turbidity issues, some samples were not filtered or preserved in the field; this was conducted by the laboratory.

During the July 2016 sampling event, MW-2S was dry.

### 5.3 Surface Water Sampling

During the four sampling events, Englobe personnel measured the field parameters (dissolved oxygen, conductivity, temperature, and pH) at the 23 surface water and piezometer locations prior to sampling. All equipment was decontaminated between sampling locations. The laboratory-supplied bottles were carefully immersed at the surface water stations to prevent mobilization of settled bed sediment, in some cases, surface water samples were collected with large bore syringes.

In accordance with laboratory sampling protocols, surface water samples were collected using 120mL plastic containers for total metals (preserved with nitric acid in the field), 200mL plastic containers for general inorganic chemistry, 100mL amber glass bottles for ammonia and TOC (preserved with sulfuric acid) and 100mL clear glass bottles for mercury (preserved with potassium dichromate). Water samples collected from SW1, SW2, SW3, SW14 and BACK2 also included dissolved metals in 120mL plastic containers (filtered and preserved with nitric acid in the field) and total suspended solids (TSS) in 500mL plastic containers. The surface water samples were immediately placed in an ice-packed cooler and transported to Maxxam for analysis as detailed above.

During the sampling events, select surface water locations were either dry, frozen or not accessible. Conditions are summarized in Table 5-2.

Table 5-2. Summary of Locations not sampled.

Mar 2016	July 2016	Oct 2016	Jan 2017	Apr 2017
Dry				
	SW1			
	SW6			
	SW8	SW8		
	SW10	SW10		
	SW11	SW12	Background	SW10
	SW12	Background		Background
	Background	P2A		
	P1B			

Mar 2016	July 2016	Oct 2016	Jan 2017	Apr 2017
	P2A P2B			
Frozen				
			SW12	
No Access				
	SW15 SW16			

## 5.4 Potable Water Sampling

During the four sampling events, Englobe personnel measured field parameters at two potable wells (one drilled (PW8) and one dug (PW3)). Due to site access restrictions and a well ownership dispute, one proposed potable water well (PW2A) was not assessed or sampled. Note, this potable well is a backup to the dug well that supplies the dwelling and is not used on a regular basis. This potable well was previously sampled by the occupant of the dwelling in January 2016 and by Englobe in March 2016.

Prior to measuring the field parameters, the water was allowed to run for 5 minutes (or more). The residents had also been running the water in advance of the sampling program. The sampling locations were prior to any water treatment systems, and at one dwelling (PW3), an additional sampling location was at the kitchen tap to evaluate the water treatment system. All equipment was decontaminated between sampling locations.

In accordance with laboratory sampling protocols, water samples were collected using 120mL plastic containers for metals (preserved with nitric acid in the field), 200mL plastic containers for general inorganic chemistry and 100mL amber glass bottles for ammonia and TOC (preserved with sulfuric acid). The potable water sample containers were immediately placed in ice-packed coolers and were transported to Maxxam for analysis as detailed above.

## 5.5 Sediment

During the July 2016 sampling event, sediment samples were collected from the water features at surface water stations SW1, SW2, SW3, SW14 and BACK2. The channel substrates were characterized, and samples carefully collected by hand with a stainless steel trowel and placed in laboratory-supplied 250ml glass containers. All equipment was decontaminated between sampling locations. The sediment sample containers were immediately placed in ice-packed coolers and were transported to Maxxam for metals analysis.

## 6 RESULTS

### 6.1 Hydrogeological Assessment

Groundwater levels obtained from each monitoring well are presented in Table 6-1.

Table 6-1. Groundwater Elevations at Civic No. 2014 Lake George Road, Lake George – 2016-2017

LOCATION	GROUND SURFACE ELEVATION (metres)	STATIC GROUNDWATER LEVEL (mbgs)					GROUNDWATER ELEVATION (metres)				
		Mar 2016	July 2016	Oct 2016	Jan 2017	Apr 2017	Mar 2016	July 2016	Oct 2016	Jan 2017	Apr 2017
MW-1S	55.68	0.77	1.53	2.35	0.90	1.10	54.91	54.15	53.33	54.78	54.58
MW-1D	55.54	0.93	1.92	2.88	2.18	1.36	54.61	53.62	52.66	53.36	54.18
MW-2S* (JWA MW1)	56.22	0.38	1.76	2.42	0.74	1.07	55.84	54.46	53.80	55.48	55.15
MW-2D	56.34	1.14	2.33	3.26	1.90	1.79	55.20	54.00	53.08	54.44	54.55
MW-3S	52.98	0.56	1.12	1.97	1.10	0.89	52.42	51.86	51.01	51.88	52.09
MW-3D	52.96	0.24	1.00	2.25	1.15	0.77	52.72	51.96	50.72	51.82	52.19
MW-4S	55.55	NA	2.225	2.90	1.45	1.64	NA	53.32	52.65	54.10	53.92
MW-4D	55.50	NA	2.39	3.98	2.63	1.80	NA	53.11	51.52	52.87	53.70
MW-5	54.71	1.82	2.12	2.84	1.94	2.10	52.89	52.59	51.87	52.77	52.61
MW-6S	55.40	0.31	2.22	2.93	0.94	1.15	55.09	53.18	52.47	54.46	54.26
MW-6D	55.44	1.13	2.12	3.10	1.71	1.50	54.31	53.32	52.34	53.73	53.94
MW-7	53.57	0.44	1.58	1.67	0.86	1.13	53.13	51.99	51.90	52.71	52.44
MW-8	55.12	1.28	2.14	2.96	1.58	1.99	53.84	52.97	52.15	53.54	53.13
MW-9	54.02	0.94	1.44	2.03	1.00	1.39	53.08	52.59	51.99	53.02	52.63
MW-10	55.04	0.20	1.06	1.45	0.37	0.70	54.84	53.98	53.59	54.67	54.34
MW-11* (JWA MW2)	55.77	0.49	1.96	2.50	0.69	1.45	55.28	53.81	53.27	55.08	54.32
MW-12* (JWA MW4)	56.39	1.85	1.99	3.11	0.35	1.08	54.54	54.40	53.28	56.04	55.31

Note: ground surface elevations acquired by Doucette and Acker and referenced Active Control Station #229012.

\*Shallow monitor wells that were installed by Jacques Whitford Associates (JWA) during an environmental site assessment of a former fungicide underground storage tank in 2005.

mbgs = metres below ground surface

The shallow groundwater is located generally within the till. In the nested monitor wells, deeper groundwater is at a similar elevation to the shallow monitor wells, suggesting the till may act as a confining layer, with slight upward vertical velocity. Groundwater levels at the site generally followed the cyclical groundwater pattern expected in Nova Scotia, with seasonal lows in October to November and seasonal highs in February to March. April to October 2016 was abnormally dry, with less than 500 mm of rain in southern NS. Groundwater flow was evaluated for each sampling event. During all events, groundwater generally flows radially from the

highest elevation at the site (MW-2 and MW-12). The groundwater contours are presented on Figure 2. Although groundwater levels approached the ground surface during periods of high groundwater, there was no evidence that groundwater was discharging to surface water features.

## 6.2 Hydraulic Assessment

As previously reported, there are five wetlands on site that were previously delineated. The wetlands observed in the northeast (wetland 1) and southwest (wetland 2) portions of the site were mainly shrub and treed swamps and extended off property. A similar, although much smaller, shrub swamp (wetland 3) was also observed at the headwaters for the unnamed creek flowing to wetland 4 (discussed below) and ultimately to Lake George (downgradient of wetland 1).

The swamp to the northeast (wetland 1) receives water from overland flow and discharges to the west via subsurface flow that turns into the watercourse at SW11 and to the east via subsurface flow to the unnamed watercourse (SW2) that flows to Lake George. Based on the topography of wetland 1, there are likely other discharges farther to the north that were not observed, as these are beyond the area of interest. Water at SW11 continues westward, beneath Lake George Road (via a culvert) and predominantly into a manmade pond behind the dwelling at 2065 Lake George Road. In high flow periods, there may be intermittent flow to the northwest (along the property boundary with 2087 Lake George Road); however, during the sampling events, this pathway was dry. The manmade pond discharges via a piped drain into a wetland downgradient of the pond. The wetland eventually discharges to another surface water drainage pathway (at SW4) before entering another large wetland (wetland 6).

The swamp to the southwest (wetland 2) receives water from overland flow and from a pipe connected to a drainage crock and ultimately discharges to Killam Lake to the west via ditching (SW3, SW5 and SW6) and wetlands. Wetland 2 also discharges to the southwest (SW12) beneath Lake George Road (via a culvert) beneath another access road (via a culvert near SW15) and eventually into a large wetland.

The wetlands located in the southeast (wetland 4) and south (wetland 5) portions of the site are shrub bogs. The bog (wetland 4) to the southeast receives water from wetland 1, wetland 3 and the unnamed watercourse (SW2 and SW7) and ultimately discharges to Lake George. The bog to the south (wetland 5) receives water from overland flow and discharges towards wetland 4 via a small watercourse.

During the current field program, a large off-site wetland (wetland 6) was partially delineated on the west side of Lake George Road, and is the downgradient receiving habitat for discharge leaving the west side of the site (drainage routes depicted by the following stations, in sequence: SW11→SW1→SW4→SW14; SW3→SW5→SW6; and SW12→SW15). This wetland is partially bounded by Killam Lake Drive, and a culvert extends beneath the road/driveway and

surface water drains from this culvert directly to Killam Lake. There are likely other surface water inputs and outlets associated with this wetland (farther north) that were not observed as these are beyond the area of interest.

The wetlands and drainage flow pathways are depicted on Figure 1. Given the discontinuous nature of the drainage features and the presence of wetlands (with no distinct channels), there are no natural fish habitats between Lake George and Killam Lake, and the site. We understand that fish were introduced into the manmade pond; however, they would not be naturally present in these drainage systems.

### 6.3 Analytical Results

Laboratory analytical results are presented in Tables 1 through 8, Appendix 2. Field parameter measurements are also summarized in Tables 1, 3 and 6. Laboratory Certificates of Analysis are presented in Appendix 3.

The groundwater analytical results are provided in comparison with the 2013 NSE Tier 1 EQS. Although the Site is commercial in nature, the surrounding properties are residential in nature and the groundwater and potable water samples have been compared to the more stringent NSE Tier 1 EQS for potable water, residential land use and coarse grained soils. In terms of pathways that are specific to groundwater discharging to surface water, since surface water has been assessed directly, the groundwater has not been compared to the NSE Tier 2 PSS for groundwater >10m from surface water. For evaluation purposes, the 2017 Health Canada Drinking Water Quality (HCDWQ) Guidelines have also been presented.

The surface water samples have been compared to the NSE Tier 1 EQS for freshwater surface water. For evaluation purposes, the 1999 (with 2015 updates) Canadian Council of Ministers of Environment (CCME) Freshwater Aquatic Life (FAL) Guidelines have also been presented.

Sediment samples have been compared to the NSE Tier 1 EQS for freshwater sediment.

### 6.4 Groundwater

Laboratory analytical results are summarized in Tables 1 and 2, Appendix 2.

During all sampling events (March 2016 to April 2017), the only NSE Tier 1 EQS exceedances that were identified are cobalt and arsenic. Historically, boron has exceeded the NSE Tier 1 EQS at one location (MW2S); however, this result was never repeated. The cobalt and arsenic exceedance locations and events are summarized in Table 6-2.

Table 6-2. Groundwater NSE Tier 1 EQS Exceedances.

DATE	ARSENIC	COBALT
March 2016	MW2D, MW6S	MW1S, MW3S, MW4S, MW4D, MW6S, MW9, MW10, MW12

DATE	ARSENIC	COBALT
July 2016	MW5, MW12	MW1S, MW9, MW10, MW11, MW12
November 2016	MW5	MW1S, MW9, MW10, MW12
January 2017	MW11	MW1S, MW4S, MW6S, MW10, MW12
April 2017	MW5	MW1S, MW4S, MW6S

The cobalt NSE Tier 1 EQS is based on discharge of groundwater within 10m of a surface water body pathway. This pathway is independently assessed at the site and there is no potable water pathway guideline.

As an assessment tool, total lead was analyzed in groundwater at the wells, in addition to the dissolved lead that is part of the metals analytical package. Note, the standard groundwater sampling methodology for lead is dissolved (i.e. filtered), so comparison of total lead concentrations to guidelines is an overestimation of potential risk. The total lead analysis was used to assess the transport mechanism of metals at the site. All dissolved lead results satisfied the NSE Tier 1 EQS. Total lead concentrations were elevated over the NSE Tier 1 EQS (10 µg/L) at all the shallow monitor wells during some of the sampling events. Total lead concentrations at the deep monitor wells were generally less than the NSE Tier 1 EQS, except at MW2D and MW6D. At MW2S and MW6S, the lead concentrations were at least a magnitude of order higher than in MW2D and MW6D.

As noted above, the groundwater analytical data was compared to the HCDWQ guidelines for evaluation purposes. Generally in the groundwater, the pH was slightly depressed and total dissolved solids (TDS) and colour (assigned a numerical unit) were frequently elevated. The elevated TDS and colour are related to the elevated turbidity. Other than arsenic (discussed above), the only metals that exceed the HCDWQ guidelines are iron and manganese; these guidelines are aesthetic objectives (i.e. not health based) and there are no corresponding Tier 1 EQS for either. Further, there is no HCDWQ guideline for cobalt.

## 6.5 Surface Water

Laboratory analytical results are provided in Tables 3, 4 and 5, Appendix 2.

During all sampling events (March 2016 to April 2017), the following NSE Tier 1 EQS exceedances were identified:

- ▶ Aluminum concentrations at all locations, during all sampling events;
- ▶ Arsenic concentrations at SW3 (July 2016), SW4 (October 2016), SW9 (most events), BACK2 (July 2016), and piezometers P1A (March and July 2016, and April 2017), P1B (November 2016), P2B (November 2016) and P3 (November 2016 and April 2017);
- ▶ Cadmium concentrations at all locations during most sampling events;

- ▶ Copper concentrations at all locations except SW10 and Background (both of which were mostly dry and had no samples collected) during most sampling events;
- ▶ Iron concentrations at all locations except Background (which was mostly dry and had no sample collected) during most sampling events;
- ▶ Lead concentrations at all locations, except SW6, SW15 and Background (which were mostly dry and had no sample collected) during most sampling events;
- ▶ Manganese concentrations at SW4 (October 2016), SW9 (March and July 2016, and April 2017) and piezometer P1A (July 2016)
- ▶ Mercury concentrations at SW1 (all events), SW3 (July 2016 and April 2017), SW9 (March and October 2016, and April 2017), SW11 (November 2016, January and April 2017), SW12 (April 2017), SW16 (April 2017), and piezometers P1A (March and July 2016 and April 2017), P1B (all events), P2A (April 2017), P2B (November 2016 and April 2017) and P3 (July and November 2016, and January and April 2017);
- ▶ Nickel concentrations at SW9 (March 2016) and piezometers P1A (July 2016), P1B (November 2016) and P3 (July 2016);
- ▶ Selenium concentrations at SW9 (March 2016 and April 2017) and P1B (March and November 2016) and P3 (July 2016 and April 2017);
- ▶ Silver concentrations at SW9 (March 2016 and April 2017), P1A (July and November 2016), P1B (March and November 2016), P2B (November 2016) and P3 (July and April 2016);
- ▶ Vanadium concentrations at P1A (March and July 2016), P1B (March and November 2016), P2B (November 2016) and P3 (July 2016 and April 2017);
- ▶ Zinc concentrations at SW3 (November 2016 and January and April 2017), SW9 (March 2016 and April 2017) and piezometers P1A (March, July and November 2016, and April 2017) and P1B (November 2016), P2B (November 2016) and P3 (July 2016 and April 2017).

No other metals exceeded the respective NSE Tier 1 EQS.

As an assessment tool, dissolved metals were analyzed in surface water at select locations to evaluate the effect of particulate matter in the surface water. At most locations, there was not a significant difference in concentrations of the dissolved and total metals analyses. At SW3 (all events), SW14 (July) and BACK2 (July) the elevated total metal concentrations (particularly aluminum and iron) appear to be influenced by particulate matter. Turbidity and total suspended solids (TSS) concentrations in these samples was elevated, and in general, total organic carbon (TOC) was also high in all samples.

As noted above, the surface water analytical data was compared to the CCME FAL guidelines for evaluation purposes. In general, pH at most locations was depressed below the CCME FAL range of 6.5 to 9.0; there is no NSE Tier 1 EQS for pH.



Nitrite exceeded the CCME FAL at P1B during one sampling event; this result was not repeated and appears to be an anomaly; there is no NSE Tier 1 EQS for nitrite.

For most metals, usually when the NSE Tier 1 EQS was exceeded, the corresponding CCME FAL was also exceeded; although in some instances for CCME FAL guidelines based on hardness (such as cadmium, copper, lead and nickel) the reported concentrations do not always exceed the CCME FAL.

## 6.6 Potable Water

Laboratory analytical results are summarized in Tables 6 and 7, Appendix 2.

During all sampling events (March 2016 to April 2017), there are no NSE Tier 1 EQS exceedances. Historically, lead exceeded the NSE Tier 1 EQS at one location (PW3); however, this result was never repeated.

As noted above, the groundwater analytical data was compared to the HCDWQ guidelines for evaluation purposes. Generally in the potable water, the pH was slightly depressed and iron and manganese concentrations were frequently elevated. The elevated iron and manganese concentrations are likely related to turbidity (i.e. naturally occurring fine-grained particulate matter). The HCDWQ guidelines for iron and manganese are aesthetic objectives (i.e. not health based). There is no HCDWQ guideline for pH.

## 6.7 Sediment

Laboratory analytical results are summarized in Table 8, Appendix 2.

At the sampling locations, the substrate conditions generally consisted of organic matter or fine-grained soils, rather than coarse-grained soils. During the July 2016 sampling event, arsenic exceeded the NSE Tier 1 EQS at SW14 and BACK2.

# 7 IMPLICATIONS OF RESULTS

## 7.1 Groundwater

In groundwater, there are no NSE Tier 1 EQS for general chemistry parameters and since surface water has been assessed directly, the groundwater has not been compared to the NSE Tier 2 PSS for groundwater >10m from surface water. There are no NSE Tier 1 exceedances for general chemistry parameters.

As noted in Section 6, groundwater results were compared to the HCDWQ guidelines for evaluation purposes. At all locations, during most events, the pH was depressed below the HCDWQ guideline range. Colour was elevated in most wells during most events, TDS was occasionally elevated in three monitor wells and nitrite was elevated once in one monitor well.



pH is expected to occur naturally in the ranges reported, except for MW4S where pH was slightly more depressed than expected. The pH at MW4S may be related remnant saw dust at the site.

In groundwater, the NSE Tier 1 EQS for metals are generally based on the HCDWQ guidelines for health based parameters. In cases where the HCDWQ guideline is an operational guideline or an aesthetic objective, there is usually no corresponding NSE Tier 1 EQS.

For cobalt, the NSE Tier 1 EQS is based on groundwater discharging to freshwater environments, which, as previously discussed, has been addressed by directly evaluating the surface water quality. For several other metals parameters (beryllium, molybdenum, nickel, silver, thallium and vanadium), the NSE Tier 1 EQS is based on drinking water standards from Ontario. In the recent (2016 and 2017) sampling program, the only NSE Tier 1 EQS exceedances are cobalt (in most shallow monitor wells and less commonly in the deep monitor wells) and arsenic in five monitor wells. As discussed, the cobalt criteria is based on protection of surface water, and there are few cobalt exceedances in the surface water tested at the site (discussed below), thus indicating that although cobalt is present in the groundwater, it is not discharging to surface water.

The arsenic detections in groundwater are sporadic, and only occurred more than once in one location (MW5) at concentrations that only marginally exceed the NSE Tier 1 EQS (i.e. 11, 12 and 13 µg/L compared to the NSE Tier 1 EQS of 10 µg/L). Except for one potable water well immediately adjacent to the site (that is not regularly used), all other potable water wells that were tested through this program and in the initial February 2016 testing had either no detections or low concentrations of arsenic (i.e.: within criteria). Arsenic related to groundwater discharging to surface water (particularly downgradient of MW5) is independently assessed and discussed below.

Historically, boron was elevated (over the criteria) at one location (MW2S) although this elevated result was not repeated during the current testing.

From review of products known to be on site (sapstain and PQ-8), the active metals components include copper (as listed on the MSDS sheets); the inert materials are not listed, but both products are identified as corrosive (i.e. low pH). Boron is likely one of the inert metals, as inferred from review of testing of the dip tank product by NSE in 2005 (July 18) in which boron was the metal with the highest concentration; copper was also detected.

It appears that NSE had the dip tank sample independently analyzed by two laboratories, and although arsenic was detected in one sample, it was not in the second sample. Lead was not identified in either dip tank sample. The dip tank material was reported to have a pH of more than 8. From our review of the current analytical data, copper is generally not elevated in the groundwater and boron is generally only detected (at compliant concentrations) at monitor wells MW2S/2D (near former dip tank). This suggests that if fungicide handling practices were

poor, or if a release of the dip tank products occurred following decommissioning of the sawmill, that these products have not migrated (by the compliant boron at MW2S/2D and no other locations) and are in a stable condition. Although the fungicides are identified as corrosive, given the length of time since the products were onsite, that the 2015 NSE dip tank testing indicated a pH of 8, and lack of other metals (i.e. copper and boron), the depressed pH at the site is likely not related to remnant chemicals or past chemical releases.

As noted in Section 6, groundwater results were compared to the HCDWQ guidelines for evaluation purposes. Manganese concentrations were elevated in all monitor wells, and iron concentrations were elevated in approximately half of the monitor wells; the detected concentrations of these parameters are similar to those expected from natural groundwater in the surficial geology and bedrock geology of Lake George. This is further supported by the low (or no) detections of iron in the dip tank sampling by NSE in 2005.

Further, as discussed in Section 6, total and dissolved lead was analyzed for evaluation purposes to assess the transport mechanism of metals at the site. Based on the results, lead (and likely other metals) is associated with the fine sediment present in the shallow groundwater. Based on the lead testing and groundwater elevations, lead in shallow groundwater is not migrating downwards into deeper aquifers. Further, based on the magnitude of the total lead concentrations in the monitor wells (as high as 600 µg/L) and in surface water (as high as 13 µg/L) at the site, shallow groundwater is not directly discharging to surface water. The lead being related to natural geochemistry is further supported by the low (or no) detections of lead in the dip tank sampling by NSE in 2005.

As previously mentioned, the shallow groundwater at the site is located generally within the till. In the nested monitor wells, deeper groundwater is at a similar elevation to the shallow monitor wells, suggesting the till may act as a confining layer, with slight upward vertical velocity. The groundwater elevations noted in the monitor wells during the program are generally much shallower than the groundwater supplying the nearby potable water wells. This, in conjunction with evaluation of the chemical testing, indicates that there is no direct transport between shallow groundwater in on-site and off-site locations, with the exception of PW2A (discussed below).

## 7.2 Surface Water

In surface water, the NSE Tier 1 EQS for metals are generally based on the CCME FAL guidelines, and where pH (aluminum) or hardness (cadmium, copper, lead and nickel) is used to calculate the guideline, the lowest calculated value was chosen for the Tier 1 EQS. Therefore, it is appropriate to use the CCME FAL where it differs from the NSE Tier 1 EQS.

### 7.2.1 General Chemistry

In surface water, there are no NSE Tier 1 EQS for general chemistry parameters. As noted in Section 6, surface water results were compared to the CCME FAL guidelines for evaluation purposes. At all locations, during most events, the pH was depressed below the CCME FAL guideline range. Given our review of the groundwater quality at the site, in our opinion the depressed pH in surface water is naturally occurring, and in general this has been well documented (by independent studies) through southwest Nova Scotia and is also common in wetland habitats where organics are naturally decomposing and result in acidic conditions.

### 7.2.2 Aluminum and Iron

Aluminum and iron at almost all locations, for almost all events, exceeded the NSE Tier 1 EQS and the CCME FAL. In areas where organic matter or suspended solids were noted in the surface water (or inferred by elevated TOC, TSS or turbidity concentrations), the concentrations for aluminum and iron were higher, and evaluation of total and dissolved concentrations of these metals (at select locations), confirms that suspended organic matter and sediment contribute a large component of the total metals concentration where these conditions were noted. Aluminum and iron are naturally elevated in soil and organic matter and are not the result of activities at the site.

### 7.2.3 Arsenic

Elevated concentrations of arsenic were detected sporadically in surface water flowing from the site; once at SW3 (and not present downgradient at SW5), once at SW4 (and not present upgradient at SW1 or downgradient at SW14) and once in the background sample (BACK2). TOC, TSS and/or turbidity were elevated in these samples and the dissolved arsenic was compliant with the criteria (at SW3 and BACK2), confirming that the arsenic in these events is adhered to soil or organic matter and only occasionally present. Arsenic was present most often at SW9; although given the results from SW1 and SW11, arsenic is not migrating from SW9. Based on field observations, the arsenic at SW9 is related to suspended organic matter that is inadvertently disturbed when the sample is collected. Given our review of the results, arsenic was not consistently detected, and does constitute an exceedance of the NSE Tier 1 EQS.

### 7.2.4 Cadmium

Cadmium concentrations are elevated over the NSE Tier 1 EQS at all locations (including the background) for all except two sampling events (SW6; Oct 2016 and SW13; Jan 2017). The NSE Tier 1 EQS for cadmium is based on the lowest CCME value from the 2007 version of the guideline. Further the CCME guideline was revised in 2014. The CCME FAL is based on hardness and the value of the guideline increases or decreases based on the magnitude of the

hardness. Cadmium is naturally present in the environment, and tends to bond with organic matter and clay/silt particulate.

Review of the cadmium data compared to the CCME FAL reveal that at most locations cadmium concentrations exceed the CCME FAL less often than they exceed the NSE Tier 1 EQS. In drainage pathways SW3, SW5 and SW6, cadmium exceeds the CCME FAL at SW3 (February 2016, July and April 2017) and is compliant in downgradient samples (SW5 and SW6). In drainage pathway SW12 and SW15, cadmium is sporadically elevated. In the drainage pathway including SW11, SW1, SW4 and SW14, cadmium concentrations generally decrease from SW11 to SW14. In the drainage pathway including SW8, SW2, SW7 and SW13 cadmium concentrations show no apparent trend. The stream bed conditions in these drainage pathways are organic matter. In our opinion, the cadmium detected is natural in origin and not the result of activities at the site. This is supported by the presence of cadmium in organic matter dominated drainage conditions with no suspected on-site source (dip tank testing by NSE in 2005 and in soil from the 2016 Environmental Investigation) revealed no detectable cadmium and generally similar cadmium concentrations in the background location (BACK 2).

#### 7.2.5 Chromium and Cobalt

Other than at SW9, chromium concentrations were only elevated in one sample (SW2) during one event; this result is considered anomalous. As previously discussed, elevated metals at SW9 are related to suspended organic matter that was inadvertently disturbed when the sample was collected.

Other than at SW9, cobalt concentrations were only elevated in one sample (SW4) during one event; this result is considered anomalous, and confirms that groundwater with elevated cobalt concentrations is not discharging to surface water. As previously discussed, elevated metals at SW9 are related to suspended organic matter that was inadvertently disturbed when the sample was collected.

#### 7.2.6 Copper

Copper concentrations are elevated over the NSE Tier 1 EQS at most locations (including the background) at least once during the sampling program. The NSE Tier 1 EQS is based on the lowest CCME value. The CCME FAL is based on hardness and the value of the guideline increases or decreases based on the magnitude of the hardness; since there is no buffering capacity of the water (i.e. the hardness is low), the CCME FAL guideline is usually calculated to be 2.0 µg/L.

Copper is naturally present in the environment, and tends to bond with organic matter and clay/silt particulate which reduces its toxicity since it is the soluble form of copper that affects aquatic life. The toxicity of copper in natural waters containing organic matter is less than that

predicted from laboratory tests and that guidelines should be adjusted upwards for surface waters with TOC concentrations significantly above 2 to 3 mg/L (CCREM 1987).

The copper exceedances detected are irregular with no discernable trend; in some cases upgradient concentrations are less (or even non-detect) than downgradient concentrations such as at SW1, SW4 and SW11 (in October/November and January). Where total copper concentrations are elevated, TOC is also generally greater than 10 mg/L, in some cases much higher, and where both dissolved and total copper were evaluated, the dissolved copper concentration is lower.

This confirms that suspended organic matter and sediment contribute a large component of the total metals concentration where these conditions were noted. Although the fungicide used at the site (PQ-8) contained copper, the fungicide also contained higher concentrations of boron. Given that copper is elevated in surface water, and boron, is generally not elevated, it is unlikely that past handling practices of fungicide onsite are affecting the environment, more than 10 years since last being present onsite. In our opinion, the copper concentrations detected are related to natural conditions, and not the result of activities at the site.

#### 7.2.7 **Lead**

Lead concentrations are elevated over the NSE Tier 1 EQS at most locations (including the background) at least once during the sampling program. The NSE Tier 1 EQS is based on the lowest CCME value. The CCME FAL is based on hardness and the value of the guideline increases or decreases based on the magnitude of the hardness. Since the hardness is generally low, the CCME FAL is usually the same as the NSE Tier 1 EQS.

As discussed above, there is elevated lead in the shallow groundwater, associated with suspended particulate matter in the groundwater. Lead, similar to other metals, is highly affiliated with organic matter and sediment in the water column. The lead exceedances detected are irregular with no discernable trend, and in some cases upgradient concentrations are less (or even non-detect) than downgradient concentrations such as at SW1, SW4 and SW11 (in October/November). Where total lead concentrations are elevated TOC is also generally greater than 10 mg/L. In our opinion, the total lead detected in the surface water is related to natural geochemistry of the soil in the area, supported by the total lead concentrations in the shallow groundwater at the monitor wells and lack of lead present the dip tank sampling by NSE in 2005.

#### 7.2.8 **Mercury**

Mercury concentrations are elevated over the NSE Tier 1 EQS (and CCME FAL) at only six locations. Mercury is naturally present in the environment and from anthropogenic sources such as wood and fossil fuel burning, and tends to bind with organic matter. At SW11, mercury concentrations were elevated in November (2016), January and April (2017), although at

downgradient location SW1, the mercury concentrations were sometimes higher (and elevated more often). Mercury was elevated at SW3 (July (2016) and April (2017)), although none was detected at downgradient SW5. Mercury was elevated at SW9 during three events (March and October (2016) and April (2017)).

At SW12 and SW16, mercury was only detected during one event (April, 2017). As previously discussed, elevated metals at SW9 are related to suspended organic matter that was inadvertently disturbed when the sample was collected. Given the sporadic detections, and the lack of connectivity between upgradient and downgradient locations (such as at SW16 and not present in any direct upgradient locations SW4, SW6, SW14, or SW15), in our opinion the mercury detected in the surface water is related to background processes in the area (such as automobile exhaust) given that most detections were adjacent to the road.

### 7.2.9 **Manganese, Vanadium and Zinc**

Manganese and vanadium concentrations exceeded the NSE Tier 1 EQS at SW4 (October (2016)), but were not present in the upgradient sample locations (SW1 or SW11). The vanadium concentration also exceeded the NSE Tier 1 EQS at BACK2 (July). Zinc concentrations at SW3 (November (2016), January and April (2017) exceeded the NSE Tier 1 EQS (and CCME FAL) although zinc was not elevated at any other location. Given the lack of connectivity of results between upgradient and downgradient locations, and the sporadic nature of the elevated parameters, in our opinion these are anomalous and not related to activities at the site.

### 7.2.10 **Wetland Locations**

At SW9 and the wetland piezometers (P1A, P1B, P2A, P2B and P3), many metals parameters had elevated concentrations (such as aluminum, arsenic, cadmium, chromium, cobalt, copper, iron, lead, manganese, nickel, selenium, silver, vanadium and zinc) that exceeded the NSE Tier 1 EQS. In our opinion, the elevated metals detected at these locations is related to the elevated organics in the water samples (TOC and turbidity). These metals tend to bind to organic matter and, and when TOC and turbidity concentrations are lower, the metals concentrations are also lower. Although water drainage patterns at the site discharge to these wetlands, there is generally a lack of connectivity between the metals concentrations in the piezometers and the flowing surface water (such as between P1B and SW12, P1A and SW3, P2B and SW11, and P3 and SW2). Surface water at wetland 2 (from the crock discharge) would be expected to have the greatest concentration of metals since there is a direct connection between drainage infrastructure at the site and the wetland.

## 7.3 **Potable Water**

At PW3, there were no NSE Tier 1 EQS exceedances identified in sampling between March 2016 and April 2017. Sampling at PW8 was recommended because the lead concentration

exceeded the NSE Tier 1 EQS in February 2016 testing of the potable water. The initial sample was collected from the exterior hose bib since the home owner wasn't home at the time. Between February and March 2016, a water treatment system (for lead) was installed, and the sampling location was moved to the water distribution inlet in the basement (i.e. before the treatment system). A second sampling location was added at the kitchen sink (i.e. after the treatment system), to confirm that the treatment system was removing lead that may be present in the potable water.

From our review of the results, lead (as well as copper, nickel and zinc) concentrations that were identified in the February 2016 sampling event are much lower at the inlet sample location. Although lead was detected in some inlet samples, it was at concentrations much lower (i.e. an order of magnitude) than detected in February. Lead was only detected in one kitchen sink sample, again at a concentration that was an order of magnitude lower (and compliant) than in the corresponding inlet sample.

From our review of the data, it appears that the elevated lead concentration (February 2016) was likely due to the plumbing fixture associated with the exterior hose bib and not related to surface water (at SW1). As noted in Section 6, potable water results were compared to the HCDWQ guidelines for evaluation purposes. Iron and manganese concentrations were noted to be elevated over the HCDWQ guidelines in some samples, and pH was noted to be depressed below the HCDWQ guidelines in all samples. The detected concentrations of these parameters are similar to those expected from natural groundwater in the geology of Lake George. These HCDWQ guidelines are not health based. Rather, they are related to taste (iron and manganese), staining of plumbing and laundry fixtures (iron and manganese) and treatment effectiveness, corrosion and leaching from distribution systems and plumbing components (pH).

At PW8, there were no NSE Tier 1 EQS exceedances identified in any of the sampling events. Sampling at PW8 was recommended because the lead concentration was close to the NSE Tier 1 EQS in February 2016 testing of the potable water. Lead was not detected in any of the subsequent samples collected. As noted in Section 6, potable water results were compared to the HCDWQ guidelines for evaluation purposes. Iron and manganese concentrations were noted to be elevated over the HCDWQ guidelines in some samples, and pH was noted to be depressed below the HCDWQ guideline in all samples. The detected concentrations of these parameters are similar to those expected from natural groundwater in the geology of Lake George. These HCDWQ guidelines are not health based, rather, they are related to taste (iron and manganese), staining of plumbing and laundry fixtures (iron and manganese) and treatment effectiveness, corrosion and leaching from distribution systems and plumbing components (pH).

The potable well at PW2A was not sampled during this program. Previously it has been sampled by the occupant of the dwelling (January 2016) and Englobe (March 2016), both times



from fixtures within the dwelling. Arsenic was detected (at a concentration that exceeded the NSE Tier 1 EQS) during the March 2016, and we recommended further testing. However, due to access restrictions and a dispute over the ownership/location of the well, additional sampling was not conducted. From the well log, this drilled potable well has soil deposits to 4.5m (15 feet) and was cased to 7.9m (26 feet), although from our field inspection, the integrity of the well could not be confirmed, and we noted that a plastic pail was placed over the well head, suggesting potential surface water infiltration issues. We also understand that the well is not regularly used; it is a backup to the adjacent dug well (PW2) which had compliant metals results during testing. Since testing to verify the long term chemical quality of the well water was not possible, we recommended that the well be decommissioned since the arsenic concentrations could not be fully evaluated. It is likely that the elevated arsenic is from the site; however, we suspect that the transport route is from surface (or shallow groundwater) activities and well integrity issues, since arsenic concentrations were only sporadically elevated in other shallow groundwater at the site.

From our review of the potable water data, the site (2014 Lake George Road) is not impacting potable water quality at the neighbouring properties. The only NSE *Contaminated Sites Regulation* exceedance was lead at one home, during one event, which was never repeated. Natural groundwater quality in the area leads to elevated iron and manganese, and depressed pH; however, these are aesthetic concerns. The homeowners should continue regular monitoring of their drinking water supplies, as recommended by NSE, and treat as required for any objectionable odours or taste (i.e. iron, manganese).

## 8 SUMMARY AND CONCLUSIONS

From our review of the data collected and field observations, the site (2014 Lake George Road) is not impacting potable water quality at the neighbouring properties. There is no direct transport between shallow groundwater at on-site and off-site locations. Given our review of the surface water results, metals are either naturally occurring or not consistently detected, and do constitute an exceedance of the NSE Tier 1 EQS.

### 8.1 Potable Water

In terms of potable water, the one NSE Tier 1 EQS exceedance (lead at PW3) appears to be anomalous and not related to the site. Natural groundwater quality in the area leads to elevated iron and manganese, and depressed pH; however, these are aesthetic concerns. The homeowners should continue regular monitoring of their drinking water supplies, as recommended by NSE, and treat as required for any objectionable odours or taste (i.e. iron, manganese).



## 8.2 Groundwater

In terms of shallow groundwater, although arsenic was elevated near the former dip tanks, the detections were sporadic in nature (both spatially and temporally). Although arsenic in the groundwater may be related to past fungicide use, in our opinion, it is not mobile and is limited to a small area of the site. This also relates to potable water, as previous testing revealed the drilled potable water well associated with the site and connected to the dwelling at 2012 Lake George Road had an elevated arsenic concentration during one sampling event. This elevated concentration may be related to integrity issues with the well, leading to transport from shallower water at the site to the deeper potable well. Further testing was not conducted. Given the uncertainty of the well ownership and the long term water quality, this potable water well should be decommissioned by a licensed well driller to prevent any consumption of untreated water, and to prevent potential impacts (arsenic) from being drawn into the deeper aquifer from pumping and regular use of the well. From previous testing of the adjacent dug well (PW2), there do not appear to be arsenic impacts to the drinking water; although, the homeowner should continue regular monitoring of the drinking water supply.

## 8.3 Surface water

Various metals were present in surface water on and off site, and in perched surface water within the wetlands at the site, at concentrations that exceeded the NSE Tier 1 EQS and CCME FAL guidelines. In our opinion, these metals are related to natural conditions or other background processes, are anomalous (i.e. infrequently detected) and not the result of activities at the site. This is supported by the natural affinity of these metals to bind with organic and particulate matter, the organic-rich environment of the drainage pathways, lack of connectivity and discernable trends in most of the metals. Further, there is no apparent on-site source (fungicide or soil) for most metals, and for those metals that could be related to past fungicide use (i.e. copper), other metals that would also be present (i.e. boron) are generally not elevated suggesting that there is no remnant source of fungicide at the site. Therefore, it is unlikely that past handling practices of fungicide onsite are currently affecting the environment.

Based on review of the current and past data, the metals present in the drainage pathway leading from wetland 2 (SW3, SW5 and SW6) are naturally occurring (aluminum, cadmium, chromium and iron) or sporadically detected (arsenic, lead, mercury and zinc) and there are no apparent trends or evidence of migration. However, there is a direct piped connection between wetland 2 and drainage infrastructure on site, and there is evidence of metals adhered to sediment and particulate matter in the crock. Given that the site will be re-vegetated and no longer used in a commercial capacity, the drainage crock should be drained, and the connection to wetland 2 removed.

#### 8.4 General

The exposed areas of the Site should be stabilized to prevent erosion and potential transport of suspended solids in surface water. Appropriate stabilization methods would include surface treatments (such as mulch and vegetation) and shrub and trees.

## 9 REPORT USE AND CONDITIONS

This report has been prepared by Englobe Corp. for the exclusive use of the Town of Yarmouth. Any use that a third party makes of this report, or any reliance on or decisions made based on it, are the sole responsibility of the third party. Englobe accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.

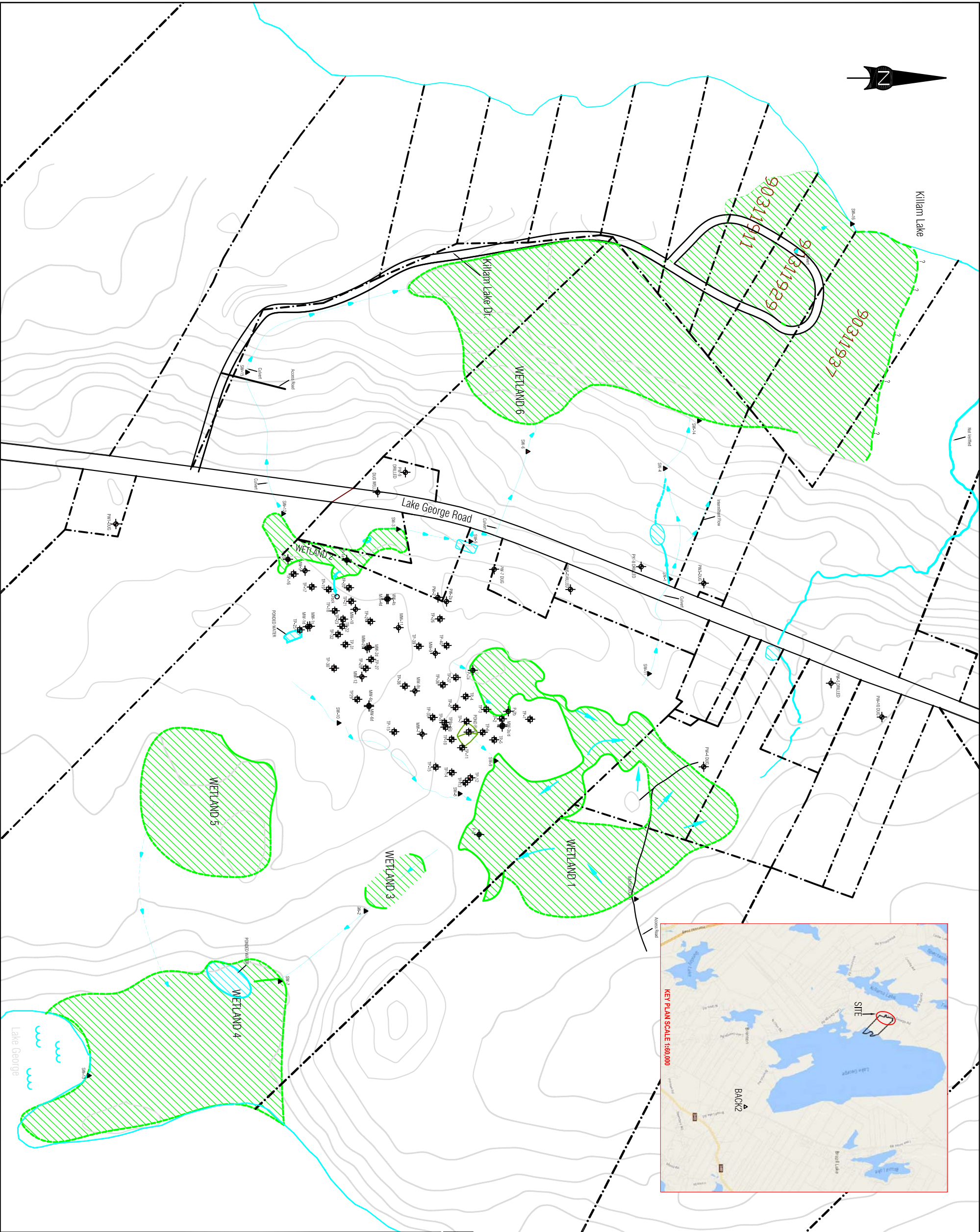
The statements and conclusions presented in this report are professional opinions based upon visual observations made during the scope of work identified herein, and is based solely upon the condition of the property on the dates of such inspection, supplemented by information obtained and described herein.

Environmental conditions are dynamic in nature and changing circumstances in the environment and in the use of the property can alter radically the conclusions and information contained herein.

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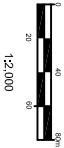
## Appendix 1    Site Plans



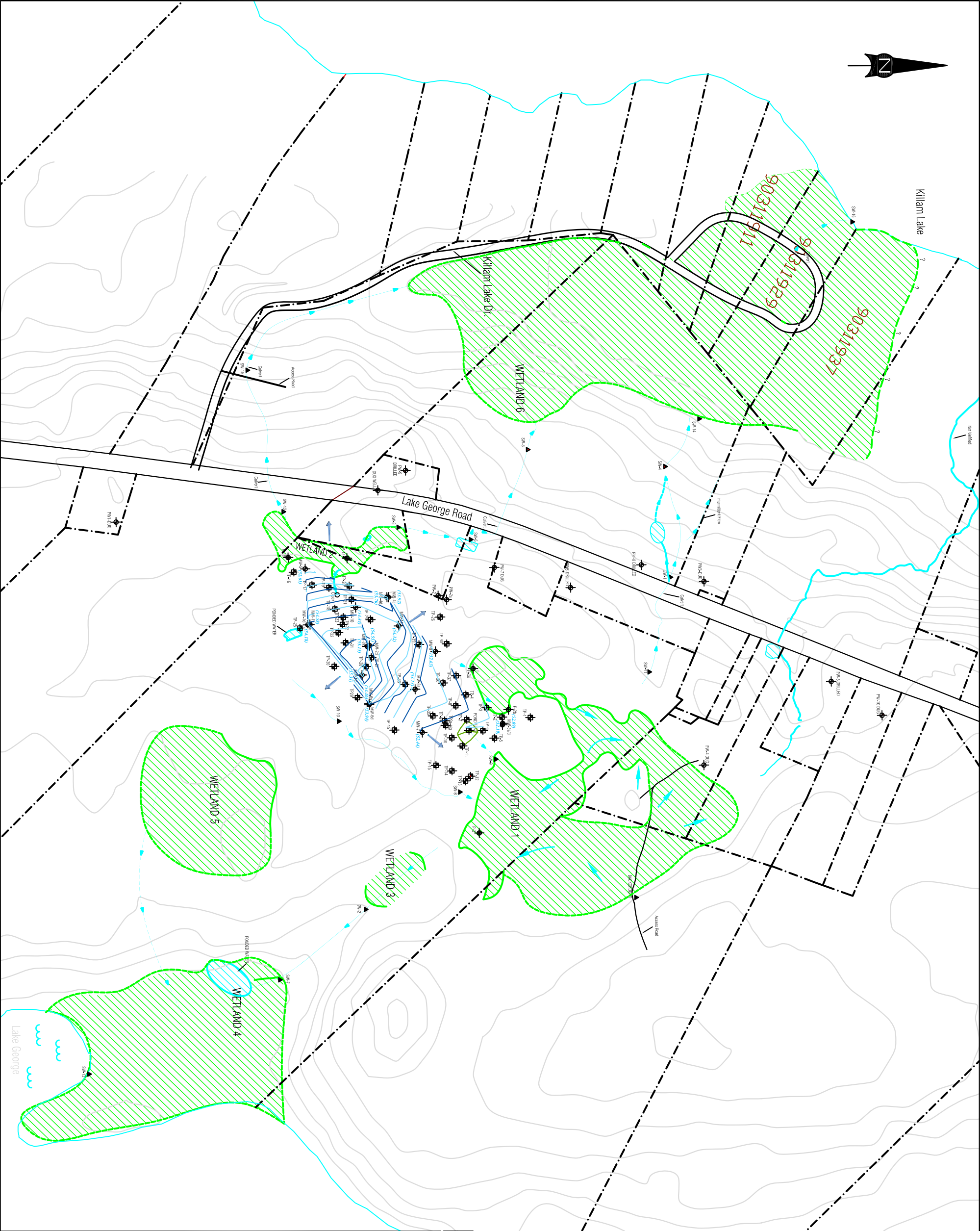
- LEGEND**
- Englobe Delimited Wetland
  - Property Line
  - Test Pit Location
  - Monitoring Well / Piezometer Well Location
  - Piezometer Point
  - Surface Water Sample Location
  - Surface Water Path
  - Intermittent Surface Water Path
  - Surface Water Flow Direction

A	PRELIMINARY	2017-07-21	D.W.	A.C.	A.C.
No.	Version	Date	By	Check	Appr.

Seal

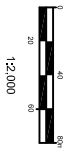






- LEGEND**
- Englobe Defined Wetland
  - Property Line
  - Test Pit Location
  - Monitoring Well / Piezometer Well Location
  - Piezometer Point
  - Surface Water Sample Location
  - Surface Water Pan
  - Internal Surface Water Pan
  - Surface Water Flow Direction
  - Groundwater Flow Direction
  - Piezometric Contour (50 cm)
  - Groundwater Elevation (mash)

No.	A	PRELIMINARY	2017-07-21	D.W.	A.C.	A.C.
Version			Date	By	Check	Appr.



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**Englobe Corp.**  
97 Troop Avenue  
Dartmouth, Nova Scotia  
B3A 2Z2  
902-4654686

## LAKE GEORGE WATER STUDY

2014 LAKE GEORGE ROAD, LAKE GEORGE, NS

### SHALLOW GROUNDWATER CONTOUR MAP

2017-04-25

Drawn by:	Geoenvironment	Prepared by:	D. WILSON	Checked by:	A. COLE			
Scale:	1:2,000	Drawn by:	D. WILSON	Approved by:	A. COLE			
Date:	2017-08-22	Figure no.:	FIGURE 2					
Layout:	Project title: 11 x 17	Registration no.:						
Map:	Project	On	Project	Phase	Date	Type	Drawing no.	Rev.
XXX	F-0010903-0-00-205	--	--	--	--	--	P010903-00-004	--

## **Appendix 2**

## **Laboratory Analytical Results**

TABLE 1: GENERAL CHEMISTRY in Groundwater (Monitor Wells)  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	Health Canada Drinking Water Guidelines <sup>1</sup>	NSE Tier 1 EOS <sup>2</sup>	Sample ID Date																					
				MW1S					MW1D					MW2S											
				20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	26-Apr-17	20-Mar-16	15-Jul-16	1-Nov-16	Lab-Dup 1-Nov-16	31-Jan-17	26-Apr-17	4-Nov-05	11-Jan-06	20-Mar-16	15-Jul-16	1-Nov-16	Lab-Dup 1-Nov-16	31-Jan-17	Lab-Dup 31-Jan-17	26-Apr-17	Lab-Dup 26-Apr-17	
Field pH	pH	7-10.5	NG	6.01	6.07	6.04	6.17	6.44	7.03	6.49	6.38	-	6.16	6.86	-	-	6.96	DRY	6.21	-	6.13	-	6.98	-	
Field Conductivity	uS/cm	NG	NG	383	417	735	697	261	522	681	1215	-	933	598	-	-	288		443	-	396	-	111	-	
Field Temperature	°C	NG	NG	6.3	14.45	12.42	7.25	8.16	8.77	13.63	11.92	-	6.64	8.71	-	-	4.13		13.43	-	4.57	-	7.99	-	
Anion Sum	me/L	NG	NG	3.36	4.20	5.86	2.57	2.35	9.15	10.6	12.4	-	10.8	10.0	2.81	1.93	5.37		3.48	-	3.91	-	3.27	-	
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	130	180	270	96	83	420	490	600	-	510	480	114	75	140		99	-	130	-	120	-	
Calculated TDS	mg/L	≤ 500 (AO)	NG	270	250	310	210	210	470	550	620	-	550	530	169	120	310		200	-	230	-	190	-	
Carb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	4.0	1.2	-	1.2	<1.0	<1.0	<1.0	<1.0		<1.0	-	<1.0	-	<1.0	-	
Cation Sum	me/L	NG	NG	6.39	4.35	4.77	4.47	4.88	8.88	10.7	11.7	-	10.4	10.4	2.85	2.03	5.02		3.14	-	3.96	-	3.05	-	
Colour	TCU	≤ 15 (AO)	NG	2100	220	15	790	540 (2)	<5.0	<5.0	<5.0	-	<5.0	<5.0	8	16	24		8.3	6.9	13	-	16	-	
Conductivity	uS/cm	NG	NG	350	350	500	390	410	760	870	970	-	950	880	270	180	520		340	-	370	-	300	-	
Chloride (Cl)	mg/L	≤ 250 (AO)	250	24	21	13	23	24	19	15	13	-	13	13	5	6	45		32	34	22	-	16	-	
Sulphate (SO4)	mg/L	≤ 500 (AO)	NG	<2.0	<2.0	<2.0	<2.0	<2.0	8.3	7.5	6.2	-	6.0	7.0	18	12	48		18	17	29	-	22	-	
Hardness (CaCO3)	mg/L	NG	NG	150	160	210	98	87	370	460	500	-	440	440	76	58	140		120	-	120	-	91	-	
Ion Balance (% Difference)	%	NG	NG	31.1	1.75	10.3	27.0	35.0	1.50	0.520	3.19	-	1.80	1.86	0.725	2.51	3.37		5.14	-	0.640	-	3.48	-	
Langelier Index (@ 20C)	N/A	NG	NG	-1.50	-1.17	-0.859	-1.60	-1.81	0.574	1.22	0.706	-	0.682	0.582	-1.06	-1.37	-0.591		-1.04	-	-0.615	-	-0.743	-	
Langelier Index (@ 4C)	N/A	NG	NG	-1.75	-1.42	-1.11	-1.85	-2.06	0.325	0.972	0.458	-	0.434	0.334	-1.31	-1.62	-0.840		-1.29	-	-0.864	-	-0.993	-	
Nitrate (N)	mg/L	10 (MAC)	NG	<0.050	<0.050	<0.050	<0.050	<0.050	0.14	<0.050	<0.050	-	<0.050	<0.050	<0.05	0.09	3.2		2.9	-	0.43	-	0.26	-	
Nitrate + Nitrite	mg/L	NG	NG	<0.050	7.58	<0.050	<0.050	<0.050	0.14	<0.050	<0.050	-	<0.050	<0.050	<0.05	0.06	3.2		2.9	2.9	0.43	-	0.26	-	
Nitrite (N)	mg/L	1 (MAC)	NG	<0.010	7.83	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	-	<0.010	<0.010	0.01	<0.01	0.034		<0.010	<0.010	<0.010	-	<0.010	-	
Nitrogen (Ammonia Nitrogen)	mg/L	NG	NG	2.4	2.1	0.96	2.7	3.4	0.13	<0.050	0.062	-	<0.050	<0.050	0.07	0.32	0.18		0.11	-	0.089	0.088	0.12	-	
Orthophosphate (P)	mg/L	NG	NG	0.011	0.016	0.024	0.015	0.018	0.021	0.022	0.028	-	0.025	<0.010	<0.01	<0.01	<0.010		0.014	0.014	0.013	-	<0.010	-	
pH	pH	7-10.5	NG	6.26	6.41	6.43	6.47	6.37	7.43	7.93	7.34	-	7.40	7.33	6.85	6.8	6.95		6.79	-	7.02	-	7.04	-	
Reactive Silica (SiO2)	mg/L	NG	NG	18	25	28	15	15	24	27	28	-	29	27	8.9	8.8	5.8		7.8	7.7	7.2	-	5.9	-	
Saturation pH (@ 20C)	N/A	NG	NG	7.76	7.58	7.29	8.06	8.18	6.85	6.71	6.63	-	6.72	6.75	7.91	8.17	7.54		7.82	-	7.63	-	7.78	-	
Saturation pH (@ 4C)	N/A	NG	NG	8.01	7.83	7.53	8.31	8.43	7.10	6.96	6.88	-	6.97	7.00	8.16	8.42	7.79		8.07	-	7.88	-	8.03	-	
Total Alkalinity (Total as CaCO3)	mg/L	NG	NG	130	180	270	96	83	420	500	600	-	510	480 (1)	110	75	140		99	98	130	-	120 (2)	-	
Total Organic Carbon (C)	mg/L	NG	NG	<50 (1)	63(1)	63 (1)	56 (1)	64 (2)	<5.0 (1)	<5.0(2)	2.8	2.8	2.3	2.7	6.9	<500	<25 (1)		<250 (1)	-	11 (1)	-	<50 (1)	<50 (2)	
Turbidity	NTU	1 (MAC) <sup>3</sup>	NG	>1000	>1000	>1000	>1000	>1000	440	27	27	-	88	60	24	>1000	>1000		>1000	-	>1000	-	>1000	-	

Notes:

AO - Aesthetic Objective

MAC - Maximum Acceptable Concentration

NG - no guideline

value

value

- exceeds Health Canada DWQG

- exceeds NSE EQS

<sup>1</sup> 2017 Health Canada Canadian Water Quality Guidelines for Community (Drinking) Water (HCDWQ )

<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EQS) for potable water at a residential site with coarse-grained soil

<sup>3</sup> Guideline applies to individual filter turbidity for municipal systems using surface water or groundwater under the direct influence of surface water.

(1) Reporting limit was increased due to turbidity.

(2) Elevated reporting limit due to sample matrix.

(3) Analysis performed on decanted sample due to sediment content.



TABLE 1: GENERAL CHEMISTRY in Groundwater (Monitor Wells)  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	Health Canada Drinking Water Guidelines <sup>1</sup>	NSE Tier 1 EQS <sup>2</sup>	Sample ID Date																				
				MW2D										MW3S					MW3D					
				20-Mar-16	15-Jul-16	Field-Dup 15-Jul-16	1-Nov-16	MW-DUP 1-Nov-16	Lab-Dup - Dup 1	31-Jan-17	MW-DUP 31-Jan-2017	26-Apr-17	MW-DUP 26-Apr-2017	20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	25-Apr-17	20-Mar-16	Lab-Dup 20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	25-Apr-17
Field pH	pH	7-10.5	NG	7.9	6.83	-	6.5	-	-	6.25	-	7.31	-	6.61	6.4	6.31	5.9	6.23	6.62	-	6.3	6.2	6.04	5.94
Field Conductivity	uS/cm	NG	NG	124	188	-	334	-	-	287	-	184	-	309	533	731	918	314	218	-	304	500	474	190
Field Temperature	°C	NG	NG	8.29	13.7	-	11.58	-	-	5.36	-	8.51	-	6.48	16.6	12.5	6.11	8.8	8.14	-	13	12.17	7.12	9.67
Anion Sum	me/L	NG	NG	2.61	2.69	2.76	2.96	2.86	-	2.92	2.93	3.04	2.99	7.17	7.87	7.80	5.00	6.64	3.36	-	4.39	4.74	4.38	3.96
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	100	100	110	120	110	-	120	120	120	120	330	370	370	200	290	130	-	180	200	190	170
Calculated TDS	mg/L	≤ 500 (AO)	NG	150	160	160	170	160	-	170	170	170	170	370	390	380	290	340	200	-	250	260	230	230
Carb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	1.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0
Cation Sum	me/L	NG	NG	2.56	2.67	2.65	2.80	2.81	-	2.83	2.82	2.88	2.90	6.64	6.67	6.35	5.68	6.04	3.27	-	4.29	4.49	3.50	4.07
Colour	TCU	≤ 15 (AO)	NG	<5.0	6.2	<5.0	7.0	<5.0	-	<5.0	<5.0	<5.0	<5.0	<5.0	5.2	6.9	6.7	<5.0	7.5	10	<5.0	28	18	<5.0
Conductivity	uS/cm	NG	NG	230	240	240	260	270	-	290	280	280	270	600	610	620	440	540	310	-	380	420	420	340
Chloride (Cl)	mg/L	≤ 250 (AO)	250	13	11	11	11	10	-	11	12	11	11	16	16	14	27	21	21	21	19	18	18	16
Sulphate (SO4)	mg/L	≤ 500 (AO)	NG	11	12	12	13	13	-	12	13	15	14	4.2	2.8	3.7	15	11	8.9	9.3	8.1	7.1	6.3	8.2
Hardness (CaCO3)	mg/L	NG	NG	95	100	100	110	110	-	110	110	110	110	290	300	290	240	270	110	-	160	170	130	150
Ion Balance (% Difference)	%	NG	NG	0.970	0.370	2.03	2.78	0.880	-	1.57	1.91	2.70	1.53	3.84	8.25	10.3	6.37	4.73	1.36	-	1.15	2.71	11.2	1.37
Langelier Index (@ 20C)	N/A	NG	NG	-0.0910	-0.0240	0.0130	-0.166	-0.0380	-	-0.0450	-0.0990	0.160	-0.101	-0.221	0.208	-0.117	-0.211	-0.331	-1.01	-	-0.410	-0.589	-0.835	-0.972
Langelier Index (@ 4C)	N/A	NG	NG	-0.341	-0.275	-0.237	-0.416	-0.288	-	-0.295	-0.350	-0.0900	-0.352	-0.470	-0.0410	-0.366	-0.461	-0.580	-1.26	-	-0.660	-0.839	-1.08	-1.22
Nitrate (N)	mg/L	10 (MAC)	NG	0.17	<0.050	<0.050	<0.050	<0.050	-	<0.050	0.069	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.072	0.11	-	<0.050	<0.050	<0.050	<0.050
Nitrate + Nitrite	mg/L	NG	NG	0.19	<0.050	<0.050	<0.050	<0.050	-	<0.050	0.080	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.072	0.11	0.12	<0.050	<0.050	<0.050	<0.050
Nitrite (N)	mg/L	1 (MAC)	NG	0.021	<0.010	<0.010	0.013	<0.010	-	<0.010	0.011	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrogen (Ammonia Nitrogen)	mg/L	NG	NG	0.13	<0.050	<0.050	<0.050	0.097	-	<0.050	<0.050	<0.050	<0.050	0.29	0.19	0.099	0.56	0.25	0.10	-	<0.050	0.11	<0.050	<0.050
Orthophosphate (P)	mg/L	NG	NG	0.046	0.028	0.031	0.041	0.039	-	0.040	0.040	0.028	0.031	0.017	0.019	0.026	0.020	<0.010	0.017	0.019	0.016	0.021	0.024	0.019
pH	pH	7-10.5	NG	7.92	7.93	7.95	7.73	7.86	-	7.85	7.80	8.05	7.79	6.90	7.25	6.96	7.17	6.87	6.84	-	7.13	6.87	6.82	6.65
Reactive Silica (SiO2)	mg/L	NG	NG	18	19	18	19	19	-	20	19	19	19	21	21	20	22	18	26	26	26	26	27	25
Saturation pH (@ 20C)	N/A	NG	NG	8.01	7.95	7.94	7.89	7.90	-	7.89	7.90	7.89	7.89	7.12	7.04	7.08	7.38	7.20	7.85	-	7.54	7.46	7.65	7.62
Saturation pH (@ 4C)	N/A	NG	NG	8.26	8.20	8.19	8.14	8.15	-	8.14	8.15	8.14	8.14	7.37	7.29	7.33	7.63	7.45	8.10	-	7.79	7.71	7.90	7.87
Total Alkalinity (Total as CaCO3)	mg/L	NG	NG	100	110	110	120	110	-	120	120	120 (2)	120 (2)	330	370	370	200	290 (2)	130	130	190	200	190	170 (2)
Total Organic Carbon (C)	mg/L	NG	NG	0.74	<5.0(1)	<5.0(1)	<5.0 (1)	<25 (1)	-	<5.0 (1)	<5.0 (1)	<5.0 (1)	<5.0 (1)	<25 (1)	<25(1)	<50 (1)	<50 (1)	<25 (1)	<5.0 (1)	-	2.3 (2)	<5.0 (1)	1.6	<5.0 (1)
Turbidity	NTU	1 (MAC) <sup>3</sup>	NG	230	650	900	>1000	>1000	>1000	>1000	>1000	970	390	>1000	>1000	>1000	>1000	>1000	150	-	550	200	200	170

Notes:

AO - Aesthetic Objective

MAC - Maximum Acceptable Concentration

NG - no guideline

value

value

- exceeds Health Canada DWQG

- exceeds NSE EQS

<sup>1</sup> 2017 Health Canada Canadian Water Quality Guidelines for Community (Drinking) Water (HCDWQ )

<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EQS) for potable water at a residential site with coarse-grained soil

<sup>3</sup> For municipal treatment systems only

(1) Reporting limit was increased due to turbidity.

(2) Elevated reporting limit due to sample matrix.

(3) Analysis performed on decanted sample due to sediment content.

TABLE 1: GENERAL CHEMISTRY in Groundwater (Monitor Wells)  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	Health Canada Drinking Water Guidelines <sup>1</sup>	NSE Tier 1 EOS <sup>2</sup>	Sample ID Date																					
				MW4S					MW4D					MW5						MW6S					
				20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	26-Apr-17	20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	26-Apr-17	20-Mar-16	15-Jul-16	Lab-Dup 15-Jul-16	1-Nov-16	31-Jan-17	26-Apr-17	20-Mar-16	15-Jul-16	1-Nov-16	Lab-Dup 1 Nov-16	31-Jan-17	26-Apr-17
Field pH	pH	7-10.5	NG	5.89	5.47	5.36	6.35	5.39	5.72	6.33	5.71	6.13	5.65	7.54	6.7	-	5.8	6.17	6.18	6.19	6.2	6.38	-	6.02	6.4
Field Conductivity	uS/cm	NG	NG	72	59	118	153	89	58	78	137	173	118	139	194	-	515	697	157	239	701	1397	-	728	474
Field Temperature	°C	NG	NG	6.23	15.5	13.67	5.07	8.05	9.49	16.3	12.67	7.47	9.78	10.75	17.6	-	16.6	7.25	11.71	6.03	13.61	11.53	-	5.55	8.11
Anion Sum	me/L	NG	NG	1.40	0.620	0.880	1.48	1.20	0.820	0.840	0.900	1.31	1.44	2.11	2.15	-	3.08	2.78	2.24	5.06	10.1	15.2	-	6.14	6.06
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	25	10	14	17	12	16	14	17	16	14	85	87	-	120	120	94	170	430	680	-	250	250
Calculated TDS	mg/L	≤ 500 (AO)	NG	87	52	62	89	77	59	60	65	86	96	130	150	-	210	170	140	320	530	740	-	400	380
Carb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	1.1	<1.0	-	<1.0	<1.0
Cation Sum	me/L	NG	NG	1.14	0.680	0.760	1.09	0.960	0.750	0.760	0.780	1.16	1.33	2.02	2.60	-	3.91	2.69	2.38	6.30	10.1	13.7	-	8.88	7.70
Colour	TCU	≤ 15 (AO)	NG	<5.0	<5.0	<5.0	<5.0	<5.0	37	0.14	8.7	20	130 (2)	9.1	27	26	590	310	<130 (2)	730	140	11	10	170	680 (2)
Conductivity	uS/cm	NG	NG	130	62	99	160	130	77	82	90	150	160	180	190	-	320	270	200	510	610	1200	-	550	570
Chloride (Cl)	mg/L	≤ 250 (AO)	250	22	5	13	34	25	5.8	8.1	8.1	23	29	11	12	13	22	16	13	58	51	44	42	40	40
Sulphate (SO4)	mg/L	≤ 500 (AO)	NG	13	12	10	7.5	8.0	15	16	16	15	15	3.8	3.4	3.3	<2.0	<2.0	<2.0	<2.0	2.7	13	12	<2.0	<2.0
Hardness (CaCO3)	mg/L	NG	NG	40	23	25	36	32	23	22	20	34	42	62	90	-	110	73	72	170	440	600	-	290	230
Ion Balance (% Difference)	%	NG	NG	10.2	4.62	7.32	15.2	11.1	4.46	5.00	7.14	6.07	3.97	2.18	9.47	-	11.9	1.65	3.03	10.9	0.250	5.23	-	18.2	11.9
Langelier Index (@ 20C)	N/A	NG	NG	-2.95	-3.44	-3.60	-3.29	-3.50	-3.03	-2.76	-3.24	-2.86	-3.33	-1.11	-1.41	-	-1.70	-1.49	-1.64	-1.33	0.636	0.489	-	-0.899	-0.959
Langelier Index (@ 4C)	N/A	NG	NG	-3.20	-3.69	-3.85	-3.54	-3.75	-3.28	-3.01	-3.49	-3.11	-3.58	-1.36	-1.66	-	-1.95	-1.74	-1.89	-1.58	0.388	0.242	-	-1.15	-1.21
Nitrate (N)	mg/L	10 (MAC)	NG	0.18	0.40	0.31	0.39	1.2	0.31	0.14	0.078	0.25	0.19	<0.050	0.064	-	<0.050	<0.050	<0.050	0.37	<0.050	<0.050	-	<0.050	<0.050
Nitrate + Nitrite	mg/L	NG	NG	0.21	0.40	0.31	0.41	1.2	0.31	0.14	0.078	0.25	0.19	<0.050	0.064	0.071	<0.050	<0.050	<0.050	0.39	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrite (N)	mg/L	1 (MAC)	NG	0.025	<0.010	<0.010	0.014	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.015	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrogen (Ammonia Nitrogen)	mg/L	NG	NG	0.27	0.23	0.17	0.37	0.26	<0.050	<0.050	<0.050	<0.050	<0.050	0.61	1.5	-	2.8	1.1	1.2	4.3	1.9	1.5	-	4.8	5.9
Orthophosphate (P)	mg/L	NG	NG	<0.010	0.011	0.015	0.011	<0.010	0.010	0.011	0.014	0.013	<0.010	0.015	0.018	0.016	0.095	0.071	0.031	0.020	0.023	0.031	0.036	0.024	0.011
pH	pH	7-10.5	NG	6.01	6.12	5.77	5.85	5.81	6.34	6.68	6.18	6.33	5.84	7.11	6.64	-	6.12	6.51	6.45	6.28	7.44	7.00	-	6.31	6.35
Reactive Silica (SiO2)	mg/L	NG	NG	7.2	12	12	6.7	7.3	11	12	14	13	13	22	25	25	30	25	24	25	31	29	29	29	30
Saturation pH (@ 20C)	N/A	NG	NG	8.96	9.55	9.37	9.14	9.31	9.37	9.44	9.41	9.19	9.17	8.23	8.05	-	7.82	8.00	8.10	7.61	6.81	6.51	-	7.20	7.31
Saturation pH (@ 4C)	N/A	NG	NG	9.21	9.80	9.62	9.39	9.56	9.62	9.69	9.66	9.44	9.42	8.48	8.30	-	8.07	8.25	8.35	7.86	7.05	6.76	-	7.45	7.56
Total Alkalinity (Total as CaCO3)	mg/L	NG	NG	25	10	14	17	12	16	14	17	16	14	85	85	85	120	120	94	170	430	690	670	250	250 (2)
Total Organic Carbon (C)	mg/L	NG	NG	<25 (1)	<50(1)	<250 (1)	<50 (1)	53 (2)	<5.0 (1)	0.78	0.70	1.3	1.3	<25 (1)	89(1)	-	57 (1)	25 (1)	26 (2)	58 (1)	25(1)	42 (3)	-	60 (1)	110 (1)
Turbidity	NTU	1 (MAC) <sup>3</sup>	NG	>1000	>1000	>1000	>1000	>1000	120	200	140	96	>1000	>1000	>1000	-	430	360	>1000	>1000	>1000	>1000	-	>1000	>1000

Notes:

AO - Aesthetic Objective

MAC - Maximum Acceptable Concentration

NG - no guideline

value

value

- exceeds Health Canada DWQG

- exceeds NSE EQS

<sup>1</sup> 2017 Health Canada Canadian Water Quality Guidelines for Community (Drinking) Water (HCDWQ )

<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EQS) for potable water at a residential site with coarse-grained soil

<sup>3</sup> For municipal treatment systems only

(1) Reporting limit was increased due to turbidity.

(2) Elevated reporting limit due to sample matrix.

(3) Analysis performed on decanted sample due to sediment content.

TABLE 1: GENERAL CHEMISTRY in Groundwater (Monitor Wells)  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	Health Canada Drinking Water Guidelines <sup>1</sup>	NSE Tier 1 EQS <sup>2</sup>	Sample ID Date																					
				MW6D					MW7					MW8					MW9						
				20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	26-Apr-17	20-Mar-16	Lab-Dup 20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	26-Apr-17	20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	Lab-Dup 31-Jan-17	26-Apr-17	20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	25-Apr-17
Field pH	pH	7-10.5	NG	6.82	6.73	7.16	6.77	7.2	7.06	-	6.58	6.8	6.42	7.27	6.79	6.14	6.11	5.99	-	6.99	6.34	5.88	5.29	6.3	6.35
Field Conductivity	uS/cm	NG	NG	136	136	222	197	70	161	-	207	359	309	220	201	218	452	257	-	154	119	150	241	129	66
Field Temperature	°C	NG	NG	8.64	12.66	12.13	6.78	8.89	6.5	-	13.88	12.41	6.24	8.1	6.98	14.86	12.05	4.45	-	7.95	5.68	18.12	12.6	5.51	8.37
Anion Sum	me/L	NG	NG	2.05	1.84	1.92	1.94	1.83	2.61	-	3.47	2.87	3.52	3.60	4.06	3.60	3.96	2.61	-	2.43	2.03	1.66	1.81	1.12	1.54
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	51	55	63	60	55	99	-	150	120	150	150	120	150	160	110	-	100	50	27	34	13	20
Calculated TDS	mg/L	≤ 500 (AO)	NG	130	120	120	120	120	150	-	250	160	190	200	250	210	220	160	-	140	130	100	110	70	96
Carb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	1.7	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cation Sum	me/L	NG	NG	1.94	1.79	1.67	1.70	1.62	2.49	-	6.22	2.69	3.02	3.39	4.17	3.46	3.65	2.69	-	2.37	1.91	1.43	1.66	0.900	1.26
Colour	TCU	≤ 15 (AO)	NG	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	-	15	<5.0	5.3	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0
Conductivity	uS/cm	NG	NG	190	170	180	200	170	230	-	300	270	350	320	390	310	360	240	-	220	190	160	190	120	160
Chloride (Cl)	mg/L	≤ 250 (AO)	250	26	17	15	17	16	17	-	13	13	14	14	49	16	22	12	11	10	22	24	25	20	26
Sulphate (SO4)	mg/L	≤ 500 (AO)	NG	13	13	11	11	13	6.3	-	6.5	8.0	6.2	8.8	13	6	5.5	5.4	5.6	6.9	18	21	20	13	19
Hardness (CaCO3)	mg/L	NG	NG	49	39	28	37	40	91	-	270	100	120	140	120	130	140	95	-	81	59	44	53	23	36
Ion Balance (% Difference)	%	NG	NG	2.76	1.38	6.96	6.59	6.09	2.35	-	28.4	3.24	7.65	3.00	1.34	1.98	4.07	1.51	-	1.25	3.05	7.44	4.32	10.9	10.0
Langelier Index (@ 20C)	N/A	NG	NG	-1.24	-1.02	-1.25	-1.13	-1.15	-0.966	-	0.744	-0.218	-0.336	-0.247	-0.943	-0.166	-0.651	-1.33	-	-1.56	-1.83	-2.41	-2.54	-3.63	-3.28
Langelier Index (@ 4C)	N/A	NG	NG	-1.49	-1.27	-1.50	-1.38	-1.40	-1.22	-	0.495	-0.468	-0.586	-0.497	-1.19	-0.416	-0.901	-1.58	-	-1.81	-2.08	-2.66	-2.79	-3.88	-3.53
Nitrate (N)	mg/L	10 (MAC)	NG	0.43	<0.050	<0.050	0.089	<0.050	0.13	-	<0.050	0.091	0.15	0.17	<0.050	<0.050	<0.050	<0.050	-	<0.050	0.25	0.057	<0.050	0.18	0.13
Nitrate + Nitrite	mg/L	NG	NG	0.43	<0.050	<0.050	0.089	<0.050	0.13	-	<0.050	0.091	0.15	0.17	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	0.25	0.057	<0.050	0.18	0.13
Nitrite (N)	mg/L	1 (MAC)	NG	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrogen (Ammonia Nitrogen)	mg/L	NG	NG	0.13	0.12	0.20	0.13	0.13	0.076	0.097	0.21	0.16	0.065	0.11	0.052	<0.050	0.086	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Orthophosphate (P)	mg/L	NG	NG	0.013	0.015	0.019	0.018	<0.010	0.026	-	0.033	0.058	0.031	0.027	0.022	0.029	0.034	0.023	0.022	0.038	<0.010	0.012	0.016	0.011	<0.010
pH	pH	7-10.5	NG	7.27	7.56	7.42	7.43	7.41	7.07	-	8.09	7.64	7.38	7.39	6.86	7.47	6.92	6.60	-	6.48	6.76	6.52	6.20	5.89	5.91
Reactive Silica (SiO2)	mg/L	NG	NG	21	22	21	22	21	23	-	18	21	21	21	26	24	25	21	21	19	14	13	13	6.6	11
Saturation pH (@ 20C)	N/A	NG	NG	8.51	8.58	8.67	8.56	8.56	8.04	-	7.34	7.85	7.72	7.64	7.81	7.64	7.57	7.93	-	8.04	8.59	8.92	8.74	9.53	9.18
Saturation pH (@ 4C)	N/A	NG	NG	8.76	8.83	8.92	8.81	8.82	8.29	-	7.59	8.10	7.97	7.89	8.06	7.89	7.82	8.18	-	8.29	8.84	9.18	8.99	9.78	9.43
Total Alkalinity (Total as CaCO3)	mg/L	NG	NG	51	55	63	61	55	99	-	150	120	150	150 (2)	120	150	160	110	110	100 (2)	50	27	34	13	20
Total Organic Carbon (C)	mg/L	NG	NG	<25 (1)	<50(1)	<25 (1)	<50 (1)	<50 (1)	<5.0 (1)	-	29 (1)	<50 (1)	<5.0 (1)	<25 (1)	4.2 (1)	<50 (1)	<50 (1)	5.8 (1)	-	<25 (1)	<50 (1)	<5.0 (1)	2.6	<5.0 (1)	2.8
Turbidity	NTU	1 (MAC) <sup>3</sup>	NG	250	>1000	>1000	>1000	>1000	130	-	550	>1000	>1000	>1000	210	>1000	>1000	>1000	-	870	>1000	750	630	>1000	470

Notes:

AO - Aesthetic Objective

MAC - Maximum Acceptable Concentration

NG - no guideline

value

value

- exceeds Health Canada DWQG

- exceeds NSE EQS

<sup>1</sup> 2017 Health Canada Canadian Water Quality Guidelines for Community (Drinking) Water (HCDWQ )

<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EQS) for potable water at a residential site with coarse-grained soil

<sup>3</sup> For municipal treatment systems only

(1) Reporting limit was increased due to turbidity.  
(2) Elevated reporting limit due to sample matrix.  
(3) Analysis performed on decanted sample due to sediment content.

TABLE 1: GENERAL CHEMISTRY in Groundwater (Monitor Wells)  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	Health Canada Drinking Water Guidelines <sup>1</sup>	NSE Tier 1 EOS <sup>2</sup>	Sample ID Date																							
				MW10									MW11							MW12							
				20-Mar-16	MW-DUP 20-Mar-16	Lab-Dup 20 Mar-16	15-Jul-16	1-Nov-16	Lab-Dup 1 Nov-16	31-Jan-17	26-Apr-17	Lab-Dup 26-Apr-17	4-Nov-05	20-Mar-16	Lab-Dup 20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	26-Apr-17	4-Nov-05	20-Mar-16	Lab-Dup 20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	26-Apr-17	Lab-Dup 26 Apr-17
Field pH	pH	7-10.5	NG	7.01	-	-	6.33	6.36	-	6.38	6.12	-	-	5.97	-	5.25	5.6	5.84	6.7	-	6.19	-	6.26	5.8	6.6	6.61	-
Field Conductivity	uS/cm	NG	NG	697	-	-	510	867	-	365	147	-	-	94	-	92	153	339	90	-	196	-	339	308	150	71	-
Field Temperature	°C	NG	NG	6.86	-	-	16.24	14.22	-	5.63	8.82	-	-	4.75	-	16.14	12.63	4.22	7.57	-	5.85	-	16.8	12.63	4.95	8.35	-
Anion Sum	me/L	NG	NG	11.0	11.1	-	6.62	6.21	-	3.49	3.83	-	4.5	1.67	-	1.17	1.15	3.16	2.39	2.77	2.02	-	1.32	1.18	1.04	0.970	-
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	380	380	-	190	96	-	120	150	-	98	50	-	32	30	29	32	104	22	-	11	7.5	13	18	-
Calculated TDS	mg/L	≤ 500 (AO)	NG	610	610	-	370	400	-	220	230	-	269	100	-	83	81	190	140	248	150	-	170	85	86	77	-
Carb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	<1.0	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	-
Cation Sum	me/L	NG	NG	10.5	10.5	-	5.84	6.06	-	3.70	4.23	-	4.76	1.58	-	1.10	1.05	2.63	2.08	5.63	2.82	-	4.40	1.14	1.56	1.34	-
Colour	TCU	≤ 15 (AO)	NG	78	90	-	140	210	-	620	560 (2)	-	6	5.2	-	9.6	<5.0	<5.0	<5.0	87	130	-	91	5.3	<5.0	8.8	-
Conductivity	uS/cm	NG	NG	990	990	-	580	670	-	340	350	-	460	170	170	110	120	350	240	340	210	-	150	160	120	99	99
Chloride (Cl)	mg/L	≤ 250 (AO)	250	110	110	-	85	90	-	26	22	-	75	11	-	6.3	8.0	73	50	21	53	-	39	34	15	12	-
Sulphate (SO4)	mg/L	≤ 500 (AO)	NG	22	22	-	15	84	-	14	13	-	20	9.3	-	16	14	7.9	13	5.0	4.0	-	<2.0	2.9	17	13	-
Hardness (CaCO3)	mg/L	NG	NG	280	280	-	220	120	-	71	110	-	150	59	-	28	27	100	77	53	19	-	29	21	14	8.1	-
Ion Balance (% Difference)	%	NG	NG	2.51	2.77	-	6.26	1.22	-	2.92	4.96	-	2.83	2.77	-	3.08	4.55	9.15	6.94	34	16.5	-	53.9	1.72	20.0	16.0	-
Langelier Index (@ 20C)	N/A	NG	NG	0.0970	0.139	-	-0.443	-1.18	-	-1.18	-0.857	-	-1.65	-2.38	-	-2.35	-3.00	-2.46	-2.58	-1.91	-3.48	-	-3.48	-4.47	-3.91	-3.81	-
Langelier Index (@ 4C)	N/A	NG	NG	-0.150	-0.108	-	-0.692	-1.43	-	-1.43	-1.11	-	-1.9	-2.63	-	-2.61	-3.26	-2.71	-2.83	-2.16	-3.73	-	-3.73	-4.72	-4.16	-4.07	-
Nitrate (N)	mg/L	10 (MAC)	NG	<0.050	<0.050	-	0.067	0.39	-	0.093	<0.050	-	<0.05	2.1	-	0.44	0.36	5.2	1.1	<0.05	<0.050	-	0.063	<0.050	<0.050	0.069	-
Nitrate + Nitrite	mg/L	NG	NG	<0.050	<0.050	-	0.067	0.39	-	0.093	<0.050	-	<0.05	2.1	-	0.44	0.36	5.2	1.1	<0.05	<0.050	-	0.063	<0.050	<0.050	0.069	-
Nitrite (N)	mg/L	1 (MAC)	NG	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	-	<0.01	<0.010	-	<0.010	<0.010	<0.010	<0.010	<0.01	<0.010	-	<0.010	<0.010	<0.010	<0.010	-
Nitrogen (Ammonia Nitrogen)	mg/L	NG	NG	3.3	3.1	3.2	2.3	0.59	-	0.29	0.54	-	0.1	0.074	-	0.081	<0.050	<0.050	<0.050	6.2	1.8	-	2.6	2.7	1.1	1.0	-
Orthophosphate (P)	mg/L	NG	NG	0.015	0.015	-	0.058	0.030	-	0.076	0.10	-	<0.01	0.064	-	0.024	0.027	0.017	0.016	<0.01	<0.010	-	0.010	0.016	0.011	<0.010	-
pH	pH	7-10.5	NG	7.15	7.18	-	6.94	6.69	-	6.74	6.81	-	6.2	6.05	-	6.67	6.08	6.03	6.03	6.33	5.83	5.89	5.99	5.26	5.73	5.92	5.92
Reactive Silica (SiO2)	mg/L	NG	NG	18	18	-	17	13	-	8.4	8.3	-	20	8.2	-	17	17	10	12	18	7.3	-	10	17	7.6	7.7	-
Saturation pH (@ 20C)	N/A	NG	NG	7.05	7.04	-	7.38	7.87	-	7.92	7.66	-	7.85	8.43	-	9.03	9.08	8.49	8.61	8.24	9.31	-	9.46	9.73	9.64	9.74	-
Saturation pH (@ 4C)	N/A	NG	NG	7.30	7.29	-	7.63	8.12	-	8.17	7.91	-	8.1	8.68	-	9.28	9.33	8.74	8.86	8.49	9.56	-	9.71	9.98	9.89	9.99	-
Total Alkalinity (Total as CaCO3)	mg/L	NG	NG	380	380	-	190	96	-	120	150 (2)	-	98	50	-	32	30	29	32	100	22	-	11	7.5	13	18	-
Total Organic Carbon (C)	mg/L	NG	NG	52 (1)	49 (1)	-	29(2)	32 (1)	-	37 (1)	36 (1)	-	1.9	<50 (1)	-	<50(1)	<50 (1)	9.9 (1)	<25 (1)	<0.5	25 (1)	-	23 (1)	<50 (1)	12 (1)	10 (1)	-
Turbidity	NTU	1 (MAC) <sup>3</sup>	NG	580	930	-	24	>1000	>1000	170	230	230	590	>1000	-	>1000	>1000	>1000	>1000	>1000	490	-	>1000	>1000	>1000	470	-

Notes:

AO - Aesthetic Objective

MAC - Maximum Acceptable Concentration

NG - no guideline

value

value

- exceeds Health Canada DWQG

- exceeds NSE EOS

<sup>1</sup> 2017 Health Canada Canadian Water Quality Guidelines for Community (Drinking) Water (HCDWQ )  
<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EQS) for potable water at a residential site with coarse-grained soil  
<sup>3</sup> For municipal treatment systems only  
(1) Reporting limit was increased due to turbidity.  
(2) Elevated reporting limit due to sample matrix.  
(3) Analysis performed on decanted sample due to sediment content.

TABLE 2: METALS in Groundwater (Monitoring Wells)  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	Health Canada Drinking Water Guidelines <sup>1</sup>	NSE Tier 1 EQS <sup>2</sup>	SAMPLE ID																		
				MW1S					MW1D							MW2S						
				20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	26-Apr-17	20-Mar-16	15-Jul-16	1-Nov-16	Lab-Dup 1-Nov-16	31-Jan-17	Lab-Dup 31- Jan-17	26-Apr-17	4-Nov-05	11-Jan-06	20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	26-Apr-17
Aluminum	µg/L	100 (OG) <sup>3</sup>	NG	110	36	14	39	47	6.4	<5.0	<5.0	-	<5.0	-	<5.0	<10	77	68	DRY	14	70	49
Antimony	µg/L	6 (MAC)	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	-	<1.0	<2.0	<2.0	<1.0		<1.0	<1.0	
Arsenic	µg/L	10 (MAC)	10	1.5	2.1	1.4	<1.0	1.4	2.7	7.9	7.6	-	5.3	-	5.0	<2.0	<2.0	<1.0		<1.0	<1.0	
Barium	µg/L	1000 (MAC)	1000	67	50	43	42	43	260	320	290	-	290	-	300	<5.0	13	67		28	40	29
Beryllium	µg/L	NG	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	-	<1.0	<2.0	<2.0	<1.0		<1.0	<1.0	
Bismuth	µg/L	NG	NG	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	-	<2.0	<2.0	<2	<2.0		<2.0	<2.0	
Boron	µg/L	5000 (MAC)	5000	<50	<50	<50	<50	<50	<50	<50	<50	-	<50	-	<50	6800	3300	180		350	210	200
Cadmium	µg/L	5 (MAC)	5	0.13	0.20	0.20	0.13	0.11	0.029	<0.010	<0.010	-	<0.010	-	0.045	<0.3	<0.3	0.037		0.056	0.034	0.034
Calcium	µg/L	NG	NG	33000	37000	50000	22000	20000	97000	120000	120000	-	110000	-	110000	24000	20000	53000		37000	44000	34000
Chromium	µg/L	50 (MAC)	50	3.9	2.1	<1.0	1.8	1.8	<1.0	<1.0	<1.0	-	<1.0	-	<1.0	<2.0	<2.0	<1.0		<1.0	<1.0	<1.0
Cobalt	µg/L	NG	10	50	35	25	53	54	2.0	1.5	0.75	-	0.70	-	0.71	<1	6	1.3		2.4	1.5	1.5
Copper	µg/L	≤1000 (AO)	NG	4.0	5.9	23	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	-	17	<2.0	<2.0	13		5.4	10	23
Iron	µg/L	≤300 (AO)	NG	76000	17000	68	54000	70000	<50	140	720	-	<50	-	<50	<50	2700	74		<50	71	58
Lead	µg/L	-	10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	-	<0.50	-	<0.50	<0.5	3	<0.50		<0.50	<0.50	<0.50
Lead (Total)	µg/L	10 (MAC)	NG	27	26	66	120	55	3.4	1.1	<0.50	<0.50	0.75	-	2.7	-	-	7.2		330	17	43
Magnesium	µg/L	NG	NG	15000	15000	21000	10000	9300	32000	39000	47000	-	39000	-	40000	3900	1800	2400		6200	2200	1600
Manganese	µg/L	≤50 (AO)	NG	8200	11000	14000	9400	8200	420	660	750	-	630	-	530	5600	2000	1100		1100	620	610
Mercury	µg/L	1 (MAC)	1	<0.013	0.027	<0.013	0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	-	-	<0.013		0.035	<0.013	0.017
Molybdenum	µg/L	NG	70	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	-	<2.0	<2.0	<2.0	<2.0		<2.0	<2.0	<2.0
Nickel	µg/L	NG	100	20	14	14	11	12	7.2	9.4	2.7	-	3.0	-	3.3	<2.0	3	<2.0		3.5	<2.0	<2.0
Phosphorus	µg/L	NG	NG	<100	<100	<100	<100	<100	<100	<100	<100	-	<100	-	<100	<100	<100	<100		<100	<100	<100
Potassium	µg/L	NG	NG	7100	6200	5200	5100	5000	11000	11000	11000	-	11000	-	11000	8700	7000	17000		9800	15000	13000
Selenium	µg/L	50 (MAC)	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	-	<1.0	<2.0	<2.0	<1.0		<1.0	<1.0	<1.0
Silver	µg/L	NG	100	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	-	<0.10	-	<0.10	<0.5	<0.5	<0.10		<0.10	<0.10	<0.10
Sodium	µg/L	≤ 200,000 (AO)	200,000	8400	7300	7600	6100	6000	26000	29000	33000	-	31000	-	29000	25000	13000	40000	12000	27000	21000	
Strontium	µg/L	NG	4400	270	300	390	240	220	370	450	470	-	430	-	420	84	49	160	150	130	91	
Thallium	µg/L	NG	2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	-	<0.10	-	<0.10	<0.1	<0.1	<0.10	<0.10	<0.10	<0.10	
Tin	µg/L	NG	4400	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Titanium	µg/L	NG	NG	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Uranium	µg/L	20 (MAC)	20	0.41	0.30	0.91	0.29	0.24	3.1	5.0	4.1	-	3.8	-	3.6	<0.1	<0.1	0.44	0.12	0.30	0.24	
Vanadium	µg/L	NG	6.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Zinc	µg/L	≤5000 (AO)	5000	9.9	5.1	<5.0	<5.0	11	250	31	6.8	-	14	-	58	<5.0	14	<5.0	<5.0	<5.0	5.7	

Notes:  
AO - Aesthetic Objective  
MAC - Maximum Acceptable Concentration  
OG - Operational Guideline  
NG - no guideline

value

- exceeds Health Canada DWQG

value

- exceeds NSE EQS

<sup>1</sup> 2017 Health Canada Canadian Water Quality Guidelines for Community (Drinking) Water (HCDWQ )

<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EQS) for potable water at a residential site with coarse-grained soil

<sup>3</sup> For municipal treatment systems only; does not apply to naturally occurring aluminum in groundwater

TABLE 2: METALS in Groundwater (Monitoring Wells)  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	Health Canada Drinking Water Guidelines <sup>1</sup>	NSE Tier 1 EOS <sup>2</sup>	SAMPLE ID																					
				MW2D										MW3S						MW3D					
				20-Mar-16	15-Jul-16	MW-DUP 15-Jul-16	1-Nov-16	MW-DUP 1-Nov-16	31-Jan-17	Lab-Dup 31-Jan-17	MW-DUP 31-Jan-17	26-Apr-17	MW-DUP 26-Apr-17	20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	25-Apr-17	Lab-Dup 25-Apr-17	20-Mar-16	Lab-Dup 20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	25-Apr-17
Aluminum	µg/L	100 <sup>3</sup>	NG	19	<5.0	<5.0	5.1	5.4	<5.0	<5.0	5.5	6.9	<5.0	7.0	6.7	6.4	7.2	6.3	6.0	9.5	10	<5.0	6.0	<5.0	8.3
Antimony	µg/L	6 (MAC)	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	µg/L	10 (MAC)	10	14	8.8	9.1	6.9	6.6	9.7	9.6	9.5	10	10	1.4	<1.0	<1.0	<1.0	1.1	1.1	4.1	4.1	6.4	9.4	2.2	9.0
Barium	µg/L	1000 (MAC)	1000	24	31	30	31	31	39	39	38	33	32	21	20	17	18	16	15	18	18	23	23	13	18
Beryllium	µg/L	NG	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bismuth	µg/L	NG	NG	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Boron	µg/L	5000 (MAC)	5000	850	1000	1000	1100	1100	970	970	970	1100	1100	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Cadmium	µg/L	5 (MAC)	5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.084	0.13	0.25	0.11	0.094	0.083	0.014	0.014	<0.010	<0.010	0.016	<0.010
Calcium	µg/L	NG	NG	23000	25000	25000	26000	26000	26000	26000	26000	26000	26000	63000	68000	62000	55000	58000	57000	26000	26000	40000	43000	30000	36000
Chromium	µg/L	50 (MAC)	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cobalt	µg/L	NG	10	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40	12	7.9	5.3	7.1	6.4	6.2	4.6	4.6	6.4	5.5	3.4	6.3
Copper	µg/L	≤1000 (AO)	NG	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.4	5.3	5.4	4.2	3.4	3.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Iron	µg/L	≤300 (AO)	NG	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	310	310	660	1100	73	700
Lead	µg/L	-	10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Lead (Total)	µg/L	10 (MAC)	NG	1.2	2	7.9	1.8	3.5	3.9	-	4.8	12	13	2.1	1.3	73	34	32	-	1	-	1.3	2.4	2.2	2.9
Magnesium	µg/L	NG	NG	9200	10000	10000	11000	11000	11000	11000	11000	12000	12000	32000	32000	32000	26000	29000	29000	11000	11000	15000	15000	13000	15000
Manganese	µg/L	≤50 (AO)	NG	12	100	110	61	61	200	190	200	64	66	8000	11000	8700	7900	7800	7700	250	250	450	520	240	420
Mercury	µg/L	1 (MAC)	1	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	-	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	0.022	<0.013		<0.013	-	<0.013	<0.013	<0.013	<0.013
Molybdenum	µg/L	NG	70	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Nickel	µg/L	NG	100	2.4	2.9	3.3	3.7	3.5	2.4	2.3	2.3	<2.0	<2.0	11	10	8.0	6.9	7.0	6.8	7.4	7.8	12	8.7	7.6	12
Phosphorus	µg/L	NG	NG	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	NG	NG	3700	3200	3300	3000	3000	3000	3000	3000	2900	2800	7900	5400	3600	3900	3100	3100	3800	3700	3700	4000	2800	3600
Selenium	µg/L	50 (MAC)	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	µg/L	NG	100	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sodium	µg/L	≤ 200,000 (AO)	200,000	13000	12000	11000	12000	12000	12000	12000	12000	13000	13000	16000	11000	12000	15000	14000	14000	21000	21000	22000	21000	21000	22000
Strontium	µg/L	NG	4400	130	150	150	160	160	160	160	160	160	160	410	410	390	350	360	350	150	150	210	220	170	190
Thallium	µg/L	NG	2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Tin	µg/L	NG	4400	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	µg/L	NG	NG	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Uranium	µg/L	20 (MAC)	20	0.37	0.76	0.78	0.78	0.80	1.1	1.1	1.1	1.2	1.2	0.61	0.96	0.89	0.60	0.60	0.59	0.14	0.12	0.37	0.42	0.16	0.20
Vanadium	µg/L	NG	6.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Zinc	µg/L	≤5000 (AO)	5000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	5.5	<5.0	6.1	<5.0	<5.0	<5.0	<5.0	<5.0	91	90	12	9.6	8.0	15

Notes:  
AO - Aesthetic Objective  
MAC - Maximum Acceptable Concentration  
NG - no guideline

**value**

- exceeds Health Canada DWQG  

**value**

- exceeds NSE EQS

<sup>1</sup> 2017 Health Canada Canadian Water Quality Guidelines for Community (Drinking) Water (HCDWQ )  
<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EQS) for potable water at a residential site with coarse-grained soil  
<sup>3</sup> For municipal treatment systems only

TABLE 2: METALS in Groundwater (Monitoring Wells)  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	Health Canada Drinking Water Guidelines <sup>1</sup>	NSE Tier 1 EQS <sup>2</sup>	SAMPLE ID																				
				MW4S					MW4D						MW5					MW6S				
				20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	26-Apr-17	20-Mar-16	15-Jul-16	Lab-Dup 15-Jul-16	1-Nov-16	31-Jan-17	26-Apr-17	20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	26-Apr-17	20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	26-Apr-17
Aluminum	µg/L	100 <sup>3</sup>	NG	82	31	28	97	100	39	24	24	33	36	67	14	120	440	370	86	210	21	8.6	120	86
Antimony	µg/L	6 (MAC)	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	µg/L	10 (MAC)	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.5	<1.0	<1.0	2.0	<u>12</u>	<u>13</u>	4.7	<u>11</u>	<u>14</u>	1.8	3.9	7.4	7.4
Barium	µg/L	1000 (MAC)	1000	20	15	13	27	32	11	12	11	10	16	23	33	64	78	47	50	57	77	53	62	55
Beryllium	µg/L	NG	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bismuth	µg/L	NG	NG	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Boron	µg/L	5000 (MAC)	5000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Cadmium	µg/L	5 (MAC)	5	0.11	0.048	0.065	0.18	0.14	0.025	0.032	0.031	0.043	0.061	0.084	<0.010	0.028	0.060	0.013	<0.010	0.088	0.15	0.061	0.11	0.15
Calcium	µg/L	NG	NG	9500	5500	6500	9300	8600	5400	5500	5500	4900	8400	10000	16000	24000	31000	20000	20000	39000	110000	150000	70000	54000
Chromium	µg/L	50 (MAC)	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	2.0	1.2	<1.0	1.9	<1.0	<1.0	3.2	2.6
Cobalt	µg/L	NG	10	<u>38</u>	7.1	6.4	<u>33</u>	<u>26</u>	<u>12</u>	4.3	4.4	3.9	3.5	3.1	1.0	5.1	8.0	4.6	4.6	<u>11</u>	9.9	2.7	<u>13</u>	<u>16</u>
Copper	µg/L	≤1000 (AO)	NG	3.8	<2.0	<2.0	3.1	12	<2.0	<2.0	<2.0	<2.0	<2.0	7.8	<2.0	3.8	7.1	2.1	<2.0	4.1	13	<2.0	<2.0	<2.0
Iron	µg/L	≤300 (AO)	NG	55	<50	<50	54	79	930	220	230	450	380	560	100	340	17000	10000	4700	40000	130	77	39000	45000
Lead	µg/L	-	10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	1.9	0.67	<0.50	0.55	<0.50	<0.50	<0.50	<0.50
Lead (Total)	µg/L	10 (MAC)	NG	22	210	290	190	230	5.9	0.6	-	0.5	0.52	2.3	9.6	8.6	2.5	4.4	14	20	8.5	97	190	600
Magnesium	µg/L	NG	NG	3900	2300	2200	3100	2500	2200	2100	2100	1900	3200	4000	5400	7600	7500	5300	5600	17000	41000	57000	27000	23000
Manganese	µg/L	≤50 (AO)	NG	7000	1200	1800	7100	5000	600	380	380	390	900	2100	390	750	1400	970	980	4600	6500	2900	5700	5200
Mercury	µg/L	1 (MAC)	1	<0.013	0.062	0.065	0.062	0.037	<0.013	<0.013	-	<0.013	0.015	<0.013	<0.013	0.015	<0.013	<0.013	<0.013	<0.013	0.38	0.077	0.050	0.062
Molybdenum	µg/L	NG	70	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Nickel	µg/L	NG	100	9.6	3.4	4.4	6.5	6.0	6.5	4.8	4.7	3.6	3.6	4.7	<2.0	4.3	9.5	4.8	4.3	11	11	4.1	10	13
Phosphorus	µg/L	NG	NG	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	130	100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	NG	NG	1900	1200	1800	1900	2200	1000	810	810	910	990	1100	5600	7000	13000	9700	6800	6300	8800	5600	6500	6000
Selenium	µg/L	50 (MAC)	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	µg/L	NG	100	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sodium	µg/L	≤ 200,000 (AO)	200,000	6300	4000	4400	6700	5800	5600	6600	6800	7800	10000	10000	14000	12000	14000	12000	12000	24000	22000	33000	29000	21000
Strontium	µg/L	NG	4400	61	37	38	35	34	40	44	44	37	69	86	82	120	140	94	96	250	440	470	330	250
Thallium	µg/L	NG	2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Tin	µg/L	NG	4400	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	µg/L	NG	NG	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	7.2	6.2	<2.0	4.2	<2.0	<2.0	3.1	2.8
Uranium	µg/L	20 (MAC)	20	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.18	<0.10	<0.10	0.71	2.3	8.3	2.4	1.5
Vanadium	µg/L	NG	6.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.6	<2.0	<2.0	<2.0	<2.0	<2.0	2.9	2.4
Zinc	µg/L	≤5000 (AO)	5000	<5.0	<5.0	<5.0	<5.0	20	11	7.3	6.9	5.9	5.4	19	<5.0	11	59	36	13	8.7	<5.0	<5.0	6.6	7.7

Notes:  
AO - Aesthetic Objective  
MAC - Maximum Acceptable Concentration  
NG - no guideline

value

**value**

- exceeds Health Canada DWQG

- exceeds NSE EQS

<sup>1</sup> 2017 Health Canada Canadian Water Quality Guidelines for Community (Drinking) Water (HCDWQ )  
<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EQS) for potable water at a residential site with coarse-grained soil  
<sup>3</sup> For municipal treatment systems only

TABLE 2: METALS in Groundwater (Monitoring Wells)  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	Health Canada Drinking Water Guidelines <sup>1</sup>	NSE Tier 1 EOS <sup>2</sup>	SAMPLE ID																			
				MW6D					MW7					MW8					MW9				
				20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	26-Apr-17	20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	26-Apr-17	20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	26-Apr-17	20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	25-Apr-17
Aluminum	µg/L	100 <sup>3</sup>	NG	5.4	<5.0	5.6	<5.0	<5.0	7.1	8.8	5.8	<5.0	<5.0	7.1	<5.0	<5.0	5.1	<5.0	8.3	20	23	77	71
Antimony	µg/L	6 (MAC)	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	µg/L	10 (MAC)	10	1.6	<1.0	<1.0	<1.0	<1.0	1.2	2.4	2.4	1.7	1.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Barium	µg/L	1000 (MAC)	1000	8.6	3.4	2.1	2.6	1.8	13	35	12	14	16	32	25	24	16	13	16	22	21	20	19
Beryllium	µg/L	NG	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bismuth	µg/L	NG	NG	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Boron	µg/L	5000 (MAC)	5000	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Cadmium	µg/L	5 (MAC)	5	<0.010	<0.010	0.032	<0.010	<0.010	0.020	0.034	0.015	0.021	0.022	0.076	0.036	0.066	0.057	0.045	0.058	0.10	0.14	0.14	0.10
Calcium	µg/L	NG	NG	14000	11000	7700	10000	11000	21000	78000	29000	31000	37000	33000	38000	41000	25000	21000	12000	9700	12000	4800	7300
Chromium	µg/L	50 (MAC)	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cobalt	µg/L	NG	10	0.74	<0.40	<0.40	<0.40	<0.40	0.61	3.5	<0.40	<0.40	0.74	6.4	4.7	3.8	4.3	3.7	<u>53</u>	<u>20</u>	<u>11</u>	4.2	8.1
Copper	µg/L	≤1000 (AO)	NG	<2.0	<2.0	<2.0	<2.0	4.3	<2.0	5.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Iron	µg/L	≤300 (AO)	NG	300	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Lead	µg/L	-	10	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.94	<0.50	<0.50	<0.50	<0.50
Lead (Total)	µg/L	10 (MAC)	NG	5.9	25	39	21	34	1.4	110	220	20	62	0.93	56	120	16	8.8	79	<0.50	<0.50	0.58	<0.50
Magnesium	µg/L	NG	NG	3600	2800	2100	2600	3000	9000	18000	7900	10000	11000	10000	8800	8800	7700	7000	7100	4700	5500	2800	4200
Manganese	µg/L	≤50 (AO)	NG	110	62	32	38	41	100	1900	170	140	220	890	990	1000	820	520	2000	2600	1700	3100	2500
Mercury	µg/L	1 (MAC)	1	<0.013	0.023	<0.013	<0.013	<0.013	<0.013	0.27	0.028	0.013	0.022	<0.013	0.043	0.042	<0.013	<0.013	0.55	0.018	<0.013	<0.013	0.013
Molybdenum	µg/L	NG	70	2.1	3.5	2.9	2.9	2.2	<2.0	2.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Nickel	µg/L	NG	100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	9.2	<2.0	<2.0	<2.0	6.4	4.4	3.5	5.1	3.9	21	9.9	6.6	2.3	5.7
Phosphorus	µg/L	NG	NG	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	NG	NG	1200	320	370	570	320	2700	7900	3400	2600	2800	6800	2600	2500	1900	1600	3500	1200	1100	1100	970
Selenium	µg/L	50 (MAC)	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	µg/L	NG	100	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sodium	µg/L	≤ 200,000 (AO)	200,000	21000	23000	25000	22000	18000	14000	14000	12000	13000	13000	35000	18000	18000	17000	16000	15000	12000	13000	9300	12000
Strontium	µg/L	NG	4400	62	46	34	44	43	84	260	96	110	120	180	170	160	140	120	89	60	70	27	51
Thallium	µg/L	NG	2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Tin	µg/L	NG	4400	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	µg/L	NG	NG	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Uranium	µg/L	20 (MAC)	20	0.20	0.16	0.25	0.16	<0.10	0.23	0.48	0.69	0.52	0.85	0.14	0.12	0.22	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	µg/L	NG	6.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Zinc	µg/L	≤5000 (AO)	5000	11	<5.0	<5.0	<5.0	<5.0	6.5	<5.0	<5.0	<5.0	<5.0	13	<5.0	<5.0	5.1	<5.0	5.9	5.8	5.3	<5.0	<5.0

Notes:

AO - Aesthetic Objective

MAC - Maximum Acceptable Concentration

NG - no guideline

value

value

- exceeds Health Canada DWQG

- exceeds NSE EOS

<sup>1</sup> 2017 Health Canada Canadian Water Quality Guidelines for Community (Drinking) Water (HCDWQ )  
<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EQS) for potable water at a residential site with coarse-grained soil  
<sup>3</sup> For municipal treatment systems only



TABLE 2: METALS in Groundwater (Monitoring Wells)  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	Health Canada Drinking Water Guidelines <sup>1</sup>	NSE Tier 1 EOS <sup>2</sup>	SAMPLE ID																		
				MW10						MW11					MW12							
				20-Mar-16	MW-DUP 20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	26-Apr-17	4-Nov-05	20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	26-Apr-17	4-Nov-05	20-Mar-16	Lab-Dup 20-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	26-Apr-17
Aluminum	µg/L	100 <sup>3</sup>	NG	75	55	75	300	730	460	24	140	30	30	68	34	47	140	150	89	74	51	53
Antimony	µg/L	6 (MAC)	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	µg/L	10 (MAC)	10	5.0	4.8	8.9	4.6	11	5.2	<2	<1.0	<1.0	<1.0	<1.0	<1.0	49	6.5	6.4	30	1.2	1.1	1.5
Barium	µg/L	1000 (MAC)	1000	91	88	40	110	46	38	46	32	9.2	7.7	23	19	81	32	32	48	49	26	15
Beryllium	µg/L	NG	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bismuth	µg/L	NG	NG	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Boron	µg/L	5000 (MAC)	5000	95	95	<50	130	<50	62	27	<50	<50	<50	<50	<50	120	<50	<50	<50	<50	<50	<50
Cadmium	µg/L	5 (MAC)	5	<0.010	0.017	0.038	0.18	0.16	<0.10 (1)	<0.3	0.087	0.045	0.050	0.23	0.17	<0.3	0.056	0.061	<0.010	0.24	0.056	0.015
Calcium	µg/L	NG	NG	73000	73000	59000	39000	24000	37000	34000	16000	6400	5900	27000	18000	14000	5200	5200	7700	5400	3800	2200
Chromium	µg/L	50 (MAC)	50	<1.0	<1.0	1.7	1.7	2.1	1.4	<2	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	2.0	1.9	2.9	<1.0	<1.0	1.1
Cobalt	µg/L	NG	10	19	19	52	14	11	9.7	15	1.3	1.1	0.93	1.9	1.5	56	13	13	28	31	12	7.2
Copper	µg/L	≤1000 (AO)	NG	4.4	4.3	2.0	42	24	8.0	3.0	3.2	<2.0	<2.0	2.1	<2.0	4.0	5.6	5.7	<2.0	33	2.1	<2.0
Iron	µg/L	≤300 (AO)	NG	290	190	7400	1300	6700	12000	260	<50	<50	<50	<50	<50	63000	46000	45000	84000	82	15000	12000
Lead	µg/L	-	10	<0.50	<0.50	<0.50	1.1	2.6	2.0	<0.5	<0.50	<0.50	<0.50	<0.50	<0.50	<0.5	0.58	<0.50	<0.50	<0.50	<0.50	<0.50
Lead (Total)	µg/L	10 (MAC)	NG	2.8	3.9	0.76	23	5.0	5.3	-	70	44	100	40	52	-	2.2	-	19	38	36	9.4
Magnesium	µg/L	NG	NG	25000	25000	18000	6100	2800	4400	16000	4400	3000	3100	8600	7700	4.5	1600	1600	2400	1800	1000	640
Manganese	µg/L	≤50 (AO)	NG	5200	5200	19000	4300	1600	1500	1300	3900	1100	970	8400	5200	2900	880	870	1400	1300	680	420
Mercury	µg/L	1 (MAC)	1	<0.013	<0.013	<0.013	<0.013	0.033	0.017	-	0.75	0.83	0.83	0.36	0.11	-	<0.013	-	0.028	0.020	0.017	<0.013
Molybdenum	µg/L	NG	70	2.4	2.4	<2.0	<2.0	<2.0	<2.0	<2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Nickel	µg/L	NG	100	12	12	12	7.7	7.6	6.7	12	<2.0	<2.0	<2.0	<2.0	<2.0	19	3.4	3.1	8.6	15	5.5	3.5
Phosphorus	µg/L	NG	NG	<100	<100	100	<100	140	150	<100	270	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	NG	NG	48000	48000	9300	41000	30000	23000	6400	1100	810	810	930	810	17000	2500	2600	3900	4500	2600	2400
Selenium	µg/L	50 (MAC)	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<2	<1.0	<1.0	<1.0	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	µg/L	NG	100	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sodium	µg/L	≤ 200,000 (AO)	200,000	77000	78000	16000	57000	29000	22000	36000	8500	12000	11000	12000	12000	32000	14000	13000	12000	9400	14000	14000
Strontium	µg/L	NG	4400	350	350	330	160	83	120	280	57	46	45	74	80	220	46	45	64	50	40	23
Thallium	µg/L	NG	2	<0.10	<0.10	<0.10	0.12	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Tin	µg/L	NG	4400	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	µg/L	NG	NG	2.5	2.5	<2.0	7.7	23	17	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Uranium	µg/L	20 (MAC)	20	1.8	2.1	0.22	0.60	0.55	0.45	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	0.3	0.21	0.21	0.37	0.30	0.20	0.26
Vanadium	µg/L	NG	6.2	<2.0	<2.0	<2.0	<2.0	5.6	4.6	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.9	<2.0	<2.0	<2.0
Zinc	µg/L	≤5000 (AO)	5000	8.3	7.5	15	47	110	18	25.0	20	<5.0	<5.0	5.4	<5.0	27	38	36	13	110	17	10

Notes:

AO - Aesthetic Objective

MAC - Maximum Acceptable Concentration

NG - no guideline

value

value

- exceeds Health Canada DWQG

- exceeds NSE EOS

<sup>1</sup> 2017 Health Canada Canadian Water Quality Guidelines for Community (Drinking) Water (HCDWQ )  
<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EQS) for potable water at a residential site with coarse-grained soil  
<sup>3</sup> For municipal treatment systems only

TABLE 3: GENERAL CHEMISTRY in Surface Water  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	CCME FAL <sup>1</sup>	NSE Tier 1 EOS <sup>2</sup>	SAMPLE ID																							
				SW1					SW2					SW3													
				2-Feb-16	Lab Dup 2-Feb-16	14-Mar-16	15-Jul-16	31-Oct-16	31-Jan-17	26-Apr-17	2-Feb-16	14-Mar-16	14-Jul-16	31-Oct-16	Lab-DUP 1-Nov-16	30-Jan-17	25-Apr-17	2-Feb-16	Lab Dup 2 Feb-16	14-Mar-16	Lab Dup 14-Mar-16	15-Jul-16	Lab Dup 15-Jul-16	1-Nov-16	30-Jan-17	25-Apr-17	Lab-DUP 25-Apr-17
Field pH	pH	6.5-9.0	NG	3.64	-	4.54	DRY	4.88	5.79	5.36	6.55	5.47	4.96	4.49	-	4.78	4.6	6.29	-	5.77	-	6.35	-	4.81	5.28	5.81	-
Field Conductivity	uS/cm	NG	NG	63	-	83		197	71	52	46	38	56	155	-	65	43	93	-	93	-	115	-	312	107	86	-
Field Temperature	°C	NG	NG	2.85	-	3.24		9.35	2.02	6.77	2.91	3.41	13.29	10.23	-	3.36	5.58	2.56	-	5.03	-	16.76	-	9.02	2.21	9.94	-
Field Dissolved Oxygen	mg/L	varies <sup>3</sup>	NG	12.44	-	12.7		5.55	22.61	11.35	10.48	10.19	7.5	5.1	-	11.5	9.08	10.27	-	13.53	-	5.77	-	4.93	12.69	8.87	-
Anion Sum	me/L	NG	NG	0.790	-	0.630	DRY	1.31	0.420	0.520	0.530	0.440	0.460	0.780	-	0.380	0.420	1.50	-	1.46	-	1.35	-	2.53	1.01	1.19	-
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	<1.0	-	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	39	-	39	-	32	-	9.3	24	31	-
Calculated TDS	mg/L	NG	NG	57	-	49		100	35	42	42	37	43	63	-	30	33	99	-	95	-	98	-	180	70	76	-
Carb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	<1.0	-	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	-	<1.0	-	<1.0	-	<1.0	<1.0	<1.0	-
Carbanaceous BOD	mg/L	NG	NG	<5.0	-	-		-	-	-	<5.0	-	-	-	-	-	-	<5.0	-	-	-	-	-	-	-	-	-
Cation Sum	me/L	NG	NG	0.870	-	0.780		1.56	0.620	0.690	0.720	0.640	0.720	1.14	-	0.530	0.580	1.68	-	1.66	-	1.57	-	2.29	1.20	1.33	-
Colour	TCU	Narrative	NG	510	590	610		1000	400	580 (1)	310	260	390	390	400	180	220 (1)	460	-	410	-	380	-	150	330	430 (1)	-
Conductivity	uS/cm	NG	NG	98	-	79		170	75	79	72	60	74	120	-	65	69	150	-	140	140	130	-	280	110	120	-
Chloride (Cl)	mg/L	120	NG	24	24	18		23	15	16	16	13	14	18	19	13	15	22	-	21	-	16	-	20	16	18	-
Sulphate (SO4)	mg/L	NG	NG	5.5	5.3	5.4		32	<2.0	3.4	3.3	2.5	3.4	13	13	<2.0	<2.0	3.6	-	3.3	-	12	-	85	2.8	3.3	-
Hardness (CaCO3)	mg/L	NG	NG	5.3	-	4.0		15	3.9	4.9	5.2	6.3	11	21	-	7.2	8.4	25	-	26	-	24	-	59	24	27	-
Ion Balance (% Difference)	%	NG	NG	4.82	-	10.6		8.71	19.2	14.1	15.2	18.5	22.0	18.8	-	16.5	16.0	5.66	-	6.41	-	7.53	-	4.98	8.60	5.56	-
Langelier Index (@ 20C)	N/A	NG	NG	NC	-	NC		NC	NC	NC	NC	NC	NC	NC	-	NC	NC	-2.19	-	-1.88	-	-2.38	-	-3.19	-2.62	-2.27	-
Langelier Index (@ 4C)	N/A	NG	NG	NC	-	NC		NC	NC	NC	NC	NC	NC	NC	-	NC	NC	-2.45	-	-2.13	-	-2.63	-	-3.44	-2.87	-2.52	-
Nitrate (N)	mg/L	3	NG	0.056	-	0.051		<0.050	<0.050	0.077	0.065	0.13	0.057	<0.050	-	<0.050	0.067	0.18	-	0.17	-	0.18	-	0.084	0.087	0.092	-
Nitrate + Nitrite	mg/L	NG	NG	0.056	0.057	0.051		<0.050	<0.050	0.077	0.065	0.13	0.057	<0.050	<0.050	<0.050	0.067	0.18	-	0.17	-	0.18	-	0.084	0.087	0.092	-
Nitrite (N)	mg/L	0.06	NG	<0.010	<0.010	<0.010		<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	-	<0.010	-	<0.010	-	<0.010	<0.010	<0.010	-
Nitrogen (Ammonia Nitrogen)	mg/L	Varies <sup>4</sup>	NG	<0.050	-	0.17		<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	<0.050	0.14	-	0.11	-	0.12	-	<0.050	0.091	0.093	-
Orthophosphate (P)	mg/L	NG	NG	0.031	0.032	0.028		0.033	0.017	0.020	0.030	0.023	0.023	0.018	0.017	0.013	0.014	0.044	-	0.033	-	0.058	-	0.028	0.026	0.028	-
Phenol	mg/L	0.004	0.004	0.0085 (2)	-	<0.0005		-	-	-	0.0026 (3)	-	-	-	-	-	-	0.0052 (3)	-	<0.0025	-	-	-	-	-	-	-
pH	pH	6.5-9.0	NG	5.38	-	5.61		4.67	5.05	5.41	5.89	5.86	5.98	5.07	-	5.08	5.43	6.74	-	7.04	7.05	6.65	-	6.03	6.53	6.72	-
Phosphorous	mg/L	Framework <sup>5</sup>	NG	0.072	-	-		-	-	-	0.069	-	-	-	-	-	-	0.13	0.13	-	-	-	-	-	-	-	-
Reactive Silica (SiO2)	mg/L	NG	NG	5.1	5.1	5.2		7.9	4.7	5.6	4.6	4.5	9.8	7.8	7.8	4.4	5.8	7.0	-	5.4	-	11	-	14	7.8	4.5	-
Saturation pH (@ 20C)	N/A	NG	NG	NC	-	NC		NC	NC	NC	NC	NC	NC	NC	-	NC	NC	8.94	-	8.92	-	9.03	-	9.22	9.15	8.98	-
Saturation pH (@ 4C)	N/A	NG	NG	NC	-	NC		NC	NC	NC	NC	NC	NC	NC	-	NC	NC	9.19	-	9.17	-	9.28	-	9.47	9.40	9.23	-
Total Alkalinity (Total as CaCO3)	mg/L	NG	NG	<5.0	<5.0	<5.0		<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	39	-	39	-	32	-	9.3	24	31	-
Tannins/Lignins	mg/L	NG	NG	7.4	-	-		-	-	-	4.7	-	-	-	-	-	-	6.2	-	-	-	-	-	-	-	-	-
Total Chemical Oxygen Demand	mg/L	NG	NG	110	-	-		-	-	-	72	-	-	-	-	-	-	110	-	-	-	-	-	-	-	-	-
Total Kjeldahl Nitrogen	mg/L	NG	NG	3.4 (4)	-	-		-	-	-	2.0 (4)	-	-	-	-	-	-	2.9 (4)	-	-	-	-	-	-	-	-	-
Total Organic Carbon (C)	mg/L	NG	NG	21 (2)	-	21 (1)		55 (1)	19 (1)	20 (1)	12 (2)	15 (1)	20 (1)	34 (1)	-	12 (1)	13 (1)	22 (2)	-	22 (1)	-	30 (1)	-	19 (1)	18 (1)	33 (1)	33 (1)
Total Suspended Solids	mg/L	NG	NG	<1.0	-	-		<1.0	3.8	28	3.2	-	2	<2.0	-	3.2	<2.0	26	-	-	-	380	360	220	13	370	-
Turbidity	NTU	Narrative	NG	6.0	-	4.2		5.2	1.8	5.1	3.9	2.8	6.5	7.7	7.8	1.6	2.9	11	-	21	-	37	-	160	5.3	17	-

Notes:

NG - no guideline

value	- exceeds CCME guidelines
value	- exceeds NSE EOS

(1) Elevated reporting limit due to sample matrix.

(2) Reporting limit was increased due to turbidity.

(3) The sample was decanted due to sediment.

(4) Elevated reporting limit due to blank performance.

<sup>3</sup> 1999 (Update 2015) CCME Canadian Water Quality Guidelines for the Protection of Freshwater Aquatic Life.

<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EOS) for fresh water surface water

<sup>3</sup> Lowest acceptable dissolved oxygen concentration:

- for warm water biota: early life stages = 6 mg/L
- for warm water biota: other life stages = 5.5 mg/L
- for cold water biota: early life stages = 9.5 mg/L
- for cold water biota: other life stages = 6.5 mg/L

<sup>4</sup> Ammonia - calculations as per [http://st-ts.ccme.ca/en/index.html?lang=en&factsheet=5#aql\\_fresh\\_concentration](http://st-ts.ccme.ca/en/index.html?lang=en&factsheet=5#aql_fresh_concentration).

<sup>5</sup> Canadian Guidance Framework for Phosphorus is for developing phosphorus guidelines ( does not provide guidance on other freshwater nutrients).

It provides Trigger Ranges for Total Phosphorus ( µg/L) (see Guidance Framework for Phosphorus factsheet):

- ultra-oligotrophic <4
- oligotrophic 4-10
- mesotrophic 10-20
- meso-eutrophic 20-35
- eutrophic 35-100
- hyper-eutrophic >100

TABLE 3: GENERAL CHEMISTRY in Surface Water  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	CCME FAL <sup>1</sup>	NSE Tier 1 EOS <sup>2</sup>	SAMPLE ID																						
				SW4						SW5						SW6						SW7				
				14-Mar-16	15-Jul-16	Lab Dup 15-Jul-16	31-Oct-16	31-Jan-17	26-Apr-17	14-Mar-16	14-Jul-16	1-Nov-16	30-Jan-17	25-Apr-17	Lab-DUP 25-Apr-17	14-Mar-16	15-Jul-16	31-Oct-16	Lab-DUP 1-Nov-16	31-Jan-16	26-Apr-17	14-Mar-16	14-Jul-16	31-Oct-16	30-Jan-17	25-Apr-17
Field pH	pH	6.5-9.0	NG	5.42	6.19	-	5.35	5.85	6.17	6.8	6.06	4.97	5.42	5.33	-	7.22	DRY	5.56	-	5.77	6.14	5.19	6.43	4.7	6.23	5.49
Field Conductivity	uS/cm	NG	NG	143	236	-	577	112	115	139	144	245	102	77	-	990		246	-	120	86	36	61	140	62	42
Field Temperature	°C	NG	NG	4.36	15.32	-	10.11	2.4	8.35	4.4	19.4	7.74	2.17	9.65	-	7.24		10.14	-	1.52	10.02	3.59	14.85	9.96	3.02	5.72
Field Dissolved Oxygen	mg/L	varies <sup>3</sup>	NG	12.17	10.2	-	5.74	21.46	10.95	9.7	7.07	5.2	16.65	13.21	-	14.5		6.9	-	24.15	11.49	10.19	8.4	7.54	12.96	11.19
Anion Sum	me/L	NG	NG	1.21	2.82	-	4.41	0.870	1.41	1.30	1.46	1.96	0.830	1.02	-	1.43	DRY	1.79	-	1.05	1.07	0.410	0.550	0.760	0.380	0.450
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	<1.0	27	-	7.7	<1.0	9.2	34	41	10	19	24	-	25		10	-	16	16	<1.0	5.8	<1.0	<1.0	<1.0
Calculated TDS	mg/L	NG	NG	80	170	-	280	60	89	85	100	140	59	61	-	89		120	-	70	64	34	48	64	29	35
Carb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0		<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbanaceous BOD	mg/L	NG	NG	-	-	-	-	-	-	-	-	-	-	-	-	-	DRY	-	-	-	-	-	-	-	-	-
Cation Sum	me/L	NG	NG	1.32	2.93	-	5.01	1.05	1.52	1.46	1.96	1.91	1.05	1.12	-	1.51		1.78	-	1.22	1.10	0.590	0.790	1.16	0.510	0.550
Colour	TCU	Narrative	NG	420	31	-	11	230	220 (1)	360	400	120	270	320 (1)	-	230		38	-	160	110 (1)	250	320	400	180	240 (1)
Conductivity	uS/cm	NG	NG	130	280	-	490	130	170	130	150	220	100	110	-	140		210	-	130	120	58	74	120	64	69
Chloride (Cl)	mg/L	120	NG	40	77	-	140	30	40	19	20	15	16	17	-	29	20	-	25	24	13	13	18	13	14	
Sulphate (SO4)	mg/L	NG	NG	3.4	5.3	-	21	<2.0	3.5	2.9	3.5	63	<2.0	2.6	-	3.1	49	-	<2.0	3.0	2.5	3.6	13	<2.0	2.1	
Hardness (CaCO3)	mg/L	NG	NG	12	44	-	76	11	17	23	34	49	21	23	-	22	36	-	21	15	5.3	13	23	7.0	8.5	
Ion Balance (% Difference)	%	NG	NG	4.35	1.91	-	6.37	9.38	3.75	5.80	14.6	1.29	11.7	4.67	-	2.72	0.280	-	7.49	1.38	18.0	17.9	20.8	14.6	10.0	
Langelier Index (@ 20C)	N/A	NG	NG	NC	-1.82	-	-2.85	NC	-3.35	-2.03	-1.28	-3.05	-2.76	-2.28	-	-1.97	-2.61	-	-2.46	-2.58	NC	-3.91	NC	NC	NC	
Langelier Index (@ 4C)	N/A	NG	NG	NC	-2.07	-	-3.10	NC	-3.61	-2.29	-1.53	-3.30	-3.02	-2.53	-	-2.22	-2.86	-	-2.71	-2.83	NC	-4.16	NC	NC	NC	
Nitrate (N)	mg/L	3	NG	0.31	0.084	-	0.14	0.41	0.41	0.35	0.095	0.23	0.19	<0.050	-	0.31	0.062	-	0.21	0.096	<0.050	<0.050	0.062	<0.050	0.057	
Nitrate + Nitrite	mg/L	NG	NG	0.31	0.084	-	0.14	0.41	0.41	0.35	0.095	0.23	0.19	<0.050	-	0.31	0.062	-	0.21	0.096	<0.050	<0.050	0.062	<0.050	0.057	
Nitrite (N)	mg/L	0.06	NG	<0.010	<0.010	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	-	<0.010	<0.010	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Nitrogen (Ammonia Nitrogen)	mg/L	Varies <sup>4</sup>	NG	<0.050	0.068	-	0.10	<0.050	<0.050	0.078	<0.050	<0.050	<0.050	<0.050	<0.050	0.058	<0.050	-	<0.050	<0.050	0.14	<0.050	<0.050	<0.050	<0.050	
Orthophosphate (P)	mg/L	NG	NG	0.018	0.011	-	0.012	0.013	0.011	0.032	0.030	0.014	0.020	0.015	-	0.022	0.013	-	0.018	0.011	0.016	0.020	0.017	0.011	0.011	
Phenol	mg/L	0.004	0.004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
pH	pH	6.5-9.0	NG	6.00	7.13	-	6.43	5.82	6.43	7.00	7.52	6.19	6.55	6.88	-	7.21	6.75	-	6.93	6.94	6.16	6.21	5.29	5.54	5.52	
Phosphorous	mg/L	Framework <sup>5</sup>	NG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	<100	-	-	-	-	-	-	-	
Reactive Silica (SiO2)	mg/L	NG	NG	5.1	6.8	-	8.2	4.7	3.9	5.4	6.6	9.5	7.1	0.69	-	4.7	7.5	-	6.4	2.3	4.6	11	8.3	4.5	6.1	
Saturation pH (@ 20C)	N/A	NG	NG	NC	8.96	-	9.28	NC	9.78	9.03	8.79	9.24	9.32	9.16	-	9.18	9.36	-	9.39	9.52	NC	10.1	NC	NC	NC	
Saturation pH (@ 4C)	N/A	NG	NG	NC	9.21	-	9.53	NC	10.0	9.28	9.05	9.49	9.57	9.41	-	9.43	9.62	-	9.64	9.77	NC	10.4	NC	NC	NC	
Total Alkalinity (Total as CaCO3)	mg/L	NG	NG	<5.0	27	-	7.7	<5.0	9.2	34	41	10	19	24	-	26	10	-	16	16	<5.0	5.8	<5.0	<5.0	<5.0	
Tannins/Lignins	mg/L	NG	NG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Chemical Oxygen Demand	mg/L	NG	NG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Kjeldahl Nitrogen	mg/L	NG	NG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Total Organic Carbon (C)	mg/L	NG	NG	14 (1)	6.7	-	9.8 (1)	11 (1)	12 (1)	19 (1)	30 (1)	13 (1)	22 (1)	23 (1)	-	13 (1)	8.9	9.1	14 (1)	11 (1)	14 (1)	19 (1)	31 (1)	13	12 (1)	
Total Suspended Solids	mg/L	NG	NG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Turbidity	NTU	Narrative	NG	2.7	49	47	40	1.3	4.0	13	12	3.5	6.2	9.2	-	4.7	1.9	-	1.6	6.3	2.0	3.4	1.6	1.1	1.1	

Notes:  
NG - no guideline

value

- exceeds CCME guidelines

value

- exceeds NSE EOS

- (1) Elevated reporting limit due to sample matrix.
- (2) Reporting limit was increased due to turbidity.
- (3) The sample was decanted due to sediment.
- (4) Elevated reporting limit due to blank performance.

<sup>3</sup> 1999 (Update 2015) CCME Canadian Water Quality Guidelines for the Protection of Freshwater Aquatic Life.

<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EQS) for fresh water surface water

<sup>3</sup> Lowest acceptable dissolved oxygen concentration:  
for warm water biota: early life stages = 6 mg/L  
for warm water biota: other life stages = 5.5 mg/L  
for cold water biota: early life stages = 9.5 mg/L  
for cold water biota: other life stages = 6.5 mg/L

<sup>4</sup> Ammonia - calculations as per [http://st-ts.ccme.ca/en/index.html?lang=en&factsheet=5#aql\\_fresh\\_concentration](http://st-ts.ccme.ca/en/index.html?lang=en&factsheet=5#aql_fresh_concentration).

<sup>5</sup> Canadian Guidance Framework for Phosphorus is for developing phosphorus guidelines ( does not provide guidance on other freshwater nutrients).

It provides Trigger Ranges for Total Phosphorus ( µg/L) (see Guidance Framework for Phosphorus factsheet):

- ultra-oligotrophic: <4
- oligotrophic 4-10
- mesotrophic 10-20
- meso-eutrophic 20-35
- eutrophic 35-100
- hyper-eutrophic >100

TABLE 3: GENERAL CHEMISTRY in Surface Water  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	CCME FAL <sup>1</sup>	NSE Tier 1 EQS <sup>2</sup>	SAMPLE ID																						
				SW8					SW9										SW10							
				14-Mar-16	14-Jul-16	1-Nov-16	30-Jan-17	25-Apr-17	14-Mar-16	SW-DUP 14-Mar-16	14-Jul-16	SW-DUP1 14-Jul-16	31-Oct-16	SW-DUP1 31-Oct-16	30-Jan-17	Lab-Dup 30-Jan-17	SW-DUP1 30-Jan-17	Lab-Dup SW-DUP1	25-Apr-17	SW-DUP1 25-Apr-17	16-Mar-16	Lab Dup 16-Mar-16	14-Jul-16	1-Nov-16	30-Jan-17	25-Apr-17
Field pH	pH	6.5-9.0	NG	6.75	DRY	DRY	4.25	5.19	6.99	-	6.71	-	5.64	-	4.66	-	-	5.99	-	3.25	-	DRY	DRY	3.53	DRY	
Field Conductivity	uS/cm	NG	NG	69			63	62	232	-	347	-	367	-	82	-	-	-	106	-	37			-		81
Field Temperature	°C	NG	NG	9.83			0.69	11.96	6.27	-	17.45	-	9.32	-	1.32	-	-	-	13.98	-	3.37			-		3.46
Field Dissolved Oxygen	mg/L	varies <sup>3</sup>	NG	10.13			19.4	8.85	8.38	-	2.05	-	7.3	-	17.56	-	-	-	6.56	-	8.4			-		12.5
Anion Sum	me/L	NG	NG	1.05	DRY	DRY	0.360	0.620	3.77	3.75	3.94	4.04	3.00	3.05	0.810	-	0.750	-	1.20	1.19	0.280	-	DRY	DRY	0.350	DRY
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	34			<1.0	6.6	130	130	150	150	55	56	25	-	25	-	35	34	<1.0	-			<1.0	
Calculated TDS	mg/L	NG	NG	63			29	38	590	280	250	240	200	200	50	-	48	-	180	210	20	-			25	
Carb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	<1.0			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	-	<1.0	<1.0	<1.0	-			<1.0	
Carbanaceous BOD	mg/L	NG	NG	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-			-	
Cation Sum	me/L	NG	NG	1.28			0.640	0.740	18.3	6.14	4.90	4.60	3.17	3.22	0.940	-	0.970	-	5.28	6.41	0.320	-			0.490	
Colour	TCU	Narrative	NG	290			190	200 (1)	880	780	490	560	540	520	150	-	150	-	350 (1)	340 (1)	190	-			220	
Conductivity	uS/cm	NG	NG	100			66	79	380	380	390	390	310	310	94	-	91	-	130	130	54	-			77	
Chloride (Cl)	mg/L	120	NG	11			13	14	27	28	34	37	48	49	9.1	-	8.7	-	17	17	9.8	-			12	
Sulphate (SO4)	mg/L	NG	NG	2.2			<2.0	4.1	13	12	<2.0	<2.0	27	27	2.1	-	<2.0	-	<2.0	<2.0	<2.0	-			<2.0	
Hardness (CaCO3)	mg/L	NG	NG	37			15	17	280	110	110	100	41	43	20	-	21	-	100	130	4.1	-			5.3	
Ion Balance (% Difference)	%	NG	NG	9.87			28.0	8.82	65.8	24.2	10.9	6.48	2.76	2.71	7.43	-	12.8	-	63.0	68.7	6.67	-			16.7	
Langelier Index (@ 20C)	N/A	NG	NG	-1.51			NC	-3.64	0.134	-0.397	-0.434	-0.414	-2.30	-2.22	-2.11	-	-2.25	-	-1.44	-1.33	NC	-			NC	
Langelier Index (@ 4C)	N/A	NG	NG	-1.77			NC	-3.89	-0.113	-0.646	-0.683	-0.663	-2.55	-2.47	-2.36	-	-2.50	-	-1.69	-1.58	NC	-			NC	
Nitrate (N)	mg/L	3	NG	<0.050			<0.050	<0.050	0.12	0.23	0.052	0.062	<0.050	<0.050	<0.050	-	<0.050	-	0.099	0.15	0.051	-			<0.050	
Nitrate + Nitrite	mg/L	NG	NG	<0.050			<0.050	<0.050	0.12	0.23	0.052	0.062	<0.050	<0.050	<0.050	-	<0.050	-	0.099	0.15	0.051	-			<0.050	
Nitrite (N)	mg/L	0.06	NG	<0.010			<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	-	<0.010	-	<0.010	<0.010	<0.010	-			<0.010	
Nitrogen (Ammonia Nitrogen)	mg/L	Varies <sup>4</sup>	NG	<0.050			<0.050	<0.050	0.20	0.16	0.60	0.67	0.055	0.10	<0.050	<0.050	-	0.13	0.19	<0.050	<0.050	<0.050				
Orthophosphate (P)	mg/L	NG	NG	0.31			0.012	0.013	0.33	0.17	0.061	0.068	0.074	0.073	0.040	-	0.041	-	0.11	0.099	0.012	-			0.010	
Phenol	mg/L	0.004	0.004	-			-	-	<0.0025	<0.0005	-	-	-	-	-	-	-	-	-	-	-	-				
pH	pH	6.5-9.0	NG	7.24			5.58	6.22	7.64	7.44	7.37	7.41	6.36	6.40	7.05	-	6.90	-	6.97	6.98	5.31	-			4.10	
Phosphorous	mg/L	Framework <sup>5</sup>	NG	-			-	-	-	-	-	-	-	290	-	-	-	-	-	-	-	-				
Reactive Silica (SiO2)	mg/L	NG	NG	0.56			2.4	<0.50	3.5	2.1	7.9	7.9	8.1	7.9	1.1	-	1.1	-	0.79	0.80	3.5	-			3.9	
Saturation pH (@ 20C)	N/A	NG	NG	8.76			NC	9.86	7.51	7.84	7.80	7.82	8.65	8.62	9.16	-	9.15	-	8.40	8.31	NC	-			NC	
Saturation pH (@ 4C)	N/A	NG	NG	9.01			NC	10.1	7.75	8.09	8.05	8.07	8.90	8.87	9.41	-	9.40	-	8.65	8.56	NC	-			NC	
Total Alkalinity (Total as CaCO3)	mg/L	NG	NG	34			<5.0	6.6	140	130	150	150	55	56	25	-	25	-	35	34	<5.0	-			<5.0	
Tannins/Lignins	mg/L	NG	NG	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Total Chemical Oxygen Demand	mg/L	NG	NG	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Total Kjeldahl Nitrogen	mg/L	NG	NG	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Total Organic Carbon (C)	mg/L	NG	NG	15 (1)			19	17 (1)	72 (1)	41 (1)	43 (1)	49 (1)	28 (1)	29 (1)	18 (1)	-	13 (2)	13 (2)	39 (2)	<50 (2)	16 (1)	-			22 (1)	
Total Suspended Solids	mg/L	NG	NG	-			-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Turbidity	NTU	Narrative	NG	16			2.5	87	170	>1000	55	64	19	27	13	-	33	-	120	120	110	-			1.4	

Notes:  
NG - no guideline

value

- exceeds CCME guidelines

value

- exceeds NSE EQS

- (1) Elevated reporting limit due to sample matrix.
- (2) Reporting limit was increased due to turbidity.
- (3) The sample was decanted due to sediment.
- (4) Elevated reporting limit due to blank performance.

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for cold water biota: early life stages = 9.5 mg/L  
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TABLE 3: GENERAL CHEMISTRY in Surface Water  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	CCME FAL <sup>1</sup>	NSE Tier 1. EOS <sup>2</sup>	SAMPLE ID																								
				SW11					SW12					SW13					SW14					SW15				
				16-Mar-16	14-Jul-16	1-Nov-16	Lab-DUP 1-Nov-16	30-Jan-17	25-Apr-17	16-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	26-Apr-17	14-Jul-16	31-Oct-16	30-Jan-17	25-Apr-17	15-Jul-16	Lab Dup 15 Jul-16	31-Oct-16	31-Jan-17	26-Apr-17	15-Jul-16	31-Oct-16	31-Jan-17	26-Apr-17	
Field pH	pH	6.5-9.0	NG	4.26	DRY	3.73	-	4.17	4.32	4.88	DRY	DRY	FROZEN	4.65	4.7	3.99	7.42	5.9	5.87	-	5.52	6.04	6.07	No Access	5.49	5.81	5.8	
Field Conductivity	uS/cm	NG	NG	54		189	-	70	33	25				41	50	126	58	32	175	-	372	110	98		251	141	111	
Field Temperature	°C	NG	NG	2.98		9.51	-	3.13	5.15	4.26				10.02	18.81	9.5	1.3	10.76	16.48	-	9.64	1.93	8.05		9.11	2.43	7.77	
Field Dissolved Oxygen	mg/L	varies <sup>3</sup>	NG	9.92		4.92	-	14.6	7.35	11.32				4.4	4.89	3.87	18.9	10.99	4.43	-	7.17	21.19	11.74		5.27	20.86	10.82	
Anion Sum	me/L	NG	NG	0.660	DRY	1.35	-	0.380	0.560	0.280	DRY	DRY	FROZEN	0.400	0.370	0.470	0.270	0.280	1.88	-	2.87	0.770	1.20	No Access	2.00	1.19	1.52	
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	<1.0		<1.0	-	<1.0	<1.0	<1.0				<1.0	<1.0	<1.0	<1.0	<1.0	9.4	-	5.5	<1.0	6.4		6.7	<1.0	5.3	
Calculated TDS	mg/L	NG	NG	50		100	-	32	43	21				32	34	43	17	18	110	-	170	55	76		120	75	89	
Carb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	<1.0		<1.0	-	<1.0	<1.0	<1.0				<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	
Carbanaceous BOD	mg/L	NG	NG	-		-	-	-	-	-				-	-	-	-	-	-	-	-	-	-		-	-	-	
Cation Sum	me/L	NG	NG	0.780		1.51	-	0.580	0.670	0.350				0.650	0.550	0.790	0.370	0.370	1.81	-	2.55	0.960	1.28		1.86	1.26	1.40	
Colour	TCU	Narrative	NG	740		1100	-	440	720 (1)	220				530 (1)	420	320	19	43	61	-	66	190	200 (1)		16	10	10	
Conductivity	uS/cm	NG	NG	84		170	170	72	82	36				63	66	100	45	45	200	-	310	120	150		210	150	170	
Chloride (Cl)	mg/L	120	NG	19		22	-	14	16	9.7				14	13	15	9.5	9.8	55	-	81	26	35		56	39	46	
Sulphate (SO4)	mg/L	NG	NG	5.5		33	-	<2.0	4.6	<2.0				<2.0	<2.0	2.1	<2.0	<2.0	6.0	-	22	<2.0	3.4		14	4.6	5.5	
Hardness (CaCO3)	mg/L	NG	NG	3.2		12	-	2.3	3.4	4.5				7.4	4.9	12	5.6	5.6	23	-	41	9.6	13		44	18	22	
Ion Balance (% Difference)	%	NG	NG	8.33		5.59	-	20.8	8.94	11.1				23.8	19.6	25.4	15.6	13.9	1.90	-	5.90	11.0	3.23		3.63	2.86	4.11	
Langelier Index (@ 20C)	N/A	NG	NG	NC		NC	-	NC	NC	NC				NC	NC	NC	NC	NC	-3.49	-	-3.50	NC	-3.78		-3.44	NC	-3.95	
Langelier Index (@ 4C)	N/A	NG	NG	NC		NC	-	NC	NC	NC				NC	NC	NC	NC	NC	-3.74	-	-3.75	NC	-4.03		-3.69	NC	-4.20	
Nitrate (N)	mg/L	3	NG	0.069		0.37	-	<0.050	0.11	<0.050				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	0.29	0.32		<0.050	<0.050	0.056	
Nitrate + Nitrite	mg/L	NG	NG	0.069		0.37	-	<0.050	0.11	<0.050				<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	-	<0.050	0.29	0.32		<0.050	<0.050	0.056	
Nitrite (N)	mg/L	0.06	NG	<0.010		<0.010	-	<0.010	<0.010	<0.010				<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	-	<0.010	<0.010	<0.010		<0.010	<0.010	<0.010	
Nitrogen (Ammonia Nitrogen)	mg/L	Varies <sup>4</sup>	NG	0.061		0.076	-	<0.050	<0.050	<0.050				0.23	0.065	0.091	<0.050	<0.050	0.11	0.13	<0.050	<0.050	<0.050		<0.050	<0.050	<0.050	
Orthophosphate (P)	mg/L	NG	NG	0.029		0.035	-	0.016	0.020	0.011				0.015	0.015	0.014	<0.010	<0.010	0.011	-	0.013	0.011	0.010		0.012	<0.010	<0.010	
Phenol	mg/L	0.004	0.004	-		-	-	-	-	-				-	-	-	-	-	-	-	-	-	-		-	-	-	
pH	pH	6.5-9.0	NG	4.94		4.40	4.36	5.12	5.07	5.20				4.70	4.98	4.93	6.05	6.29	6.22	-	6.22	5.93	6.28		6.10	5.87	5.98	
Phosphorous	mg/L	Framework <sup>5</sup>	NG	-		-	-	-	-	-				-	-	<100	-	-	-	-	<100	-	-		<100	-	-	
Reactive Silica (SiO2)	mg/L	NG	NG	5.4		7.7	-	3.7	5.0	3.5				3.4	8.4	9.0	<0.50	0.61	5.8	-	8.6	4.9	4.0		7.6	4.6	4.3	
Saturation pH (@ 20C)	N/A	NG	NG	NC		NC	-	NC	NC	NC				NC	NC	NC	NC	NC	9.71	-	9.72	NC	10.1		9.54	NC	9.93	
Saturation pH (@ 4C)	N/A	NG	NG	NC		NC	-	NC	NC	NC				NC	NC	NC	NC	NC	9.96	-	9.97	NC	10.3		9.79	NC	10.2	
Total Alkalinity (Total as CaCO3)	mg/L	NG	NG	<5.0		<5.0	-	<5.0	<5.0	<5.0				<5.0	<5.0	<5.0	<5.0	<5.0	9.4	-	5.5	<5.0	6.4		6.7	<5.0	5.3	
Tannins/Lignins	mg/L	NG	NG	-		-	-	-	-	-				-	-	-	-	-	-	-	-	-	-		-	-	-	
Total Chemical Oxygen Demand	mg/L	NG	NG	-		-	-	-	-	-				-	-	-	-	-	-	-	-	-	-		-	-	-	
Total Kjeldahl Nitrogen	mg/L	NG	NG	-		-	-	-	-	-				-	-	-	-	-	-	-	-	-	-		-	-	-	
Total Organic Carbon (C)	mg/L	NG	NG	27 (1)		58 (1)	-	20 (1)	25 (1)	16 (1)				34 (1)	23 (1)	31(1)	3.3	5.5	7.9	-	6.9	11 (1)	12 (1)		3.2	3.0	3.2	
Total Suspended Solids	mg/L	NG	NG	-		-	-	-	-	-				-	-	-	-	-	1.2	-	8.2	<1.0	25		-	-	-	
Turbidity	NTU	Narrative	NG	14		3.7	-	2.0	2.7	3.2				22	2.6	1.2	0.50	4.2	1.4	-	0.9	0.85	2.6		1.1	0.29	6.9	

Notes:  
NG - no guideline

value

- exceeds CCME guidelines

value

- exceeds NSE EOS

- (1) Elevated reporting limit due to sample matrix.  
(2) Reporting limit was increased due to turbidity.  
(3) The sample was decanted due to sediment.  
(4) Elevated reporting limit due to blank performance.

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Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	CCME FAL <sup>1</sup>	NSE Tier 1 EOS <sup>2</sup>	SAMPLE ID																									
				SW16					BACKGROUND					BACK2										P1A					
				15-Jul-16	2-Nov-16	31-Jan-17	Lab-Dup 30-Jan-17	26-Apr-17	16-Mar-16	14-Jul-16	1-Nov-16	30-Jan-17	25-Apr-17	14-Jul-16	SW-DUP2 14-Jul-16	Lab Dup 14-Jul-16	1-Nov-16	SW-DUP2 1-Nov-16	30-Jan-17	SW-DUP2 30-Jan-17	SW-DUP2 30-Jan-17	25-Apr-17	SW-DUP2 25-Apr-17	Lab Dup 25-Apr-17	19-Mar-16	15-Jul-16	1-Nov-16	30-Jan-17	25-Apr-17
Field pH	pH	6.5-9.0	NG		4.48	5.99	-	5.27	5.73	DRY	DRY	DRY	DRY	5.68	-	-	5.27	-	5.64	-	-	6.5	-	-	6.03	NR	4.92	4.88	5.24
Field Conductivity	uS/cm	NG	NG		124	73	-	56	33					73	-	-	137	-	73	-	-	62	-	-	78		291	111	88
Field Temperature	°C	NG	NG		8.27	0.91	-	7.08	5.19					18.12	-	-	9.14	-	3	-	-	10.29	-	-	6.33		10.24	3.18	8.77
Field Dissolved Oxygen	mg/L	varies <sup>3</sup>	NG		4.43	20.28	-	6.27	12.85					8.77	-	-	8.47	-	19.29	-	-	11.29	-	-	10.45		3.1	10.16	4.5
Anion Sum	me/L	NG	NG	No Access	0.670	0.540	-	0.700	0.320	DRY	DRY	DRY	DRY	0.810	0.770	-	1.27	1.46	0.520	0.510	-	0.640	0.580	-	1.07	0.820	2.13	0.900	1.11
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG		5.3	<1.0	-	5.3	<1.0					11	11	-	5.2	5.3	<1.0	<1.0	-	<1.0	<1.0	-	25	20	11	19	30
Calculated TDS	mg/L	NG	NG		46	40	-	46	22					60	58	-	87	93	37	38	-	43	40	-	110	210	160	61	85
Carb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG		<1.0	<1.0	-	<1.0	<1.0					<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0
Carbanaceous BOD	mg/L	NG	NG		-	-	-	-	-					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Cation Sum	me/L	NG	NG		0.8	0.740	-	0.820	0.330					0.870	0.850	-	1.23	1.2	0.610	0.620	-	0.750	0.760	-	2.82	7.23	2.40	0.980	1.87
Colour	TCU	Narrative	NG		120	110	-	140 (1)	46					230	220	230	99	85	90	89	93	130 (1)	120 (1)	130 (1)	470	340	400	400	540 (1)
Conductivity	uS/cm	NG	NG		90	83	83	88	49					91	87	87	140	160	78	77	-	88	89	89	110	95	240	100	120
Chloride (Cl)	mg/L	120	NG		16	19	-	21	11					16	15	15	26	34	18	18	18	21	21	21	17	13	22	16	16
Sulphate (SO4)	mg/L	NG	NG		5.4	<2.0	-	<2.0	<2.0					5.5	5.2	5.1	21.0	20.0	<2.0	<2.0	<2.0	2.2	<2.0	<2.0	3.7	2.4	61.0	2.5	2.5
Hardness (CaCO3)	mg/L	NG	NG		17	12	-	15	3.4					18	18	-	27	26	9.4	9.5	-	11	11	-	40	170	57	17	32
Ion Balance (% Difference)	%	NG	NG		8.84	15.6	-	7.89	1.54					3.57	4.94	-	1.60	9.77	7.96	9.73	-	7.91	13.4	-	45.0	79.6	5.96	4.26	25.5
Langelier Index (@ 20C)	N/A	NG	NG		-4.34	NC	-	-4.13	NC					-2.98	-3.00	-	-3.74	-4.16	NC	NC	-	NC	NC	-	-2.48	-2.22	-3.62	-3.17	-2.79
Langelier Index (@ 4C)	N/A	NG	NG		-4.60	NC	-	-4.39	NC					-3.23	-3.25	-	-3.99	-4.41	NC	NC	-	NC	NC	-	-2.73	-2.47	-3.87	-3.42	-3.04
Nitrate (N)	mg/L	3	NG		<0.050	<0.050	-	0.060	<0.050					0.30	0.31	-	<0.050	<0.050	0.084	0.11	-	<0.050	<0.050	-	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate + Nitrite	mg/L	NG	NG		<0.050	<0.050	-	0.060	<0.050					0.30	0.31	0.32	<0.050	<0.050	0.084	0.11	0.061	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050	
Nitrite (N)	mg/L	0.06	NG		<0.010	<0.010	-	<0.010	<0.010					<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	
Nitrogen (Ammonia Nitrogen)	mg/L	Varies <sup>4</sup>	NG		<0.050	<0.050	-	<0.050	0.078					0.085	<0.050	-	<0.050	0.061	<0.050	<0.050	-	<0.050	<0.050	-	0.22	1.1	0.37	0.18	0.26
Orthophosphate (P)	mg/L	NG	NG		0.011	0.011	-	0.011	0.011					0.025	0.024	0.024	0.015	0.015	0.011	0.011	<0.010	<0.010	<0.010	0.012	0.025	0.019	0.034	0.026	0.030
Phenol	mg/L	0.004	0.004		-	-	-	-	<0.0005					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
pH	pH	6.5-9.0	NG		5.72	5.63	5.63	5.94	5.70					6.76	6.75	6.78	6.2	5.78	5.49	5.32	-	6.16	5.86	5.96	6.43	6.15	5.56	6.24	6.13
Phosphorous	mg/L	Framework <sup>5</sup>	NG		<100	-	-	-	-					-	-	-	<100	<100	-	-	-	-	-	-	-	-	140	-	-
Reactive Silica (SiO2)	mg/L	NG	NG		4.9	4.5	-	4.0	4.1					12	12	12	12	12	6.0	6.0	6.0	2.9	2.6	2.7	5.6	8.9	15.0	7.8	2.8
Saturation pH (@ 20C)	N/A	NG	NG		10.1	NC	-	10.1	NC					9.74	9.74	-	9.94	9.94	NC	NC	-	NC	NC	-	8.91	8.37	9.18	9.41	8.92
Saturation pH (@ 4C)	N/A	NG	NG		10.3	NC	-	10.3	NC					9.99	10.0	-	10.2	10.2	NC	NC	-	NC	NC	-	9.16	8.62	9.43	9.66	9.17
Total Alkalinity (Total as CaCO3)	mg/L	NG	NG		5.3	<5.0	-	5.3	<5.0					11	11	10	5.2	5	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0	25	20	11	19	30
Tannins/Lignins	mg/L	NG	NG		-	-	-	-	-					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Chemical Oxygen Demand	mg/L	NG	NG		-	-	-	-	-					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Kjeldahl Nitrogen	mg/L	NG	NG		-	-	-	-	-					-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Total Organic Carbon (C)	mg/L	NG	NG		13 (1)	10	-	13 (2)	9.7					12 (1)	11 (1)	-	11	11	7.4	8.7	-	11	11	-	<50 (1)	120 (2)	33 (1)	34 (1)	52 (1)
Total Suspended Solids	mg/L	NG	NG		-	-	-	-	-					130	<5.0	-	<1.0	3.2	2.2	<1.0	-	<1.0	<1.0	-	-	-	-	-	-
Turbidity	NTU	Narrative	NG		1	0.54	-	14	0.25					16	7.0	-	0.78	2.0	1.2	1.1	-	0.75	1.2	1.4	330	>1000	17	7.6	47

Notes:  
NG - no guideline

value

- exceeds CCME guidelines

value

- exceeds NSE EOS

- (1) Elevated reporting limit due to sample matrix.  
(2) Reporting limit was increased due to turbidity.  
(3) The sample was decanted due to sediment.  
(4) Elevated reporting limit due to blank performance.

<sup>3</sup> 1999 (Update 2015) CCME Canadian Water Quality Guidelines for the Protection of Freshwater Aquatic Life.

<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EQS) for fresh water surface water

<sup>3</sup> Lowest acceptable dissolved oxygen concentration:  
for warm water biota: early life stages = 6 mg/L  
for warm water biota: other life stages = 5.5 mg/L  
for cold water biota: early life stages = 9.5 mg/L  
for cold water biota: other life stages = 6.5 mg/L

<sup>4</sup> Ammonia - calculations as per [http://st-ts.ccme.ca/en/index.html?lang=en&factsheet=5#aql\\_fresh\\_concentration](http://st-ts.ccme.ca/en/index.html?lang=en&factsheet=5#aql_fresh_concentration).

<sup>5</sup> Canadian Guidance Framework for Phosphorus is for developing phosphorus guidelines ( does not provide guidance on other freshwater nutrients).

It provides Trigger Ranges for Total Phosphorus ( µg/L) (see Guidance Framework for Phosphorus factsheet):

- ultra-oligotrophic: <4
- oligotrophic 4-10
- mesotrophic 10-20
- meso-eutrophic 20-35
- eutrophic 35-100
- hyper-eutrophic >100

TABLE 3: GENERAL CHEMISTRY in Surface Water  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	CCME FAL <sup>1</sup>	NSE Tier 1 EOS <sup>2</sup>	SAMPLE ID																					
				P1B						P2A					P2B					P3					
				19-Mar-16	Lab-Dup 19-Mar-16	14-Jul-16	1-Nov-16	30-Jan-17	Lab-Dup 30-Jan-17	25-Apr-17	19-Mar-16	14-Jul-16	1-Nov-16	30-Jan-17	25-Apr-17	19-Mar-16	14-Jul-16	1-Nov-16	30-Jan-17	25-Apr-17	19-Mar-16	14-Jul-16	1-Nov-16	30-Jan-17	25-Apr-17
Field pH	pH	6.5-9.0	NG	5.15	-	DRY	4.91	4.79	-	4.74	6.5	DRY	DRY	5.14	5.82	6.03	DRY	5.18	4.73	5.9	6.64	NR	5.21	4.55	5.46
Field Conductivity	uS/cm	NG	NG	33	-		192	86	-	64	90			160	187	84		231	51	53	87		207	77	67
Field Temperature	°C	NG	NG	5.4	-		9.29	1.62	-	11.33	4.84			1.92	10.86	5.59		9.92	1.41	10.49	3.82		10	2.47	13.31
Field Dissolved Oxygen	mg/L	varies <sup>3</sup>	NG	17.49	-		4.3	12.3	-	3.76	8.93			13.28	6.74	7.23		3.7	15.44	4.03	7.23		3.25	13.2	5.57
Anion Sum	me/L	NG	NG	0.380	-	DRY	1.28	0.610	-	0.590	1.36	DRY	DRY	1.21	2.38	0.790	DRY	1.63	0.460	0.520	1.34	0.850	1.15	0.550	0.770
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	<1.0	-		6.9	<1.0	-	<1.0	46			37	80	15		8.8	7.7	<1.0	37	9.2	11	7.4	10
Calculated TDS	mg/L	NG	NG	45	-		150	43	-	46	84			75	150	63		140	32	40	88	120	82	45	95
Carb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	<1.0	-		<1.0	<1.0	-	<1.0	<1.0			<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Carbanaceous BOD	mg/L	NG	NG	-	-		-	-	-	-	-			-	-	-		-	-	-	-	-	-	-	-
Cation Sum	me/L	NG	NG	1.31	-		3.44	0.700	-	0.990	1.52			1.38	2.71	1.29		2.76	0.620	0.800	1.56	3.70	1.45	1.01	3.02
Colour	TCU	Narrative	NG	120	-		210	210	-	310 (1)	250			190	310 (1)	330		440	160	540 (1)	560	500	570	220	360 (1)
Conductivity	uS/cm	NG	NG	60	60		150	89	-	88	130			140	240	80		200	59	82	140	110	170	79	91
Chloride (Cl)	mg/L	120	NG	14	-		13	21	-	21	13			17	25	16		27	11	18	18	20	25	14	18
Sulphate (SO4)	mg/L	NG	NG	<2.0	-		36.0	<2.0	-	<2.0	2.9			<2.0	3.3	2.0		33.0	<2.0	<2.0	4.7	4.6	9.8	<2.0	2.9
Hardness (CaCO3)	mg/L	NG	NG	36	-		100	9.4	-	17	30			30	54	19		34	12	12	18	110	25	21	88
Ion Balance (% Difference)	%	NG	NG	55.0	-		45.8	6.87	-	25.3	5.56			6.56	6.48	24.0		25.7	14.8	21.2	7.59	62.6	11.5	29.5	59.4
Langelier Index (@ 20C)	N/A	NG	NG	NC	-		-4.07	NC	-	NC	-1.54			-1.98	-1.57	-3.03		-3.80	-3.96	NC	-2.19	-3.08	-3.70	-3.85	-2.92
Langelier Index (@ 4C)	N/A	NG	NG	NC	-		-4.32	NC	-	NC	-1.79			-2.24	-1.82	-3.29		-4.05	-4.21	NC	-2.44	-3.33	-3.95	-4.10	-3.17
Nitrate (N)	mg/L	3	NG	<0.050	-		0.12	0.050	-	<0.050	<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	0.081	<0.050	0.050	<0.050	<0.050	<0.050
Nitrate + Nitrite	mg/L	NG	NG	<0.050	-		0.21	0.050	-	<0.050	<0.050			<0.050	<0.050	<0.050		<0.050	<0.050	0.081	<0.050	0.062	<0.050	<0.050	<0.050
Nitrite (N)	mg/L	0.06	NG	<0.010	-	0.10	<0.010	-	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.011	<0.010	<0.010	<0.010				
Nitrogen (Ammonia Nitrogen)	mg/L	Varies <sup>4</sup>	NG	0.40	-	4.1	0.46	0.47	0.41	0.052	<0.050	<0.050	0.072	0.14	<0.050	<0.050	0.081	0.37	0.078	0.39	0.15				
Orthophosphate (P)	mg/L	NG	NG	<0.010	-	0.038	0.014	-	0.016	0.091	0.044	0.032	0.045	0.052	0.022	0.040	0.13	0.035	0.072	0.022	0.031				
Phenol	mg/L	0.004	0.004	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
pH	pH	6.5-9.0	NG	5.26	-	5.07	4.87	-	5.18	7.21	6.87	6.72	6.42	5.79	6.02	5.98	6.93	5.84	5.84	5.84	6.01				
Phosphorous	mg/L	Framework <sup>5</sup>	NG	-	-	5300	-	-	-	-	-	-	-	1100	-	-	-	-	310	-	-				
Reactive Silica (SiO2)	mg/L	NG	NG	4.1	-	22.0	7.0	-	4.0	2.4	3.7	5.2	3.4	5.7	2.2	2.8	2.2	12	5.6	3.5	1.2				
Saturation pH (@ 20C)	N/A	NG	NG	NC	-	9.14	NC	-	NC	8.75	8.85	8.29	9.46	9.59	9.98	NC	9.12	8.92	9.55	9.68	8.93				
Saturation pH (@ 4C)	N/A	NG	NG	NC	-	9.39	NC	-	NC	9.00	9.10	8.54	9.71	9.84	10.2	NC	9.37	9.17	9.80	9.93	9.18				
Total Alkalinity (Total as CaCO3)	mg/L	NG	NG	<5.0	-	6.9	<5.0	-	<5.0	46	37	80	15	8.8	7.7	<5.0	37	9.2	11.0	7.4	10				
Tannins/Lignins	mg/L	NG	NG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Total Chemical Oxygen Demand	mg/L	NG	NG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Total Kjeldahl Nitrogen	mg/L	NG	NG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Total Organic Carbon (C)	mg/L	NG	NG	<50 (1)	-	40 (2)	16 (1)	-	20 (1)	15 (1)	15 (1)	34 (1)	19 (1)	42 (2)	15	22 (1)	24 (1)	59 (2)	42 (2)	<250 (1)	<50 (2)				
Total Suspended Solids	mg/L	NG	NG	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-				
Turbidity	NTU	Narrative	NG	>1000	-	>1000	65	-	330	20	2.7	25	54	510	3.6	2.7	40	>1000	390	550	390				

Notes:

NG - no guideline

value	- exceeds CCME guidelines
value	- exceeds NSE EOS

(1) Elevated reporting limit due to sample matrix.

(2) Reporting limit was increased due to turbidity.

(3) The sample was decanted due to sediment.

(4) Elevated reporting limit due to blank performance.

<sup>3</sup> 1999 (Update 2015) CCME Canadian Water Quality Guidelines for the Protection of Freshwater Aquatic Life.

<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EOS) for fresh water surface water

<sup>3</sup> Lowest acceptable dissolved oxygen concentration:

- for warm water biota: early life stages = 6 mg/L
- for warm water biota: other life stages = 5.5 mg/L
- for cold water biota: early life stages = 9.5 mg/L
- for cold water biota: other life stages = 6.5 mg/L

<sup>4</sup> Ammonia - calculations as per [http://st-ts.ccme.ca/en/index.html?lang=en&factsheet=5#aql\\_fresh\\_concentration](http://st-ts.ccme.ca/en/index.html?lang=en&factsheet=5#aql_fresh_concentration).

<sup>5</sup> Canadian Guidance Framework for Phosphorus is for developing phosphorus guidelines ( does not provide guidance on other freshwater nutrients).

It provides Trigger Ranges for Total Phosphorus ( µg/L) (see Guidance Framework for Phosphorus factsheet):

- ultra-oligotrophic <4
- oligotrophic 4-10
- mesotrophic 10-20
- meso-eutrophic 20-35
- eutrophic 35-100
- hyper-eutrophic >100

TABLE 4: TOTAL METALS in Surface Water  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	CCME FAL <sup>1</sup>	NSE Tier 1 EOS <sup>2</sup>	SAMPLE ID																	
				SW1						SW2						SW3					
				2-Feb-16	14-Mar-16	14-Jul-16	31-Oct-16	31-Jan-17	26-Apr-17	2-Feb-16	14-Mar-16	14-Jul-16	31-Oct-16	30-Jan-17	25-Apr-17	2-Feb-16	14-Mar-16	15-Jul-16	1-Nov-16	30-Jan-17	25-Apr-17
Aluminum	µg/L	5 or 100 <sup>3</sup>	5	<u>550</u>	<u>580</u>	DRY	<u>1900</u>	<u>580</u>	<u>720</u>	<u>450</u>	<u>380</u>	<u>620</u>	<u>920</u>	<u>440</u>	<u>370</u>	<u>530</u>	<u>610</u>	<u>2000</u>	<u>790</u>	<u>810</u>	<u>1600</u>
Antimony	µg/L	NG	20	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	µg/L	5	5	<1.0	1.1		1.8	<1.0	1.3	<1.0	<1.0	1.1	<1.0	<1.0	<1.0	1.3	1.7	<u>5.5</u>	2.2	2.3	4.7
Barium	µg/L	NG	1000	3.0	2.2		8.6	2.1	3.1	3.0	2.6	4.2	8.4	2.7	2.8	9.5	8.9	26	25	9.2	21
Beryllium	µg/L	NG	5.3	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bismuth	µg/L	NG	NG	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Boron	µg/L	1500	1200	<50	<50		<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	61	90	<50	<50
Cadmium	µg/L	0.04 - 0.37 <sup>4</sup>	0.01	<u>0.21</u>	<u>0.15</u>		<u>0.098</u>	<u>0.036</u>	<u>0.034</u>	<u>0.11</u>	<u>0.069</u>	<u>0.046</u>	<u>0.082</u>	<u>0.026</u>	<u>0.028</u>	<u>0.063</u>	<u>0.037</u>	<u>0.090</u>	<u>0.061</u>	<u>0.041</u>	<u>0.071</u>
Calcium	µg/L	NG	NG	1100	860		3100	810	950	1000	1200	2200	4100	1300	1400	6500	6900	8100	17000	6400	8000
Chromium	µg/L	8.9	NG	1.1	1.1		1.8	1.1	1.2	<1.0	46	1.0	1.1	<1.0	1.5	1.5	1.8	3.4	1.8	1.9	4.7
Cobalt	µg/L	NG	10	1.2	0.93		1.2	<0.40	0.45	0.73	0.63	0.59	0.81	<0.40	<0.40	1.4	1.4	3.0	1.3	0.78	2.9
Copper	µg/L	2 - 4 <sup>5</sup>	2	<u>7.3</u>	<u>5.8</u>		<u>4.1</u>	<2.0	<2.0	<u>4.5</u>	<u>3.7</u>	<2.0	<2.0	<2.0	<2.0	<u>6.6</u>	<u>4.1</u>	<u>7.9</u>	<u>3.5</u>	<u>3.8</u>	<u>4.7</u>
Iron	µg/L	300	300	<u>820</u>	<u>780</u>		<u>1300</u>	<u>590</u>	<u>800</u>	<u>560</u>	<u>650</u>	<u>670</u>	<u>670</u>	<u>370</u>	<u>310</u>	<u>2200</u>	<u>2700</u>	<u>10000</u>	<u>2600</u>	<u>2700</u>	<u>7200</u>
Lead	µg/L	1 - 7 <sup>6</sup>	1	<u>13</u>	<u>10</u>		<u>8.4</u>	<u>2.8</u>	<u>3.4</u>	<u>5.9</u>	<u>3.2</u>	<u>2.8</u>	<u>3.3</u>	<u>1.5</u>	<u>1.4</u>	<u>1.5</u>	<u>1.3</u>	<u>7.6</u>	<u>2.2</u>	<u>1.7</u>	<u>5.4</u>
Magnesium	µg/L	NG	NG	620	440		1800	460	600	660	820	1400	2900	970	1100	2000	2200	2300	5400	2000	2400
Manganese	µg/L	NG	820	13	12		40	11	17	16	17	25	43	15	14	160	180	480	340	120	560
Mercury	µg/L	0.026	0.026	<u>0.028</u>	<u>0.035</u>		<u>0.047</u>	<u>0.028</u>	<u>0.028</u>	0.022	0.017	0.025	0.015	0.018	0.015	0.020	<0.013	<u>0.072</u>	0.017	0.023	<u>0.033</u>
Molybdenum	µg/L	73	73	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0	5.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Nickel	µg/L	25 - 150 <sup>7</sup>	25	7.4	5.7		5.6	<2.0	2.0	3.5	19	2.4	2.8	<2.0	<2.0	4.4	4.1	4.9	2.6	3.1	4.6
Phosphorus	µg/L	NG	NG	<100	130		<100	<100	<100	100	130	<100	<100	<100	<100	160	170	400	140	<100	250
Potassium	µg/L	NG	NG	5800	5100		9200	3900	4000	5500	4200	2600	3900	1900	1400	14000	11000	12000	13000	7100	7600
Selenium	µg/L	1	1	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	µg/L	0.25	0.1	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sodium	µg/L	NG	NG	13000	12000		22000	9600	9800	10000	8700	9800	14000	7600	7900	17000	17000	15000	18000	11000	11000
Strontium	µg/L	NG	21000	7.4	6.1	23	5.6	7.6	6.7	7.4	14	29	8.7	9.4	31	34	40	87	29	41	
Thallium	µg/L	0.8	0.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Tin	µg/L	NG	NG	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Titanium	µg/L	NG	NG	12	11	29	11	16	8.4	5.0	8.9	11	5.1	4.5	10	11	44	17	15	36	
Uranium	µg/L	15	300	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.15	0.10	0.24	<0.10	<0.10	0.21	
Vanadium	µg/L	NG	6	2.4	2.4	3.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	5.2	<2.0	<2.0	3.4	
Zinc	µg/L	30	30	11	8.5	12	<5.0	5.2	11	7.5	7.0	11	<5.0	<5.0	21	17	30	<u>43</u>	<u>36</u>	<u>44</u>	

Notes:

NG - no guideline

value

value

value

- exceeds CCME guidelines

- exceeds NSE EOS

- detection limit exceeds one or both guidelines

<sup>5</sup> At [CaCO<sub>3</sub>] = 0 to 120 mg/L, copper guideline = 2 ug/L.  
At [CaCO3] = 120 to 180 mg/L, copper guideline = 3 ug/L.  
At [CaCO3] = > 180 mg/L, copper guideline = 4 ug/L.  
If hardness unknown, the CWQG is 2 ug/L.

<sup>6</sup> At [CaCO<sub>3</sub>] = 0 to ≤60 mg/L, lead guideline = 1 ug/L  
At [CaCO<sub>3</sub>] = >60 to ≤180 mg/L, lead guideline = e<sup>{1.273[ln(hardness)]-4.705}</sup>  
At [CaCO<sub>3</sub>] = >180 mg/L, lead guideline = 7 ug/L

<sup>3</sup> 1999 (Update 2015) CCME Canadian Water Quality Guidelines for the Protection of Freshwater Aquatic Life.

<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EOS) for fresh water surface water

<sup>3</sup> Aluminium Guideline for pH < 6.5 = 5 ug/L  
Aluminium Guideline for pH ≥ 6.5 = 100 ug/L

<sup>4</sup> At [CaCO3] = > 0 to < 17 mg/L, cadmium guideline = 0.04 µg/L  
At [CaCO3] = ≥ 17 to ≤ 280 mg/L, cadmium guideline (µg/L) = 10<sup>{0.83[log(hardness)] - 2.46 }</sup>  
At [CaCO3] = > 280 mg/L, cadmium guideline = 0.37 µg/L

<sup>7</sup> At [CaCO<sub>3</sub>] ≤60 mg/L, nickel guideline = 25 ug/L.  
At [CaCO3] >60 to ≤180 mg/L, nickel guideline (µg/L) = e<sup>{0.76[ln(hardness)]+1.06}</sup>  
At [CaCO3] >180 mg/L, nickel guideline = 150 µg/L  
If hardness unknown, the CWQG is 25 ug/L



TABLE 4: TOTAL METALS in Surface Water  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	CCME FAL <sup>1</sup>	NSE Tier 1 EQS <sup>2</sup>	SAMPLE ID																	
				SW4					SW5					SW6							
				14-Mar-16	15-Jul-16	31-Oct-16	31-Jan-17	26-Apr-17	14-Mar-16	14-Jul-16	1-Nov-16	Lab-Dup 1-Nov-16	30-Jan-17	25-Apr-17	14-Mar-16	15-Jul-16	31-Oct-16	Lab-Dup 1-Nov-16	31-Jan-17	Lab-Dup 31-Jan-17	26-Apr-17
Aluminum	µg/L	5 or 100 <sup>3</sup>	5	<u>490</u>	<u>800</u>	<u>4600</u>	<u>460</u>	<u>440</u>	<u>580</u>	<u>530</u>	<u>230</u>	-	<u>570</u>	<u>570</u>	<u>350</u>	DRY	<u>130</u>	<u>140</u>	<u>400</u>	-	<u>450</u>
Antimony	µg/L	NG	20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	-	<1.0
Arsenic	µg/L	5	5	<1.0	3.2	<u>13</u>	<1.0	<1.0	1.3	4.7	1.0	-	1.4	1.6	<1.0		<1.0	<1.0	<1.0	-	1.1
Barium	µg/L	NG	1000	4.3	13	48	3.8	6.1	7.7	5.6	18	-	6.6	9.1	6.3		6.8	7.1	5.7	-	5.9
Beryllium	µg/L	NG	5.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	-	<1.0
Bismuth	µg/L	NG	NG	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0		<2.0	<2.0	<2.0	-	<2.0
Boron	µg/L	1500	1200	<50	<50	210	<50	<50	<50	<50	71	-	<50	<50	<50		<50	51	<50	-	<50
Cadmium	µg/L	0.04 - 0.37 <sup>4</sup>	0.01	<u>0.091</u>	<u>0.032</u>	<u>0.22</u>	<u>0.023</u>	<u>0.025</u>	<u>0.048</u>	<u>0.018</u>	<u>0.056</u>	-	<u>0.030</u>	<u>0.029</u>	<u>0.033</u>		<0.010	<0.010	<u>0.019</u>	-	<u>0.019</u>
Calcium	µg/L	NG	NG	2800	9900	18000	2500	3900	5900	8700	13000	-	5300	5900	5600		9800	10000	5300	-	3900
Chromium	µg/L	8.9	NG	<1.0	1.4	7.9	4.2	<1.0	1.5	1.9	<1.0	-	1.5	1.6	1.1		<1.0	<1.0	1.1	-	1.3
Cobalt	µg/L	NG	10	0.84	4.2	<u>17</u>	<0.40	1.2	1.1	2.7	1.4	-	0.45	0.82	<0.40		<0.40	<0.40	<0.40	-	0.63
Copper	µg/L	2 - 4 <sup>5</sup>	2	<u>4.7</u>	<2.0	<u>7.1</u>	<u>2.2</u>	<u>2.3</u>	<u>4.8</u>	<u>2.7</u>	<u>3.0</u>	-	<u>3.4</u>	<u>3.1</u>	<u>3.9</u>		<2.0	<2.0	<u>3.1</u>	-	<u>3.2</u>
Iron	µg/L	300	300	<u>970</u>	<u>5500</u>	<u>19000</u>	<u>660</u>	<u>990</u>	<u>2400</u>	<u>10000</u>	<u>860</u>	-	<u>1600</u>	<u>2100</u>	<u>1200</u>		220	230	<u>810</u>	-	<u>950</u>
Lead	µg/L	1 to 7 <sup>6</sup>	1	<u>5.1</u>	<u>2.6</u>	<u>18</u>	<u>1.3</u>	<u>1.7</u>	<u>1.3</u>	<u>2.2</u>	<0.50	-	0.80	0.98	0.57		<0.50	<0.50	<0.50	-	0.68
Magnesium	µg/L	NG	NG	1300	4600	7600	1200	1800	2000	3000	4100	-	1800	2000	1900		2700	2800	1800	-	1300
Manganese	µg/L	NG	820	23	400	<u>1200</u>	15	68	120	280	420	-	46	120	16		4.8	4.6	11	-	54
Mercury	µg/L	0.026	0.026	0.015	<0.013	0.015	0.018	0.015	<0.013	<0.013	<0.013	<0.013	0.017	0.017	<0.013		<0.013	-	0.015	0.015	<0.013
Molybdenum	µg/L	73	73	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0		<2.0	<2.0	<2.0	-	<2.0
Nickel	µg/L	25 - 150 <sup>7</sup>	25	3.9	2.5	7.4	2.1	<2.0	3.7	3.0	<2.0	-	2.2	2.6	2.9		<2.0	<2.0	<2.0	-	<2.0
Phosphorus	µg/L	NG	NG	110	120	430	<100	<100	200	280	<100	-	<100	130	130		<100	<100	<100	-	<100
Potassium	µg/L	NG	NG	3600	1300	2500	2700	2400	11000	9900	11000	-	5500	5600	7400	7900	8000	4500	-	2900	
Selenium	µg/L	1	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	
Silver	µg/L	0.25	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	-	<0.10	
Sodium	µg/L	NG	NG	22000	42000	63000	17000	25000	15000	15000	14000	-	10000	10000	19000	20000	20000	15000	-	16000	
Strontium	µg/L	NG	21000	18	74	130	16	26	29	40	68	-	26	31	29	53	54	27	-	20	
Thallium	µg/L	0.8	0.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	-	<0.10	
Tin	µg/L	NG	NG	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	
Titanium	µg/L	NG	NG	7.9	14	95	6.5	7.8	14	13	3.2	-	11	11	7.5	3.4	3.8	6.4	-	11	
Uranium	µg/L	15	300	<0.10	<0.10	0.32	<0.10	<0.10	0.10	<0.10	<0.10	-	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	-	<0.10	
Vanadium	µg/L	NG	6	<2.0	2.9	<u>18</u>	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	-	<2.0	
Zinc	µg/L	30	30	6.6	5.7	25	<5.0	<5.0	16	6.5	30	-	21	20	14	<5.0	<5.0	15	-	14	

Notes:

NG - no guideline

value

- exceeds CCME guidelines

**value**

- exceeds NSE EQS

value

- detection limit exceeds one or both guidelines

<sup>5</sup> At [CaCO<sub>3</sub>] = 0 to 120 mg/L, copper guideline = 2 ug/L.  
At [CaCO<sub>3</sub>] = 120 to 180 mg/L, copper guideline = 3 ug/L.  
At [CaCO<sub>3</sub>] = > 180 mg/L, copper guideline = 4 ug/L.  
If hardness unknown, the CWQG is 2 ug/L

<sup>6</sup> At [CaCO<sub>3</sub>] = 0 to **≤**60 mg/L, lead guideline = 1 ug/L  
At [CaCO<sub>3</sub>] = >60 to **≤**180 mg/L, lead guideline = e<sup>(1.273[ln(hardness)]-4.705)</sup>  
At [CaCO<sub>3</sub>] = >180 mg/L, lead guideline = 7 ug/L

<sup>3</sup> 1999 (Update 2015) CCME Canadian Water Quality Guidelines for the Protection of Freshwater Aquatic Life.

<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EQS) for fresh water surface water

<sup>3</sup> Aluminium Guideline for pH < 6.5 = 5 ug/L  
Aluminium Guideline for pH **≥** 6.5 = 100 ug/L

<sup>4</sup> At [CaCO<sub>3</sub>] = > 0 to < 17 mg/L, cadmium guideline = 0.04 **µg/L**  
At [CaCO<sub>3</sub>] = **≥** 17 to **≤** 280 mg/L, cadmium guideline (**µg/L**) = 10<sup>(0.83(log(hardness)) - 2.46 )</sup>  
At [CaCO<sub>3</sub>] = > 280 mg/L, cadmium guideline = 0.37 **µg/L**

<sup>7</sup> At [CaCO<sub>3</sub>] **≤**60 mg/L, nickel guideline = 25 ug/L.  
At [CaCO<sub>3</sub>] >60 to **≤**180 mg/L, nickel guideline (**µg/L**) = e<sup>(0.76[ln(hardness)]+1.06)</sup>  
At [CaCO<sub>3</sub>] >180 mg/L, nickel guideline = 150 **µg/L**  
If hardness unknown, the CWQG is 25 ug/L

TABLE 4: TOTAL METALS in Surface Water  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	CCME FAL <sup>1</sup>	NSE Tier 1 EQS <sup>2</sup>	SAMPLE ID																					
				SW7					SW8					SW9											
				14-Mar-16	14-Jul-16	31-Oct-16	30-Jan-17	25-Apr-17	14-Mar-16	14-Jul-16	1-Nov-16	30-Jan-17	25-Apr-17	14-Mar-16	SW-DUP 14-Mar-16	14-Jul-16	SW-DUP1 14-Jul-16	31-Oct-16	SW-DUP1 31-Oct-16	30-Jan-17	SW-DUP1 30-Jan-17	25-Apr-17	SW-DUP1 25-Apr-17		
Aluminum	µg/L	5 or 100 <sup>3</sup>	5	<u>340</u>	<u>600</u>	<u>800</u>	<u>380</u>	<u>360</u>	<u>600</u>	DRY	DRY	<u>850</u>	<u>1200</u>	<u>67000</u>	<u>14000</u>	<u>2400</u>	<u>780</u>	<u>1300</u>	<u>1400</u>	<u>760</u>	<u>790</u>	<u>23000</u>	<u>28000</u>		
Antimony	µg/L	NG	20	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	µg/L	5	5	<1.0	1.2	1.2	<1.0	<1.0	1.5			<1.0	<1.0	<u>120</u>	<u>25</u>	<u>19</u>	<u>12</u>	<u>11</u>	<u>11</u>	1.9	2.0	<u>55</u>	<u>66</u>		
Barium	µg/L	NG	1000	2.0	4.2	7.4	2.3	3.0	5.3			6.0	7.8	410	75	29	21	17	19	5.5	5.8	220	290		
Beryllium	µg/L	NG	5.3	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			<1.0	<1.0	3.9	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.1	1.4	
Bismuth	µg/L	NG	NG	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0			<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Boron	µg/L	1500	1200	<50	<50	<50	<50	<50	<50			<50	<50	120	92	<50	<50	60	59	<50	<50	<50	<50	<50	<50
Cadmium	µg/L	0.04 - 0.37 <sup>4</sup>	0.01	<u>0.064</u>	<u>0.044</u>	<u>0.071</u>	<u>0.016</u>	<u>0.026</u>	<u>0.043</u>			<u>0.054</u>	<u>0.052</u>	<u>2.1</u>	<u>0.60</u>	<u>0.12</u>	<u>0.053</u>	<u>0.088</u>	<u>0.096</u>	<u>0.038</u>	<u>0.038</u>	<u>1.3</u>	<u>1.9</u>		
Calcium	µg/L	NG	NG	930	2600	4400	1200	1600	11000			3600	4200	71000	28000	27000	26000	9900	10000	5600	5800	27000	35000		
Chromium	µg/L	8.9	NG	<1.0	1.4	1.1	<1.0	<1.0	1.6			1.1	2.4	94	25	4.6	2.1	2.9	3.5	1.5	1.5	40	46		
Cobalt	µg/L	NG	10	0.41	0.49	0.58	<0.40	<0.40	0.59			1.3	0.95	<u>93</u>	<u>17</u>	<u>23</u>	<u>20</u>	3.8	4.1	0.94	1.1	75	100		
Copper	µg/L	2 - 4 <sup>5</sup>	2	<u>2.4</u>	<2.0	<2.0	<2.0	<2.0	<u>5.5</u>			<2.0	<u>3.4</u>	<u>200</u>	<u>66</u>	<u>13</u>	<u>7.6</u>	<u>9.3</u>	<u>9.8</u>	<u>6.5</u>	<u>7.0</u>	<u>130</u>	<u>160</u>		
Iron	µg/L	300	300	<u>340</u>	<u>770</u>	<u>690</u>	<u>320</u>	260	<u>1100</u>			<u>750</u>	<u>1500</u>	<u>270000</u>	<u>32000</u>	<u>15000</u>	<u>11000</u>	<u>6400</u>	<u>7700</u>	<u>1300</u>	<u>1300</u>	<u>68000</u>	<u>84000</u>		
Lead	µg/L	1 to 7 <sup>6</sup>	1	<u>3.0</u>	<u>2.5</u>	<u>2.6</u>	<u>1.1</u>	<u>1.4</u>	<u>2.3</u>			0.62	<u>1.1</u>	<u>160</u>	<u>37</u>	<u>6.1</u>	<u>2.4</u>	<u>3.4</u>	<u>3.8</u>	<u>1.3</u>	<u>1.3</u>	<u>110</u>	<u>140</u>		
Magnesium	µg/L	NG	NG	730	1600	2800	970	1100	2400			1400	1700	25000	10000	10000	9500	4000	4100	1500	1600	8600	9800		
Manganese	µg/L	NG	820	12	19	44	15	14	33			64	60	<u>4300</u>	710	<u>2100</u>	<u>2000</u>	400	430	84	98	<u>10000</u>	<u>14000</u>		
Mercury	µg/L	0.026	0.026	<0.013	0.023	0.013	0.015	0.013	<0.013			0.015	0.013	<u>0.13</u>	<u>0.065</u>	0.022	0.025	<u>0.033</u>	<u>0.037</u>	0.020	0.023	<u>0.24</u>	<u>0.24</u>		
Molybdenum	µg/L	73	73	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0			<2.0	<2.0	24	8.7	8.3	8.2	2.3	2.3	<2.0	<2.0	12	13		
Nickel	µg/L	25 - 150 <sup>7</sup>	25	2.4	2.3	2.5	<2.0	<2.0	<2.0			2.6	3.5	<u>210</u>	<u>41</u>	21	17	4.3	4.5	2.4	2.7	<u>56</u>	<u>69</u>		
Phosphorus	µg/L	NG	NG	110	<100	<100	<100	<100	580			<100	<100	11000	3800	600	350	190	290	150	150	8200	10000		
Potassium	µg/L	NG	NG	3800	2500	3400	1600	1500	6000			670	1100	55000	48000	31000	30000	28000	27000	6100	6300	11000	12000		
Selenium	µg/L	1	1	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0			<1.0	<1.0	<u>3.5</u>	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<u>2.1</u>	<u>2.2</u>		
Silver	µg/L	0.25	0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10			<0.10	<0.10	<u>0.58</u>	<u>0.20</u>	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<u>0.53</u>	<u>0.58</u>		
Sodium	µg/L	NG	NG	8500	10000	14000	7200	7600	8100			6900	7200	37000	35000	31000	31000	32000	32000	7700	7900	12000	12000		
Strontium	µg/L	NG	21000	6.1	16	28	8.0	11	47			21	25	430	140	140	140	56	59	25	25	170	230		
Thallium	µg/L	0.8	0.8	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10			<0.10	<0.10	0.53	0.14	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.41	0.52		
Tin	µg/L	NG	NG	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0			<2.0	<2.0	4.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	3.6	4.4		
Titanium	µg/L	NG	NG	5.7	9.3	12	4.2	5.2	17			7.4	26	1400	380	62	23	42	51	22	23	690	780		
Uranium	µg/L	15	300	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10			<0.10	<0.10	7.2	1.6	0.38	0.26	0.17	0.19	<0.10	0.10	3.1	3.8		
Vanadium	µg/L	NG	6	<2.0	<2.0	2.1	<2.0	<2.0	2.1			<2.0	<2.0	<u>150</u>	<u>26</u>	<u>7.5</u>	3.3	<u>7.0</u>	<u>7.5</u>	<2.0	<2.0	<u>62</u>	<u>79</u>		
Zinc	µg/L	30	30	6.4	7.3	10	<5.0	<5.0	13			10	9.5	<u>460</u>	<u>120</u>	25	11	15	16	6.9	7.4	<u>280</u>	<u>380</u>		

Notes:  
NG - no guideline

value

value

value

- exceeds CCME guidelines  
- exceeds NSE EOS  
- detection limit exceeds one or both guidelines

<sup>3</sup> 1999 (Update 2015) CCME Canadian Water Quality Guidelines for the Protection of Freshwater Aquatic Life.

<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EOS) for fresh water surface water

<sup>3</sup> Aluminium Guideline for pH < 6.5 = 5 ug/L  
Aluminium Guideline for pH ≥ 6.5 = 100 ug/L

<sup>4</sup> At [CaCO3] = > 0 to < 17 mg/L, cadmium guideline = 0.04 µg/L  
At [CaCO3] = ≥ 17 to ≤ 280 mg/L, cadmium guideline (µg/L) = 10<sup>(0.83(log(hardness)) - 2.46 )</sup>  
At [CaCO3] = > 280 mg/L, cadmium guideline = 0.37 µg/L

<sup>5</sup> At [CaCO<sub>3</sub>] = 0 to 120 mg/L, copper guideline = 2 ug/L.  
At [CaCO3] = 120 to 180 mg/L, copper guideline = 3 ug/L.  
At [CaCO3] = > 180 mg/L, copper guideline = 4 ug/L.  
If hardness unknown, the CWOQ is 2 ug/L

<sup>6</sup> At [CaCO<sub>3</sub>] = 0 to ≤60 mg/L, lead guideline = 1 ug/L  
At [CaCO<sub>3</sub>] = >60 to ≤180 mg/L, lead guideline = e<sup>(1.273)(ln(hardness))-4.705)</sup>  
At [CaCO<sub>3</sub>] = >180 mg/L, lead guideline = 7 ug/L

<sup>7</sup> At [CaCO<sub>3</sub>] ≤60 mg/L, nickel guideline = 25 ug/L.  
At [CaCO3] >60 to ≤180 mg/L, nickel guideline (µg/L) = e<sup>(0.76(ln(hardness))+1.06)</sup>  
At [CaCO3] >180 mg/L, nickel guideline = 150 µg/L  
If hardness unknown, the CWOQ is 25 ug/L

TABLE 4: TOTAL METALS in Surface Water  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	CCME FAL <sup>1</sup>	NSE Tier 1 EOS <sup>2</sup>	SAMPLE ID																									
				SW10					SW11					SW12					SW13										
				16-Mar-16	14-Jul-16	1-Nov-16	30-Jan-17	25-Apr-17	16-Mar-16	14-Jul-16	1-Nov-16	30-Jan-17	25-Apr-17	16-Mar-16	15-Jul-16	1-Nov-16	31-Jan-17	26-Apr-17	14-Jul-16	31-Oct-16	30-Jan-17	Lab-Dup 30-Jan-17	25-Apr-17						
Aluminum	µg/L	5 or 100 <sup>3</sup>	5	<u>520</u>	DRY	DRY	<u>810</u>	DRY	<u>700</u>	DRY	<u>1700</u>	<u>560</u>	<u>710</u>	<u>420</u>	DRY	DRY	FROZEN	<u>1100</u>	<u>640</u>	<u>820</u>	<u>71</u>	<u>66</u>	<u>180</u>						
Antimony	µg/L	NG	20	<1.0			<1.0		<1.0		<1.0	<1.0	<1.0	<1.0				<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Arsenic	µg/L	5	5	<1.0			<1.0		1.3		1.8	<1.0	1.3	<1.0				1.4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Barium	µg/L	NG	1000	2.6			3.9		2.1		6.5	1.4	2.2	2.6				9.6	2.9	5.0	2.3	2.3	3.8						
Beryllium	µg/L	NG	5.3	<1.0			<1.0		<1.0		<1.0	<1.0	<1.0	<1.0				<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Bismuth	µg/L	NG	NG	<2.0			<2.0		<2.0		<2.0	<2.0	<2.0	<2.0				<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Boron	µg/L	1500	1200	<50			<50		<50		<50	<50	<50	<50				<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	
Cadmium	µg/L	0.04 - 0.37 <sup>4</sup>	0.01	<u>0.036</u>			<u>0.054</u>		<u>0.18</u>		<u>0.097</u>	<u>0.035</u>	<u>0.042</u>	<u>0.023</u>				<u>0.093</u>	<u>0.030</u>	<u>0.059</u>	<0.010	<0.010	<u>0.016</u>						
Calcium	µg/L	NG	NG	480			660		700		2300	460	670	740				1100	800	1800	900	880	880						
Chromium	µg/L	8.9	NG	<1.0			<1.0		1.4		2.8	2.1	1.1	<1.0				1.5	1.2	1.8	<1.0	<1.0	<1.0						
Cobalt	µg/L	NG	10	0.46			0.86		1.1		0.97	<0.40	<0.40	0.46				1.3	0.65	1.2	<0.40	<0.40	<0.40						
Copper	µg/L	2 - 4 <sup>5</sup>	2	<2.0			<2.0		<u>6.8</u>		<u>3.2</u>	<2.0	<2.0	<2.0				<u>2.7</u>	<2.0	<2.0	<2.0	<2.0	<2.0						
Iron	µg/L	300	300	<u>470</u>			<u>580</u>		<u>840</u>		<u>930</u>	<u>550</u>	<u>550</u>	<u>970</u>				<u>4000</u>	<u>1000</u>	<u>1100</u>	78	86	<u>350</u>						
Lead	µg/L	1 to 7 <sup>6</sup>	1	<u>1.2</u>			<u>1.7</u>		<u>12</u>		<u>7.6</u>	<u>3.0</u>	<u>3.8</u>	0.72				<u>2.5</u>	<u>2.3</u>	<u>1.8</u>	<0.50	<0.50	<0.50						
Magnesium	µg/L	NG	NG	700			880		340		1500	290	420	650				1100	710	1900	820	800	820						
Manganese	µg/L	NG	820	14			19		8.6		18	5.7	6.1	20				36	9.8	20	6.3	6.1	16						
Mercury	µg/L	0.026	0.026	<0.013			0.018		0.013		<u>0.045</u>	<u>0.032</u>	<u>0.030</u>	<0.013				<u>0.055</u>	0.023	<0.013	<0.013	-	<0.013						
Molybdenum	µg/L	73	73	<2.0			<2.0		<2.0		<2.0	<2.0	<2.0	<2.0				<2.0	<2.0	<2.0	<2.0	<2.0	<2.0						
Nickel	µg/L	25 - 150 <sup>7</sup>	25	<2.0			<2.0		6.9		4.7	<2.0	2.0	<2.0				3.2	2.7	2.7	<2.0	<2.0	<2.0						
Phosphorus	µg/L	NG	NG	<100			<100		150		<100	<100	<100	160				390	<100	<100	<100	<100	<100						
Potassium	µg/L	NG	NG	100			180		6400		9900	4400	5400	360				1100	1700	2200	400	380	460						
Selenium	µg/L	1	1	<1.0			<1.0		<1.0		<1.0	<1.0	<1.0	<1.0				<1.0	<1.0	<1.0	<1.0	<1.0	<1.0						
Silver	µg/L	0.25	0.1	<0.10			<0.10		<0.10		<0.10	<0.10	<0.10	<0.10				<0.10	<0.10	<0.10	<0.10	<0.10	<0.10						
Sodium	µg/L	NG	NG	4900			6500		12000		22000	9000	10000	4900				6800	8100	9900	5700	5500	5300						
Strontium	µg/L	NG	21000	6.1			8.5		4.9		17	3.3	5.2	4.9				11	6.8	16	7.5	7.2	8.6						
Thallium	µg/L	0.8	0.8	<0.10			<0.10		<0.10		<0.10	<0.10	<0.10	<0.10				<0.10	<0.10	<0.10	<0.10	<0.10	<0.10						
Tin	µg/L	NG	NG	<2.0			<2.0		<2.0		<2.0	<2.0	<2.0	<2.0				<2.0	<2.0	<2.0	<2.0	<2.0	<2.0						
Titanium	µg/L	NG	NG	4.6			6.0		12		25	9.0	12	4.9				12	5.5	6.4	<2.0	<2.0	4.0						
Uranium	µg/L	15	300	<0.10			<0.10		<0.10		<0.10	<0.10	<0.10	<0.10				<0.10	<0.10	<0.10	<0.10	<0.10	<0.10						
Vanadium	µg/L	NG	6	<2.0			<2.0		3.0		2.9	2.4	2.0	<2.0				2.1	<2.0	<2.0	<2.0	<2.0	<2.0						
Zinc	µg/L	30	30	5.7			7.6		10		11	<5.0	<5.0	<5.0				11	<5.0	6.6	<5.0	<5.0	<5.0						

Notes:

NG - no guideline

value	- exceeds CCME guidelines
<b>value</b>	- exceeds NSE EOS
value	- detection limit exceeds one or both guidelines

<sup>5</sup> At [CaCO<sub>3</sub>] = 0 to 120 mg/L, copper guideline = 2 ug/L.

At [CaCO<sub>3</sub>] = 120 to 180 mg/L, copper guideline = 3 ug/L.

At [CaCO<sub>3</sub>] = > 180 mg/L, copper guideline = 4 ug/L.

If hardness unknown, the CWQG is 2 ug/L

<sup>6</sup> At [CaCO<sub>3</sub>] = 0 to **≤**60 mg/L, lead guideline = 1 ug/L

At [CaCO<sub>3</sub>] = >60 to **≤**180 mg/L, lead guideline = e<sup>{1.273[ln(hardness)]-4.705}</sup>

At [CaCO<sub>3</sub>] = >180 mg/L, lead guideline = 7 ug/L

<sup>3</sup> 1999 (Update 2015) CCME Canadian Water Quality Guidelines for the Protection of Freshwater Aquatic Life.

<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EOS) for fresh water surface water

<sup>3</sup> Aluminium Guideline for pH < 6.5 = 5 ug/L

Aluminium Guideline for pH **≥** 6.5 = 100 ug/L

<sup>4</sup> At [CaCO<sub>3</sub>] = > 0 to < 17 mg/L, cadmium guideline = 0.04 µg/L

At [CaCO<sub>3</sub>] = **≥** 17 to **≤** 280 mg/L, cadmium guideline (µg/L) = 10<sup>{0.83(log(hardness)) - 2.46 }</sup>

At [CaCO<sub>3</sub>] = > 280 mg/L, cadmium guideline = 0.37 µg/L

<sup>7</sup> At [CaCO<sub>3</sub>] **≤**60 mg/L, nickel guideline = 25 ug/L.

At [CaCO<sub>3</sub>] >60 to **≤**180 mg/L, nickel guideline (µg/L) = e<sup>{0.76[ln(hardness)]+1.06}</sup>

At [CaCO<sub>3</sub>] >180 mg/L, nickel guideline = 150 µg/L

If hardness unknown, the CWQG is 25 ug/L

TABLE 4: TOTAL METALS in Surface Water  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	CCME FAL <sup>1</sup>	NSE Tier 1 EQS <sup>2</sup>	SAMPLE ID																										
				SW14				SW15				SW16				BACKGROUND				BACK2										
				15-Jul-16	31-Oct-16	31-Jan-17	26-Apr-17	15-Jul-16	31-Oct-16	31-Jan-17	26-Apr-17	15-Jul-16	2-Nov-16	31-Jan-17	26-Apr-17	16-Mar-16	14-Jul-16	1-Nov-16	30-Jan-17	14-Jul-16	SW-DUP2 14-Jul-16	1-Nov-16	SW-DUP2 1-Nov-16	30-Jan-17	SW-DUP2 30-Jan-17	25-Apr-17	SW-DUP2 25-Apr-17			
Aluminum	µg/L	5 or 100 <sup>3</sup>	5	<u>930</u>	<u>240</u>	<u>520</u>	<u>410</u>	No Access	<u>120</u>	<u>210</u>	<u>510</u>	No Access	<u>220</u>	<u>200</u>	<u>330</u>	<u>510</u>	DRY	DRY	DRY	<u>3600</u>	<u>440</u>	<u>280</u>	<u>310</u>	<u>360</u>	<u>360</u>	<u>310</u>	<u>310</u>			
Antimony	µg/L	NG	20	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0				<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Arsenic	µg/L	5	5	1.2	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0				<1.0	<1.0	<1.0	<u>12</u>	2.1	1.2	1.2	<1.0	<1.0	<1.0	<1.0
Barium	µg/L	NG	1000	9.5	15	3.9	4.8		19	6.4	7.7		4.6	2.7	9.4	2.9				36	11	19	20	7.0	7.1	7.2	7.0	7.0	7.0	7.0
Beryllium	µg/L	NG	5.3	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0				<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Bismuth	µg/L	NG	NG	<2.0	<2.0	<2.0	<2.0		<2.0	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0				<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Boron	µg/L	1500	1200	<50	100	<50	<50		<50	<50	<50		<50	<50	<50	<50				<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	
Cadmium	µg/L	0.04 - 0.37 <sup>4</sup>	0.01	<u>0.057</u>	<u>0.071</u>	<u>0.034</u>	<u>0.021</u>		<u>0.082</u>	<u>0.026</u>	<u>0.030</u>		<u>0.020</u>	0.010	<u>0.036</u>	<u>0.024</u>				<u>0.069</u>	<u>0.019</u>	<u>0.041</u>	<u>0.045</u>	<u>0.034</u>	<u>0.028</u>	<u>0.016</u>	<u>0.017</u>	<u>0.016</u>	<u>0.017</u>	
Calcium	µg/L	NG	NG	5100	8600	2100	2800		9700	3800	4800		3300	2400	3200	240				4700	3900	5200	5400	1700	1700	2000	2000	2000	2000	
Chromium	µg/L	8.9	NG	2.2	<1.0	<1.0	3.8		<1.0	<1.0	<1.0		1.1	<1.0	<1.0	1.6				7.4	1.0	3.4	<1.0	<1.0	<1.0	1.5	1.6	1.5	1.6	
Cobalt	µg/L	NG	10	3.0	0.45	<0.40	0.50		4.3	0.71	1.3		<0.40	<0.40	0.60	<0.40				4.4	0.72	1.1	1.1	0.60	0.60	<0.40	<0.40	<0.40	<0.40	
Copper	µg/L	2 - 4 <sup>5</sup>	2	<u>2.8</u>	<2.0	<u>2.2</u>	<u>2.2</u>		<2.0	<2.0	<2.0		<2.0	<2.0	<u>2.1</u>	<2.0				<u>6.6</u>	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Iron	µg/L	300	300	<u>1500</u>	200	<u>600</u>	<u>750</u>		<u>470</u>	190	<u>790</u>		180	210	<u>460</u>	280				<u>11000</u>	<u>2100</u>	<u>620</u>	<u>630</u>	<u>380</u>	<u>320</u>	<u>340</u>	<u>350</u>	<u>340</u>	<u>350</u>	
Lead	µg/L	1 to 7 <sup>6</sup>	1	<u>2.0</u>	<0.50	0.92	<u>1.1</u>		<0.50	<0.50	<0.50		0.51	<0.50	<u>2.1</u>	<0.50				<u>6.6</u>	1.0	<0.50	<0.50	0.61	<0.50	<0.50	<0.50	<0.50	<0.50	
Magnesium	µg/L	NG	NG	3000	5000	1100	1500		4700	2100	2500		2100	1400	<u>1600</u>	680				4000	2400	4700	4800	1300	1300	1400	1300	1400	1300	
Manganese	µg/L	NG	820	230	38	14	22		500	43	81		22	11	64	9.6				220	43	40	41	32	31	9.5	11	9.5	11	
Mercury	µg/L	0.026	0.026	<0.013	<0.013	0.017	0.013		<0.013	<0.013	<0.013		<0.013	<0.013	<u>0.055</u>	<0.013				0.018	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	<0.013	
Molybdenum	µg/L	73	73	<2.0	<2.0	<2.0	<2.0		<2.0	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0				<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Nickel	µg/L	25 - 150 <sup>7</sup>	25	<2.0	<2.0	<2.0	<2.0		2.3	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0				6.3	<2.0	2.9	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Phosphorus	µg/L	NG	NG	<100	<100	<100	<100		<100	<100	<100		<100	<100	390	<100				310	<100	<100	<100	<100	<100	<100	<100	<100	<100	
Potassium	µg/L	NG	NG	2000	2500	2800	2600		1400	630	750		960	1200	1700	<100				2400	1600	1600	1600	730	730	1100	1100	1100	1100	
Selenium	µg/L	1	1	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0				<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	
Silver	µg/L	0.25	0.1	<0.10	<0.10	<0.10	<0.10		<0.10	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10				<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Sodium	µg/L	NG	NG	31000	40000	17000	20000		22000	20000	21000		9900	11000	11000	5600				12000	10000	16000	16000	9200	9500	11000	10000	10000	10000	
Strontium	µg/L	NG	21000	38	65	13	19		70	27	32		24	17	24	3.4				29	24	32	34	12	12	13	14	13	14	
Thallium	µg/L	0.8	0.8	<0.10	<0.10	<0.10	<0.10		<0.10	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10				<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Tin	µg/L	NG	NG	<2.0	<2.0	<2.0	<2.0		<2.0	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0				<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Titanium	µg/L	NG	NG	20	3.4	5.7	8.1		<2.0	<2.0	9.5		<2.0	<2.0	5.5	2.4				170	12	4.0	4.1	5.5	4.4	6.2	5.7	5.7	5.7	
Uranium	µg/L	15	300	<0.10	<0.10	<0.10	<0.10		<0.10	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10				0.64	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	
Vanadium	µg/L	NG	6	<2.0	<2.0	<2.0	<2.0		<2.0	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0				<u>8.7</u>	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Zinc	µg/L	30	30	8.9	11	<5.0	<5.0		26	<5.0	5.7		<5.0	<5.0	5.5	<5.0				27	<5.0	11	9.9	6.4	6.0	<5.0	5.2	5.2	5.2	

Notes:

NG - no guideline

value

- exceeds CCME guidelines

*value*

- exceeds NSE EOS

value

- detection limit exceeds one or both guidelines

<sup>5</sup> At [CaCO<sub>3</sub>] = 0 to 120 mg/L, copper guideline = 2 ug/L.

At [CaCO3] = 120 to 180 mg/L, copper guideline = 3 ug/L.

At [CaCO3] = > 180 mg/L, copper guideline = 4 ug/L.

If hardness unknown, the CWQG is 2 ug/L

<sup>6</sup> At [CaCO<sub>3</sub>] = 0 to **≤**60 mg/L, lead guideline = 1 ug/L

At [CaCO<sub>3</sub>] = >60 to **≤**180 mg/L, lead guideline = e<sup>{1.273ln(hardness)-4.705}</sup>

At [CaCO<sub>3</sub>] = >180 mg/L, lead guideline = 7 ug/L

<sup>3</sup> 1999 (Update 2015) CCME Canadian Water Quality Guidelines for the Protection of Freshwater Aquatic Life.

<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EOS) for fresh water surface water

<sup>3</sup> Aluminium Guideline for pH < 6.5 = 5 ug/L  
Aluminium Guideline for pH **≥** 6.5 = 100 ug/L

<sup>4</sup> At [CaCO3] = > 0 to < 17 mg/L, cadmium guideline = 0.04 µg/L  
At [CaCO3] = **≥** 17 to **≤** 280 mg/L, cadmium guideline (µg/L) = 10<sup>{0.83(log(hardness)) - 2.46 }</sup>  
At [CaCO3] = > 280 mg/L, cadmium guideline = 0.37 µg/L

<sup>7</sup> At [CaCO<sub>3</sub>] **≤**60 mg/L, nickel guideline = 25 ug/L.  
At [CaCO3] >60 to **≤**180 mg/L, nickel guideline (µg/L) = e<sup>{0.76ln(hardness)+1.06}</sup>  
At [CaCO3] >180 mg/L, nickel guideline = 150 µg/L  
If hardness unknown, the CWQG is 25 ug/L

TABLE 4: TOTAL METALS in Surface Water  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	CCME FAL <sup>1</sup>	NSE Tier 1 EOS <sup>2</sup>	SAMPLE ID																										
				P1A					P1B					P2A					P2B					P3						
				19-Mar-16	15-Jul-16	1-Nov-16	30-Jan-17	25-Apr-17	19-Mar-16	15-Jul-16	1-Nov-16	30-Jan-17	25-Apr-17	19-Mar-16	14-Jul-16	1-Nov-16	30-Jan-17	25-Apr-17	19-Mar-16	14-Jul-16	1-Nov-16	30-Jan-17	25-Apr-17	19-Mar-16	14-Jul-16	1-Nov-16	30-Jan-17	25-Apr-17		
Aluminum	µg/L	5 or 100 <sup>3</sup>	5	4400	41000	680	640	1200	10000	DRY	40000	550	2200	620	DRY	DRY	390	840	1100	DRY	11000	380	410	850	33000	1600	1100	14000		
Antimony	µg/L	NG	20	<1.0	<10	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0			<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.2	<1.0	<1.0	<1.0
Arsenic	µg/L	5	5	10	38	4.0	2.2	22	2.4		8.4	<1.0	1.4	1.5			<1.0	2.3	2.4		7.6	<1.0	1.3	1.8	10	1.7	1.1	12		
Barium	µg/L	NG	1000	78	360	26	8.2	49	110		220	5.7	35	6.4			5.1	15	19		59	6.3	8.1	11	140	9.4	6.8	160		
Beryllium	µg/L	NG	5.3	<1.0	<10	<1.0	<1.0	<1.0	<1.0		2.3	<1.0	<1.0	<1.0			<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	1.7	<1.0	<1.0	<1.0	
Bismuth	µg/L	NG	NG	<2.0	<20	<2.0	<2.0	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0			<2.0	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Boron	µg/L	1500	1200	<50	<500	130	<50	<50	<50		<50	<50	<50	<50			<50	<50	<50		55	<50	<50	<50	<50	<50	<50	<50	<50	
Cadmium	µg/L	0.04 - 0.37 <sup>4</sup>	0.01	0.28	2.1	0.088	0.040	0.068	0.46		0.98	0.049	0.24	0.050			0.041	0.060	0.13		0.58	0.038	0.046	0.16	1.1	0.077	0.044	0.81		
Calcium	µg/L	NG	NG	11000	52000	14000	4300	8500	8200		24000	1200	3000	8200			8100	15000	4800		6800	2700	2900	4500	30000	5500	5700	25000		
Chromium	µg/L	8.9	NG	7.2	45	2.1	1.5	3.2	4.6		17	<1.0	2.6	1.5			<1.0	2.5	2.2		16	1.2	1.5	1.6	25	2.3	1.4	13		
Cobalt	µg/L	NG	10	4.9	22	2.6	1.1	2.8	5.2		12	1.0	2.2	0.71			0.75	3.2	2.6		6.1	0.66	0.48	1.2	6.9	1.1	0.53	6.0		
Copper	µg/L	2 - 4 <sup>5</sup>	2	17	84	6.2	2.0	4.9	18		51	<2.0	6.9	6.5			3.6	5.4	13		36	4.6	4.2	11	51	5.7	3.2	35		
Iron	µg/L	300	300	32000	75000	3300	2300	17000	5800		13000	840	4200	1600			1000	10000	3500		18000	1200	2000	1300	14000	1600	930	18000		
Lead	µg/L	1 to 7 <sup>6</sup>	1	16	140	2.7	1.1	6.6	43		110	0.67	7.5	2.1			0.64	1.7	7.0		27	0.68	0.97	6.5	110	4.3	3.7	47		
Magnesium	µg/L	NG	NG	2900	10000	5300	1600	2600	3800		9700	1500	2300	2300			2400	4100	1700		4200	1300	1200	1700	7800	2700	1700	6200		
Manganese	µg/L	NG	820	630	2800	790	210	510	110		210	36	52	40			86	540	290		380	140	69	33	330	60	33	380		
Mercury	µg/L	0.026	0.026	0.19	0.19	0.022	0.018	0.028	0.24		0.50	0.030	0.042	<0.013			0.022	0.057	0.017		0.21	0.018	0.030	0.025	0.57	0.20	0.79	0.90		
Molybdenum	µg/L	73	73	<2.0	<20	<2.0	<2.0	<2.0	2.1		8.7	<2.0	<2.0	2.4			2.4	3.5	<2.0		3.5	<2.0	<2.0	<2.0	9.2	<2.0	<2.0	4.6		
Nickel	µg/L	25 - 150 <sup>7</sup>	25	11	49	3.6	2.1	3.7	13		35	<2.0	5.1	2.4			<2.0	3.4	5.1		17	<2.0	<2.0	5.0	31	4.8	2.4	20		
Phosphorus	µg/L	NG	NG	1500	5100	140	<100	980	2500		5300	100	1800	350			<100	290	800		1100	240	130	660	5400	310	250	5200		
Potassium	µg/L	NG	NG	11000	13000	14000	4800	7500	1600		2200	1100	2000	13000			7700	15000	11000		20000	2400	3500	18000	14000	9300	3900	7600		
Selenium	µg/L	1	1	<1.0	<10	<1.0	<1.0	<1.0	1.5		5.1	<1.0	<1.0	<1.0			<1.0	<1.0	<1.0		1.0	<1.0	<1.0	<1.0	8.0	<1.0	<1.0	2.6		
Silver	µg/L	0.25	0.1	0.10	1.1	0.12	<0.10	<0.10	0.15		0.55	<0.10	<0.10	<0.10			<0.10	<0.10	<0.10		0.16	<0.10	<0.10	<0.10	1.2	<0.10	<0.10	0.61		
Sodium	µg/L	NG	NG	14000	15000	17000	9500	9600	7000		14000	9300	9700	12000			13000	20000	12000		21000	6300	8900	16000	16000	15000	9900	9300		
Strontium	µg/L	NG	21000	62	320	74	21	43	86		250	12	29	35			33	63	31		47	15	17	23	190	31	23	150		
Thallium	µg/L	0.8	0.8	<0.10	<1.0	<0.10	<0.10	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10			<0.10	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10		
Tin	µg/L	NG	NG	<2.0	<20	<2.0	<2.0	<2.0	<2.0		9.3	<2.0	<2.0	<2.0			<2.0	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0	8.4	5.8	2.3	<2.0		
Titanium	µg/L	NG	NG	100	520	17	7.7	23	100		360	3.1	27	18			7.9	20	38		310	9.5	12	16	390	29	17	230		
Uranium	µg/L	15	300	0.55	5.4	0.10	<0.10	0.14	0.77		3.3	<0.10	0.12	<0.10			<0.10	<0.10	0.13		0.57	<0.10	<0.10	0.11	3.7	0.18	0.10	1.2		
Vanadium	µg/L	NG	6	99	56	2.6	<2.0	5.5	10		36	<2.0	2.7	<2.0			<2.0	3.1	3.4		31	<2.0	<2.0	<2.0	26	3.1	<2.0	16		
Zinc	µg/L	30	30	87	530	61	22	59	29		47	<5.0	19	12			8.5	12	23		70	12	12	21	120	9.3	11	94		

Notes:

value

value

value

- exceeds CCME guidelines

- exceeds NSE EOS

- detection limit exceeds one or both guidelines

<sup>5</sup> At [CaCO<sub>3</sub>] = 0 to 120 mg/L, copper guideline = 2 ug/L.  
At [CaCO<sub>3</sub>] = 120 to 180 mg/L, copper guideline = 3 ug/L.  
At [CaCO<sub>3</sub>] = > 180 mg/L, copper guideline = 4 ug/L.  
If hardness unknown, the CWQG is 2 ug/L

<sup>6</sup> At [CaCO<sub>3</sub>] = 0 to ≤60 mg/L, lead guideline = 1 ug/L  
At [CaCO<sub>3</sub>] = >60 to ≤180 mg/L, lead guideline = e<sup>[(1.273ln(hardness))-4.705]</sup>  
At [CaCO<sub>3</sub>] = >180 mg/L, lead guideline = 7 ug/L

<sup>3</sup> 1999 (Update 2015) CCME Canadian Water Quality Guidelines for the Protection of Freshwater Aquatic Life.

<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EOS) for fresh water surface water

<sup>3</sup> Aluminium Guideline for pH < 6.5 = 5 ug/L  
Aluminium Guideline for pH ≥ 6.5 = 100 ug/L

<sup>4</sup> At [CaCO<sub>3</sub>] = > 0 to < 17 mg/L, cadmium guideline = 0.04 µg/L  
At [CaCO<sub>3</sub>] = ≥ 17 to ≤ 280 mg/L, cadmium guideline (µg/L) = 10<sup>[(0.83(log(hardness)) - 2.46 )</sup>  
At [CaCO<sub>3</sub>] = > 280 mg/L, cadmium guideline = 0.37 µg/L

<sup>7</sup> At [CaCO<sub>3</sub>] ≤60 mg/L, nickel guideline = 25 ug/L.  
At [CaCO<sub>3</sub>] >60 to ≤180 mg/L, nickel guideline (µg/L) = e<sup>[(0.76ln(hardness))+1.06]</sup>  
At [CaCO<sub>3</sub>] >180 mg/L, nickel guideline = 150 µg/L  
If hardness unknown, the CWQG is 25 ug/L

TABLE 5: DISSOLVED METALS in Surface Water  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	CCME FAL <sup>1</sup>	NSE Tier 1 EQS <sup>2</sup>	SAMPLE ID																									
				SW1				SW2				SW3				SW14						BACK2							
				14-Jul-16	31-Oct-16	31-Jan-17	26-Apr-17	14-Jul-16	31-Oct-16	30-Jan-17	25-Apr-17	15-Jul-16	1-Nov-16	30-Jan-17	25-Apr-17	15-Jul-16	31-Oct-16	Lab-Dup 1-Nov-16	31-Jan-17	26-Apr-17		14-Jul-16	SW-DUP2 14-Jul-16	1-Nov-16	SW-DUP2 1-Nov-16	30-Jan-17	SW-DUP2 30-Jan-17	25-Apr-17	SW-DUP2 25-Apr-17
Aluminum	µg/L	5 or 100 <sup>3</sup>	5	Dry	<u>1800</u>	<u>540</u>	<u>590</u>	<u>590</u>	<u>830</u>	<u>380</u>	<u>380</u>	<u>650</u>	<u>320</u>	<u>600</u>	<u>610</u>	<u>230</u>	<u>190</u>	<u>180</u>	<u>460</u>	<u>360</u>		<u>280</u>	<u>290</u>	<u>280</u>	<u>280</u>	<u>320</u>	<u>320</u>	<u>310</u>	<u>310</u>
Antimony	µg/L	NG	20		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	µg/L	5	5		1.7	<1.0	1.1	<1.0	1.0	<1.0	<1.0	2.4	1.1	1.6	2.0	<1.0	<1.0	<1.0	<1.0	<1.0		1.3	1.2	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Barium	µg/L	NG	1000		8.6	2.0	2.7	3.9	7.8	2.4	3.0	11	21	7.6	8.7	8.0	14	14	3.9	4.5		8.0	7.9	16	16	6.9	6.8	6.7	6.7
Beryllium	µg/L	NG	5.3		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bismuth	µg/L	NG	NG		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Boron	µg/L	1500	1200		<50	<50	<50	<50	<50	<50	<50	63	93	<50	<50	<50	96	100	<50	<50		<50	<50	<50	<50	<50	<50	<50	<50
Cadmium	µg/L	0.04 - 0.37 <sup>4</sup>	0.01		<u>0.11</u>	<u>0.032</u>	<u>0.035</u>	<u>0.046</u>	<u>0.072</u>	<u>0.020</u>	<u>0.029</u>	<u>0.038</u>	<u>0.042</u>	<u>0.033</u>	<u>0.037</u>	<u>0.044</u>	<u>0.063</u>	<u>0.062</u>	<u>0.028</u>	<u>0.017</u>		<u>0.016</u>	<u>0.016</u>	<u>0.056</u>	<u>0.031</u>	<u>0.021</u>	<u>0.028</u>	<u>0.015</u>	<u>0.019</u>
Calcium	µg/L	NG	NG		3000	810	1000	2200	4000	1300	1500	6500	16000	6200	7200	4700	8200	8000	2100	2900		3500	3400	4700	4700	1700	1700	2100	2100
Chromium	µg/L	8.9	NG		1.7	<1.0	<1.0	<1.0	1.1	<1.0	<1.0	1.3	2.7	1.4	2.5	<1.0	<1.0	<1.0	1.5	1.7		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cobalt	µg/L	NG	10		1.2	<0.40	<0.40	0.47	0.71	<0.40	<0.40	0.71	0.93	0.75	1.3	2.1	<0.40	<0.40	<0.40	<0.40		0.42	<0.40	0.55	0.55	0.54	0.56	<0.40	<0.40
Copper	µg/L	2 - 4 <sup>5</sup>	2		<u>3.9</u>	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<u>6.0</u>	<u>2.3</u>	<u>3.1</u>	<u>3.0</u>	<2.0	<2.0	<2.0	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Iron	µg/L	300	300		<u>1200</u>	<u>520</u>	<u>550</u>	<u>630</u>	<u>610</u>	300	290	<u>3800</u>	<u>840</u>	<u>2000</u>	<u>2100</u>	<u>400</u>	100	100	<u>520</u>	<u>530</u>		<u>1200</u>	<u>1100</u>	300	<u>320</u>	290	280	<u>330</u>	<u>330</u>
Lead	µg/L	1 - 7 <sup>6</sup>	1		<u>8.0</u>	<u>3.1</u>	<u>2.9</u>	<u>2.6</u>	<u>3.1</u>	<u>1.1</u>	<u>1.4</u>	<u>2.9</u>	0.67	0.87	0.98	0.69	<0.50	<0.50	<u>1.1</u>	0.68		0.64	0.65	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Magnesium	µg/L	NG	NG		1800	460	560	1400	2700	980	1100	1900	4900	2000	2200	2700	5000	5000	1100	1500		2200	2200	3700	3500	1300	1300	1400	1400
Manganese	µg/L	NG	820		40	10	15	25	41	14	15	84	270	110	230	190	37	38	12	11		23	18	24	23	31	30	8.8	9.1
Molybdenum	µg/L	73	73		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Nickel	µg/L	25 - 150 <sup>7</sup>	25		6.1	<2.0	<2.0	2.1	2.9	<2.0	<2.0	3.6	2.0	2.8	3.2	2.4	<2.0	<2.0	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Phosphorus	µg/L	NG	NG		<100	<100	<100	<100	<100	<100	<100	140	<100	<100	<100	<100	<100	<100	<100	<100		<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	NG	NG		9100	3800	4100	2500	3900	1800	1500	12000	13000	6900	7500	1900	3000	2800	2700	2600		1500	1500	1500	1500	710	710	1100	1100
Selenium	µg/L	1	1		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	µg/L	0.25	0.1		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sodium	µg/L	NG	NG		22000	9500	11000	9500	13000	7500	8200	15000	17000	11000	12000	30000	38000	38000	16000	21000		9800	9800	15000	14000	9000	9000	11000	11000
Strontium	µg/L	NG	21000		23	5.7	7.2	13	26	8.5	10	31	79	28	34	35	60	62	14	20		21	22	31	30	12	11	14	13
Thallium	µg/L	0.8	0.8		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Tin	µg/L	NG	NG		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	µg/L	NG	NG		28	7.6	7.9	6.1	9.6	3.2	3.8	16	4.8	9.7	10	2.3	2.1	<2.0	5.5	5.1		6.5	7.3	2.6	2.8	3.5	3.4	5.2	5.2
Uranium	µg/L	15	300		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10		<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	µg/L	NG	6		3.1	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.3	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0		<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Zinc	µg/L	30	30		16	5.9	9.1	8.2	13	6.9	8.0	19	<u>38</u>	<u>35</u>	<u>32</u>	8.9	11	11	7.1	6.4		6.4	6.4	11	9.6	7.9	8.6	6.2	5.8

Notes:  
NG - no guideline

value	- exceeds CCME guidelines
<u>value</u>	- exceeds NSE EQS
value	- detection limit exceeds one or both guidelines

<sup>3</sup> 1999 (Update 2015) CCME Canadian Water Quality Guidelines for the Protection of Freshwater Aquatic Life.

<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EQS) for fresh water surface water

<sup>3</sup> Aluminium Guideline for pH < 6.5 = 5 ug/L  
Aluminium Guideline for pH ≥ 6.5 = 100 ug/L

<sup>4</sup> At [CaCO3] = > 0 to < 17 mg/L, cadmium guideline = 0.04 µg/L  
At [CaCO3] = ≥ 17 to ≤ 280 mg/L, cadmium guideline (µg/L) = 10<sup>(0.83(log(hardness)) - 2.46)</sup>  
At [CaCO3] = > 280 mg/L, cadmium guideline = 0.37 µg/L

<sup>7</sup> At [CaCO<sub>3</sub>] ≤60 mg/L, nickel guideline = 25 ug/L  
At [CaCO3] >60 to ≤180 mg/L, nickel guideline (µg/L) = e<sup>(0.76(ln(hardness))-1.06)</sup>  
At [CaCO3] >180 mg/L, nickel guideline = 150 µg/L  
If hardness unknown, the CWQG is 25 ug/L

<sup>5</sup> At [CaCO<sub>3</sub>] = 0 to 120 mg/L, copper guideline = 2 ug/L.  
At [CaCO3] = 120 to 180 mg/L, copper guideline = 3 ug/L.  
At [CaCO3] = > 180 mg/L, copper guideline = 4 ug/L.  
If hardness unknown, the CWQG is 2 ug/L.

<sup>6</sup> At [CaCO<sub>3</sub>] = 0 to ≤60 mg/L, lead guideline = 1 ug/L.  
At [CaCO<sub>3</sub>] = >60 to ≤180 mg/L, lead guideline = e<sup>(1.273(ln(hardness))-4.705)</sup>  
At [CaCO<sub>3</sub>] = >180 mg/L, lead guideline = 7 ug/L.

TABLE 6: GENERAL CHEMISTRY in Potable Water  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	Health Canada Drinking Water Guidelines <sup>1</sup>	NSE Tier 1 EQS <sup>2</sup>	Sample ID																	
				PW2		PW2A			PW3												
				Dug		Drilled			Hose	Inlet (Pre-treat)	DUP Inlet (Pre-treat)	Inlet (Pre-treat)	Inlet (Pre-treat)	Lab-DUP Inlet (Pre-treat)	Inlet (Pre-treat)	Lab Dup Inlet (Pre-treat)	Inlet (Pre-treat)	Kitchen Tap	Kitchen Tap	Kitchen Tap	Kitchen Tap
				2-Feb-16	16-Mar-16	11-Jan-06	21-Mar-16	Lab Dup	2-Feb-16	16-Mar-16	16-Mar-16	15-Jul-16	19-Oct-16	19-Oct-16	31-Jan-17	31-Jan-17	25-Apr-17	15-Jul-16	19-Oct-16	31-Jan-17	25-Apr-17
Field pH	pH	7-10.5	NG	6.58	6.6	-	6.7	-	6.64	5.43	5.43	5.51	5.9	-	5.94	-	5.60	5.76	5.9	6.23	5.66
Field Conductivity	uS/cm	NG	NG	114	109	-	47	-	185	183	183	448	406	-	306	-	225	477	375	163	263
Field Temperature	°C	NG	NG	12.07	11.36	-	9.19	-	7.37	7.42	7.42	13.37	13.5	-	7.94	-	9.62	14.76	13	7.32	9.55
Anion Sum	me/L	NG	NG	1.51	1.48	1.19	1.35	-	2.64	2.86	2.88	5.54	3.32	-	2.51	-	3.55	-	-	-	-
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	41	37	24	27	-	12	9.5	10	9	19	-	8.8	-	11	-	-	-	-
Calculated TDS	mg/L	≤ 500 (AO)	NG	97	95	95	110	-	150	170	170	320	200	-	150	-	200	-	-	-	-
Carb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	<1.0	<1.0	<1.0	<1.0	-	<1.0	<1.0	<1.0	<1.0	<1.0	-	<1.0	-	<1.0	-	-	-	-
Cation Sum	me/L	NG	NG	1.36	1.41	1.36	1.50	-	2.30	2.55	2.63	5.20	3.24	-	2.25	-	3.15	-	-	-	-
Colour	TCU	≤ 15 (AO)	NG	<5.0	<5.0	<5.0	<5.0	-	<5.0	13	5.7	<5.0	<5.0	-	17	-	6.3	-	-	-	-
Conductivity	uS/cm	NG	NG	130	140	130	120	-	260	290	290	560	360	-	280	-	390	-	-	-	-
Chloride (Cl)	mg/L	≤ 250 (AO)	250	15	16	12	14	-	78	87	87	180	92	-	77	-	110	-	-	-	-
Sulphate (SO4)	mg/L	≤ 500 (AO)	NG	12	12	17	20	-	8.7	9.5	10	17	15	-	8.0	-	12	-	-	-	-
Hardness (CaCO3)	mg/L	NG	NG	45	45	37	37	-	23	22	23	34	33	-	21	-	25	-	-	-	-
Ion Balance (% Difference)	%	NG	NG	5.23	2.42	6.51	5.26	-	6.88	5.73	4.54	3.17	1.22	-	5.46	-	5.97	-	-	-	-
Langelier Index (@ 20C)	N/A	NG	NG	-1.58	-1.70	(2.14)	-2.05	-	-3.27	-3.33	-3.32	-3.30	-2.73	-	-3.31	-	-3.28	-	-	-	-
Langelier Index (@ 4C)	N/A	NG	NG	-1.84	-1.95	(2.39)	-2.30	-	-3.52	-3.58	-3.57	-3.55	-2.98	-	-3.56	-	-3.53	-	-	-	-
Nitrate (N)	mg/L	10 (MAC)	NG	0.45	0.42	<0.05	<0.050	-	0.15	0.093	0.10	0.11	0.12	-	0.092	-	0.13	-	-	-	-
Nitrate + Nitrite	mg/L	NG	NG	0.45	0.42	<0.05	<0.050	-	0.15	0.093	0.10	0.11	0.12	-	0.092	-	0.13	-	-	-	-
Nitrite (N)	mg/L	1 (MAC)	NG	<0.010	<0.010	<0.01	<0.010	-	<0.010	<0.010	<0.010	<0.010	<0.010	-	<0.010	-	<0.010	-	-	-	-
Nitrogen (Ammonia Nitrogen)	mg/L	NG	NG	<0.050	<0.050	<0.05	0.11	-	0.051	<0.050	<0.050	<0.050	<0.050	-	<0.050	-	<0.050	-	-	-	-
Orthophosphate (P)	mg/L	NG	NG	0.015	0.012	<0.01	0.013	-	<0.010	<0.010	0.012	<0.010	0.014	-	<0.010	-	<0.010	-	-	-	-
pH	pH	7-10.5	NG	7.00	6.93	6.84	6.89	-	6.19	6.28	6.23	6.20	6.39	-	6.31	-	6.21	-	-	-	-
Reactive Silica (SiO2)	mg/L	NG	NG	16	14	23	22	-	5.9	5.4	5.7	7.4	11	-	5.6	-	5.7	-	-	-	-
Saturation pH (@ 20C)	N/A	NG	NG	8.59	8.63	8.98	8.94	-	9.47	9.61	9.54	9.50	9.12	-	9.62	-	9.49	-	-	-	-
Saturation pH (@ 4C)	N/A	NG	NG	8.84	8.88	9.23	9.19	-	9.72	9.86	9.79	9.75	9.37	-	9.87	-	9.74	-	-	-	-
Total Alkalinity (Total as CaCO3)	mg/L	NG	NG	41	37	24	27	-	12	9.5	10	9	19	-	8.8	-	11	-	-	-	-
Total Organic Carbon (C)	mg/L	NG	NG	<0.50	<0.50	<0.5	0.58	0.6	0.56	0.74	0.61	0.95	0.79	0.66	0.61	-	0.90	-	-	-	-
Turbidity	NTU	1 (MAC) <sup>3</sup>	NG	0.49	0.71	39	52	-	0.66	0.37	0.40	1.20	0.69	-	0.34	0.37	0.42	-	-	-	-

Notes:

AO - Aesthetic Objective

MAC - Maximum Acceptable Concentration

NG - no guideline

NR -data not recorded due to equipment malfunction

value

value

- exceeds Health Canada DWQG

- exceeds NSE EQS

(1) Elevated reporting limit due to sample matrix.

(2) Reporting limit was increased due to turbidity.

(3) The sample was decanted due to sediment.

(4) Elevated reporting limit due to blank performance.

<sup>1</sup> 2017 Health Canada Canadian Water Quality Guidelines for Community (Drinking) Water (HCDWQ )  
<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EQS) for potable water at a residential site with coarse-grained soil  
<sup>3</sup> Guideline applies to individual filter turbidity for municipal systems using surface water or groundwater under the direct influence of surface water.

TABLE 6: GENERAL CHEMISTRY in Potable Water  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	Health Canada Drinking Water Guidelines <sup>1</sup>	NSE Tier 1 EQS <sup>2</sup>	Sample ID					
				PW8					
				Inlet (Pre-treat)					
				2-Feb-16	16-Mar-16	15-Jul-16	31-Oct-16	31-Jan-17	26-Apr-17
Field pH	pH	7-10.5	NG	6.95	6.25	6.11	6.06	5.43	5.59
Field Conductivity	uS/cm	NG	NG	234	99	183	NR	295	180
Field Temperature	°C	NG	NG	10.24	7.28	10.45	10	8.93	9.95
Anion Sum	me/L	NG	NG	3.29	2.77	2.63	2.62	2.60	2.63
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	58	61	63	65	69	69
Calculated TDS	mg/L	≤ 500 (AO)	NG	190	170	160	160	160	160
Carb. Alkalinity (calc. as CaCO3)	mg/L	NG	NG	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cation Sum	me/L	NG	NG	2.80	2.62	2.5	2.53	2.61	2.54
Colour	TCU	≤ 15 (AO)	NG	<5.0	<5.0	5.4	<5.0	<5.0	<5.0
Conductivity	uS/cm	NG	NG	290	250	240	270	260	260
Chloride (Cl)	mg/L	≤ 250 (AO)	250	68	47	41	40	37	37
Sulphate (SO4)	mg/L	≤ 500 (AO)	NG	10	10	9.9	9.3	8.2	9.9
Hardness (CaCO3)	mg/L	NG	NG	83	83	85	84	84	87
Ion Balance (% Difference)	%	NG	NG	8.05	2.78	2.53	1.75	0.190	1.74
Langelier Index (@ 20C)	N/A	NG	NG	-0.950	-0.737	-0.469	-0.720	-0.609	-0.588
Langelier Index (@ 4C)	N/A	NG	NG	-1.20	-0.987	-0.719	-0.970	-0.859	-0.839
Nitrate (N)	mg/L	10 (MAC)	NG	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrate + Nitrite	mg/L	NG	NG	<0.050	<0.050	<0.050	<0.050	<0.050	<0.050
Nitrite (N)	mg/L	1 (MAC)	NG	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Nitrogen (Ammonia Nitrogen)	mg/L	NG	NG	0.068	0.068	<0.050	0.052	0.050	<0.050
Orthophosphate (P)	mg/L	NG	NG	0.017	0.020	0.016	0.020	0.018	<0.010
pH	pH	7-10.5	NG	7.29	7.47	7.71	7.44	7.53	7.53
Reactive Silica (SiO2)	mg/L	NG	NG	21	21	22	22	22	21
Saturation pH (@ 20C)	N/A	NG	NG	8.24	8.20	8.18	8.16	8.14	8.12
Saturation pH (@ 4C)	N/A	NG	NG	8.49	8.45	8.43	8.41	8.39	8.37
Total Alkalinity (Total as CaCO3)	mg/L	NG	NG	58	61	63	65	69	69
Total Organic Carbon (C)	mg/L	NG	NG	<0.50	<0.50	0.5	0.54	0.72	0.63
Turbidity	NTU	1 (MAC) <sup>3</sup>	NG	12	7.4	14	14	66	6.2

Notes:

AO - Aesthetic Objective

MAC - Maximum Acceptable Concentration

NG - no guideline

NR -data not recorded due to equipment malfunction

value

value

- exceeds Health Canada DWQG

- exceeds NSE EQS

(1) Elevated reporting limit due to sample matrix.

(2) Reporting limit was increased due to turbidity.

(3) The sample was decanted due to sediment.

(4) Elevated reporting limit due to blank performance.

<sup>1</sup> 2017 Health Canada Canadian Water Quality Guidelines for Community (Drinking) Water (HCDWQ )

<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EQS) for potable water at a residential site with coarse-grained soil

<sup>3</sup> Guideline applies to individual filter turbidity for municipal systems using surface water or groundwater under the direct influence of surface water.



TABLE 7: TOTAL METALS in Potable Water  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	Health Canada Drinking Water Guidelines <sup>1</sup>	NSE Tier 1 EOS <sup>2</sup>	Sample ID															
				PW2		PW2A		PW3											
				Dug		Drilled		Hose	Inlet (Pre-treat)	DUP Inlet (Pre-treat)	Inlet (Pre-treat)	Lab Dup Inlet (Pre-treat)	Inlet (Pre-treat)	Inlet (Pre-treat)	Inlet (Pre-treat)	Kitchen Tap			
				2-Feb-16	16-Mar-16	11-Jan-06	21-Mar-16	2-Feb-16	16-Mar-16	16-Mar-16	15-Jul-16	15-Jul-16	19-Oct-16	31-Jan-17	25-Apr-17	15-Jul-16	19-Oct-16	31-Jan-17	25-Apr-17
Aluminum	µg/L	100 <sup>3</sup>	NG	12	24	<10	24	110	110	110	170	170	59	94	95	160	53	91	91
Antimony	µg/L	6 (MAC)	6	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	µg/L	10 (MAC)	10	<1.0	<1.0	9	23	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Barium	µg/L	1000 (MAC)	1000	8.1	8.1	<5.0	3.5	18	19	20	41	41	22	16	22	40	19	16	21
Beryllium	µg/L	NG	4	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bismuth	µg/L	NG	NG	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Boron	µg/L	5000 (MAC)	5000	<50	<50	<5.0	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50
Cadmium	µg/L	5 (MAC)	5	0.025	0.038	<0.3	0.067	0.072	0.063	0.055	0.11	0.10	0.050	0.054	0.051	0.10	0.046	0.040	0.046
Calcium	µg/L	NG	NG	14000	14000	9500	9400	6500	6200	6500	9400	9300	9800	6300	7100	9300	9100	6000	7200
Chromium	µg/L	50 (MAC)	50	<1.0	<1.0	<2.0	3.5	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cobalt	µg/L	NG	10	<0.40	<0.40	<1.0	0.70	<0.40	<0.40	<0.40	0.62	0.59	0.67	<0.40	<0.40	0.61	0.72	<0.40	<0.40
Copper	µg/L	≤1000 (AO)	NG	86	59	6	67	260	7.5	6.3	8.3	8.3	2.7	5.2	6.9	69	60	76	100
Iron	µg/L	≤300 (AO)	NG	<50	<50	3600	8300	120	210	180	380	380	250	530	200	180	240	440	220
Lead	µg/L	10 (MAC)	10	1.3	1.1	2.0	7.2	15	1.1	1.1	1.9	1.8	0.68	0.99	1.6	0.69	<0.50	<0.50	<0.50
Magnesium	µg/L	NG	NG	2600	2600	3300	3200	1600	1700	1700	2700	2700	2100	1400	1600	2600	1900	1400	1700
Manganese	µg/L	≤50 (AO)	NG	9.8	10	160	480	30	42	44	110	110	140	28	41	100	140	27	42
Mercury	µg/L	1 (MAC)	1	<0.013	0.020	-	-	<0.013	0.013	<0.013	-	-	-	-	-	-	-	-	-
Molybdenum	µg/L	NG	70	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Nickel	µg/L	NG	100	<2.0	<2.0	<2.0	9.3	7.5	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Phosphorus	µg/L	NG	NG	<100	<100	<100	140	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100	<100
Potassium	µg/L	NG	NG	1700	1600	900	870	690	680	730	1000	1000	900	740	750	1000	830	710	770
Selenium	µg/L	50 (MAC)	10	<1.0	<1.0	<2.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	µg/L	NG	100	<0.10	<0.10	<0.5	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sodium	µg/L	≤ 200,000 (AO)	200,000	9400	11000	11000	10000	42000	48000	49000	100000	100000	59000	41000	60000	98000	52000	41000	61000
Strontium	µg/L	NG	4400	77	83	40	38	33	37	38	65	65	55	32	40	64	51	31	40
Tellurium	µg/L	NG	NG	-	-	-	-	-	-	-	-	-	-	-	<2.0	-	-	-	<2.0
Thallium	µg/L	NG	2	<0.10	<0.10	<0.1	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Tin	µg/L	NG	4400	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	µg/L	NG	NG	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Uranium	µg/L	20 (MAC)	20	<0.10	<0.10	<0.1	0.12	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Vanadium	µg/L	NG	6.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Zinc	µg/L	≤5000 (AO)	5000	33	29	20	380		210	39	24	31	11	29	29	11	8.1	12	8.9

Notes:

AO - Aesthetic Objective

MAC - Maximum Acceptable Concentration

OG - Operational Guideline

NG - no guideline

value

value

- exceeds Health Canada DWQG

-exceeds NSE EOS

<sup>1</sup> 2017 Health Canada Canadian Water Quality Guidelines for Community (Drinking) Water (HCDWQ )

<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EQS) for potable water at a residential site with coarse-grained soil

<sup>3</sup> For municipal treatment systems only: does not apply to naturally occurring aluminum in groundwater

TABLE 7: TOTAL METALS in Potable Water continued  
Client: Town of Yarmouth  
Site Location: Lake George Road, Lake George, NS  
Englobe Project No.: P-0010903

PARAMETER	UNITS	Health Canada Drinking Water Guidelines <sup>1</sup>	NSE Tier 1 EOS <sup>2</sup>	Sample ID					
				PW8					
				Inlet (Pre-treat)					
				2-Feb-16	16-Mar-16	15-Jul-16	31-Oct-16	31-Jan-17	26-Apr-17
Aluminum	µg/L	100 <sup>3</sup>	NG	5.7	<5.0	7.5	6.7	22	6.1
Antimony	µg/L	6 (MAC)	6	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Arsenic	µg/L	10 (MAC)	10	1.1	1.1	2.3	1.8	8.7	1.5
Barium	µg/L	1000 (MAC)	1000	18	18	18	17	19	18
Beryllium	µg/L	NG	4	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Bismuth	µg/L	NG	NG	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Boron	µg/L	5000 (MAC)	5000	<50	<50	<50	<50	<50	<50
Cadmium	µg/L	5 (MAC)	5	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010
Calcium	µg/L	NG	NG	24000	24000	25000	25000	25000	26000
Chromium	µg/L	50 (MAC)	50	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Cobalt	µg/L	NG	10	<0.40	<0.40	<0.40	<0.40	<0.40	<0.40
Copper	µg/L	≤1000 (AO)	NG	21	<2.0	<2.0	<2.0	5.3	<2.0
Iron	µg/L	≤300 (AO)	NG	1000	800	1600	1600	6300	980
Lead	µg/L	10 (MAC)	10	7.5	<0.50	<0.50	<0.50	<0.50	<0.50
Magnesium	µg/L	NG	NG	5500	5400	5600	5400	5200	5400
Manganese	µg/L	≤50 (AO)	NG	420	350	260	280	260	250
Mercury	µg/L	1 (MAC)	1	<0.013	<0.013	-	-	-	-
Molybdenum	µg/L	NG	70	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Nickel	µg/L	NG	100	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Phosphorus	µg/L	NG	NG	<100	<100	<100	<100	120	<100
Potassium	µg/L	NG	NG	1600	1600	1600	1600	1700	1800
Selenium	µg/L	50 (MAC)	10	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0
Silver	µg/L	NG	100	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Sodium	µg/L	≤ 200,000 (AO)	200,000	25000	20000	16000	17000	15000	16000
Strontium	µg/L	NG	4400	140	150	150	150	160	150
Tellurium	µg/L	NG	NG	-	-	-	-	-	<2.0
Thallium	µg/L	NG	2	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10
Tin	µg/L	NG	4400	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Titanium	µg/L	NG	NG	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Uranium	µg/L	20 (MAC)	20	<0.10	<0.10	<0.10	<0.10	0.15	<0.10
Vanadium	µg/L	NG	6.2	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Zinc	µg/L	≤5000 (AO)	5000	<5.0	<5.0	<5.0	<5.0	<5.0	<5.0

Notes:  
AO - Aesthetic Objective  
MAC - Maximum Acceptable Concentration  
**OG - Operational Guideline**  
NG - no guideline

value

- exceeds Health Canada DWQG

value

-exceeds NSE EOS

<sup>1</sup> 2017 Health Canada Canadian Water Quality Guidelines for Community (Drinking) Water (HCDWQ )  
<sup>2</sup> 2013 NSE Tier 1 Environmental Quality Standards (EQS) for potable water at a residential site with coarse-grained soil  
<sup>3</sup> For municipal treatment systems only: does not apply to naturally occurring aluminum in groundwater

TABLE 8: METALS in Sediment

Client: Town of Yarmouth

Site Location: 2014 Lake George Road, Lake George, NS

Englobe Project No.: 21347

PARAMETER	UNITS	2013 NSE TIER 1 EOS <sup>1</sup>	SAMPLE ID (DEPTH) DATE SAMPLED						
			SW1		SW2	SW3	SW12	SW14	BACK2
			(0 - 0.2m) 15-Jul-16	Lab-Dup 15-Jul-16	(0 - 0.2m) 14-Jul-16	(0 - 0.2m) 15-Jul-16	(0 - 0.2m) 15-Jul-16	(0 - 0.2m) 15-Jul-16	(0 - 0.2m) 14-Jul-16
Aluminum (Al)	mg/kg	NG	12000	12000	2800	5300	6600	13000	10000
Antimony (Sb)	mg/kg	25	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Arsenic (As)	mg/kg	17	2.7	2.8	4.0	8.0	2.5	21	21
Barium (Ba)	mg/kg	NG	15	15	21	33	44	19	55
Beryllium (Be)	mg/kg	NG	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Bismuth (Bi)	mg/kg	NG	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Boron (B)	mg/kg	NG	<50	<50	<50	<50	<50	<50	<50
Cadmium (Cd)	mg/kg	3.5	<0.30	<0.30	<0.30	<0.30	0.52	<0.30	<0.30
Chromium (Cr)	mg/kg	90	26	27	3.2	9.5	7.0	25	23
Cobalt (Co)	mg/kg	NG	9.1	9.0	1.5	4.4	2.9	24	9.6
Copper (Cu)	mg/kg	197	5.8	6.2	5.9	6.4	14	6.5	8.6
Iron (Fe)	mg/kg	43,766	19000	19000	3000	16000	7900	31000	36000
Lead (Pb)	mg/kg	91.3	13	13	20	13	41	26	10
Lithium (Li)	mg/kg	NG	27	28	<2.0	7.3	<2.0	25	35
Manganese (Mn)	mg/kg	1,100	370	370	68	400	66	1100	270
Mercury	mg/kg	0.486	0.10	<0.10	0.24	0.12	0.34	<0.10	<0.10
Molybdenum (Mo)	mg/kg	NG	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.2
Nickel (Ni)	mg/kg	75	24	24	4.1	7.8	10	21	12
Rubidium (Rb)	mg/kg	NG	6.4	6.2	2.3	6.5	2.6	5.4	27
Selenium (Se)	mg/kg	2	<1.0	<1.0	<1.0	<1.0	1.1	1.2	<1.0
Silver (Ag)	mg/kg	1	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50
Strontium (Sr)	mg/kg	NG	7.8	8.2	23	20	24	11	5.6
Thallium (Tl)	mg/kg	NG	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.14
Tin (Sn)	mg/kg	NG	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0
Uranium (U)	mg/kg	NG	0.40	0.38	0.26	0.48	0.67	0.62	0.69
Vanadium (V)	mg/kg	NG	17	17	3.5	9.1	11	37	47
Zinc (Zn)	mg/kg	315	49	52	17	38	25	52	39

Notes: value - value exceeds NSE standard

NG - no guideline

<sup>1</sup> 2013 Nova Scotia Environment Tier 1 Environmental Quality Standards for freshwater sediment.

## **Appendix 3**

## **Laboratory Certificates**

Your P.O. #: A06016  
Your Project #: P-0010903  
Site Location: LAKE GEORGE  
Your C.O.C. #: 568681-01-01, D11596

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

**Report Date: 2016/07/22**

Report #: R4077290

Version: 1 - Final

## CERTIFICATE OF ANALYSIS

**MAXXAM JOB #: B6E7556**

**Received: 2016/07/15, 11:56**

Sample Matrix: Water  
# Samples Received: 13

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Carbonate, Bicarbonate and Hydroxide	8	N/A	2016/07/19	N/A	SM 22 4500-CO2 D
Carbonate, Bicarbonate and Hydroxide	1	N/A	2016/07/20	N/A	SM 22 4500-CO2 D
Carbonate, Bicarbonate and Hydroxide	4	N/A	2016/07/22	N/A	SM 22 4500-CO2 D
Alkalinity	13	N/A	2016/07/22	ATL SOP 00013	EPA 310.2 R1974 m
Chloride	13	N/A	2016/07/22	ATL SOP 00014	SM 22 4500-Cl- E m
Colour	13	N/A	2016/07/21	ATL SOP 00020	SM 22 2120C m
Conductance - water	8	N/A	2016/07/19	ATL SOP 00004	SM 22 2510B m
Conductance - water	1	N/A	2016/07/20	ATL SOP 00004	SM 22 2510B m
Conductance - water	4	N/A	2016/07/22	ATL SOP 00004	SM 22 2510B m
Hardness (calculated as CaCO3)	1	N/A	2016/07/21	ATL SOP 00048	SM 22 2340 B
Hardness (calculated as CaCO3)	12	N/A	2016/07/22	ATL SOP 00048	SM 22 2340 B
Mercury - Total (CVAA,LL)	13	2016/07/21	2016/07/22	ATL SOP 00026	EPA 245.1 R3 m
Metals Water Diss. MS (1)	1	N/A	2016/07/22	ATL SOP 00058	EPA 6020A R1 m
Metals Water Diss. MS (as rec'd)	3	N/A	2016/07/21	ATL SOP 00058	EPA 6020A R1 m
Metals Water Diss. MS (as rec'd)	1	N/A	2016/07/22	ATL SOP 00058	EPA 6020A R1 m
Metals Water Total MS	1	2016/07/19	2016/07/20	ATL SOP 00058	EPA 6020A R1 m
Metals Water Total MS	8	2016/07/20	2016/07/21	ATL SOP 00058	EPA 6020A R1 m
Metals Water Total MS	3	2016/07/21	2016/07/21	ATL SOP 00058	EPA 6020A R1 m
Metals Water Total MS	1	2016/07/21	2016/07/22	ATL SOP 00058	EPA 6020A R1 m
Ion Balance (% Difference)	13	N/A	2016/07/22		Auto Calc.
Anion and Cation Sum	13	N/A	2016/07/22		Auto Calc.
Nitrogen Ammonia - water	13	N/A	2016/07/21	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite	13	N/A	2016/07/22	ATL SOP 00016	USGS SOPINCF0452.2 m
Nitrogen - Nitrite	13	N/A	2016/07/22	ATL SOP 00017	SM 22 4500-NO2- B m
Nitrogen - Nitrate (as N)	13	N/A	2016/07/22	ATL SOP 00018	ASTM D3867
pH (2)	8	N/A	2016/07/19	ATL SOP 00003	SM 22 4500-H+ B m
pH (2)	1	N/A	2016/07/20	ATL SOP 00003	SM 22 4500-H+ B m
pH (2)	4	N/A	2016/07/22	ATL SOP 00003	SM 22 4500-H+ B m
Phosphorus - ortho	13	N/A	2016/07/22	ATL SOP 00021	EPA 365.2 m
Sat. pH and Langelier Index (@ 20C)	13	N/A	2016/07/22	ATL SOP 00049	Auto Calc.

Your P.O. #: A06016  
Your Project #: P-0010903  
Site Location: LAKE GEORGE  
Your C.O.C. #: 568681-01-01, D11596

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

**Report Date: 2016/07/22**

Report #: R4077290

Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B6E7556**

**Received: 2016/07/15, 11:56**

Sample Matrix: Water  
# Samples Received: 13

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Sat. pH and Langelier Index (@ 4C)	13	N/A	2016/07/22	ATL SOP 00049	Auto Calc.
Reactive Silica	13	N/A	2016/07/21	ATL SOP 00022	EPA 366.0 m
Sulphate	13	N/A	2016/07/22	ATL SOP 00023	ASTMD516-11 m
Total Dissolved Solids (TDS calc)	13	N/A	2016/07/22		Auto Calc.
Organic carbon - Total (TOC) (3)	13	N/A	2016/07/21	ATL SOP 00037	SM 22 5310C m
Total Suspended Solids	3	2016/07/20	2016/07/20	ATL SOP 00007	SM 22 2540D m
Total Suspended Solids	2	2016/07/20	2016/07/21	ATL SOP 00007	SM 22 2540D m
Turbidity	9	N/A	2016/07/19	ATL SOP 00011	EPA 180.1 R2 m
Turbidity	4	N/A	2016/07/22	ATL SOP 00011	EPA 180.1 R2 m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Sample filtered in laboratory prior to analysis for dissolved metals.

(2) The APHA Standard Method require pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.

(3) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Encryption Key



Maxxam  
22 Jul 2016 17:51:48 -03:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Avery Withrow, Project Manager

Email: AWithrow@maxxam.ca

Phone# (902)420-0203 Ext:233

=====

This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		CSF359		CSF360			CSF361			
Sampling Date		2016/07/14 10:00		2016/07/14 11:00			2016/07/14 11:55			
COC Number		568681-01-01		568681-01-01			568681-01-01			
	UNITS	SW13	QC Batch	SW2	RDL	QC Batch	P3	RDL	QC Batch	MDL
<b>Calculated Parameters</b>										
Anion Sum	me/L	0.370	4580734	0.460	N/A	4580734	0.850	N/A	4580734	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	4580730	<1.0	1.0	4580730	9.2	1.0	4580730	0.20
Calculated TDS	mg/L	34	4580738	43	1.0	4580738	120	1.0	4580738	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	4580730	<1.0	1.0	4580730	<1.0	1.0	4580730	0.20
Cation Sum	me/L	0.550	4580734	0.720	N/A	4580734	3.70	N/A	4580734	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	4.9	4580732	11	1.0	4580732	110	1.0	4580732	1.0
Ion Balance (% Difference)	%	19.6	4580733	22.0	N/A	4580733	62.6	N/A	4580733	N/A
Langelier Index (@ 20C)	N/A	NC	4580736	NC		4580736	-3.08		4580736	
Langelier Index (@ 4C)	N/A	NC	4580737	NC		4580737	-3.33		4580737	
Nitrate (N)	mg/L	<0.050	4580735	0.057	0.050	4580735	0.050	0.050	4580735	N/A
Saturation pH (@ 20C)	N/A	NC	4580736	NC		4580736	8.92		4580736	
Saturation pH (@ 4C)	N/A	NC	4580737	NC		4580737	9.17		4580737	
<b>Inorganics</b>										
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	<5.0	4586424	<5.0	5.0	4586424	9.2	5.0	4586424	N/A
Dissolved Chloride (Cl)	mg/L	13	4586426	14	1.0	4586426	20	1.0	4586426	N/A
Colour	TCU	420	4586439	390	150	4586439	500	250	4586439	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	4586447	0.057	0.050	4586447	0.062	0.050	4586447	N/A
Nitrite (N)	mg/L	<0.010	4586455	<0.010	0.010	4586455	0.011	0.010	4586455	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	0.065	4587902	<0.050	0.050	4587902	0.37	0.050	4587902	N/A
Total Organic Carbon (C)	mg/L	23 (1)	4585766	20 (1)	5.0	4585766	59 (2)	50	4585766	N/A
Orthophosphate (P)	mg/L	0.015	4586445	0.023	0.010	4586445	0.035	0.010	4586445	N/A
pH	pH	4.98	4583894	5.98	N/A	4583911	5.84	N/A	4585674	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	8.4	4586433	9.8	0.50	4586433	12	0.50	4586433	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	<2.0	4586428	3.4	2.0	4586428	4.6	2.0	4586428	N/A
Turbidity	NTU	2.6	4584024	6.5	0.10	4584024	>1000	1.0	4584024	0.10
Conductivity	uS/cm	66	4583896	74	1.0	4583912	110	1.0	4585675	N/A
<b>Metals</b>										
Total Aluminum (Al)	ug/L	640	4585662	620	5.0	4585662	33000	5.0	4585895	N/A
Total Antimony (Sb)	ug/L	<1.0	4585662	<1.0	1.0	4585662	1.2	1.0	4585895	N/A
Total Arsenic (As)	ug/L	<1.0	4585662	1.1	1.0	4585662	10	1.0	4585895	N/A
Total Barium (Ba)	ug/L	2.9	4585662	4.2	1.0	4585662	140	1.0	4585895	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Elevated reporting limit due to sample matrix. (2) Reporting limit was increased due to turbidity.										



Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		CSF359		CSF360			CSF361			
Sampling Date		2016/07/14 10:00		2016/07/14 11:00			2016/07/14 11:55			
COC Number		568681-01-01		568681-01-01			568681-01-01			
	UNITS	SW13	QC Batch	SW2	RDL	QC Batch	P3	RDL	QC Batch	MDL
Total Beryllium (Be)	ug/L	<1.0	4585662	<1.0	1.0	4585662	1.7	1.0	4585895	N/A
Total Bismuth (Bi)	ug/L	<2.0	4585662	<2.0	2.0	4585662	<2.0	2.0	4585895	N/A
Total Boron (B)	ug/L	<50	4585662	<50	50	4585662	<50	50	4585895	N/A
Total Cadmium (Cd)	ug/L	0.030	4585662	0.046	0.010	4585662	1.1	0.010	4585895	N/A
Total Calcium (Ca)	ug/L	800	4585662	2200	100	4585662	30000	100	4585895	N/A
Total Chromium (Cr)	ug/L	1.2	4585662	1.0	1.0	4585662	25	1.0	4585895	N/A
Total Cobalt (Co)	ug/L	0.65	4585662	0.59	0.40	4585662	6.9	0.40	4585895	N/A
Total Copper (Cu)	ug/L	<2.0	4585662	<2.0	2.0	4585662	51	2.0	4585895	N/A
Total Iron (Fe)	ug/L	1000	4585662	670	50	4585662	14000	50	4585895	N/A
Total Lead (Pb)	ug/L	2.3	4585662	2.8	0.50	4585662	110	0.50	4585895	N/A
Total Magnesium (Mg)	ug/L	710	4585662	1400	100	4585662	7800	100	4585895	N/A
Total Manganese (Mn)	ug/L	9.8	4585662	25	2.0	4585662	330	2.0	4585895	N/A
Total Molybdenum (Mo)	ug/L	<2.0	4585662	<2.0	2.0	4585662	9.2	2.0	4585895	N/A
Total Nickel (Ni)	ug/L	2.7	4585662	2.4	2.0	4585662	31	2.0	4585895	N/A
Total Phosphorus (P)	ug/L	<100	4585662	<100	100	4585662	5400	100	4585895	N/A
Total Potassium (K)	ug/L	1700	4585662	2600	100	4585662	14000	100	4585895	N/A
Total Selenium (Se)	ug/L	<1.0	4585662	<1.0	1.0	4585662	8.0	1.0	4585895	N/A
Total Silver (Ag)	ug/L	<0.10	4585662	<0.10	0.10	4585662	1.2	0.10	4585895	N/A
Total Sodium (Na)	ug/L	8100	4585662	9800	100	4585662	16000	100	4585895	N/A
Total Strontium (Sr)	ug/L	6.8	4585662	14	2.0	4585662	190	2.0	4585895	N/A
Total Thallium (Tl)	ug/L	<0.10	4585662	<0.10	0.10	4585662	<0.10	0.10	4585895	N/A
Total Tin (Sn)	ug/L	<2.0	4585662	<2.0	2.0	4585662	8.4	2.0	4585895	N/A
Total Titanium (Ti)	ug/L	5.5	4585662	8.9	2.0	4585662	390	2.0	4585895	N/A
Total Uranium (U)	ug/L	<0.10	4585662	<0.10	0.10	4585662	3.7	0.10	4585895	N/A
Total Vanadium (V)	ug/L	<2.0	4585662	<2.0	2.0	4585662	26	2.0	4585895	N/A
Total Zinc (Zn)	ug/L	<5.0	4585662	7.0	5.0	4585662	120	5.0	4585895	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable										

Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

<b>Maxxam ID</b>		CSF362			CSF363			CSF364			
<b>Sampling Date</b>		2016/07/14			2016/07/14 15:50			2016/07/14 17:30			
<b>COC Number</b>		568681-01-01			568681-01-01			568681-01-01			
	<b>UNITS</b>	<b>SWDUP1</b>	<b>RDL</b>	<b>QC Batch</b>	<b>SW5</b>	<b>RDL</b>	<b>QC Batch</b>	<b>BACK2</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Calculated Parameters

Anion Sum	me/L	4.04	N/A	4580734	1.46	N/A	4580734	0.810	N/A	4580734	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	150	1.0	4580730	41	1.0	4580730	11	1.0	4580730	0.20
Calculated TDS	mg/L	240	1.0	4580738	100	1.0	4580738	60	1.0	4580738	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4580730	<1.0	1.0	4580730	<1.0	1.0	4580730	0.20
Cation Sum	me/L	4.60	N/A	4580734	1.96	N/A	4580734	0.870	N/A	4580734	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	100	1.0	4580732	34	1.0	4580732	18	1.0	4580732	1.0
Ion Balance (% Difference)	%	6.48	N/A	4580733	14.6	N/A	4580733	3.57	N/A	4580733	N/A
Langelier Index (@ 20C)	N/A	-0.414		4580736	-1.28		4580736	-2.98		4580736	
Langelier Index (@ 4C)	N/A	-0.663		4580737	-1.53		4580737	-3.23		4580737	
Nitrate (N)	mg/L	0.062	0.050	4580735	0.095	0.050	4580735	0.30	0.050	4580735	N/A
Saturation pH (@ 20C)	N/A	7.82		4580736	8.79		4580736	9.74		4580736	
Saturation pH (@ 4C)	N/A	8.07		4580737	9.05		4580737	9.99		4580737	

#### Inorganics

Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	150	25	4586424	41	5.0	4586424	11	5.0	4586424	N/A
Dissolved Chloride (Cl)	mg/L	37	1.0	4586426	20	1.0	4586426	16	1.0	4586426	N/A
Colour	TCU	560	250	4586439	400	150	4586439	230	25	4586439	N/A
Nitrate + Nitrite (N)	mg/L	0.062	0.050	4586447	0.095	0.050	4586447	0.30	0.050	4586447	N/A
Nitrite (N)	mg/L	<0.010	0.010	4586455	<0.010	0.010	4586455	<0.010	0.010	4586455	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	0.67	0.050	4587902	<0.050	0.050	4587902	0.085	0.050	4587902	N/A
Total Organic Carbon (C)	mg/L	49 (1)	5.0	4585766	30 (1)	5.0	4585899	12 (1)	5.0	4585899	N/A
Orthophosphate (P)	mg/L	0.068	0.010	4586445	0.030	0.010	4586445	0.025	0.010	4586445	N/A
pH	pH	7.41	N/A	4583894	7.52	N/A	4583898	6.76	N/A	4583894	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	7.9	0.50	4586433	6.6	0.50	4586433	12	0.50	4586433	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	<2.0	2.0	4586428	3.5	2.0	4586428	5.5	2.0	4586428	N/A
Turbidity	NTU	64	0.10	4584024	12	0.10	4584024	16	0.10	4584024	0.10
Conductivity	uS/cm	390	1.0	4583896	150	1.0	4583900	91	1.0	4583896	N/A

#### Metals

Total Aluminum (Al)	ug/L	780	5.0	4585662	530	5.0	4585662	3600	5.0	4585662	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4585662	<1.0	1.0	4585662	<1.0	1.0	4585662	N/A
Total Arsenic (As)	ug/L	12	1.0	4585662	4.7	1.0	4585662	12	1.0	4585662	N/A
Total Barium (Ba)	ug/L	21	1.0	4585662	5.6	1.0	4585662	36	1.0	4585662	N/A
Total Beryllium (Be)	ug/L	<1.0	1.0	4585662	<1.0	1.0	4585662	<1.0	1.0	4585662	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) Elevated reporting limit due to sample matrix.

Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		CSF362			CSF363			CSF364			
Sampling Date		2016/07/14			2016/07/14 15:50			2016/07/14 17:30			
COC Number		568681-01-01			568681-01-01			568681-01-01			
	UNITS	SWDUP1	RDL	QC Batch	SW5	RDL	QC Batch	BACK2	RDL	QC Batch	MDL
Total Bismuth (Bi)	ug/L	<2.0	2.0	4585662	<2.0	2.0	4585662	<2.0	2.0	4585662	N/A
Total Boron (B)	ug/L	<50	50	4585662	<50	50	4585662	<50	50	4585662	N/A
Total Cadmium (Cd)	ug/L	0.053	0.010	4585662	0.018	0.010	4585662	0.069	0.010	4585662	N/A
Total Calcium (Ca)	ug/L	26000	100	4585662	8700	100	4585662	4700	100	4585662	N/A
Total Chromium (Cr)	ug/L	2.1	1.0	4585662	1.9	1.0	4585662	7.4	1.0	4585662	N/A
Total Cobalt (Co)	ug/L	20	0.40	4585662	2.7	0.40	4585662	4.4	0.40	4585662	N/A
Total Copper (Cu)	ug/L	7.6	2.0	4585662	2.7	2.0	4585662	6.6	2.0	4585662	N/A
Total Iron (Fe)	ug/L	11000	50	4585662	10000	50	4585662	11000	50	4585662	N/A
Total Lead (Pb)	ug/L	2.4	0.50	4585662	2.2	0.50	4585662	6.6	0.50	4585662	N/A
Total Magnesium (Mg)	ug/L	9500	100	4585662	3000	100	4585662	4000	100	4585662	N/A
Total Manganese (Mn)	ug/L	2000	2.0	4585662	280	2.0	4585662	220	2.0	4585662	N/A
Total Molybdenum (Mo)	ug/L	8.2	2.0	4585662	<2.0	2.0	4585662	<2.0	2.0	4585662	N/A
Total Nickel (Ni)	ug/L	17	2.0	4585662	3.0	2.0	4585662	6.3	2.0	4585662	N/A
Total Phosphorus (P)	ug/L	350	100	4585662	280	100	4585662	310	100	4585662	N/A
Total Potassium (K)	ug/L	30000	100	4585662	9900	100	4585662	2400	100	4585662	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	4585662	<1.0	1.0	4585662	<1.0	1.0	4585662	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	4585662	<0.10	0.10	4585662	<0.10	0.10	4585662	N/A
Total Sodium (Na)	ug/L	31000	100	4585662	15000	100	4585662	12000	100	4585662	N/A
Total Strontium (Sr)	ug/L	140	2.0	4585662	40	2.0	4585662	29	2.0	4585662	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4585662	<0.10	0.10	4585662	<0.10	0.10	4585662	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	4585662	<2.0	2.0	4585662	<2.0	2.0	4585662	N/A
Total Titanium (Ti)	ug/L	23	2.0	4585662	13	2.0	4585662	170	2.0	4585662	N/A
Total Uranium (U)	ug/L	0.26	0.10	4585662	<0.10	0.10	4585662	0.64	0.10	4585662	N/A
Total Vanadium (V)	ug/L	3.3	2.0	4585662	<2.0	2.0	4585662	8.7	2.0	4585662	N/A
Total Zinc (Zn)	ug/L	11	5.0	4585662	6.5	5.0	4585662	27	5.0	4585662	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable											

Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

<b>Maxxam ID</b>		CSF365			CSF366	CSF366			
<b>Sampling Date</b>		2016/07/14 10:35			2016/07/14	2016/07/14			
<b>COC Number</b>		568681-01-01			568681-01-01	568681-01-01			
	<b>UNITS</b>	<b>SW7</b>	<b>RDL</b>	<b>QC Batch</b>	<b>SWDUP2</b>	<b>SWDUP2 Lab-Dup</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Calculated Parameters

Anion Sum	me/L	0.550	N/A	4580734	0.770		N/A	4580734	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	5.8	1.0	4580730	11		1.0	4580730	0.20
Calculated TDS	mg/L	48	1.0	4580738	58		1.0	4580738	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4580730	<1.0		1.0	4580730	0.20
Cation Sum	me/L	0.790	N/A	4580734	0.850		N/A	4580734	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	13	1.0	4580732	18		1.0	4580732	1.0
Ion Balance (% Difference)	%	17.9	N/A	4580733	4.94		N/A	4580733	N/A
Langelier Index (@ 20C)	N/A	-3.91		4580736	-3.00			4580736	
Langelier Index (@ 4C)	N/A	-4.16		4580737	-3.25			4580737	
Nitrate (N)	mg/L	<0.050	0.050	4580735	0.31		0.050	4580735	N/A
Saturation pH (@ 20C)	N/A	10.1		4580736	9.74			4580736	
Saturation pH (@ 4C)	N/A	10.4		4580737	10.0			4580737	

#### Inorganics

Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	5.8	5.0	4586424	11	10	5.0	4586424	N/A
Dissolved Chloride (Cl)	mg/L	13	1.0	4586426	15	15	1.0	4586426	N/A
Colour	TCU	320	150	4586439	220	230	25	4586439	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4586447	0.31	0.32	0.050	4586447	N/A
Nitrite (N)	mg/L	<0.010	0.010	4586455	<0.010	<0.010	0.010	4586455	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	4587902	<0.050		0.050	4587902	N/A
Total Organic Carbon (C)	mg/L	19 (1)	5.0	4585899	11 (1)		5.0	4585899	N/A
Orthophosphate (P)	mg/L	0.020	0.010	4586445	0.024	0.024	0.010	4586445	N/A
pH	pH	6.21	N/A	4583894	6.75	6.78	N/A	4583894	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	11	0.50	4586433	12	12	0.50	4586433	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	3.6	2.0	4586428	5.2	5.1	2.0	4586428	N/A
Turbidity	NTU	3.4	0.10	4584024	7.0		0.10	4584019	0.10
Conductivity	uS/cm	74	1.0	4583896	87	87	1.0	4583896	N/A

#### Metals

Total Aluminum (Al)	ug/L	600	5.0	4585662	440		5.0	4584314	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4585662	<1.0		1.0	4584314	N/A
Total Arsenic (As)	ug/L	1.2	1.0	4585662	2.1		1.0	4584314	N/A
Total Barium (Ba)	ug/L	4.2	1.0	4585662	11		1.0	4584314	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable

(1) Elevated reporting limit due to sample matrix.

Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		CSF365			CSF366	CSF366			
Sampling Date		2016/07/14 10:35			2016/07/14	2016/07/14			
COC Number		568681-01-01			568681-01-01	568681-01-01			
	UNITS	SW7	RDL	QC Batch	SWDUP2	SWDUP2 Lab-Dup	RDL	QC Batch	MDL
Total Beryllium (Be)	ug/L	<1.0	1.0	4585662	<1.0		1.0	4584314	N/A
Total Bismuth (Bi)	ug/L	<2.0	2.0	4585662	<2.0		2.0	4584314	N/A
Total Boron (B)	ug/L	<50	50	4585662	<50		50	4584314	N/A
Total Cadmium (Cd)	ug/L	0.044	0.010	4585662	0.019		0.010	4584314	N/A
Total Calcium (Ca)	ug/L	2600	100	4585662	3900		100	4584314	N/A
Total Chromium (Cr)	ug/L	1.4	1.0	4585662	1.0		1.0	4584314	N/A
Total Cobalt (Co)	ug/L	0.49	0.40	4585662	0.72		0.40	4584314	N/A
Total Copper (Cu)	ug/L	<2.0	2.0	4585662	<2.0		2.0	4584314	N/A
Total Iron (Fe)	ug/L	770	50	4585662	2100		50	4584314	N/A
Total Lead (Pb)	ug/L	2.5	0.50	4585662	1.0		0.50	4584314	N/A
Total Magnesium (Mg)	ug/L	1600	100	4585662	2400		100	4584314	N/A
Total Manganese (Mn)	ug/L	19	2.0	4585662	43		2.0	4584314	N/A
Total Molybdenum (Mo)	ug/L	<2.0	2.0	4585662	<2.0		2.0	4584314	N/A
Total Nickel (Ni)	ug/L	2.3	2.0	4585662	<2.0		2.0	4584314	N/A
Total Phosphorus (P)	ug/L	<100	100	4585662	<100		100	4584314	N/A
Total Potassium (K)	ug/L	2500	100	4585662	1600		100	4584314	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	4585662	<1.0		1.0	4584314	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	4585662	<0.10		0.10	4584314	N/A
Total Sodium (Na)	ug/L	10000	100	4585662	10000		100	4584314	N/A
Total Strontium (Sr)	ug/L	16	2.0	4585662	24		2.0	4584314	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4585662	<0.10		0.10	4584314	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	4585662	<2.0		2.0	4584314	N/A
Total Titanium (Ti)	ug/L	9.3	2.0	4585662	12		2.0	4584314	N/A
Total Uranium (U)	ug/L	<0.10	0.10	4585662	<0.10		0.10	4584314	N/A
Total Vanadium (V)	ug/L	<2.0	2.0	4585662	<2.0		2.0	4584314	N/A
Total Zinc (Zn)	ug/L	7.3	5.0	4585662	<5.0		5.0	4584314	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		CSF367			CSR212			CSR319			
Sampling Date		2016/07/14 11:40			2016/07/15 10:45			2016/07/15 12:40			
COC Number		568681-01-01			D11596			D11596			
	UNITS	SW9	RDL	QC Batch	SW3	RDL	QC Batch	SW4	RDL	QC Batch	MDL
<b>Calculated Parameters</b>											
Anion Sum	me/L	3.94	N/A	4580734	1.35	N/A	4583968	2.82	N/A	4583968	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	150	1.0	4580730	32	1.0	4583964	27	1.0	4583964	0.20
Calculated TDS	mg/L	250	1.0	4580738	98	1.0	4583973	170	1.0	4583973	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4580730	<1.0	1.0	4583964	<1.0	1.0	4583964	0.20
Cation Sum	me/L	4.90	N/A	4580734	1.57	N/A	4583968	2.93	N/A	4583968	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	110	1.0	4580732	24	1.0	4583966	44	1.0	4583966	1.0
Ion Balance (% Difference)	%	10.9	N/A	4580733	7.53	N/A	4583967	1.91	N/A	4583967	N/A
Langelier Index (@ 20C)	N/A	-0.434		4580736	-2.38		4583971	-1.82		4583971	
Langelier Index (@ 4C)	N/A	-0.683		4580737	-2.63		4583972	-2.07		4583972	
Nitrate (N)	mg/L	0.052	0.050	4580735	0.18	0.050	4584921	0.084	0.050	4584921	N/A
Saturation pH (@ 20C)	N/A	7.80		4580736	9.03		4583971	8.96		4583971	
Saturation pH (@ 4C)	N/A	8.05		4580737	9.28		4583972	9.21		4583972	
<b>Inorganics</b>											
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	150	25	4586424	32	5.0	4586538	27	5.0	4586538	N/A
Dissolved Chloride (Cl)	mg/L	34	1.0	4586426	16	1.0	4586550	77	1.0	4586550	N/A
Colour	TCU	490	150	4586439	380	100	4586557	31	5.0	4586557	N/A
Nitrate + Nitrite (N)	mg/L	0.052	0.050	4586447	0.18	0.050	4586563	0.084	0.050	4586563	N/A
Nitrite (N)	mg/L	<0.010	0.010	4586455	<0.010	0.010	4586568	<0.010	0.010	4586568	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	0.60	0.050	4587902	0.12	0.050	4587902	0.068	0.050	4587902	N/A
Total Organic Carbon (C)	mg/L	43 (1)	5.0	4585899	30 (1)	5.0	4585899	6.7	0.50	4585899	N/A
Orthophosphate (P)	mg/L	0.061	0.010	4586445	0.058	0.010	4586562	0.011	0.010	4586562	N/A
pH	pH	7.37	N/A	4583911	6.65	N/A	4589410	7.13	N/A	4589410	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	7.9	0.50	4586433	11	0.50	4586556	6.8	0.50	4586556	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	<2.0	2.0	4586428	12	2.0	4586555	5.3	2.0	4586555	N/A
Turbidity	NTU	55	0.10	4584024	37	0.10	4589515	49	0.10	4589508	0.10
Conductivity	uS/cm	390	1.0	4583912	130	1.0	4589411	280	1.0	4589411	N/A
<b>Metals</b>											
Total Aluminum (Al)	ug/L	2400	5.0	4585662	2000	5.0	4587708	800	5.0	4587708	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4585662	<1.0	1.0	4587708	<1.0	1.0	4587708	N/A
Total Arsenic (As)	ug/L	19	1.0	4585662	5.5	1.0	4587708	3.2	1.0	4587708	N/A
Total Barium (Ba)	ug/L	29	1.0	4585662	26	1.0	4587708	13	1.0	4587708	N/A
Total Beryllium (Be)	ug/L	<1.0	1.0	4585662	<1.0	1.0	4587708	<1.0	1.0	4587708	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Elevated reporting limit due to sample matrix.											

Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		CSF367			CSR212			CSR319			
Sampling Date		2016/07/14 11:40			2016/07/15 10:45			2016/07/15 12:40			
COC Number		568681-01-01			D11596			D11596			
	UNITS	SW9	RDL	QC Batch	SW3	RDL	QC Batch	SW4	RDL	QC Batch	MDL
Total Bismuth (Bi)	ug/L	<2.0	2.0	4585662	<2.0	2.0	4587708	<2.0	2.0	4587708	N/A
Total Boron (B)	ug/L	<50	50	4585662	61	50	4587708	<50	50	4587708	N/A
Total Cadmium (Cd)	ug/L	0.12	0.010	4585662	0.090	0.010	4587708	0.032	0.010	4587708	N/A
Total Calcium (Ca)	ug/L	27000	100	4585662	8100	100	4587708	9900	100	4587708	N/A
Total Chromium (Cr)	ug/L	4.6	1.0	4585662	3.4	1.0	4587708	1.4	1.0	4587708	N/A
Total Cobalt (Co)	ug/L	23	0.40	4585662	3.0	0.40	4587708	4.2	0.40	4587708	N/A
Total Copper (Cu)	ug/L	13	2.0	4585662	7.9	2.0	4587708	<2.0	2.0	4587708	N/A
Total Iron (Fe)	ug/L	15000	50	4585662	10000	50	4587708	5500	50	4587708	N/A
Total Lead (Pb)	ug/L	6.1	0.50	4585662	7.6	0.50	4587708	2.6	0.50	4587708	N/A
Total Magnesium (Mg)	ug/L	10000	100	4585662	2300	100	4587708	4600	100	4587708	N/A
Total Manganese (Mn)	ug/L	2100	2.0	4585662	480	2.0	4587708	400	2.0	4587708	N/A
Total Molybdenum (Mo)	ug/L	8.3	2.0	4585662	<2.0	2.0	4587708	<2.0	2.0	4587708	N/A
Total Nickel (Ni)	ug/L	21	2.0	4585662	4.9	2.0	4587708	2.5	2.0	4587708	N/A
Total Phosphorus (P)	ug/L	600	100	4585662	400	100	4587708	120	100	4587708	N/A
Total Potassium (K)	ug/L	31000	100	4585662	12000	100	4587708	1300	100	4587708	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	4585662	<1.0	1.0	4587708	<1.0	1.0	4587708	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	4585662	<0.10	0.10	4587708	<0.10	0.10	4587708	N/A
Total Sodium (Na)	ug/L	31000	100	4585662	15000	100	4587708	42000	100	4587708	N/A
Total Strontium (Sr)	ug/L	140	2.0	4585662	40	2.0	4587708	74	2.0	4587708	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4585662	<0.10	0.10	4587708	<0.10	0.10	4587708	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	4585662	<2.0	2.0	4587708	<2.0	2.0	4587708	N/A
Total Titanium (Ti)	ug/L	62	2.0	4585662	44	2.0	4587708	14	2.0	4587708	N/A
Total Uranium (U)	ug/L	0.38	0.10	4585662	0.24	0.10	4587708	<0.10	0.10	4587708	N/A
Total Vanadium (V)	ug/L	7.5	2.0	4585662	5.2	2.0	4587708	2.9	2.0	4587708	N/A
Total Zinc (Zn)	ug/L	25	5.0	4585662	30	5.0	4587708	5.7	5.0	4587708	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable											



Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		CSR319			CSR326	CSR326			
Sampling Date		2016/07/15 12:40			2016/07/15 11:50	2016/07/15 11:50			
COC Number		D11596			D11596	D11596			
	UNITS	SW4 Lab-Dup	RDL	QC Batch	SW14	SW14 Lab-Dup	RDL	QC Batch	MDL
<b>Calculated Parameters</b>									
Anion Sum	me/L		N/A	4583968	1.88		N/A	4583968	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L		1.0	4583964	9.4		1.0	4583964	0.20
Calculated TDS	mg/L		1.0	4583973	110		1.0	4583973	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L		1.0	4583964	<1.0		1.0	4583964	0.20
Cation Sum	me/L		N/A	4583968	1.81		N/A	4583968	N/A
Hardness (CaCO <sub>3</sub> )	mg/L		1.0	4583966	23		1.0	4583966	1.0
Ion Balance (% Difference)	%		N/A	4583967	1.90		N/A	4583967	N/A
Langelier Index (@ 20C)	N/A			4583971	-3.49			4583971	
Langelier Index (@ 4C)	N/A			4583972	-3.74			4583972	
Nitrate (N)	mg/L		0.050	4584921	<0.050		0.050	4584921	N/A
Saturation pH (@ 20C)	N/A			4583971	9.71			4583971	
Saturation pH (@ 4C)	N/A			4583972	9.96			4583972	
<b>Inorganics</b>									
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L		5.0	4586538	9.4		5.0	4586538	N/A
Dissolved Chloride (Cl)	mg/L		1.0	4586550	55		1.0	4586550	N/A
Colour	TCU		5.0	4586557	61		10	4586557	N/A
Nitrate + Nitrite (N)	mg/L		0.050	4586563	<0.050		0.050	4586563	N/A
Nitrite (N)	mg/L		0.010	4586568	<0.010		0.010	4586568	N/A
Nitrogen (Ammonia Nitrogen)	mg/L		0.050	4587902	0.11	0.13	0.050	4587902	N/A
Total Organic Carbon (C)	mg/L		0.50	4585899	7.9		0.50	4585899	N/A
Orthophosphate (P)	mg/L		0.010	4586562	0.011		0.010	4586562	N/A
pH	pH		N/A	4589410	6.22		N/A	4589412	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L		0.50	4586556	5.8		0.50	4586556	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L		2.0	4586555	6.0		2.0	4586555	N/A
Turbidity	NTU	47	0.10	4589508	1.4		0.10	4589508	0.10
Conductivity	uS/cm		1.0	4589411	200		1.0	4589413	N/A
<b>Metals</b>									
Total Aluminum (Al)	ug/L		5.0	4587708	930		5.0	4587708	N/A
Total Antimony (Sb)	ug/L		1.0	4587708	<1.0		1.0	4587708	N/A
Total Arsenic (As)	ug/L		1.0	4587708	1.2		1.0	4587708	N/A
Total Barium (Ba)	ug/L		1.0	4587708	9.5		1.0	4587708	N/A
Total Beryllium (Be)	ug/L		1.0	4587708	<1.0		1.0	4587708	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable									

Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		CSR319			CSR326	CSR326			
Sampling Date		2016/07/15 12:40			2016/07/15 11:50	2016/07/15 11:50			
COC Number		D11596			D11596	D11596			
	UNITS	SW4 Lab-Dup	RDL	QC Batch	SW14	SW14 Lab-Dup	RDL	QC Batch	MDL
Total Bismuth (Bi)	ug/L		2.0	4587708	<2.0		2.0	4587708	N/A
Total Boron (B)	ug/L		50	4587708	<50		50	4587708	N/A
Total Cadmium (Cd)	ug/L		0.010	4587708	0.057		0.010	4587708	N/A
Total Calcium (Ca)	ug/L		100	4587708	5100		100	4587708	N/A
Total Chromium (Cr)	ug/L		1.0	4587708	2.2		1.0	4587708	N/A
Total Cobalt (Co)	ug/L		0.40	4587708	3.0		0.40	4587708	N/A
Total Copper (Cu)	ug/L		2.0	4587708	2.8		2.0	4587708	N/A
Total Iron (Fe)	ug/L		50	4587708	1500		50	4587708	N/A
Total Lead (Pb)	ug/L		0.50	4587708	2.0		0.50	4587708	N/A
Total Magnesium (Mg)	ug/L		100	4587708	3000		100	4587708	N/A
Total Manganese (Mn)	ug/L		2.0	4587708	230		2.0	4587708	N/A
Total Molybdenum (Mo)	ug/L		2.0	4587708	<2.0		2.0	4587708	N/A
Total Nickel (Ni)	ug/L		2.0	4587708	<2.0		2.0	4587708	N/A
Total Phosphorus (P)	ug/L		100	4587708	<100		100	4587708	N/A
Total Potassium (K)	ug/L		100	4587708	2000		100	4587708	N/A
Total Selenium (Se)	ug/L		1.0	4587708	<1.0		1.0	4587708	N/A
Total Silver (Ag)	ug/L		0.10	4587708	<0.10		0.10	4587708	N/A
Total Sodium (Na)	ug/L		100	4587708	31000		100	4587708	N/A
Total Strontium (Sr)	ug/L		2.0	4587708	38		2.0	4587708	N/A
Total Thallium (Tl)	ug/L		0.10	4587708	<0.10		0.10	4587708	N/A
Total Tin (Sn)	ug/L		2.0	4587708	<2.0		2.0	4587708	N/A
Total Titanium (Ti)	ug/L		2.0	4587708	20		2.0	4587708	N/A
Total Uranium (U)	ug/L		0.10	4587708	<0.10		0.10	4587708	N/A
Total Vanadium (V)	ug/L		2.0	4587708	<2.0		2.0	4587708	N/A
Total Zinc (Zn)	ug/L		5.0	4587708	8.9		5.0	4587708	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

<b>Maxxam ID</b>		CSR334			
<b>Sampling Date</b>		2016/07/15 10:20			
<b>COC Number</b>		D11596			
	<b>UNITS</b>	<b>P1A</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Calculated Parameters</b>					
Anion Sum	me/L	0.820	N/A	4583968	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	20	1.0	4583964	0.20
Calculated TDS	mg/L	210	1.0	4583973	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4583964	0.20
Cation Sum	me/L	7.23	N/A	4583968	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	170	1.0	4583966	1.0
Ion Balance (% Difference)	%	79.6	N/A	4583967	N/A
Langelier Index (@ 20C)	N/A	-2.22		4583971	
Langelier Index (@ 4C)	N/A	-2.47		4583972	
Nitrate (N)	mg/L	<0.050	0.050	4584921	N/A
Saturation pH (@ 20C)	N/A	8.37		4583971	
Saturation pH (@ 4C)	N/A	8.62		4583972	
<b>Inorganics</b>					
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	20	5.0	4586538	N/A
Dissolved Chloride (Cl)	mg/L	13	1.0	4586550	N/A
Colour	TCU	340	50	4586557	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4586563	N/A
Nitrite (N)	mg/L	<0.010	0.010	4586568	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	1.1	0.050	4587911	N/A
Total Organic Carbon (C)	mg/L	120 (1)	50	4585899	N/A
Orthophosphate (P)	mg/L	0.019	0.010	4586562	N/A
pH	pH	6.15	N/A	4589412	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	8.9	0.50	4586556	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	2.4	2.0	4586555	N/A
Turbidity	NTU	>1000	1.0	4589508	0.10
Conductivity	uS/cm	95	1.0	4589413	N/A
<b>Metals</b>					
Total Aluminum (Al)	ug/L	41000	50	4587765	N/A
Total Antimony (Sb)	ug/L	<10	10	4587765	N/A
Total Arsenic (As)	ug/L	38	10	4587765	N/A
Total Barium (Ba)	ug/L	360	10	4587765	N/A
Total Beryllium (Be)	ug/L	<10	10	4587765	N/A
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
N/A = Not Applicable					
(1) Reporting limit was increased due to turbidity.					

Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

<b>Maxxam ID</b>		CSR334			
<b>Sampling Date</b>		2016/07/15 10:20			
<b>COC Number</b>		D11596			
	<b>UNITS</b>	<b>P1A</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
Total Bismuth (Bi)	ug/L	<20	20	4587765	N/A
Total Boron (B)	ug/L	<500	500	4587765	N/A
Total Cadmium (Cd)	ug/L	2.1	0.10	4587765	N/A
Total Calcium (Ca)	ug/L	52000	1000	4587765	N/A
Total Chromium (Cr)	ug/L	45	10	4587765	N/A
Total Cobalt (Co)	ug/L	22	4.0	4587765	N/A
Total Copper (Cu)	ug/L	84	20	4587765	N/A
Total Iron (Fe)	ug/L	75000	500	4587765	N/A
Total Lead (Pb)	ug/L	140	5.0	4587765	N/A
Total Magnesium (Mg)	ug/L	10000	1000	4587765	N/A
Total Manganese (Mn)	ug/L	2800	20	4587765	N/A
Total Molybdenum (Mo)	ug/L	<20	20	4587765	N/A
Total Nickel (Ni)	ug/L	49	20	4587765	N/A
Total Phosphorus (P)	ug/L	5100	1000	4587765	N/A
Total Potassium (K)	ug/L	13000	1000	4587765	N/A
Total Selenium (Se)	ug/L	<10	10	4587765	N/A
Total Silver (Ag)	ug/L	1.1	1.0	4587765	N/A
Total Sodium (Na)	ug/L	15000	1000	4587765	N/A
Total Strontium (Sr)	ug/L	320	20	4587765	N/A
Total Thallium (Tl)	ug/L	<1.0	1.0	4587765	N/A
Total Tin (Sn)	ug/L	<20	20	4587765	N/A
Total Titanium (Ti)	ug/L	520	20	4587765	N/A
Total Uranium (U)	ug/L	5.4	1.0	4587765	N/A
Total Vanadium (V)	ug/L	56	20	4587765	N/A
Total Zinc (Zn)	ug/L	530	50	4587765	N/A
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
N/A = Not Applicable					

Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

### RESULTS OF ANALYSES OF WATER

<b>Maxxam ID</b>		CSF360		CSF364	CSF366			CSR212	CSR212			
<b>Sampling Date</b>		2016/07/14 11:00		2016/07/14 17:30	2016/07/14			2016/07/15 10:45	2016/07/15 10:45			
<b>COC Number</b>		568681-01-01		568681-01-01	568681-01-01			D11596	D11596			
	<b>UNITS</b>	<b>SW2</b>	<b>RDL</b>	<b>BACK2</b>	<b>SWDUP2</b>	<b>RDL</b>	<b>QC Batch</b>	<b>SW3</b>	<b>SW3 Lab-Dup</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Inorganics

Total Suspended Solids	mg/L	2.0	1.0	130	<5.0	5.0	4585717	380	360	10	4586190	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable

<b>Maxxam ID</b>		CSR326			
<b>Sampling Date</b>		2016/07/15 11:50			
<b>COC Number</b>		D11596			
	<b>UNITS</b>	<b>SW14</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Inorganics

Total Suspended Solids	mg/L	1.2	1.0	4586190	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

### MERCURY BY COLD VAPOUR AA (WATER)

<b>Maxxam ID</b>		CSF359	CSF360	CSF361	CSF362	CSF363	CSF364			
<b>Sampling Date</b>		2016/07/14 10:00	2016/07/14 11:00	2016/07/14 11:55	2016/07/14	2016/07/14 15:50	2016/07/14 17:30			
<b>COC Number</b>		568681-01-01	568681-01-01	568681-01-01	568681-01-01	568681-01-01	568681-01-01			
	<b>UNITS</b>	<b>SW13</b>	<b>SW2</b>	<b>P3</b>	<b>SWDUP1</b>	<b>SW5</b>	<b>BACK2</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Metals

Total Mercury (Hg)	ug/L	0.023	0.025	0.57	0.025	<0.013	0.018	0.013	4588194	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

<b>Maxxam ID</b>		CSF365	CSF366	CSF367	CSR212	CSR319	CSR326			
<b>Sampling Date</b>		2016/07/14 10:35	2016/07/14	2016/07/14 11:40	2016/07/15 10:45	2016/07/15 12:40	2016/07/15 11:50			
<b>COC Number</b>		568681-01-01	568681-01-01	568681-01-01	D11596	D11596	D11596			
	<b>UNITS</b>	<b>SW7</b>	<b>SWDUP2</b>	<b>SW9</b>	<b>SW3</b>	<b>SW4</b>	<b>SW14</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Metals

Total Mercury (Hg)	ug/L	0.023	<0.013	0.022	0.072	<0.013	<0.013	0.013	4588194	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

<b>Maxxam ID</b>		CSR334			
<b>Sampling Date</b>		2016/07/15 10:20			
<b>COC Number</b>		D11596			
	<b>UNITS</b>	<b>P1A</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Metals

Total Mercury (Hg)	ug/L	0.19	0.013	4588194	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

### ELEMENTS BY ICP/MS (WATER)

Maxxam ID		CSF360	CSF364	CSF366		CSR212			
Sampling Date		2016/07/14 11:00	2016/07/14 17:30	2016/07/14		2016/07/15 10:45			
COC Number		568681-01-01	568681-01-01	568681-01-01		D11596			
	UNITS	SW2	BACK2	SWDUP2	QC Batch	SW3	RDL	QC Batch	MDL

Metals									
Dissolved Aluminum (Al)	ug/L	590	280	290	4587845	650	5.0	4589406	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	<1.0	4587845	<1.0	1.0	4589406	N/A
Dissolved Arsenic (As)	ug/L	<1.0	1.3	1.2	4587845	2.4	1.0	4589406	N/A
Dissolved Barium (Ba)	ug/L	3.9	8.0	7.9	4587845	11	1.0	4589406	N/A
Dissolved Beryllium (Be)	ug/L	<1.0	<1.0	<1.0	4587845	<1.0	1.0	4589406	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	<2.0	4587845	<2.0	2.0	4589406	N/A
Dissolved Boron (B)	ug/L	<50	<50	<50	4587845	63	50	4589406	N/A
Dissolved Cadmium (Cd)	ug/L	0.046	0.016	0.016	4587845	0.038	0.010	4589406	N/A
Dissolved Calcium (Ca)	ug/L	2200	3500	3400	4587845	6500	100	4589406	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	<1.0	4587845	1.3	1.0	4589406	N/A
Dissolved Cobalt (Co)	ug/L	0.47	0.42	<0.40	4587845	0.71	0.40	4589406	N/A
Dissolved Copper (Cu)	ug/L	<2.0	<2.0	<2.0	4587845	6.0	2.0	4589406	N/A
Dissolved Iron (Fe)	ug/L	630	1200	1100	4587845	3800	50	4589406	N/A
Dissolved Lead (Pb)	ug/L	2.6	0.64	0.65	4587845	2.9	0.50	4589406	N/A
Dissolved Magnesium (Mg)	ug/L	1400	2200	2200	4587845	1900	100	4589406	N/A
Dissolved Manganese (Mn)	ug/L	25	23	18	4587845	84	2.0	4589406	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	<2.0	4587845	<2.0	2.0	4589406	N/A
Dissolved Nickel (Ni)	ug/L	2.1	<2.0	<2.0	4587845	3.6	2.0	4589406	N/A
Dissolved Phosphorus (P)	ug/L	<100	<100	<100	4587845	140	100	4589406	N/A
Dissolved Potassium (K)	ug/L	2500	1500	1500	4587845	12000	100	4589406	N/A
Dissolved Selenium (Se)	ug/L	<1.0	<1.0	<1.0	4587845	<1.0	1.0	4589406	N/A
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	<0.10	4587845	<0.10	0.10	4589406	N/A
Dissolved Sodium (Na)	ug/L	9500	9800	9800	4587845	15000	100	4589406	N/A
Dissolved Strontium (Sr)	ug/L	13	21	22	4587845	31	2.0	4589406	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	<0.10	4587845	<0.10	0.10	4589406	N/A
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	<2.0	4587845	<2.0	2.0	4589406	N/A
Dissolved Titanium (Ti)	ug/L	6.1	6.5	7.3	4587845	16	2.0	4589406	N/A
Dissolved Uranium (U)	ug/L	<0.10	<0.10	<0.10	4587845	<0.10	0.10	4589406	N/A
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	<2.0	4587845	2.3	2.0	4589406	N/A
Dissolved Zinc (Zn)	ug/L	8.2	6.4	6.4	4587845	19	5.0	4589406	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

### ELEMENTS BY ICP/MS (WATER)

<b>Maxxam ID</b>		CSR326			
<b>Sampling Date</b>		2016/07/15 11:50			
<b>COC Number</b>		D11596			
	<b>UNITS</b>	<b>SW14</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Metals</b>					
Dissolved Aluminum (Al)	ug/L	230	5.0	4587848	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	4587848	N/A
Dissolved Arsenic (As)	ug/L	<1.0	1.0	4587848	N/A
Dissolved Barium (Ba)	ug/L	8.0	1.0	4587848	N/A
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	4587848	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	4587848	N/A
Dissolved Boron (B)	ug/L	<50	50	4587848	N/A
Dissolved Cadmium (Cd)	ug/L	0.044	0.010	4587848	N/A
Dissolved Calcium (Ca)	ug/L	4700	100	4587848	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	4587848	N/A
Dissolved Cobalt (Co)	ug/L	2.1	0.40	4587848	N/A
Dissolved Copper (Cu)	ug/L	<2.0	2.0	4587848	N/A
Dissolved Iron (Fe)	ug/L	400	50	4587848	N/A
Dissolved Lead (Pb)	ug/L	0.69	0.50	4587848	N/A
Dissolved Magnesium (Mg)	ug/L	2700	100	4587848	N/A
Dissolved Manganese (Mn)	ug/L	190	2.0	4587848	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	4587848	N/A
Dissolved Nickel (Ni)	ug/L	2.4	2.0	4587848	N/A
Dissolved Phosphorus (P)	ug/L	<100	100	4587848	N/A
Dissolved Potassium (K)	ug/L	1900	100	4587848	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	4587848	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	4587848	N/A
Dissolved Sodium (Na)	ug/L	30000	100	4587848	N/A
Dissolved Strontium (Sr)	ug/L	35	2.0	4587848	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	4587848	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	4587848	N/A
Dissolved Titanium (Ti)	ug/L	2.3	2.0	4587848	N/A
Dissolved Uranium (U)	ug/L	<0.10	0.10	4587848	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	4587848	N/A
Dissolved Zinc (Zn)	ug/L	8.9	5.0	4587848	N/A
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
N/A = Not Applicable					



Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

## TEST SUMMARY

**Maxxam ID:** CSF359  
**Sample ID:** SW13  
**Matrix:** Water

**Collected:** 2016/07/14  
**Shipped:**  
**Received:** 2016/07/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4580730	N/A	2016/07/19	Automated Statchk
Alkalinity	KONE	4586424	N/A	2016/07/22	Nancy Rogers
Chloride	KONE	4586426	N/A	2016/07/22	Nancy Rogers
Colour	KONE	4586439	N/A	2016/07/21	Nancy Rogers
Conductance - water	AT	4583896	N/A	2016/07/19	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4580732	N/A	2016/07/22	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588194	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Total MS	CICP/MS	4585662	2016/07/20	2016/07/21	Bryon Angevine
Ion Balance (% Difference)	CALC	4580733	N/A	2016/07/22	Automated Statchk
Anion and Cation Sum	CALC	4580734	N/A	2016/07/22	Automated Statchk
Nitrogen Ammonia - water	KONE	4587902	N/A	2016/07/21	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4586447	N/A	2016/07/22	Nancy Rogers
Nitrogen - Nitrite	KONE	4586455	N/A	2016/07/22	Mary Clancey
Nitrogen - Nitrate (as N)	CALC	4580735	N/A	2016/07/22	Automated Statchk
pH	AT	4583894	N/A	2016/07/19	Julia McGovern
Phosphorus - ortho	KONE	4586445	N/A	2016/07/22	Cecilia (Kate) Barrett
Sat. pH and Langelier Index (@ 20C)	CALC	4580736	N/A	2016/07/22	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4580737	N/A	2016/07/22	Automated Statchk
Reactive Silica	KONE	4586433	N/A	2016/07/21	Nancy Rogers
Sulphate	KONE	4586428	N/A	2016/07/22	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4580738	N/A	2016/07/22	Automated Statchk
Organic carbon - Total (TOC)	TECH	4585766	N/A	2016/07/21	Soraya Merchant
Turbidity	TURB	4584024	N/A	2016/07/19	Julia McGovern

**Maxxam ID:** CSF360  
**Sample ID:** SW2  
**Matrix:** Water

**Collected:** 2016/07/14  
**Shipped:**  
**Received:** 2016/07/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4580730	N/A	2016/07/19	Automated Statchk
Alkalinity	KONE	4586424	N/A	2016/07/22	Nancy Rogers
Chloride	KONE	4586426	N/A	2016/07/22	Nancy Rogers
Colour	KONE	4586439	N/A	2016/07/21	Nancy Rogers
Conductance - water	AT	4583912	N/A	2016/07/19	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4580732	N/A	2016/07/22	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588194	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4587845	N/A	2016/07/21	Bryon Angevine
Metals Water Total MS	CICP/MS	4585662	2016/07/20	2016/07/21	Bryon Angevine
Ion Balance (% Difference)	CALC	4580733	N/A	2016/07/22	Automated Statchk
Anion and Cation Sum	CALC	4580734	N/A	2016/07/22	Automated Statchk
Nitrogen Ammonia - water	KONE	4587902	N/A	2016/07/21	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4586447	N/A	2016/07/22	Nancy Rogers
Nitrogen - Nitrite	KONE	4586455	N/A	2016/07/22	Mary Clancey
Nitrogen - Nitrate (as N)	CALC	4580735	N/A	2016/07/22	Automated Statchk

Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

## TEST SUMMARY

**Maxxam ID:** CSF360  
**Sample ID:** SW2  
**Matrix:** Water

**Collected:** 2016/07/14  
**Shipped:**  
**Received:** 2016/07/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	4583911	N/A	2016/07/19	Julia McGovern
Phosphorus - ortho	KONE	4586445	N/A	2016/07/22	Cecilia (Kate) Barrett
Sat. pH and Langelier Index (@ 20C)	CALC	4580736	N/A	2016/07/22	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4580737	N/A	2016/07/22	Automated Statchk
Reactive Silica	KONE	4586433	N/A	2016/07/21	Nancy Rogers
Sulphate	KONE	4586428	N/A	2016/07/22	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4580738	N/A	2016/07/22	Automated Statchk
Organic carbon - Total (TOC)	TECH	4585766	N/A	2016/07/21	Soraya Merchant
Total Suspended Solids	BAL	4585717	2016/07/20	2016/07/20	Megan MacMillan
Turbidity	TURB	4584024	N/A	2016/07/19	Julia McGovern

**Maxxam ID:** CSF361  
**Sample ID:** P3  
**Matrix:** Water

**Collected:** 2016/07/14  
**Shipped:**  
**Received:** 2016/07/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4580730	N/A	2016/07/20	Automated Statchk
Alkalinity	KONE	4586424	N/A	2016/07/22	Nancy Rogers
Chloride	KONE	4586426	N/A	2016/07/22	Nancy Rogers
Colour	KONE	4586439	N/A	2016/07/21	Nancy Rogers
Conductance - water	AT	4585675	N/A	2016/07/20	Julia McGovern
Hardness (calculated as CaCO3)		4580732	N/A	2016/07/22	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588194	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Total MS	CICP/MS	4585895	2016/07/20	2016/07/21	Bryon Angevine
Ion Balance (% Difference)	CALC	4580733	N/A	2016/07/22	Automated Statchk
Anion and Cation Sum	CALC	4580734	N/A	2016/07/22	Automated Statchk
Nitrogen Ammonia - water	KONE	4587902	N/A	2016/07/21	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4586447	N/A	2016/07/22	Nancy Rogers
Nitrogen - Nitrite	KONE	4586455	N/A	2016/07/22	Mary Clancey
Nitrogen - Nitrate (as N)	CALC	4580735	N/A	2016/07/22	Automated Statchk
pH	AT	4585674	N/A	2016/07/20	Julia McGovern
Phosphorus - ortho	KONE	4586445	N/A	2016/07/22	Cecilia (Kate) Barrett
Sat. pH and Langelier Index (@ 20C)	CALC	4580736	N/A	2016/07/22	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4580737	N/A	2016/07/22	Automated Statchk
Reactive Silica	KONE	4586433	N/A	2016/07/21	Nancy Rogers
Sulphate	KONE	4586428	N/A	2016/07/22	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4580738	N/A	2016/07/22	Automated Statchk
Organic carbon - Total (TOC)	TECH	4585766	N/A	2016/07/21	Soraya Merchant
Turbidity	TURB	4584024	N/A	2016/07/19	Julia McGovern

Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

## TEST SUMMARY

**Maxxam ID:** CSF362  
**Sample ID:** SWDUP1  
**Matrix:** Water

**Collected:** 2016/07/14  
**Shipped:**  
**Received:** 2016/07/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4580730	N/A	2016/07/19	Automated Statchk
Alkalinity	KONE	4586424	N/A	2016/07/22	Nancy Rogers
Chloride	KONE	4586426	N/A	2016/07/22	Nancy Rogers
Colour	KONE	4586439	N/A	2016/07/21	Nancy Rogers
Conductance - water	AT	4583896	N/A	2016/07/19	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4580732	N/A	2016/07/22	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588194	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Total MS	CICP/MS	4585662	2016/07/20	2016/07/21	Bryon Angevine
Ion Balance (% Difference)	CALC	4580733	N/A	2016/07/22	Automated Statchk
Anion and Cation Sum	CALC	4580734	N/A	2016/07/22	Automated Statchk
Nitrogen Ammonia - water	KONE	4587902	N/A	2016/07/21	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4586447	N/A	2016/07/22	Nancy Rogers
Nitrogen - Nitrite	KONE	4586455	N/A	2016/07/22	Mary Clancey
Nitrogen - Nitrate (as N)	CALC	4580735	N/A	2016/07/22	Automated Statchk
pH	AT	4583894	N/A	2016/07/19	Julia McGovern
Phosphorus - ortho	KONE	4586445	N/A	2016/07/22	Cecilia (Kate) Barrett
Sat. pH and Langelier Index (@ 20C)	CALC	4580736	N/A	2016/07/22	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4580737	N/A	2016/07/22	Automated Statchk
Reactive Silica	KONE	4586433	N/A	2016/07/21	Nancy Rogers
Sulphate	KONE	4586428	N/A	2016/07/22	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4580738	N/A	2016/07/22	Automated Statchk
Organic carbon - Total (TOC)	TECH	4585766	N/A	2016/07/21	Soraya Merchant
Turbidity	TURB	4584024	N/A	2016/07/19	Julia McGovern

**Maxxam ID:** CSF363  
**Sample ID:** SW5  
**Matrix:** Water

**Collected:** 2016/07/14  
**Shipped:**  
**Received:** 2016/07/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4580730	N/A	2016/07/19	Automated Statchk
Alkalinity	KONE	4586424	N/A	2016/07/22	Nancy Rogers
Chloride	KONE	4586426	N/A	2016/07/22	Nancy Rogers
Colour	KONE	4586439	N/A	2016/07/21	Nancy Rogers
Conductance - water	AT	4583900	N/A	2016/07/19	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4580732	N/A	2016/07/22	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588194	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Total MS	CICP/MS	4585662	2016/07/20	2016/07/21	Bryon Angevine
Ion Balance (% Difference)	CALC	4580733	N/A	2016/07/22	Automated Statchk
Anion and Cation Sum	CALC	4580734	N/A	2016/07/22	Automated Statchk
Nitrogen Ammonia - water	KONE	4587902	N/A	2016/07/21	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4586447	N/A	2016/07/22	Nancy Rogers
Nitrogen - Nitrite	KONE	4586455	N/A	2016/07/22	Mary Clancey
Nitrogen - Nitrate (as N)	CALC	4580735	N/A	2016/07/22	Automated Statchk
pH	AT	4583898	N/A	2016/07/19	Julia McGovern

Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

## TEST SUMMARY

**Maxxam ID:** CSF363  
**Sample ID:** SW5  
**Matrix:** Water

**Collected:** 2016/07/14  
**Shipped:**  
**Received:** 2016/07/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phosphorus - ortho	KONE	4586445	N/A	2016/07/22	Cecilia (Kate) Barrett
Sat. pH and Langelier Index (@ 20C)	CALC	4580736	N/A	2016/07/22	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4580737	N/A	2016/07/22	Automated Statchk
Reactive Silica	KONE	4586433	N/A	2016/07/21	Nancy Rogers
Sulphate	KONE	4586428	N/A	2016/07/22	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4580738	N/A	2016/07/22	Automated Statchk
Organic carbon - Total (TOC)	TECH	4585899	N/A	2016/07/21	Soraya Merchant
Turbidity	TURB	4584024	N/A	2016/07/19	Julia McGovern

**Maxxam ID:** CSF364  
**Sample ID:** BACK2  
**Matrix:** Water

**Collected:** 2016/07/14  
**Shipped:**  
**Received:** 2016/07/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4580730	N/A	2016/07/19	Automated Statchk
Alkalinity	KONE	4586424	N/A	2016/07/22	Nancy Rogers
Chloride	KONE	4586426	N/A	2016/07/22	Nancy Rogers
Colour	KONE	4586439	N/A	2016/07/21	Nancy Rogers
Conductance - water	AT	4583896	N/A	2016/07/19	Julia McGovern
Hardness (calculated as CaCO3)		4580732	N/A	2016/07/22	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588194	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4587845	N/A	2016/07/21	Bryon Angevine
Metals Water Total MS	CICP/MS	4585662	2016/07/20	2016/07/21	Bryon Angevine
Ion Balance (% Difference)	CALC	4580733	N/A	2016/07/22	Automated Statchk
Anion and Cation Sum	CALC	4580734	N/A	2016/07/22	Automated Statchk
Nitrogen Ammonia - water	KONE	4587902	N/A	2016/07/21	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4586447	N/A	2016/07/22	Nancy Rogers
Nitrogen - Nitrite	KONE	4586455	N/A	2016/07/22	Mary Clancey
Nitrogen - Nitrate (as N)	CALC	4580735	N/A	2016/07/22	Automated Statchk
pH	AT	4583894	N/A	2016/07/19	Julia McGovern
Phosphorus - ortho	KONE	4586445	N/A	2016/07/22	Cecilia (Kate) Barrett
Sat. pH and Langelier Index (@ 20C)	CALC	4580736	N/A	2016/07/22	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4580737	N/A	2016/07/22	Automated Statchk
Reactive Silica	KONE	4586433	N/A	2016/07/21	Nancy Rogers
Sulphate	KONE	4586428	N/A	2016/07/22	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4580738	N/A	2016/07/22	Automated Statchk
Organic carbon - Total (TOC)	TECH	4585899	N/A	2016/07/21	Soraya Merchant
Total Suspended Solids	BAL	4585717	2016/07/20	2016/07/20	Megan MacMillan
Turbidity	TURB	4584024	N/A	2016/07/19	Julia McGovern

Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

## TEST SUMMARY

**Maxxam ID:** CSF365  
**Sample ID:** SW7  
**Matrix:** Water

**Collected:** 2016/07/14  
**Shipped:**  
**Received:** 2016/07/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4580730	N/A	2016/07/19	Automated Statchk
Alkalinity	KONE	4586424	N/A	2016/07/22	Nancy Rogers
Chloride	KONE	4586426	N/A	2016/07/22	Nancy Rogers
Colour	KONE	4586439	N/A	2016/07/21	Nancy Rogers
Conductance - water	AT	4583896	N/A	2016/07/19	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4580732	N/A	2016/07/22	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588194	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Total MS	CICP/MS	4585662	2016/07/20	2016/07/21	Bryon Angevine
Ion Balance (% Difference)	CALC	4580733	N/A	2016/07/22	Automated Statchk
Anion and Cation Sum	CALC	4580734	N/A	2016/07/22	Automated Statchk
Nitrogen Ammonia - water	KONE	4587902	N/A	2016/07/21	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4586447	N/A	2016/07/22	Nancy Rogers
Nitrogen - Nitrite	KONE	4586455	N/A	2016/07/22	Mary Clancey
Nitrogen - Nitrate (as N)	CALC	4580735	N/A	2016/07/22	Automated Statchk
pH	AT	4583894	N/A	2016/07/19	Julia McGovern
Phosphorus - ortho	KONE	4586445	N/A	2016/07/22	Cecilia (Kate) Barrett
Sat. pH and Langelier Index (@ 20C)	CALC	4580736	N/A	2016/07/22	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4580737	N/A	2016/07/22	Automated Statchk
Reactive Silica	KONE	4586433	N/A	2016/07/21	Nancy Rogers
Sulphate	KONE	4586428	N/A	2016/07/22	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4580738	N/A	2016/07/22	Automated Statchk
Organic carbon - Total (TOC)	TECH	4585899	N/A	2016/07/21	Soraya Merchant
Turbidity	TURB	4584024	N/A	2016/07/19	Julia McGovern

**Maxxam ID:** CSF366  
**Sample ID:** SWDUP2  
**Matrix:** Water

**Collected:** 2016/07/14  
**Shipped:**  
**Received:** 2016/07/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4580730	N/A	2016/07/19	Automated Statchk
Alkalinity	KONE	4586424	N/A	2016/07/22	Nancy Rogers
Chloride	KONE	4586426	N/A	2016/07/22	Nancy Rogers
Colour	KONE	4586439	N/A	2016/07/21	Nancy Rogers
Conductance - water	AT	4583896	N/A	2016/07/19	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4580732	N/A	2016/07/21	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588194	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4587845	N/A	2016/07/21	Bryon Angevine
Metals Water Total MS	CICP/MS	4584314	2016/07/19	2016/07/20	Bryon Angevine
Ion Balance (% Difference)	CALC	4580733	N/A	2016/07/22	Automated Statchk
Anion and Cation Sum	CALC	4580734	N/A	2016/07/22	Automated Statchk
Nitrogen Ammonia - water	KONE	4587902	N/A	2016/07/21	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4586447	N/A	2016/07/22	Nancy Rogers
Nitrogen - Nitrite	KONE	4586455	N/A	2016/07/22	Mary Clancey
Nitrogen - Nitrate (as N)	CALC	4580735	N/A	2016/07/22	Automated Statchk

Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

## TEST SUMMARY

**Maxxam ID:** CSF366  
**Sample ID:** SWDUP2  
**Matrix:** Water

**Collected:** 2016/07/14  
**Shipped:**  
**Received:** 2016/07/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	4583894	N/A	2016/07/19	Julia McGovern
Phosphorus - ortho	KONE	4586445	N/A	2016/07/22	Cecilia (Kate) Barrett
Sat. pH and Langelier Index (@ 20C)	CALC	4580736	N/A	2016/07/22	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4580737	N/A	2016/07/22	Automated Statchk
Reactive Silica	KONE	4586433	N/A	2016/07/21	Nancy Rogers
Sulphate	KONE	4586428	N/A	2016/07/22	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4580738	N/A	2016/07/22	Automated Statchk
Organic carbon - Total (TOC)	TECH	4585899	N/A	2016/07/21	Soraya Merchant
Total Suspended Solids	BAL	4585717	2016/07/20	2016/07/20	Megan MacMillan
Turbidity	TURB	4584019	N/A	2016/07/19	Julia McGovern

**Maxxam ID:** CSF366 Dup  
**Sample ID:** SWDUP2  
**Matrix:** Water

**Collected:** 2016/07/14  
**Shipped:**  
**Received:** 2016/07/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	KONE	4586424	N/A	2016/07/22	Nancy Rogers
Chloride	KONE	4586426	N/A	2016/07/22	Nancy Rogers
Colour	KONE	4586439	N/A	2016/07/21	Nancy Rogers
Conductance - water	AT	4583896	N/A	2016/07/19	Julia McGovern
Nitrogen - Nitrate + Nitrite	KONE	4586447	N/A	2016/07/22	Nancy Rogers
Nitrogen - Nitrite	KONE	4586455	N/A	2016/07/22	Mary Clancey
pH	AT	4583894	N/A	2016/07/19	Julia McGovern
Phosphorus - ortho	KONE	4586445	N/A	2016/07/22	Cecilia (Kate) Barrett
Reactive Silica	KONE	4586433	N/A	2016/07/21	Nancy Rogers
Sulphate	KONE	4586428	N/A	2016/07/22	Nancy Rogers

**Maxxam ID:** CSF367  
**Sample ID:** SW9  
**Matrix:** Water

**Collected:** 2016/07/14  
**Shipped:**  
**Received:** 2016/07/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4580730	N/A	2016/07/19	Automated Statchk
Alkalinity	KONE	4586424	N/A	2016/07/22	Nancy Rogers
Chloride	KONE	4586426	N/A	2016/07/22	Nancy Rogers
Colour	KONE	4586439	N/A	2016/07/21	Nancy Rogers
Conductance - water	AT	4583912	N/A	2016/07/19	Julia McGovern
Hardness (calculated as CaCO3)		4580732	N/A	2016/07/22	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588194	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Total MS	CICP/MS	4585662	2016/07/20	2016/07/21	Bryon Angevine
Ion Balance (% Difference)	CALC	4580733	N/A	2016/07/22	Automated Statchk
Anion and Cation Sum	CALC	4580734	N/A	2016/07/22	Automated Statchk
Nitrogen Ammonia - water	KONE	4587902	N/A	2016/07/21	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4586447	N/A	2016/07/22	Nancy Rogers



Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

## TEST SUMMARY

**Maxxam ID:** CSF367  
**Sample ID:** SW9  
**Matrix:** Water

**Collected:** 2016/07/14  
**Shipped:**  
**Received:** 2016/07/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrite	KONE	4586455	N/A	2016/07/22	Mary Clancey
Nitrogen - Nitrate (as N)	CALC	4580735	N/A	2016/07/22	Automated Statchk
pH	AT	4583911	N/A	2016/07/19	Julia McGovern
Phosphorus - ortho	KONE	4586445	N/A	2016/07/22	Cecilia (Kate) Barrett
Sat. pH and Langelier Index (@ 20C)	CALC	4580736	N/A	2016/07/22	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4580737	N/A	2016/07/22	Automated Statchk
Reactive Silica	KONE	4586433	N/A	2016/07/21	Nancy Rogers
Sulphate	KONE	4586428	N/A	2016/07/22	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4580738	N/A	2016/07/22	Automated Statchk
Organic carbon - Total (TOC)	TECH	4585899	N/A	2016/07/21	Soraya Merchant
Turbidity	TURB	4584024	N/A	2016/07/19	Julia McGovern

**Maxxam ID:** CSR212  
**Sample ID:** SW3  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4583964	N/A	2016/07/22	Automated Statchk
Alkalinity	KONE	4586538	N/A	2016/07/22	Nancy Rogers
Chloride	KONE	4586550	N/A	2016/07/22	Nancy Rogers
Colour	KONE	4586557	N/A	2016/07/21	Nancy Rogers
Conductance - water	AT	4589411	N/A	2016/07/22	Julia McGovern
Hardness (calculated as CaCO3)		4583966	N/A	2016/07/22	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588194	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4589406	N/A	2016/07/22	Bryon Angevine
Metals Water Total MS	CICP/MS	4587708	2016/07/21	2016/07/21	Bryon Angevine
Ion Balance (% Difference)	CALC	4583967	N/A	2016/07/22	Automated Statchk
Anion and Cation Sum	CALC	4583968	N/A	2016/07/22	Automated Statchk
Nitrogen Ammonia - water	KONE	4587902	N/A	2016/07/21	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4586563	N/A	2016/07/22	Nancy Rogers
Nitrogen - Nitrite	KONE	4586568	N/A	2016/07/22	Mary Clancey
Nitrogen - Nitrate (as N)	CALC	4584921	N/A	2016/07/22	Automated Statchk
pH	AT	4589410	N/A	2016/07/22	Julia McGovern
Phosphorus - ortho	KONE	4586562	N/A	2016/07/22	Cecilia (Kate) Barrett
Sat. pH and Langelier Index (@ 20C)	CALC	4583971	N/A	2016/07/22	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4583972	N/A	2016/07/22	Automated Statchk
Reactive Silica	KONE	4586556	N/A	2016/07/21	Nancy Rogers
Sulphate	KONE	4586555	N/A	2016/07/22	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4583973	N/A	2016/07/22	Automated Statchk
Organic carbon - Total (TOC)	TECH	4585899	N/A	2016/07/21	Soraya Merchant
Total Suspended Solids	BAL	4586190	2016/07/20	2016/07/21	Megan MacMillan
Turbidity	TURB	4589515	N/A	2016/07/22	Julia McGovern

Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

## TEST SUMMARY

**Maxxam ID:** CSR212 Dup  
**Sample ID:** SW3  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Suspended Solids	BAL	4586190	2016/07/20	2016/07/21	Megan MacMillan

**Maxxam ID:** CSR319  
**Sample ID:** SW4  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4583964	N/A	2016/07/22	Automated Statchk
Alkalinity	KONE	4586538	N/A	2016/07/22	Nancy Rogers
Chloride	KONE	4586550	N/A	2016/07/22	Nancy Rogers
Colour	KONE	4586557	N/A	2016/07/21	Nancy Rogers
Conductance - water	AT	4589411	N/A	2016/07/22	Julia McGovern
Hardness (calculated as CaCO3)		4583966	N/A	2016/07/22	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588194	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Total MS	CICP/MS	4587708	2016/07/21	2016/07/21	Bryon Angevine
Ion Balance (% Difference)	CALC	4583967	N/A	2016/07/22	Automated Statchk
Anion and Cation Sum	CALC	4583968	N/A	2016/07/22	Automated Statchk
Nitrogen Ammonia - water	KONE	4587902	N/A	2016/07/21	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4586563	N/A	2016/07/22	Nancy Rogers
Nitrogen - Nitrite	KONE	4586568	N/A	2016/07/22	Mary Clancey
Nitrogen - Nitrate (as N)	CALC	4584921	N/A	2016/07/22	Automated Statchk
pH	AT	4589410	N/A	2016/07/22	Julia McGovern
Phosphorus - ortho	KONE	4586562	N/A	2016/07/22	Cecilia (Kate) Barrett
Sat. pH and Langelier Index (@ 20C)	CALC	4583971	N/A	2016/07/22	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4583972	N/A	2016/07/22	Automated Statchk
Reactive Silica	KONE	4586556	N/A	2016/07/21	Nancy Rogers
Sulphate	KONE	4586555	N/A	2016/07/22	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4583973	N/A	2016/07/22	Automated Statchk
Organic carbon - Total (TOC)	TECH	4585899	N/A	2016/07/21	Soraya Merchant
Turbidity	TURB	4589508	N/A	2016/07/22	Julia McGovern

**Maxxam ID:** CSR319 Dup  
**Sample ID:** SW4  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Turbidity	TURB	4589508	N/A	2016/07/22	Julia McGovern

**Maxxam ID:** CSR326  
**Sample ID:** SW14  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4583964	N/A	2016/07/22	Automated Statchk



Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

## TEST SUMMARY

**Maxxam ID:** CSR326  
**Sample ID:** SW14  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	KONE	4586538	N/A	2016/07/22	Nancy Rogers
Chloride	KONE	4586550	N/A	2016/07/22	Nancy Rogers
Colour	KONE	4586557	N/A	2016/07/21	Nancy Rogers
Conductance - water	AT	4589413	N/A	2016/07/22	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4583966	N/A	2016/07/22	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588194	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4587848	N/A	2016/07/22	Bryon Angevine
Metals Water Total MS	CICP/MS	4587708	2016/07/21	2016/07/21	Bryon Angevine
Ion Balance (% Difference)	CALC	4583967	N/A	2016/07/22	Automated Statchk
Anion and Cation Sum	CALC	4583968	N/A	2016/07/22	Automated Statchk
Nitrogen Ammonia - water	KONE	4587902	N/A	2016/07/21	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4586563	N/A	2016/07/22	Nancy Rogers
Nitrogen - Nitrite	KONE	4586568	N/A	2016/07/22	Mary Clancey
Nitrogen - Nitrate (as N)	CALC	4584921	N/A	2016/07/22	Automated Statchk
pH	AT	4589412	N/A	2016/07/22	Julia McGovern
Phosphorus - ortho	KONE	4586562	N/A	2016/07/22	Cecilia (Kate) Barrett
Sat. pH and Langelier Index (@ 20C)	CALC	4583971	N/A	2016/07/22	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4583972	N/A	2016/07/22	Automated Statchk
Reactive Silica	KONE	4586556	N/A	2016/07/21	Nancy Rogers
Sulphate	KONE	4586555	N/A	2016/07/22	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4583973	N/A	2016/07/22	Automated Statchk
Organic carbon - Total (TOC)	TECH	4585899	N/A	2016/07/21	Soraya Merchant
Total Suspended Solids	BAL	4586190	2016/07/20	2016/07/21	Megan MacMillan
Turbidity	TURB	4589508	N/A	2016/07/22	Julia McGovern

**Maxxam ID:** CSR326 Dup  
**Sample ID:** SW14  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen Ammonia - water	KONE	4587902	N/A	2016/07/21	Nancy Rogers

**Maxxam ID:** CSR334  
**Sample ID:** P1A  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4583964	N/A	2016/07/22	Automated Statchk
Alkalinity	KONE	4586538	N/A	2016/07/22	Nancy Rogers
Chloride	KONE	4586550	N/A	2016/07/22	Nancy Rogers
Colour	KONE	4586557	N/A	2016/07/21	Nancy Rogers
Conductance - water	AT	4589413	N/A	2016/07/22	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4583966	N/A	2016/07/22	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588194	2016/07/21	2016/07/22	Arlene Rossiter

Maxxam Job #: B6E7556  
Report Date: 2016/07/22

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016

## TEST SUMMARY

**Maxxam ID:** CSR334  
**Sample ID:** P1A  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/15

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Water Total MS	CICP/MS	4587765	2016/07/21	2016/07/22	Bryon Angevine
Ion Balance (% Difference)	CALC	4583967	N/A	2016/07/22	Automated Statchk
Anion and Cation Sum	CALC	4583968	N/A	2016/07/22	Automated Statchk
Nitrogen Ammonia - water	KONE	4587911	N/A	2016/07/21	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4586563	N/A	2016/07/22	Nancy Rogers
Nitrogen - Nitrite	KONE	4586568	N/A	2016/07/22	Mary Clancey
Nitrogen - Nitrate (as N)	CALC	4584921	N/A	2016/07/22	Automated Statchk
pH	AT	4589412	N/A	2016/07/22	Julia McGovern
Phosphorus - ortho	KONE	4586562	N/A	2016/07/22	Cecilia (Kate) Barrett
Sat. pH and Langelier Index (@ 20C)	CALC	4583971	N/A	2016/07/22	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4583972	N/A	2016/07/22	Automated Statchk
Reactive Silica	KONE	4586556	N/A	2016/07/21	Nancy Rogers
Sulphate	KONE	4586555	N/A	2016/07/22	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4583973	N/A	2016/07/22	Automated Statchk
Organic carbon - Total (TOC)	TECH	4585899	N/A	2016/07/21	Soraya Merchant
Turbidity	TURB	4589508	N/A	2016/07/22	Julia McGovern

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## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	7.3°C
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Sample CSF359-01 : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample CSF360-01 : RCap Ion Balance acceptable. Low ionic strength sample.

Sample CSF361-01 : Poor RCap Ion Balance due to sample matrix. Excess cations due to presence of turbidity.

Sample CSF362-01 : Poor RCap Ion Balance due to sample matrix. Excess cations due to presence of turbidity.

Sample CSF363-01 : Poor RCap Ion Balance due to sample matrix. Excess cations due to presence of turbidity.

Sample CSF365-01 : RCap Ion Balance acceptable. Low ionic strength sample.

Sample CSF367-01 : Poor RCap Ion Balance due to sample matrix. Excess cations due to presence of turbidity.

Sample CSR212-01 : Poor RCap Ion Balance due to sample matrix. Possibly due to fine particulate matter.

Sample CSR334-01 : Elevated reporting limits for trace metals due to sample matrix.

Poor RCap Ion Balance due to sample matrix. Excess cations due to presence of turbidity.

**Results relate only to the items tested.**

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### QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4583894	JMV	QC Standard	pH	2016/07/19		100	%	97 - 103
4583894	JMV	RPD - Sample/Sample Dup	pH	2016/07/19	0.51		%	N/A
4583896	JMV	Spiked Blank	Conductivity	2016/07/19		102	%	80 - 120
4583896	JMV	Method Blank	Conductivity	2016/07/19	1.4, RDL=1.0		uS/cm	
4583896	JMV	RPD - Sample/Sample Dup	Conductivity	2016/07/19	0.79		%	25
4583898	JMV	QC Standard	pH	2016/07/19		100	%	97 - 103
4583898	JMV	RPD - Sample/Sample Dup	pH	2016/07/19	0.61		%	N/A
4583900	JMV	Spiked Blank	Conductivity	2016/07/19		102	%	80 - 120
4583900	JMV	Method Blank	Conductivity	2016/07/19	1.4, RDL=1.0		uS/cm	
4583900	JMV	RPD - Sample/Sample Dup	Conductivity	2016/07/19	0.30		%	25
4583911	JMV	QC Standard	pH	2016/07/19		100	%	97 - 103
4583911	JMV	RPD - Sample/Sample Dup	pH	2016/07/19	1.1		%	N/A
4583912	JMV	Spiked Blank	Conductivity	2016/07/19		102	%	80 - 120
4583912	JMV	Method Blank	Conductivity	2016/07/19	1.5, RDL=1.0		uS/cm	
4583912	JMV	RPD - Sample/Sample Dup	Conductivity	2016/07/19	0.80		%	25
4584019	JMV	QC Standard	Turbidity	2016/07/19		98	%	80 - 120
4584019	JMV	Spiked Blank	Turbidity	2016/07/19		99	%	80 - 120
4584019	JMV	Method Blank	Turbidity	2016/07/19	<0.10		NTU	
4584019	JMV	RPD - Sample/Sample Dup	Turbidity	2016/07/19	NC		%	20
4584024	JMV	QC Standard	Turbidity	2016/07/19		99	%	80 - 120
4584024	JMV	Spiked Blank	Turbidity	2016/07/19		98	%	80 - 120
4584024	JMV	Method Blank	Turbidity	2016/07/19	<0.10		NTU	
4584024	JMV	RPD - Sample/Sample Dup	Turbidity	2016/07/19	2.1		%	20
4584314	BAN	Matrix Spike	Total Aluminum (Al)	2016/07/20		105	%	80 - 120
			Total Antimony (Sb)	2016/07/20		103	%	80 - 120
			Total Arsenic (As)	2016/07/20		98	%	80 - 120
			Total Barium (Ba)	2016/07/20		100	%	80 - 120
			Total Beryllium (Be)	2016/07/20		100	%	80 - 120
			Total Bismuth (Bi)	2016/07/20		101	%	80 - 120
			Total Boron (B)	2016/07/20		99	%	80 - 120
			Total Cadmium (Cd)	2016/07/20		100	%	80 - 120
			Total Calcium (Ca)	2016/07/20		NC	%	80 - 120
			Total Chromium (Cr)	2016/07/20		100	%	80 - 120
			Total Cobalt (Co)	2016/07/20		100	%	80 - 120
			Total Copper (Cu)	2016/07/20		99	%	80 - 120
			Total Iron (Fe)	2016/07/20		103	%	80 - 120
			Total Lead (Pb)	2016/07/20		102	%	80 - 120
			Total Magnesium (Mg)	2016/07/20		104	%	80 - 120
			Total Manganese (Mn)	2016/07/20		NC	%	80 - 120
			Total Molybdenum (Mo)	2016/07/20		103	%	80 - 120
			Total Nickel (Ni)	2016/07/20		98	%	80 - 120
			Total Phosphorus (P)	2016/07/20		106	%	80 - 120
			Total Potassium (K)	2016/07/20		100	%	80 - 120
			Total Selenium (Se)	2016/07/20		100	%	80 - 120
			Total Silver (Ag)	2016/07/20		98	%	80 - 120
			Total Sodium (Na)	2016/07/20		102	%	80 - 120
			Total Strontium (Sr)	2016/07/20		NC	%	80 - 120
			Total Thallium (Tl)	2016/07/20		102	%	80 - 120
			Total Tin (Sn)	2016/07/20		102	%	80 - 120

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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4584314	BAN	Spiked Blank	Total Titanium (Ti)	2016/07/20		105	%	80 - 120
			Total Uranium (U)	2016/07/20		107	%	80 - 120
			Total Vanadium (V)	2016/07/20		102	%	80 - 120
			Total Zinc (Zn)	2016/07/20		95	%	80 - 120
			Total Aluminum (Al)	2016/07/20		103	%	80 - 120
			Total Antimony (Sb)	2016/07/20		98	%	80 - 120
			Total Arsenic (As)	2016/07/20		96	%	80 - 120
			Total Barium (Ba)	2016/07/20		98	%	80 - 120
			Total Beryllium (Be)	2016/07/20		99	%	80 - 120
			Total Bismuth (Bi)	2016/07/20		100	%	80 - 120
			Total Boron (B)	2016/07/20		103	%	80 - 120
			Total Cadmium (Cd)	2016/07/20		97	%	80 - 120
			Total Calcium (Ca)	2016/07/20		100	%	80 - 120
			Total Chromium (Cr)	2016/07/20		98	%	80 - 120
			Total Cobalt (Co)	2016/07/20		99	%	80 - 120
			Total Copper (Cu)	2016/07/20		99	%	80 - 120
			Total Iron (Fe)	2016/07/20		103	%	80 - 120
			Total Lead (Pb)	2016/07/20		99	%	80 - 120
			Total Magnesium (Mg)	2016/07/20		102	%	80 - 120
			Total Manganese (Mn)	2016/07/20		100	%	80 - 120
			Total Molybdenum (Mo)	2016/07/20		100	%	80 - 120
			Total Nickel (Ni)	2016/07/20		98	%	80 - 120
			Total Phosphorus (P)	2016/07/20		101	%	80 - 120
			Total Potassium (K)	2016/07/20		98	%	80 - 120
			Total Selenium (Se)	2016/07/20		96	%	80 - 120
			Total Silver (Ag)	2016/07/20		98	%	80 - 120
			Total Sodium (Na)	2016/07/20		100	%	80 - 120
			Total Strontium (Sr)	2016/07/20		99	%	80 - 120
			Total Thallium (Tl)	2016/07/20		100	%	80 - 120
			Total Tin (Sn)	2016/07/20		100	%	80 - 120
			Total Titanium (Ti)	2016/07/20		102	%	80 - 120
			Total Uranium (U)	2016/07/20		103	%	80 - 120
			Total Vanadium (V)	2016/07/20		100	%	80 - 120
			Total Zinc (Zn)	2016/07/20		96	%	80 - 120
4584314	BAN	Method Blank	Total Aluminum (Al)	2016/07/20	7.0, RDL=5.0		ug/L	
			Total Antimony (Sb)	2016/07/20	<1.0		ug/L	
			Total Arsenic (As)	2016/07/20	<1.0		ug/L	
			Total Barium (Ba)	2016/07/20	<1.0		ug/L	
			Total Beryllium (Be)	2016/07/20	<1.0		ug/L	
			Total Bismuth (Bi)	2016/07/20	<2.0		ug/L	
			Total Boron (B)	2016/07/20	<50		ug/L	
			Total Cadmium (Cd)	2016/07/20	<0.010		ug/L	
			Total Calcium (Ca)	2016/07/20	<100		ug/L	
			Total Chromium (Cr)	2016/07/20	<1.0		ug/L	
			Total Cobalt (Co)	2016/07/20	<0.40		ug/L	
			Total Copper (Cu)	2016/07/20	<2.0		ug/L	
			Total Iron (Fe)	2016/07/20	<50		ug/L	
			Total Lead (Pb)	2016/07/20	<0.50		ug/L	
			Total Magnesium (Mg)	2016/07/20	<100		ug/L	
			Total Manganese (Mn)	2016/07/20	<2.0		ug/L	
			Total Molybdenum (Mo)	2016/07/20	<2.0		ug/L	

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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4584314	BAN	RPD - Sample/Sample Dup	Total Nickel (Ni)	2016/07/20	<2.0		ug/L	
			Total Phosphorus (P)	2016/07/20	<100		ug/L	
			Total Potassium (K)	2016/07/20	<100		ug/L	
			Total Selenium (Se)	2016/07/20	<1.0		ug/L	
			Total Silver (Ag)	2016/07/20	<0.10		ug/L	
			Total Sodium (Na)	2016/07/20	160,		ug/L	
					RDL=100			
			Total Strontium (Sr)	2016/07/20	<2.0		ug/L	
			Total Thallium (Tl)	2016/07/20	<0.10		ug/L	
			Total Tin (Sn)	2016/07/20	<2.0		ug/L	
			Total Titanium (Ti)	2016/07/20	<2.0		ug/L	
			Total Uranium (U)	2016/07/20	<0.10		ug/L	
			Total Vanadium (V)	2016/07/20	<2.0		ug/L	
			Total Zinc (Zn)	2016/07/20	<5.0		ug/L	
			Total Aluminum (Al)	2016/07/20	1.5		%	20
			Total Antimony (Sb)	2016/07/20	NC		%	20
			Total Arsenic (As)	2016/07/20	NC		%	20
			Total Barium (Ba)	2016/07/20	4.4		%	20
			Total Beryllium (Be)	2016/07/20	NC		%	20
			Total Bismuth (Bi)	2016/07/20	NC		%	20
			Total Boron (B)	2016/07/20	NC		%	20
			Total Cadmium (Cd)	2016/07/20	NC		%	20
			Total Calcium (Ca)	2016/07/20	0.49		%	20
			Total Chromium (Cr)	2016/07/20	NC		%	20
			Total Cobalt (Co)	2016/07/20	NC		%	20
			Total Copper (Cu)	2016/07/20	NC		%	20
			Total Iron (Fe)	2016/07/20	NC		%	20
			Total Lead (Pb)	2016/07/20	NC		%	20
			Total Magnesium (Mg)	2016/07/20	1.9		%	20
			Total Manganese (Mn)	2016/07/20	4.0		%	20
			Total Molybdenum (Mo)	2016/07/20	1.4		%	20
			Total Nickel (Ni)	2016/07/20	NC		%	20
			Total Phosphorus (P)	2016/07/20	NC		%	20
			Total Potassium (K)	2016/07/20	2.2		%	20
			Total Selenium (Se)	2016/07/20	NC		%	20
			Total Silver (Ag)	2016/07/20	NC		%	20
			Total Sodium (Na)	2016/07/20	1.9		%	20
			Total Strontium (Sr)	2016/07/20	0.89		%	20
			Total Thallium (Tl)	2016/07/20	NC		%	20
			Total Tin (Sn)	2016/07/20	NC		%	20
			Total Titanium (Ti)	2016/07/20	NC		%	20
			Total Uranium (U)	2016/07/20	NC		%	20
			Total Vanadium (V)	2016/07/20	1.6		%	20
			Total Zinc (Zn)	2016/07/20	NC		%	20
4585662	BAN	Matrix Spike	Total Aluminum (Al)	2016/07/21		108	%	80 - 120
			Total Antimony (Sb)	2016/07/21		104	%	80 - 120
			Total Arsenic (As)	2016/07/21		101	%	80 - 120
			Total Barium (Ba)	2016/07/21		101	%	80 - 120
			Total Beryllium (Be)	2016/07/21		103	%	80 - 120
			Total Bismuth (Bi)	2016/07/21		103	%	80 - 120
			Total Boron (B)	2016/07/21		105	%	80 - 120
			Total Cadmium (Cd)	2016/07/21		103	%	80 - 120

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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4585662	BAN	Spiked Blank	Total Calcium (Ca)	2016/07/21		103	%	80 - 120
			Total Chromium (Cr)	2016/07/21		102	%	80 - 120
			Total Cobalt (Co)	2016/07/21		105	%	80 - 120
			Total Copper (Cu)	2016/07/21		104	%	80 - 120
			Total Iron (Fe)	2016/07/21		NC	%	80 - 120
			Total Lead (Pb)	2016/07/21		102	%	80 - 120
			Total Magnesium (Mg)	2016/07/21		106	%	80 - 120
			Total Manganese (Mn)	2016/07/21		NC	%	80 - 120
			Total Molybdenum (Mo)	2016/07/21		104	%	80 - 120
			Total Nickel (Ni)	2016/07/21		103	%	80 - 120
			Total Phosphorus (P)	2016/07/21		108	%	80 - 120
			Total Potassium (K)	2016/07/21		104	%	80 - 120
			Total Selenium (Se)	2016/07/21		102	%	80 - 120
			Total Silver (Ag)	2016/07/21		104	%	80 - 120
			Total Sodium (Na)	2016/07/21		103	%	80 - 120
			Total Strontium (Sr)	2016/07/21		NC	%	80 - 120
			Total Thallium (Tl)	2016/07/21		103	%	80 - 120
			Total Tin (Sn)	2016/07/21		107	%	80 - 120
			Total Titanium (Ti)	2016/07/21		100	%	80 - 120
			Total Uranium (U)	2016/07/21		107	%	80 - 120
			Total Vanadium (V)	2016/07/21		105	%	80 - 120
			Total Zinc (Zn)	2016/07/21		100	%	80 - 120
			Total Aluminum (Al)	2016/07/21		103	%	80 - 120
			Total Antimony (Sb)	2016/07/21		101	%	80 - 120
			Total Arsenic (As)	2016/07/21		98	%	80 - 120
			Total Barium (Ba)	2016/07/21		97	%	80 - 120
			Total Beryllium (Be)	2016/07/21		99	%	80 - 120
			Total Bismuth (Bi)	2016/07/21		100	%	80 - 120
			Total Boron (B)	2016/07/21		99	%	80 - 120
			Total Cadmium (Cd)	2016/07/21		100	%	80 - 120
			Total Calcium (Ca)	2016/07/21		100	%	80 - 120
			Total Chromium (Cr)	2016/07/21		101	%	80 - 120
			Total Cobalt (Co)	2016/07/21		102	%	80 - 120
			Total Copper (Cu)	2016/07/21		103	%	80 - 120
			Total Iron (Fe)	2016/07/21		105	%	80 - 120
			Total Lead (Pb)	2016/07/21		100	%	80 - 120
			Total Magnesium (Mg)	2016/07/21		104	%	80 - 120
			Total Manganese (Mn)	2016/07/21		102	%	80 - 120
			Total Molybdenum (Mo)	2016/07/21		100	%	80 - 120
			Total Nickel (Ni)	2016/07/21		101	%	80 - 120
			Total Phosphorus (P)	2016/07/21		104	%	80 - 120
			Total Potassium (K)	2016/07/21		101	%	80 - 120
			Total Selenium (Se)	2016/07/21		99	%	80 - 120
			Total Silver (Ag)	2016/07/21		99	%	80 - 120
			Total Sodium (Na)	2016/07/21		101	%	80 - 120
			Total Strontium (Sr)	2016/07/21		101	%	80 - 120
			Total Thallium (Tl)	2016/07/21		100	%	80 - 120
			Total Tin (Sn)	2016/07/21		101	%	80 - 120
			Total Titanium (Ti)	2016/07/21		102	%	80 - 120
			Total Uranium (U)	2016/07/21		103	%	80 - 120
			Total Vanadium (V)	2016/07/21		102	%	80 - 120
			Total Zinc (Zn)	2016/07/21		99	%	80 - 120



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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4585662	BAN	Method Blank	Total Aluminum (Al)	2016/07/21	<5.0		ug/L	
			Total Antimony (Sb)	2016/07/21	<1.0		ug/L	
			Total Arsenic (As)	2016/07/21	<1.0		ug/L	
			Total Barium (Ba)	2016/07/21	<1.0		ug/L	
			Total Beryllium (Be)	2016/07/21	<1.0		ug/L	
			Total Bismuth (Bi)	2016/07/21	<2.0		ug/L	
			Total Boron (B)	2016/07/21	<50		ug/L	
			Total Cadmium (Cd)	2016/07/21	<0.010		ug/L	
			Total Calcium (Ca)	2016/07/21	<100		ug/L	
			Total Chromium (Cr)	2016/07/21	<1.0		ug/L	
			Total Cobalt (Co)	2016/07/21	<0.40		ug/L	
			Total Copper (Cu)	2016/07/21	<2.0		ug/L	
			Total Iron (Fe)	2016/07/21	<50		ug/L	
			Total Lead (Pb)	2016/07/21	<0.50		ug/L	
			Total Magnesium (Mg)	2016/07/21	<100		ug/L	
			Total Manganese (Mn)	2016/07/21	<2.0		ug/L	
			Total Molybdenum (Mo)	2016/07/21	<2.0		ug/L	
			Total Nickel (Ni)	2016/07/21	<2.0		ug/L	
			Total Phosphorus (P)	2016/07/21	<100		ug/L	
			Total Potassium (K)	2016/07/21	<100		ug/L	
			Total Selenium (Se)	2016/07/21	<1.0		ug/L	
			Total Silver (Ag)	2016/07/21	<0.10		ug/L	
			Total Sodium (Na)	2016/07/21	<100		ug/L	
			Total Strontium (Sr)	2016/07/21	<2.0		ug/L	
			Total Thallium (Tl)	2016/07/21	<0.10		ug/L	
			Total Tin (Sn)	2016/07/21	<2.0		ug/L	
			Total Titanium (Ti)	2016/07/21	<2.0		ug/L	
			Total Uranium (U)	2016/07/21	<0.10		ug/L	
			Total Vanadium (V)	2016/07/21	<2.0		ug/L	
			Total Zinc (Zn)	2016/07/21	<5.0		ug/L	
4585662	BAN	RPD - Sample/Sample Dup	Total Aluminum (Al)	2016/07/21	0.49		%	20
			Total Iron (Fe)	2016/07/21	NC		%	20
			Total Manganese (Mn)	2016/07/21	0.047		%	20
4585674	JMV	QC Standard	pH	2016/07/20		100	%	97 - 103
4585674	JMV	RPD - Sample/Sample Dup	pH	2016/07/20	0.79		%	N/A
4585675	JMV	Spiked Blank	Conductivity	2016/07/20		101	%	80 - 120
4585675	JMV	Method Blank	Conductivity	2016/07/20	1.4, RDL=1.0		uS/cm	
4585675	JMV	RPD - Sample/Sample Dup	Conductivity	2016/07/20	0.83		%	25
4585717	MM9	QC Standard	Total Suspended Solids	2016/07/20		98	%	80 - 120
4585717	MM9	Method Blank	Total Suspended Solids	2016/07/20	<1.0		mg/L	
4585717	MM9	RPD - Sample/Sample Dup	Total Suspended Solids	2016/07/20	0.93		%	25
4585766	SMT	Matrix Spike	Total Organic Carbon (C)	2016/07/21		101	%	80 - 120
4585766	SMT	Spiked Blank	Total Organic Carbon (C)	2016/07/21		103	%	80 - 120
4585766	SMT	Method Blank	Total Organic Carbon (C)	2016/07/21	<0.50		mg/L	
4585766	SMT	RPD - Sample/Sample Dup	Total Organic Carbon (C)	2016/07/21	4.7		%	20
4585895	BAN	Matrix Spike	Total Aluminum (Al)	2016/07/21		113	%	80 - 120
			Total Antimony (Sb)	2016/07/21		104	%	80 - 120
			Total Arsenic (As)	2016/07/21		96	%	80 - 120
			Total Barium (Ba)	2016/07/21		102	%	80 - 120
			Total Beryllium (Be)	2016/07/21		94	%	80 - 120
			Total Bismuth (Bi)	2016/07/21		103	%	80 - 120



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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4585895	BAN	Spiked Blank	Total Boron (B)	2016/07/21		94	%	80 - 120
			Total Cadmium (Cd)	2016/07/21		98	%	80 - 120
			Total Calcium (Ca)	2016/07/21		NC	%	80 - 120
			Total Chromium (Cr)	2016/07/21		96	%	80 - 120
			Total Cobalt (Co)	2016/07/21		96	%	80 - 120
			Total Copper (Cu)	2016/07/21		NC	%	80 - 120
			Total Iron (Fe)	2016/07/21		101	%	80 - 120
			Total Lead (Pb)	2016/07/21		104	%	80 - 120
			Total Magnesium (Mg)	2016/07/21		100	%	80 - 120
			Total Manganese (Mn)	2016/07/21		99	%	80 - 120
			Total Molybdenum (Mo)	2016/07/21		102	%	80 - 120
			Total Nickel (Ni)	2016/07/21		95	%	80 - 120
			Total Phosphorus (P)	2016/07/21		105	%	80 - 120
			Total Potassium (K)	2016/07/21		101	%	80 - 120
			Total Selenium (Se)	2016/07/21		94	%	80 - 120
			Total Silver (Ag)	2016/07/21		NC	%	80 - 120
			Total Sodium (Na)	2016/07/21		98	%	80 - 120
			Total Strontium (Sr)	2016/07/21		103	%	80 - 120
			Total Thallium (Tl)	2016/07/21		104	%	80 - 120
			Total Tin (Sn)	2016/07/21		107	%	80 - 120
			Total Titanium (Ti)	2016/07/21		98	%	80 - 120
			Total Uranium (U)	2016/07/21		108	%	80 - 120
			Total Vanadium (V)	2016/07/21		98	%	80 - 120
			Total Zinc (Zn)	2016/07/21		94	%	80 - 120
			Total Aluminum (Al)	2016/07/21		106	%	80 - 120
			Total Antimony (Sb)	2016/07/21		103	%	80 - 120
			Total Arsenic (As)	2016/07/21		94	%	80 - 120
			Total Barium (Ba)	2016/07/21		100	%	80 - 120
			Total Beryllium (Be)	2016/07/21		92	%	80 - 120
			Total Bismuth (Bi)	2016/07/21		104	%	80 - 120
			Total Boron (B)	2016/07/21		92	%	80 - 120
			Total Cadmium (Cd)	2016/07/21		99	%	80 - 120
			Total Calcium (Ca)	2016/07/21		103	%	80 - 120
			Total Chromium (Cr)	2016/07/21		96	%	80 - 120
			Total Cobalt (Co)	2016/07/21		96	%	80 - 120
			Total Copper (Cu)	2016/07/21		95	%	80 - 120
			Total Iron (Fe)	2016/07/21		100	%	80 - 120
			Total Lead (Pb)	2016/07/21		103	%	80 - 120
			Total Magnesium (Mg)	2016/07/21		100	%	80 - 120
			Total Manganese (Mn)	2016/07/21		98	%	80 - 120
			Total Molybdenum (Mo)	2016/07/21		102	%	80 - 120
			Total Nickel (Ni)	2016/07/21		95	%	80 - 120
			Total Phosphorus (P)	2016/07/21		102	%	80 - 120
			Total Potassium (K)	2016/07/21		101	%	80 - 120
			Total Selenium (Se)	2016/07/21		93	%	80 - 120
			Total Silver (Ag)	2016/07/21		99	%	80 - 120
			Total Sodium (Na)	2016/07/21		97	%	80 - 120
			Total Strontium (Sr)	2016/07/21		101	%	80 - 120
			Total Thallium (Tl)	2016/07/21		104	%	80 - 120
			Total Tin (Sn)	2016/07/21		104	%	80 - 120
			Total Titanium (Ti)	2016/07/21		99	%	80 - 120
			Total Uranium (U)	2016/07/21		108	%	80 - 120

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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4585895	BAN	Method Blank	Total Vanadium (V)	2016/07/21		96	%	80 - 120
			Total Zinc (Zn)	2016/07/21		95	%	80 - 120
			Total Aluminum (Al)	2016/07/21	<5.0		ug/L	
			Total Antimony (Sb)	2016/07/21	<1.0		ug/L	
			Total Arsenic (As)	2016/07/21	<1.0		ug/L	
			Total Barium (Ba)	2016/07/21	<1.0		ug/L	
			Total Beryllium (Be)	2016/07/21	<1.0		ug/L	
			Total Bismuth (Bi)	2016/07/21	<2.0		ug/L	
			Total Boron (B)	2016/07/21	<50		ug/L	
			Total Cadmium (Cd)	2016/07/21	<0.010		ug/L	
			Total Calcium (Ca)	2016/07/21	<100		ug/L	
			Total Chromium (Cr)	2016/07/21	<1.0		ug/L	
			Total Cobalt (Co)	2016/07/21	<0.40		ug/L	
			Total Copper (Cu)	2016/07/21	<2.0		ug/L	
			Total Iron (Fe)	2016/07/21	<50		ug/L	
			Total Lead (Pb)	2016/07/21	<0.50		ug/L	
			Total Magnesium (Mg)	2016/07/21	<100		ug/L	
			Total Manganese (Mn)	2016/07/21	<2.0		ug/L	
			Total Molybdenum (Mo)	2016/07/21	<2.0		ug/L	
			Total Nickel (Ni)	2016/07/21	<2.0		ug/L	
			Total Phosphorus (P)	2016/07/21	<100		ug/L	
			Total Potassium (K)	2016/07/21	<100		ug/L	
			Total Selenium (Se)	2016/07/21	<1.0		ug/L	
			Total Silver (Ag)	2016/07/21	<0.10		ug/L	
			Total Sodium (Na)	2016/07/21	<100		ug/L	
			Total Strontium (Sr)	2016/07/21	<2.0		ug/L	
			Total Thallium (Tl)	2016/07/21	<0.10		ug/L	
			Total Tin (Sn)	2016/07/21	<2.0		ug/L	
			Total Titanium (Ti)	2016/07/21	<2.0		ug/L	
			Total Uranium (U)	2016/07/21	<0.10		ug/L	
			Total Vanadium (V)	2016/07/21	<2.0		ug/L	
			Total Zinc (Zn)	2016/07/21	<5.0		ug/L	
4585895	BAN	RPD - Sample/Sample Dup	Total Silver (Ag)	2016/07/21	0.91		%	20
4585899	SMT	Matrix Spike	Total Organic Carbon (C)	2016/07/21		103	%	80 - 120
4585899	SMT	Spiked Blank	Total Organic Carbon (C)	2016/07/21		108	%	80 - 120
4585899	SMT	Method Blank	Total Organic Carbon (C)	2016/07/21	<0.50		mg/L	
4585899	SMT	RPD - Sample/Sample Dup	Total Organic Carbon (C)	2016/07/21	NC		%	20
4586190	MM9	QC Standard	Total Suspended Solids	2016/07/21		94	%	80 - 120
4586190	MM9	Method Blank	Total Suspended Solids	2016/07/21	<1.0		mg/L	
4586190	MM9	RPD - Sample/Sample Dup	Total Suspended Solids	2016/07/21	3.8		%	25
4586424	NRG	Matrix Spike(CSF366)	Total Alkalinity (Total as CaCO3)	2016/07/22		106	%	80 - 120
4586424	NRG	Spiked Blank	Total Alkalinity (Total as CaCO3)	2016/07/22		104	%	80 - 120
4586424	NRG	Method Blank	Total Alkalinity (Total as CaCO3)	2016/07/22	<5.0		mg/L	
4586424	NRG	RPD - Sample/Sample Dup	Total Alkalinity (Total as CaCO3)	2016/07/22	NC		%	25
4586426	NRG	Matrix Spike(CSF366)	Dissolved Chloride (Cl)	2016/07/22		NC	%	80 - 120
4586426	NRG	QC Standard	Dissolved Chloride (Cl)	2016/07/22		106	%	80 - 120
4586426	NRG	Spiked Blank	Dissolved Chloride (Cl)	2016/07/22		103	%	80 - 120
4586426	NRG	Method Blank	Dissolved Chloride (Cl)	2016/07/22	<1.0		mg/L	
4586426	NRG	RPD - Sample/Sample Dup	Dissolved Chloride (Cl)	2016/07/22	2.4		%	25
4586428	NRG	Matrix Spike(CSF366)	Dissolved Sulphate (SO4)	2016/07/22		120	%	80 - 120
4586428	NRG	Spiked Blank	Dissolved Sulphate (SO4)	2016/07/22		103	%	80 - 120
4586428	NRG	Method Blank	Dissolved Sulphate (SO4)	2016/07/22	<2.0		mg/L	

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4586428	NRG	RPD - Sample/Sample Dup	Dissolved Sulphate (SO4)	2016/07/22	NC		%	25
4586433	NRG	Matrix Spike(CSF366)	Reactive Silica (SiO2)	2016/07/21		NC	%	80 - 120
4586433	NRG	Spiked Blank	Reactive Silica (SiO2)	2016/07/21		98	%	80 - 120
4586433	NRG	Method Blank	Reactive Silica (SiO2)	2016/07/21	<0.50		mg/L	
4586433	NRG	RPD - Sample/Sample Dup	Reactive Silica (SiO2)	2016/07/21	1.1		%	25
4586439	NRG	Spiked Blank	Colour	2016/07/21		106	%	80 - 120
4586439	NRG	Method Blank	Colour	2016/07/21	<5.0		TCU	
4586439	NRG	RPD - Sample/Sample Dup	Colour	2016/07/21	4.9		%	20
4586445	KBT	Matrix Spike(CSF366)	Orthophosphate (P)	2016/07/22		86	%	80 - 120
4586445	KBT	Spiked Blank	Orthophosphate (P)	2016/07/22		96	%	80 - 120
4586445	KBT	Method Blank	Orthophosphate (P)	2016/07/22	<0.010		mg/L	
4586445	KBT	RPD - Sample/Sample Dup	Orthophosphate (P)	2016/07/22	NC		%	25
4586447	NRG	Matrix Spike(CSF366)	Nitrate + Nitrite (N)	2016/07/22		103	%	80 - 120
4586447	NRG	Spiked Blank	Nitrate + Nitrite (N)	2016/07/22		104	%	80 - 120
4586447	NRG	Method Blank	Nitrate + Nitrite (N)	2016/07/22	<0.050		mg/L	
4586447	NRG	RPD - Sample/Sample Dup	Nitrate + Nitrite (N)	2016/07/22	3.5		%	25
4586455	MCN	Matrix Spike(CSF366)	Nitrite (N)	2016/07/22		84	%	80 - 120
4586455	MCN	Spiked Blank	Nitrite (N)	2016/07/22		94	%	80 - 120
4586455	MCN	Method Blank	Nitrite (N)	2016/07/22	<0.010		mg/L	
4586455	MCN	RPD - Sample/Sample Dup	Nitrite (N)	2016/07/22	NC		%	25
4586538	NRG	Matrix Spike	Total Alkalinity (Total as CaCO3)	2016/07/22		NC	%	80 - 120
4586538	NRG	Spiked Blank	Total Alkalinity (Total as CaCO3)	2016/07/22		109	%	80 - 120
4586538	NRG	Method Blank	Total Alkalinity (Total as CaCO3)	2016/07/22	<5.0		mg/L	
4586538	NRG	RPD - Sample/Sample Dup	Total Alkalinity (Total as CaCO3)	2016/07/22	2.8		%	25
4586550	NRG	Matrix Spike	Dissolved Chloride (Cl)	2016/07/22		101	%	80 - 120
4586550	NRG	QC Standard	Dissolved Chloride (Cl)	2016/07/22		106	%	80 - 120
4586550	NRG	Spiked Blank	Dissolved Chloride (Cl)	2016/07/22		101	%	80 - 120
4586550	NRG	Method Blank	Dissolved Chloride (Cl)	2016/07/22	<1.0		mg/L	
4586550	NRG	RPD - Sample/Sample Dup	Dissolved Chloride (Cl)	2016/07/22	2.2		%	25
4586555	NRG	Matrix Spike	Dissolved Sulphate (SO4)	2016/07/22		NC	%	80 - 120
4586555	NRG	Spiked Blank	Dissolved Sulphate (SO4)	2016/07/22		103	%	80 - 120
4586555	NRG	Method Blank	Dissolved Sulphate (SO4)	2016/07/22	<2.0		mg/L	
4586555	NRG	RPD - Sample/Sample Dup	Dissolved Sulphate (SO4)	2016/07/22	3.0		%	25
4586556	NRG	Matrix Spike	Reactive Silica (SiO2)	2016/07/21		NC	%	80 - 120
4586556	NRG	Spiked Blank	Reactive Silica (SiO2)	2016/07/21		99	%	80 - 120
4586556	NRG	Method Blank	Reactive Silica (SiO2)	2016/07/21	<0.50		mg/L	
4586556	NRG	RPD - Sample/Sample Dup	Reactive Silica (SiO2)	2016/07/21	0.47		%	25
4586557	NRG	Spiked Blank	Colour	2016/07/21		94	%	80 - 120
4586557	NRG	Method Blank	Colour	2016/07/21	<5.0		TCU	
4586557	NRG	RPD - Sample/Sample Dup	Colour	2016/07/21	NC		%	20
4586562	KBT	Matrix Spike	Orthophosphate (P)	2016/07/22		91	%	80 - 120
4586562	KBT	Spiked Blank	Orthophosphate (P)	2016/07/22		95	%	80 - 120
4586562	KBT	Method Blank	Orthophosphate (P)	2016/07/22	<0.010		mg/L	
4586562	KBT	RPD - Sample/Sample Dup	Orthophosphate (P)	2016/07/22	NC		%	25
4586563	NRG	Matrix Spike	Nitrate + Nitrite (N)	2016/07/22		98	%	80 - 120
4586563	NRG	Spiked Blank	Nitrate + Nitrite (N)	2016/07/22		99	%	80 - 120
4586563	NRG	Method Blank	Nitrate + Nitrite (N)	2016/07/22	<0.050		mg/L	
4586563	NRG	RPD - Sample/Sample Dup	Nitrate + Nitrite (N)	2016/07/22	NC		%	25
4586568	MCN	Matrix Spike	Nitrite (N)	2016/07/22		96	%	80 - 120
4586568	MCN	Spiked Blank	Nitrite (N)	2016/07/22		95	%	80 - 120
4586568	MCN	Method Blank	Nitrite (N)	2016/07/22	<0.010		mg/L	
4586568	MCN	RPD - Sample/Sample Dup	Nitrite (N)	2016/07/22	NC		%	25

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4587708	BAN	Matrix Spike	Total Aluminum (Al)	2016/07/21		104	%	80 - 120
			Total Antimony (Sb)	2016/07/21		100	%	80 - 120
			Total Arsenic (As)	2016/07/21		99	%	80 - 120
			Total Barium (Ba)	2016/07/21		NC	%	80 - 120
			Total Beryllium (Be)	2016/07/21		98	%	80 - 120
			Total Bismuth (Bi)	2016/07/21		101	%	80 - 120
			Total Boron (B)	2016/07/21		98	%	80 - 120
			Total Cadmium (Cd)	2016/07/21		100	%	80 - 120
			Total Calcium (Ca)	2016/07/21		NC	%	80 - 120
			Total Chromium (Cr)	2016/07/21		100	%	80 - 120
			Total Cobalt (Co)	2016/07/21		101	%	80 - 120
			Total Copper (Cu)	2016/07/21		101	%	80 - 120
			Total Iron (Fe)	2016/07/21		103	%	80 - 120
			Total Lead (Pb)	2016/07/21		100	%	80 - 120
			Total Magnesium (Mg)	2016/07/21		102	%	80 - 120
			Total Manganese (Mn)	2016/07/21		102	%	80 - 120
			Total Molybdenum (Mo)	2016/07/21		102	%	80 - 120
			Total Nickel (Ni)	2016/07/21		99	%	80 - 120
			Total Phosphorus (P)	2016/07/21		105	%	80 - 120
			Total Potassium (K)	2016/07/21		101	%	80 - 120
			Total Selenium (Se)	2016/07/21		98	%	80 - 120
			Total Silver (Ag)	2016/07/21		100	%	80 - 120
			Total Sodium (Na)	2016/07/21		99	%	80 - 120
			Total Strontium (Sr)	2016/07/21		NC	%	80 - 120
			Total Thallium (Tl)	2016/07/21		100	%	80 - 120
			Total Tin (Sn)	2016/07/21		104	%	80 - 120
			Total Titanium (Ti)	2016/07/21		103	%	80 - 120
			Total Uranium (U)	2016/07/21		104	%	80 - 120
			Total Vanadium (V)	2016/07/21		101	%	80 - 120
			Total Zinc (Zn)	2016/07/21		98	%	80 - 120
4587708	BAN	Spiked Blank	Total Aluminum (Al)	2016/07/21		105	%	80 - 120
			Total Antimony (Sb)	2016/07/21		101	%	80 - 120
			Total Arsenic (As)	2016/07/21		98	%	80 - 120
			Total Barium (Ba)	2016/07/21		99	%	80 - 120
			Total Beryllium (Be)	2016/07/21		96	%	80 - 120
			Total Bismuth (Bi)	2016/07/21		102	%	80 - 120
			Total Boron (B)	2016/07/21		96	%	80 - 120
			Total Cadmium (Cd)	2016/07/21		100	%	80 - 120
			Total Calcium (Ca)	2016/07/21		100	%	80 - 120
			Total Chromium (Cr)	2016/07/21		100	%	80 - 120
			Total Cobalt (Co)	2016/07/21		100	%	80 - 120
			Total Copper (Cu)	2016/07/21		101	%	80 - 120
			Total Iron (Fe)	2016/07/21		105	%	80 - 120
			Total Lead (Pb)	2016/07/21		100	%	80 - 120
			Total Magnesium (Mg)	2016/07/21		104	%	80 - 120
			Total Manganese (Mn)	2016/07/21		102	%	80 - 120
			Total Molybdenum (Mo)	2016/07/21		101	%	80 - 120
			Total Nickel (Ni)	2016/07/21		100	%	80 - 120
			Total Phosphorus (P)	2016/07/21		106	%	80 - 120
			Total Potassium (K)	2016/07/21		102	%	80 - 120
			Total Selenium (Se)	2016/07/21		96	%	80 - 120
			Total Silver (Ag)	2016/07/21		98	%	80 - 120

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4587708	BAN	Method Blank	Total Sodium (Na)	2016/07/21		100	%	80 - 120
			Total Strontium (Sr)	2016/07/21		101	%	80 - 120
			Total Thallium (Tl)	2016/07/21		102	%	80 - 120
			Total Tin (Sn)	2016/07/21		104	%	80 - 120
			Total Titanium (Ti)	2016/07/21		100	%	80 - 120
			Total Uranium (U)	2016/07/21		107	%	80 - 120
			Total Vanadium (V)	2016/07/21		101	%	80 - 120
			Total Zinc (Zn)	2016/07/21		99	%	80 - 120
			Total Aluminum (Al)	2016/07/21	<5.0		ug/L	
			Total Antimony (Sb)	2016/07/21	<1.0		ug/L	
			Total Arsenic (As)	2016/07/21	<1.0		ug/L	
			Total Barium (Ba)	2016/07/21	<1.0		ug/L	
			Total Beryllium (Be)	2016/07/21	<1.0		ug/L	
			Total Bismuth (Bi)	2016/07/21	<2.0		ug/L	
			Total Boron (B)	2016/07/21	<50		ug/L	
			Total Cadmium (Cd)	2016/07/21	<0.010		ug/L	
			Total Calcium (Ca)	2016/07/21	<100		ug/L	
			Total Chromium (Cr)	2016/07/21	<1.0		ug/L	
			Total Cobalt (Co)	2016/07/21	<0.40		ug/L	
			Total Copper (Cu)	2016/07/21	<2.0		ug/L	
			Total Iron (Fe)	2016/07/21	<50		ug/L	
			Total Lead (Pb)	2016/07/21	<0.50		ug/L	
			Total Magnesium (Mg)	2016/07/21	<100		ug/L	
			Total Manganese (Mn)	2016/07/21	<2.0		ug/L	
			Total Molybdenum (Mo)	2016/07/21	<2.0		ug/L	
			Total Nickel (Ni)	2016/07/21	<2.0		ug/L	
			Total Phosphorus (P)	2016/07/21	<100		ug/L	
			Total Potassium (K)	2016/07/21	<100		ug/L	
			Total Selenium (Se)	2016/07/21	<1.0		ug/L	
			Total Silver (Ag)	2016/07/21	<0.10		ug/L	
			Total Sodium (Na)	2016/07/21	<100		ug/L	
			Total Strontium (Sr)	2016/07/21	<2.0		ug/L	
			Total Thallium (Tl)	2016/07/21	<0.10		ug/L	
			Total Tin (Sn)	2016/07/21	<2.0		ug/L	
			Total Titanium (Ti)	2016/07/21	<2.0		ug/L	
			Total Uranium (U)	2016/07/21	<0.10		ug/L	
			Total Vanadium (V)	2016/07/21	<2.0		ug/L	
			Total Zinc (Zn)	2016/07/21	<5.0		ug/L	
4587708	BAN	RPD - Sample/Sample Dup	Total Aluminum (Al)	2016/07/21	NC		%	20
			Total Antimony (Sb)	2016/07/21	NC		%	20
			Total Arsenic (As)	2016/07/21	NC		%	20
			Total Barium (Ba)	2016/07/21	0.65		%	20
			Total Beryllium (Be)	2016/07/21	NC		%	20
			Total Bismuth (Bi)	2016/07/21	NC		%	20
			Total Boron (B)	2016/07/21	NC		%	20
			Total Cadmium (Cd)	2016/07/21	NC		%	20
			Total Calcium (Ca)	2016/07/21	0.22		%	20
			Total Chromium (Cr)	2016/07/21	NC		%	20
			Total Cobalt (Co)	2016/07/21	NC		%	20
			Total Copper (Cu)	2016/07/21	1.8		%	20
			Total Iron (Fe)	2016/07/21	NC		%	20
			Total Lead (Pb)	2016/07/21	NC		%	20



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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4587765	BAN	Matrix Spike	Total Magnesium (Mg)	2016/07/21	0.53		%	20
			Total Manganese (Mn)	2016/07/21	NC		%	20
			Total Molybdenum (Mo)	2016/07/21	NC		%	20
			Total Nickel (Ni)	2016/07/21	NC		%	20
			Total Phosphorus (P)	2016/07/21	NC		%	20
			Total Potassium (K)	2016/07/21	0.35		%	20
			Total Selenium (Se)	2016/07/21	NC		%	20
			Total Silver (Ag)	2016/07/21	NC		%	20
			Total Sodium (Na)	2016/07/21	1.9		%	20
			Total Strontium (Sr)	2016/07/21	0.24		%	20
			Total Thallium (Tl)	2016/07/21	NC		%	20
			Total Tin (Sn)	2016/07/21	NC		%	20
			Total Titanium (Ti)	2016/07/21	NC		%	20
			Total Uranium (U)	2016/07/21	2.1		%	20
			Total Vanadium (V)	2016/07/21	NC		%	20
			Total Zinc (Zn)	2016/07/21	NC		%	20
			Total Aluminum (Al)	2016/07/22		108	%	80 - 120
			Total Antimony (Sb)	2016/07/22		104	%	80 - 120
			Total Arsenic (As)	2016/07/22		99	%	80 - 120
			Total Barium (Ba)	2016/07/22		102	%	80 - 120
			Total Beryllium (Be)	2016/07/22		103	%	80 - 120
			Total Bismuth (Bi)	2016/07/22		103	%	80 - 120
			Total Boron (B)	2016/07/22		NC	%	80 - 120
			Total Cadmium (Cd)	2016/07/22		103	%	80 - 120
			Total Calcium (Ca)	2016/07/22		101	%	80 - 120
			Total Chromium (Cr)	2016/07/22		101	%	80 - 120
			Total Cobalt (Co)	2016/07/22		102	%	80 - 120
			Total Copper (Cu)	2016/07/22		NC	%	80 - 120
			Total Iron (Fe)	2016/07/22		102	%	80 - 120
			Total Lead (Pb)	2016/07/22		101	%	80 - 120
			Total Magnesium (Mg)	2016/07/22		104	%	80 - 120
			Total Manganese (Mn)	2016/07/22		103	%	80 - 120
			Total Molybdenum (Mo)	2016/07/22		106	%	80 - 120
			Total Nickel (Ni)	2016/07/22		102	%	80 - 120
			Total Phosphorus (P)	2016/07/22		103	%	80 - 120
			Total Potassium (K)	2016/07/22		105	%	80 - 120
			Total Selenium (Se)	2016/07/22		100	%	80 - 120
			Total Silver (Ag)	2016/07/22		102	%	80 - 120
			Total Sodium (Na)	2016/07/22		NC	%	80 - 120
			Total Strontium (Sr)	2016/07/22		102	%	80 - 120
			Total Thallium (Tl)	2016/07/22		102	%	80 - 120
			Total Tin (Sn)	2016/07/22		107	%	80 - 120
			Total Titanium (Ti)	2016/07/22		103	%	80 - 120
			Total Uranium (U)	2016/07/22		105	%	80 - 120
			Total Vanadium (V)	2016/07/22		101	%	80 - 120
			Total Zinc (Zn)	2016/07/22		NC	%	80 - 120
4587765	BAN	Spiked Blank	Total Aluminum (Al)	2016/07/22		109	%	80 - 120
			Total Antimony (Sb)	2016/07/22		102	%	80 - 120
			Total Arsenic (As)	2016/07/22		97	%	80 - 120
			Total Barium (Ba)	2016/07/22		98	%	80 - 120
			Total Beryllium (Be)	2016/07/22		98	%	80 - 120
			Total Bismuth (Bi)	2016/07/22		102	%	80 - 120

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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Total Boron (B)	2016/07/22		99	%	80 - 120
			Total Cadmium (Cd)	2016/07/22		102	%	80 - 120
			Total Calcium (Ca)	2016/07/22		100	%	80 - 120
			Total Chromium (Cr)	2016/07/22		100	%	80 - 120
			Total Cobalt (Co)	2016/07/22		102	%	80 - 120
			Total Copper (Cu)	2016/07/22		101	%	80 - 120
			Total Iron (Fe)	2016/07/22		104	%	80 - 120
			Total Lead (Pb)	2016/07/22		100	%	80 - 120
			Total Magnesium (Mg)	2016/07/22		105	%	80 - 120
			Total Manganese (Mn)	2016/07/22		102	%	80 - 120
			Total Molybdenum (Mo)	2016/07/22		102	%	80 - 120
			Total Nickel (Ni)	2016/07/22		102	%	80 - 120
			Total Phosphorus (P)	2016/07/22		99	%	80 - 120
			Total Potassium (K)	2016/07/22		99	%	80 - 120
			Total Selenium (Se)	2016/07/22		98	%	80 - 120
			Total Silver (Ag)	2016/07/22		102	%	80 - 120
			Total Sodium (Na)	2016/07/22		103	%	80 - 120
			Total Strontium (Sr)	2016/07/22		99	%	80 - 120
			Total Thallium (Tl)	2016/07/22		101	%	80 - 120
			Total Tin (Sn)	2016/07/22		104	%	80 - 120
			Total Titanium (Ti)	2016/07/22		102	%	80 - 120
			Total Uranium (U)	2016/07/22		103	%	80 - 120
			Total Vanadium (V)	2016/07/22		100	%	80 - 120
			Total Zinc (Zn)	2016/07/22		101	%	80 - 120
4587765	BAN	Method Blank	Total Aluminum (Al)	2016/07/22	5.5, RDL=5.0		ug/L	
			Total Antimony (Sb)	2016/07/22	<1.0		ug/L	
			Total Arsenic (As)	2016/07/22	<1.0		ug/L	
			Total Barium (Ba)	2016/07/22	<1.0		ug/L	
			Total Beryllium (Be)	2016/07/22	<1.0		ug/L	
			Total Bismuth (Bi)	2016/07/22	<2.0		ug/L	
			Total Boron (B)	2016/07/22	<50		ug/L	
			Total Cadmium (Cd)	2016/07/22	<0.010		ug/L	
			Total Calcium (Ca)	2016/07/22	<100		ug/L	
			Total Chromium (Cr)	2016/07/22	<1.0		ug/L	
			Total Cobalt (Co)	2016/07/22	<0.40		ug/L	
			Total Copper (Cu)	2016/07/22	<2.0		ug/L	
			Total Iron (Fe)	2016/07/22	<50		ug/L	
			Total Lead (Pb)	2016/07/22	<0.50		ug/L	
			Total Magnesium (Mg)	2016/07/22	<100		ug/L	
			Total Manganese (Mn)	2016/07/22	<2.0		ug/L	
			Total Molybdenum (Mo)	2016/07/22	<2.0		ug/L	
			Total Nickel (Ni)	2016/07/22	<2.0		ug/L	
			Total Phosphorus (P)	2016/07/22	<100		ug/L	
			Total Potassium (K)	2016/07/22	<100		ug/L	
			Total Selenium (Se)	2016/07/22	<1.0		ug/L	
			Total Silver (Ag)	2016/07/22	<0.10		ug/L	
			Total Sodium (Na)	2016/07/22	<100		ug/L	
			Total Strontium (Sr)	2016/07/22	<2.0		ug/L	
			Total Thallium (Tl)	2016/07/22	<0.10		ug/L	
			Total Tin (Sn)	2016/07/22	<2.0		ug/L	
			Total Titanium (Ti)	2016/07/22	<2.0		ug/L	

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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4587765	BAN	RPD - Sample/Sample Dup	Total Uranium (U)	2016/07/22	<0.10		ug/L	
			Total Vanadium (V)	2016/07/22	<2.0		ug/L	
			Total Zinc (Zn)	2016/07/22	<5.0		ug/L	
			Total Aluminum (Al)	2016/07/22	NC		%	20
			Total Antimony (Sb)	2016/07/22	NC		%	20
			Total Arsenic (As)	2016/07/22	NC		%	20
			Total Barium (Ba)	2016/07/22	0.57		%	20
			Total Beryllium (Be)	2016/07/22	NC		%	20
			Total Bismuth (Bi)	2016/07/22	NC		%	20
			Total Boron (B)	2016/07/22	1.4		%	20
			Total Cadmium (Cd)	2016/07/22	NC		%	20
			Total Calcium (Ca)	2016/07/22	0.90		%	20
			Total Chromium (Cr)	2016/07/22	NC		%	20
			Total Cobalt (Co)	2016/07/22	NC		%	20
			Total Copper (Cu)	2016/07/22	0.048		%	20
			Total Iron (Fe)	2016/07/22	NC		%	20
			Total Lead (Pb)	2016/07/22	NC		%	20
			Total Magnesium (Mg)	2016/07/22	0.87		%	20
			Total Manganese (Mn)	2016/07/22	NC		%	20
			Total Molybdenum (Mo)	2016/07/22	NC		%	20
			Total Nickel (Ni)	2016/07/22	NC		%	20
			Total Phosphorus (P)	2016/07/22	NC		%	20
			Total Potassium (K)	2016/07/22	6.6		%	20
			Total Selenium (Se)	2016/07/22	NC		%	20
			Total Silver (Ag)	2016/07/22	NC		%	20
			Total Sodium (Na)	2016/07/22	0.51		%	20
			Total Strontium (Sr)	2016/07/22	NC		%	20
			Total Thallium (Tl)	2016/07/22	NC		%	20
			Total Tin (Sn)	2016/07/22	NC		%	20
			Total Titanium (Ti)	2016/07/22	NC		%	20
			Total Uranium (U)	2016/07/22	NC		%	20
			Total Vanadium (V)	2016/07/22	NC		%	20
			Total Zinc (Zn)	2016/07/22	0.26		%	20
4587845	BAN	Matrix Spike	Dissolved Aluminum (Al)	2016/07/21		107	%	80 - 120
			Dissolved Antimony (Sb)	2016/07/21		104	%	80 - 120
			Dissolved Arsenic (As)	2016/07/21		101	%	80 - 120
			Dissolved Barium (Ba)	2016/07/21		103	%	80 - 120
			Dissolved Beryllium (Be)	2016/07/21		102	%	80 - 120
			Dissolved Bismuth (Bi)	2016/07/21		105	%	80 - 120
			Dissolved Boron (B)	2016/07/21		100	%	80 - 120
			Dissolved Cadmium (Cd)	2016/07/21		103	%	80 - 120
			Dissolved Calcium (Ca)	2016/07/21		104	%	80 - 120
			Dissolved Chromium (Cr)	2016/07/21		102	%	80 - 120
			Dissolved Cobalt (Co)	2016/07/21		102	%	80 - 120
			Dissolved Copper (Cu)	2016/07/21		103	%	80 - 120
			Dissolved Iron (Fe)	2016/07/21		105	%	80 - 120
			Dissolved Lead (Pb)	2016/07/21		104	%	80 - 120
			Dissolved Magnesium (Mg)	2016/07/21		106	%	80 - 120
			Dissolved Manganese (Mn)	2016/07/21		103	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/07/21		105	%	80 - 120
			Dissolved Nickel (Ni)	2016/07/21		104	%	80 - 120
			Dissolved Phosphorus (P)	2016/07/21		108	%	80 - 120



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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4587845	BAN	Spiked Blank		Dissolved Potassium (K)	2016/07/21		103	%	80 - 120
				Dissolved Selenium (Se)	2016/07/21		103	%	80 - 120
				Dissolved Silver (Ag)	2016/07/21		103	%	80 - 120
				Dissolved Sodium (Na)	2016/07/21		NC	%	80 - 120
				Dissolved Strontium (Sr)	2016/07/21		NC	%	80 - 120
				Dissolved Thallium (Tl)	2016/07/21		104	%	80 - 120
				Dissolved Tin (Sn)	2016/07/21		107	%	80 - 120
				Dissolved Titanium (Ti)	2016/07/21		103	%	80 - 120
				Dissolved Uranium (U)	2016/07/21		107	%	80 - 120
				Dissolved Vanadium (V)	2016/07/21		104	%	80 - 120
				Dissolved Zinc (Zn)	2016/07/21		102	%	80 - 120
				Dissolved Aluminum (Al)	2016/07/21		106	%	80 - 120
				Dissolved Antimony (Sb)	2016/07/21		99	%	80 - 120
				Dissolved Arsenic (As)	2016/07/21		100	%	80 - 120
				Dissolved Barium (Ba)	2016/07/21		101	%	80 - 120
				Dissolved Beryllium (Be)	2016/07/21		103	%	80 - 120
				Dissolved Bismuth (Bi)	2016/07/21		103	%	80 - 120
				Dissolved Boron (B)	2016/07/21		102	%	80 - 120
				Dissolved Cadmium (Cd)	2016/07/21		102	%	80 - 120
				Dissolved Calcium (Ca)	2016/07/21		103	%	80 - 120
				Dissolved Chromium (Cr)	2016/07/21		101	%	80 - 120
				Dissolved Cobalt (Co)	2016/07/21		103	%	80 - 120
				Dissolved Copper (Cu)	2016/07/21		105	%	80 - 120
				Dissolved Iron (Fe)	2016/07/21		105	%	80 - 120
				Dissolved Lead (Pb)	2016/07/21		102	%	80 - 120
				Dissolved Magnesium (Mg)	2016/07/21		106	%	80 - 120
				Dissolved Manganese (Mn)	2016/07/21		103	%	80 - 120
				Dissolved Molybdenum (Mo)	2016/07/21		103	%	80 - 120
				Dissolved Nickel (Ni)	2016/07/21		103	%	80 - 120
				Dissolved Phosphorus (P)	2016/07/21		107	%	80 - 120
				Dissolved Potassium (K)	2016/07/21		103	%	80 - 120
				Dissolved Selenium (Se)	2016/07/21		102	%	80 - 120
				Dissolved Silver (Ag)	2016/07/21		102	%	80 - 120
				Dissolved Sodium (Na)	2016/07/21		102	%	80 - 120
				Dissolved Strontium (Sr)	2016/07/21		102	%	80 - 120
				Dissolved Thallium (Tl)	2016/07/21		103	%	80 - 120
				Dissolved Tin (Sn)	2016/07/21		105	%	80 - 120
				Dissolved Titanium (Ti)	2016/07/21		104	%	80 - 120
				Dissolved Uranium (U)	2016/07/21		106	%	80 - 120
				Dissolved Vanadium (V)	2016/07/21		102	%	80 - 120
				Dissolved Zinc (Zn)	2016/07/21		103	%	80 - 120
4587845	BAN	Method Blank		Dissolved Aluminum (Al)	2016/07/21	<5.0		ug/L	
				Dissolved Antimony (Sb)	2016/07/21	<1.0		ug/L	
				Dissolved Arsenic (As)	2016/07/21	<1.0		ug/L	
				Dissolved Barium (Ba)	2016/07/21	<1.0		ug/L	
				Dissolved Beryllium (Be)	2016/07/21	<1.0		ug/L	
				Dissolved Bismuth (Bi)	2016/07/21	<2.0		ug/L	
				Dissolved Boron (B)	2016/07/21	<50		ug/L	
				Dissolved Cadmium (Cd)	2016/07/21	<0.010		ug/L	
				Dissolved Calcium (Ca)	2016/07/21	<100		ug/L	
				Dissolved Chromium (Cr)	2016/07/21	<1.0		ug/L	
				Dissolved Cobalt (Co)	2016/07/21	<0.40		ug/L	

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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Dissolved Copper (Cu)	2016/07/21	<2.0		ug/L	
			Dissolved Iron (Fe)	2016/07/21	<50		ug/L	
			Dissolved Lead (Pb)	2016/07/21	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2016/07/21	<100		ug/L	
			Dissolved Manganese (Mn)	2016/07/21	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2016/07/21	<2.0		ug/L	
			Dissolved Nickel (Ni)	2016/07/21	<2.0		ug/L	
			Dissolved Phosphorus (P)	2016/07/21	<100		ug/L	
			Dissolved Potassium (K)	2016/07/21	<100		ug/L	
			Dissolved Selenium (Se)	2016/07/21	<1.0		ug/L	
			Dissolved Silver (Ag)	2016/07/21	<0.10		ug/L	
			Dissolved Sodium (Na)	2016/07/21	<100		ug/L	
			Dissolved Strontium (Sr)	2016/07/21	<2.0		ug/L	
			Dissolved Thallium (Tl)	2016/07/21	<0.10		ug/L	
			Dissolved Tin (Sn)	2016/07/21	<2.0		ug/L	
			Dissolved Titanium (Ti)	2016/07/21	<2.0		ug/L	
			Dissolved Uranium (U)	2016/07/21	<0.10		ug/L	
			Dissolved Vanadium (V)	2016/07/21	<2.0		ug/L	
			Dissolved Zinc (Zn)	2016/07/21	<5.0		ug/L	
4587845	BAN	RPD - Sample/Sample Dup	Dissolved Aluminum (Al)	2016/07/21	NC		%	20
			Dissolved Antimony (Sb)	2016/07/21	NC		%	20
			Dissolved Arsenic (As)	2016/07/21	NC		%	20
			Dissolved Barium (Ba)	2016/07/21	NC		%	20
			Dissolved Beryllium (Be)	2016/07/21	NC		%	20
			Dissolved Bismuth (Bi)	2016/07/21	NC		%	20
			Dissolved Boron (B)	2016/07/21	NC		%	20
			Dissolved Cadmium (Cd)	2016/07/21	NC		%	20
			Dissolved Calcium (Ca)	2016/07/21	0.75		%	20
			Dissolved Chromium (Cr)	2016/07/21	NC		%	20
			Dissolved Cobalt (Co)	2016/07/21	NC		%	20
			Dissolved Copper (Cu)	2016/07/21	NC		%	20
			Dissolved Iron (Fe)	2016/07/21	NC		%	20
			Dissolved Lead (Pb)	2016/07/21	NC		%	20
			Dissolved Magnesium (Mg)	2016/07/21	0.68		%	20
			Dissolved Manganese (Mn)	2016/07/21	NC		%	20
			Dissolved Molybdenum (Mo)	2016/07/21	NC		%	20
			Dissolved Nickel (Ni)	2016/07/21	NC		%	20
			Dissolved Phosphorus (P)	2016/07/21	NC		%	20
			Dissolved Potassium (K)	2016/07/21	2.7		%	20
			Dissolved Selenium (Se)	2016/07/21	NC		%	20
			Dissolved Silver (Ag)	2016/07/21	NC		%	20
			Dissolved Sodium (Na)	2016/07/21	1.3		%	20
			Dissolved Strontium (Sr)	2016/07/21	3.0		%	20
			Dissolved Thallium (Tl)	2016/07/21	NC		%	20
			Dissolved Tin (Sn)	2016/07/21	NC		%	20
			Dissolved Titanium (Ti)	2016/07/21	NC		%	20
			Dissolved Uranium (U)	2016/07/21	0.67		%	20
			Dissolved Vanadium (V)	2016/07/21	NC		%	20
			Dissolved Zinc (Zn)	2016/07/21	NC		%	20
4587848	BAN	Matrix Spike	Dissolved Aluminum (Al)	2016/07/22		108	%	80 - 120
			Dissolved Antimony (Sb)	2016/07/22		106	%	80 - 120
			Dissolved Arsenic (As)	2016/07/22		102	%	80 - 120

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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4587848	BAN	Spiked Blank	Dissolved Barium (Ba)	2016/07/22		102	%	80 - 120
			Dissolved Beryllium (Be)	2016/07/22		98	%	80 - 120
			Dissolved Bismuth (Bi)	2016/07/22		103	%	80 - 120
			Dissolved Boron (B)	2016/07/22		97	%	80 - 120
			Dissolved Cadmium (Cd)	2016/07/22		103	%	80 - 120
			Dissolved Calcium (Ca)	2016/07/22		NC	%	80 - 120
			Dissolved Chromium (Cr)	2016/07/22		100	%	80 - 120
			Dissolved Cobalt (Co)	2016/07/22		101	%	80 - 120
			Dissolved Copper (Cu)	2016/07/22		101	%	80 - 120
			Dissolved Iron (Fe)	2016/07/22		104	%	80 - 120
			Dissolved Lead (Pb)	2016/07/22		104	%	80 - 120
			Dissolved Magnesium (Mg)	2016/07/22		105	%	80 - 120
			Dissolved Manganese (Mn)	2016/07/22		NC	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/07/22		105	%	80 - 120
			Dissolved Nickel (Ni)	2016/07/22		100	%	80 - 120
			Dissolved Phosphorus (P)	2016/07/22		110	%	80 - 120
			Dissolved Potassium (K)	2016/07/22		103	%	80 - 120
			Dissolved Selenium (Se)	2016/07/22		102	%	80 - 120
			Dissolved Silver (Ag)	2016/07/22		84	%	80 - 120
			Dissolved Sodium (Na)	2016/07/22		NC	%	80 - 120
			Dissolved Strontium (Sr)	2016/07/22		NC	%	80 - 120
			Dissolved Thallium (Tl)	2016/07/22		104	%	80 - 120
			Dissolved Tin (Sn)	2016/07/22		108	%	80 - 120
			Dissolved Titanium (Ti)	2016/07/22		101	%	80 - 120
			Dissolved Uranium (U)	2016/07/22		110	%	80 - 120
			Dissolved Vanadium (V)	2016/07/22		102	%	80 - 120
			Dissolved Zinc (Zn)	2016/07/22		101	%	80 - 120
			Dissolved Aluminum (Al)	2016/07/22		109	%	80 - 120
			Dissolved Antimony (Sb)	2016/07/22		106	%	80 - 120
			Dissolved Arsenic (As)	2016/07/22		100	%	80 - 120
			Dissolved Barium (Ba)	2016/07/22		103	%	80 - 120
			Dissolved Beryllium (Be)	2016/07/22		96	%	80 - 120
			Dissolved Bismuth (Bi)	2016/07/22		106	%	80 - 120
			Dissolved Boron (B)	2016/07/22		95	%	80 - 120
			Dissolved Cadmium (Cd)	2016/07/22		103	%	80 - 120
			Dissolved Calcium (Ca)	2016/07/22		105	%	80 - 120
			Dissolved Chromium (Cr)	2016/07/22		101	%	80 - 120
			Dissolved Cobalt (Co)	2016/07/22		100	%	80 - 120
			Dissolved Copper (Cu)	2016/07/22		102	%	80 - 120
			Dissolved Iron (Fe)	2016/07/22		104	%	80 - 120
			Dissolved Lead (Pb)	2016/07/22		105	%	80 - 120
			Dissolved Magnesium (Mg)	2016/07/22		104	%	80 - 120
			Dissolved Manganese (Mn)	2016/07/22		102	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/07/22		100	%	80 - 120
			Dissolved Nickel (Ni)	2016/07/22		100	%	80 - 120
			Dissolved Phosphorus (P)	2016/07/22		108	%	80 - 120
			Dissolved Potassium (K)	2016/07/22		104	%	80 - 120
			Dissolved Selenium (Se)	2016/07/22		101	%	80 - 120
			Dissolved Silver (Ag)	2016/07/22		102	%	80 - 120
			Dissolved Sodium (Na)	2016/07/22		102	%	80 - 120
			Dissolved Strontium (Sr)	2016/07/22		104	%	80 - 120
			Dissolved Thallium (Tl)	2016/07/22		105	%	80 - 120

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Englobe Corp.  
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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4587848	BAN	Method Blank	Dissolved Tin (Sn)	2016/07/22		107	%	80 - 120
			Dissolved Titanium (Ti)	2016/07/22		104	%	80 - 120
			Dissolved Uranium (U)	2016/07/22		109	%	80 - 120
			Dissolved Vanadium (V)	2016/07/22		103	%	80 - 120
			Dissolved Zinc (Zn)	2016/07/22		101	%	80 - 120
			Dissolved Aluminum (Al)	2016/07/22	<5.0		ug/L	
			Dissolved Antimony (Sb)	2016/07/22	<1.0		ug/L	
			Dissolved Arsenic (As)	2016/07/22	<1.0		ug/L	
			Dissolved Barium (Ba)	2016/07/22	<1.0		ug/L	
			Dissolved Beryllium (Be)	2016/07/22	<1.0		ug/L	
			Dissolved Bismuth (Bi)	2016/07/22	<2.0		ug/L	
			Dissolved Boron (B)	2016/07/22	<50		ug/L	
			Dissolved Cadmium (Cd)	2016/07/22	<0.010		ug/L	
			Dissolved Calcium (Ca)	2016/07/22	<100		ug/L	
			Dissolved Chromium (Cr)	2016/07/22	<1.0		ug/L	
			Dissolved Cobalt (Co)	2016/07/22	<0.40		ug/L	
			Dissolved Copper (Cu)	2016/07/22	<2.0		ug/L	
			Dissolved Iron (Fe)	2016/07/22	<50		ug/L	
			Dissolved Lead (Pb)	2016/07/22	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2016/07/22	<100		ug/L	
			Dissolved Manganese (Mn)	2016/07/22	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2016/07/22	<2.0		ug/L	
			Dissolved Nickel (Ni)	2016/07/22	<2.0		ug/L	
			Dissolved Phosphorus (P)	2016/07/22	<100		ug/L	
			Dissolved Potassium (K)	2016/07/22	<100		ug/L	
			Dissolved Selenium (Se)	2016/07/22	<1.0		ug/L	
			Dissolved Silver (Ag)	2016/07/22	<0.10		ug/L	
			Dissolved Sodium (Na)	2016/07/22	<100		ug/L	
			Dissolved Strontium (Sr)	2016/07/22	<2.0		ug/L	
			Dissolved Thallium (Tl)	2016/07/22	<0.10		ug/L	
			Dissolved Tin (Sn)	2016/07/22	<2.0		ug/L	
			Dissolved Titanium (Ti)	2016/07/22	<2.0		ug/L	
			Dissolved Uranium (U)	2016/07/22	<0.10		ug/L	
			Dissolved Vanadium (V)	2016/07/22	<2.0		ug/L	
			Dissolved Zinc (Zn)	2016/07/22	<5.0		ug/L	
4587848	BAN	RPD - Sample/Sample Dup	Dissolved Aluminum (Al)	2016/07/22	0.22		%	20
			Dissolved Antimony (Sb)	2016/07/22	NC		%	20
			Dissolved Arsenic (As)	2016/07/22	NC		%	20
			Dissolved Barium (Ba)	2016/07/22	0.27		%	20
			Dissolved Beryllium (Be)	2016/07/22	NC		%	20
			Dissolved Boron (B)	2016/07/22	NC		%	20
			Dissolved Cadmium (Cd)	2016/07/22	0.15		%	20
			Dissolved Chromium (Cr)	2016/07/22	NC		%	20
			Dissolved Cobalt (Co)	2016/07/22	NC		%	20
			Dissolved Copper (Cu)	2016/07/22	NC		%	20
			Dissolved Iron (Fe)	2016/07/22	0.17		%	20
			Dissolved Lead (Pb)	2016/07/22	NC		%	20
			Dissolved Manganese (Mn)	2016/07/22	0.16		%	20
			Dissolved Molybdenum (Mo)	2016/07/22	NC		%	20
			Dissolved Nickel (Ni)	2016/07/22	NC		%	20
			Dissolved Selenium (Se)	2016/07/22	NC		%	20
			Dissolved Silver (Ag)	2016/07/22	NC		%	20

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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Dissolved Strontium (Sr)	2016/07/22	1.0		%	20
			Dissolved Thallium (Tl)	2016/07/22	NC		%	20
			Dissolved Tin (Sn)	2016/07/22	NC		%	20
			Dissolved Uranium (U)	2016/07/22	NC		%	20
			Dissolved Vanadium (V)	2016/07/22	NC		%	20
			Dissolved Zinc (Zn)	2016/07/22	NC		%	20
4587902	NRG	Matrix Spike(CSR326)	Nitrogen (Ammonia Nitrogen)	2016/07/21		102	%	80 - 120
4587902	NRG	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2016/07/22		108	%	80 - 120
4587902	NRG	Method Blank	Nitrogen (Ammonia Nitrogen)	2016/07/22	<0.050		mg/L	
4587902	NRG	RPD - Sample/Sample Dup	Nitrogen (Ammonia Nitrogen)	2016/07/21	NC		%	20
4587911	NRG	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2016/07/22		103	%	80 - 120
4587911	NRG	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2016/07/21		105	%	80 - 120
4587911	NRG	Method Blank	Nitrogen (Ammonia Nitrogen)	2016/07/21	<0.050		mg/L	
4587911	NRG	RPD - Sample/Sample Dup	Nitrogen (Ammonia Nitrogen)	2016/07/22	NC		%	20
4588194	ARS	Matrix Spike	Total Mercury (Hg)	2016/07/22		101	%	80 - 120
4588194	ARS	Spiked Blank	Total Mercury (Hg)	2016/07/22		103	%	80 - 120
4588194	ARS	Method Blank	Total Mercury (Hg)	2016/07/22	<0.013		ug/L	
4588194	ARS	RPD - Sample/Sample Dup	Total Mercury (Hg)	2016/07/22	NC		%	20
4589406	BAN	Matrix Spike	Dissolved Aluminum (Al)	2016/07/22		104	%	80 - 120
			Dissolved Antimony (Sb)	2016/07/22		96	%	80 - 120
			Dissolved Arsenic (As)	2016/07/22		101	%	80 - 120
			Dissolved Barium (Ba)	2016/07/22		104	%	80 - 120
			Dissolved Beryllium (Be)	2016/07/22		110	%	80 - 120
			Dissolved Bismuth (Bi)	2016/07/22		102	%	80 - 120
			Dissolved Boron (B)	2016/07/22		106	%	80 - 120
			Dissolved Cadmium (Cd)	2016/07/22		103	%	80 - 120
			Dissolved Calcium (Ca)	2016/07/22		101	%	80 - 120
			Dissolved Chromium (Cr)	2016/07/22		103	%	80 - 120
			Dissolved Cobalt (Co)	2016/07/22		105	%	80 - 120
			Dissolved Copper (Cu)	2016/07/22		105	%	80 - 120
			Dissolved Iron (Fe)	2016/07/22		103	%	80 - 120
			Dissolved Lead (Pb)	2016/07/22		103	%	80 - 120
			Dissolved Magnesium (Mg)	2016/07/22		103	%	80 - 120
			Dissolved Manganese (Mn)	2016/07/22		103	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/07/22		104	%	80 - 120
			Dissolved Nickel (Ni)	2016/07/22		103	%	80 - 120
			Dissolved Phosphorus (P)	2016/07/22		105	%	80 - 120
			Dissolved Potassium (K)	2016/07/22		104	%	80 - 120
			Dissolved Selenium (Se)	2016/07/22		104	%	80 - 120
			Dissolved Silver (Ag)	2016/07/22		94	%	80 - 120
			Dissolved Sodium (Na)	2016/07/22		102	%	80 - 120
			Dissolved Strontium (Sr)	2016/07/22		101	%	80 - 120
			Dissolved Thallium (Tl)	2016/07/22		103	%	80 - 120
			Dissolved Tin (Sn)	2016/07/22		100	%	80 - 120
			Dissolved Titanium (Ti)	2016/07/22		106	%	80 - 120
			Dissolved Uranium (U)	2016/07/22		105	%	80 - 120
			Dissolved Vanadium (V)	2016/07/22		106	%	80 - 120
			Dissolved Zinc (Zn)	2016/07/22		102	%	80 - 120
4589406	BAN	Spiked Blank	Dissolved Aluminum (Al)	2016/07/22		106	%	80 - 120
			Dissolved Antimony (Sb)	2016/07/22		97	%	80 - 120
			Dissolved Arsenic (As)	2016/07/22		101	%	80 - 120
			Dissolved Barium (Ba)	2016/07/22		103	%	80 - 120



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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4589406	BAN	Method Blank	Dissolved Beryllium (Be)	2016/07/22		107	%	80 - 120
			Dissolved Bismuth (Bi)	2016/07/22		103	%	80 - 120
			Dissolved Boron (B)	2016/07/22		103	%	80 - 120
			Dissolved Cadmium (Cd)	2016/07/22		103	%	80 - 120
			Dissolved Calcium (Ca)	2016/07/22		102	%	80 - 120
			Dissolved Chromium (Cr)	2016/07/22		103	%	80 - 120
			Dissolved Cobalt (Co)	2016/07/22		105	%	80 - 120
			Dissolved Copper (Cu)	2016/07/22		104	%	80 - 120
			Dissolved Iron (Fe)	2016/07/22		104	%	80 - 120
			Dissolved Lead (Pb)	2016/07/22		103	%	80 - 120
			Dissolved Magnesium (Mg)	2016/07/22		103	%	80 - 120
			Dissolved Manganese (Mn)	2016/07/22		104	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/07/22		102	%	80 - 120
			Dissolved Nickel (Ni)	2016/07/22		103	%	80 - 120
			Dissolved Phosphorus (P)	2016/07/22		107	%	80 - 120
			Dissolved Potassium (K)	2016/07/22		104	%	80 - 120
			Dissolved Selenium (Se)	2016/07/22		102	%	80 - 120
			Dissolved Silver (Ag)	2016/07/22		99	%	80 - 120
			Dissolved Sodium (Na)	2016/07/22		103	%	80 - 120
			Dissolved Strontium (Sr)	2016/07/22		102	%	80 - 120
			Dissolved Thallium (Tl)	2016/07/22		103	%	80 - 120
			Dissolved Tin (Sn)	2016/07/22		102	%	80 - 120
			Dissolved Titanium (Ti)	2016/07/22		104	%	80 - 120
			Dissolved Uranium (U)	2016/07/22		106	%	80 - 120
			Dissolved Vanadium (V)	2016/07/22		106	%	80 - 120
			Dissolved Zinc (Zn)	2016/07/22		103	%	80 - 120
			Dissolved Aluminum (Al)	2016/07/22	<5.0		ug/L	
			Dissolved Antimony (Sb)	2016/07/22	<1.0		ug/L	
			Dissolved Arsenic (As)	2016/07/22	<1.0		ug/L	
			Dissolved Barium (Ba)	2016/07/22	<1.0		ug/L	
			Dissolved Beryllium (Be)	2016/07/22	<1.0		ug/L	
			Dissolved Bismuth (Bi)	2016/07/22	<2.0		ug/L	
			Dissolved Boron (B)	2016/07/22	<50		ug/L	
			Dissolved Cadmium (Cd)	2016/07/22	<0.010		ug/L	
			Dissolved Calcium (Ca)	2016/07/22	<100		ug/L	
			Dissolved Chromium (Cr)	2016/07/22	<1.0		ug/L	
			Dissolved Cobalt (Co)	2016/07/22	<0.40		ug/L	
			Dissolved Copper (Cu)	2016/07/22	<2.0		ug/L	
			Dissolved Iron (Fe)	2016/07/22	<50		ug/L	
			Dissolved Lead (Pb)	2016/07/22	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2016/07/22	<100		ug/L	
			Dissolved Manganese (Mn)	2016/07/22	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2016/07/22	<2.0		ug/L	
			Dissolved Nickel (Ni)	2016/07/22	<2.0		ug/L	
			Dissolved Phosphorus (P)	2016/07/22	<100		ug/L	
			Dissolved Potassium (K)	2016/07/22	<100		ug/L	
			Dissolved Selenium (Se)	2016/07/22	<1.0		ug/L	
			Dissolved Silver (Ag)	2016/07/22	<0.10		ug/L	
			Dissolved Sodium (Na)	2016/07/22	<100		ug/L	
			Dissolved Strontium (Sr)	2016/07/22	<2.0		ug/L	
			Dissolved Thallium (Tl)	2016/07/22	<0.10		ug/L	
			Dissolved Tin (Sn)	2016/07/22	<2.0		ug/L	

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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4589406	BAN	RPD - Sample/Sample Dup	Dissolved Titanium (Ti)	2016/07/22	<2.0		ug/L	
			Dissolved Uranium (U)	2016/07/22	<0.10		ug/L	
			Dissolved Vanadium (V)	2016/07/22	<2.0		ug/L	
			Dissolved Zinc (Zn)	2016/07/22	<5.0		ug/L	
			Dissolved Aluminum (Al)	2016/07/22	NC		%	20
			Dissolved Antimony (Sb)	2016/07/22	NC		%	20
			Dissolved Arsenic (As)	2016/07/22	NC		%	20
			Dissolved Barium (Ba)	2016/07/22	NC		%	20
			Dissolved Beryllium (Be)	2016/07/22	NC		%	20
			Dissolved Bismuth (Bi)	2016/07/22	NC		%	20
			Dissolved Boron (B)	2016/07/22	NC		%	20
			Dissolved Cadmium (Cd)	2016/07/22	NC		%	20
			Dissolved Calcium (Ca)	2016/07/22	NC		%	20
			Dissolved Chromium (Cr)	2016/07/22	NC		%	20
			Dissolved Cobalt (Co)	2016/07/22	NC		%	20
			Dissolved Copper (Cu)	2016/07/22	NC		%	20
			Dissolved Iron (Fe)	2016/07/22	NC		%	20
			Dissolved Lead (Pb)	2016/07/22	NC		%	20
			Dissolved Magnesium (Mg)	2016/07/22	NC		%	20
			Dissolved Manganese (Mn)	2016/07/22	NC		%	20
			Dissolved Molybdenum (Mo)	2016/07/22	NC		%	20
			Dissolved Nickel (Ni)	2016/07/22	NC		%	20
			Dissolved Phosphorus (P)	2016/07/22	NC		%	20
			Dissolved Potassium (K)	2016/07/22	NC		%	20
			Dissolved Selenium (Se)	2016/07/22	NC		%	20
			Dissolved Silver (Ag)	2016/07/22	NC		%	20
			Dissolved Sodium (Na)	2016/07/22	NC		%	20
			Dissolved Strontium (Sr)	2016/07/22	NC		%	20
			Dissolved Thallium (Tl)	2016/07/22	NC		%	20
			Dissolved Tin (Sn)	2016/07/22	NC		%	20
			Dissolved Titanium (Ti)	2016/07/22	NC		%	20
			Dissolved Uranium (U)	2016/07/22	NC		%	20
			Dissolved Vanadium (V)	2016/07/22	NC		%	20
			Dissolved Zinc (Zn)	2016/07/22	NC		%	20
4589410	JMV	QC Standard	pH	2016/07/22		100	%	97 - 103
4589410	JMV	RPD - Sample/Sample Dup	pH	2016/07/22	0.70		%	N/A
4589411	JMV	Spiked Blank	Conductivity	2016/07/22		100	%	80 - 120
4589411	JMV	Method Blank	Conductivity	2016/07/22	1.1, RDL=1.0		uS/cm	
4589411	JMV	RPD - Sample/Sample Dup	Conductivity	2016/07/22	0.66		%	25
4589412	JMV	QC Standard	pH	2016/07/22		100	%	97 - 103
4589412	JMV	RPD - Sample/Sample Dup	pH	2016/07/22	1.1		%	N/A
4589413	JMV	Spiked Blank	Conductivity	2016/07/22		100	%	80 - 120
4589413	JMV	Method Blank	Conductivity	2016/07/22	1.1, RDL=1.0		uS/cm	
4589413	JMV	RPD - Sample/Sample Dup	Conductivity	2016/07/22	0.60		%	25
4589508	JMV	QC Standard	Turbidity	2016/07/22		97	%	80 - 120
4589508	JMV	Spiked Blank	Turbidity	2016/07/22		98	%	80 - 120
4589508	JMV	Method Blank	Turbidity	2016/07/22	<0.10		NTU	
4589508	JMV	RPD - Sample/Sample Dup	Turbidity	2016/07/22	2.4		%	20
4589515	JMV	QC Standard	Turbidity	2016/07/22		98	%	80 - 120
4589515	JMV	Spiked Blank	Turbidity	2016/07/22		98	%	80 - 120



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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4589515	JMV	Method Blank	Turbidity	2016/07/22	<0.10		NTU	
4589515	JMV	RPD - Sample/Sample Dup	Turbidity	2016/07/22	3.4		%	20

N/A = Not Applicable

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

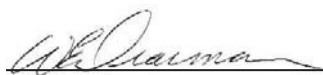
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

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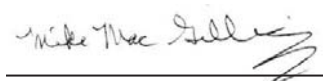
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### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).




Eric Dearman, Scientific Specialist



Mike MacGillivray, Scientific Specialist (Inorganics)

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Maxxam Analyticals International Corporation c/o Maxxam Analyticals  
200 Bluewater Road, Bedford, Nova Scotia Canada B4B 1G9 Tel: (902) 420-0203 Toll-free 800-563-6266 Fax: (902) 420-3812 www.maxxam.ca

**Chain of Custody Record**

Page 1 of 3

**INVOICE TO:**

Company Name: #41009 Englobe Corp.  
Contact Name: Accounts Payable  
Address: 97 Troop Ave  
Dartmouth NS B3B 2A7  
Phone: (902) 468-6486  
Email: Dartmouth.AP@englobecorp.com

Company Name: Aven Cole/Lisa L.  
Contact Name: Aven Cole/Lisa L.  
Address: (902) 468-6486  
Phone: (902) 468-6486  
Email: Aven.Cole@englobecorp.com

**Report Information**

Company Name: Aven Cole/Lisa L.  
Contact Name: Aven Cole/Lisa L.  
Address: (902) 468-6486  
Phone: (902) 468-6486  
Email: Aven.Cole@englobecorp.com

**Project Information**

Duration #: B63657  
P.O. #: P-0010903  
Project Name: LAKE GEORGE  
Site #: H  
Sampled By: H

**Laboratory Use Only**

Maxxam Job #: B6E7556  
Bottle Order #: 365031  
Chain of Custody Record  
Project Manager: AVERY WITHROW  
Avery Withrow  
CH56981-01-01

**Regulatory Criteria**

Specify Matrix, Surface Ground/Tissue/Sediment/Sludge/Sewerage  
Potable/Nonpotable/Tissue/Soil/Topsoil/Metal

Regulatory Criteria: ☐

**Special Instructions**

ANALYSIS REQUESTED (PLEASE BE SPECIFIC):

Turnaround Time (TAT) Required: ☐

Regular (Standard) TAT: ☒  
(will be applied if Rush TAT is not specified)  
Standard TAT = 5-7 Working days for most tests.  
Please note: Standard TAT for certain tests such as BOD and Dissolved Solids are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)  
Date Required: ☐

Comments / Hazards / Other Required Analysis

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)				Lab Filtration Required	RCAP-MS Total Metals in Water	Mercury - Total (CVAA, LL)	Total Suspended Solids	Dissolved Metals (as rec'd)	# of Bottles	Comments / Hazards / Other Required Analysis
					Field Filtration Required	Lab Filtration Required	RCAP-MS Total Metals in Water	Mercury - Total (CVAA, LL)							
1	SW13	7/14/16	10h00	SW					X	X	X	X	X	4	SW13
2	SW2	7/14/16	11h00	SW				X	X	X	X	X	X	6	
3	SW-P3	7/14/16	11h55	SW					X	X	X	X	X	4	P3
4	SW-DUP1	7/14/16	—	SW					X	X	X	X	X	4	SW-DUP1
5	SW5	7/14/16	15h50	SW					X	X	X	X	X	4	
6	SW-BACK2	7/14/16	17h30	SW				X	X	X	X	X	X	6	BACK2
7	SW7	7/14/16	10h35	SW					X	X	X	X	X	4	
8	SW-DUP2	7/14/16	—	SW					X	X	X	X	X	6	SW-DUP2
9	SW9	7/14/16	11h40	SW					X	X	X	X	X	4	
10									X	X	X	X	X		

RECEIVED BY: (Signature/Print) S. Rogers

Date: (YYMMDD) 7/14/16

Time 11:58

Lab Use Only

Temperature (°C) on Receipt: 4, 8, 8

Custody Seal Intact on Cooler? ☐ Yes ☒ No

White - Maxxam Yellow - Client

2815 JUL 15 11:58

\* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

Maxxam Analyticals International Corporation c/o Maxxam Analyticals

200 Bluewater Road, Suite 105, Redland, Nova Scotia B4B 1G9 Tel: 902-420-0203 Fax: 902-420-3612 Toll Free: 1-800-585-7227  
48 Elizabeth Avenue, St John's, NL A1A 1W8 Tel: 709-754-0203 Fax: 709-754-9612 Toll Free: 1-888-492-7227  
485 George Street, Sydney, NS B1P 1K5 Tel: 902-567-1255 Fax: 902-539-5504 Toll Free: 1-888-535-7770  
www.maxxam.ca E-mail: customerservice@maxxam.ca



Page 1 of 1

CHAIN OF CUSTODY RECORD

COC #: D 11596

Invoice Information				Report Information (if differs from invoice)				Project Information (where applicable)				Turnaround Time (TAT) Required							
Company Name: #41001 Englobe Corp				Company Name: Maxxam				Quotation #: B63657				Regular TAT (5 business days) / Most analyses:							
Contact Name: Act Pay.				Contact Name: Helen Cole / Lisa L				P.O. # / A/E: A06016				PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS							
Address: 97 Treop Ave				Address: 485 George Street, Sydney, NS B1P 1K5				Project ID: P-2010103-0-00-005				F RUSH please specify date (Surcharges will be applied)							
Phone: 902-465-4919				Phone: 902-465-4919				Site Location: B3B2A7				Date Required:							
Email:				Email:				Postal Code: 902-465-4919				Rush Confirmation #							
Laboratory Use Only								Analysis Requested								Regulatory Requirements			
CUSTODY SEAL		COOLER TEMPERATURES		AVERAGE TEMP		INTEGRITY		Metals (Water)		Metals (Soil)		Metals (Air)		Metals (Other)		Comments			
Present	Intact	1	2	3	4	5	6	1	2	3	4	5	6	7	8	9	10		
		21	24																
SAMPLES MUST BE KEPT COOL (≤ 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM																			
SAMPLE IDENTIFICATION				DATE SAMPLED (YYYY/MM/DD)				TIME SAMPLED (HH:MM)				MATRIX							
1 SW3				10/7/15				10:45				SW							
2 SW4				12/10				12:40				SW							
3 SW14				11/50				11:50				SW							
4 P1A				10/10				10:10				SW							
5																			
6																			
7																			
8																			
9																			
10																			
RELINQUISHED BY: (Signature/Print)				DATE: (YYYY/MM/DD)				TIME: (HH:MM)				RECEIVED BY: (Signature/Print)							
												M. McNamee							
												M. McNamee							
												B63657							
												2016 JUL 18 15:25							
												MAXXAM JOB #							

White: Maxxam

Pink: Client



**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

Your P.O. #: A06016  
Your Project #: P-0010903  
Site#: LAKE GEORGE  
Site Location: LAKE GEORGE  
Your C.O.C. #: 568683-01-01

**Report Date: 2016/07/26**

Report #: R4082484

Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B6F0147**

**Received: 2016/07/18, 15:25**

Sample Matrix: Water  
# Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Carbonate, Bicarbonate and Hydroxide	2	N/A	2016/07/22	N/A	SM 22 4500-CO2 D
Alkalinity	2	N/A	2016/07/25	ATL SOP 00013	EPA 310.2 R1974 m
Chloride	2	N/A	2016/07/26	ATL SOP 00014	SM 22 4500-Cl- E m
Colour	2	N/A	2016/07/25	ATL SOP 00020	SM 22 2120C m
Conductance - water	2	N/A	2016/07/22	ATL SOP 00004	SM 22 2510B m
Hardness (calculated as CaCO3)	2	N/A	2016/07/22	ATL SOP 00048	SM 22 2340 B
Metals Water Total MS	3	2016/07/21	2016/07/22	ATL SOP 00058	EPA 6020A R1 m
Ion Balance (% Difference)	2	N/A	2016/07/26		Auto Calc.
Anion and Cation Sum	2	N/A	2016/07/26		Auto Calc.
Nitrogen Ammonia - water	2	N/A	2016/07/25	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite	2	N/A	2016/07/26	ATL SOP 00016	USGS SOPINCF0452.2 m
Nitrogen - Nitrite	2	N/A	2016/07/25	ATL SOP 00017	SM 22 4500-NO2- B m
Nitrogen - Nitrate (as N)	2	N/A	2016/07/26	ATL SOP 00018	ASTM D3867
pH (1)	2	N/A	2016/07/22	ATL SOP 00003	SM 22 4500-H+ B m
Phosphorus - ortho	2	N/A	2016/07/25	ATL SOP 00021	EPA 365.2 m
Sat. pH and Langelier Index (@ 20C)	2	N/A	2016/07/26	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	2	N/A	2016/07/26	ATL SOP 00049	Auto Calc.
Reactive Silica	2	N/A	2016/07/26	ATL SOP 00022	EPA 366.0 m
Sulphate	2	N/A	2016/07/25	ATL SOP 00023	ASTMD516-11 m
Total Dissolved Solids (TDS calc)	2	N/A	2016/07/26		Auto Calc.
Organic carbon - Total (TOC) (2)	2	N/A	2016/07/22	ATL SOP 00037	SM 22 5310C m
Turbidity	2	N/A	2016/07/22	ATL SOP 00011	EPA 180.1 R2 m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The APHA Standard Method require pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.

(2) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

Your P.O. #: A06016  
Your Project #: P-0010903  
Site#: LAKE GEORGE  
Site Location: LAKE GEORGE  
Your C.O.C. #: 568683-01-01

**Report Date: 2016/07/26**

Report #: R4082484

Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B6F0147**

**Received: 2016/07/18, 15:25**

Encryption Key



Maxxam  
26 Jul 2016 17:25:09 -03:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Avery Withrow, Project Manager

Email: AWithrow@maxxam.ca

Phone# (902)420-0203 Ext:233

=====

This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B6F0147  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: LL

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		CSQ877	CSQ877		CSQ878			
Sampling Date		2016/07/15 11:20	2016/07/15 11:20		2016/07/15 07:55			
COC Number		568683-01-01	568683-01-01		568683-01-01			
	UNITS	PW3	PW3 Lab-Dup	RDL	PW8	RDL	QC Batch	MDL
<b>Calculated Parameters</b>								
Anion Sum	me/L	5.54		N/A	2.63	N/A	4583968	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	9.1		1.0	63	1.0	4583964	0.20
Calculated TDS	mg/L	320		1.0	160	1.0	4583973	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0		1.0	<1.0	1.0	4583964	0.20
Cation Sum	me/L	5.20		N/A	2.50	N/A	4583968	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	34		1.0	85	1.0	4583966	1.0
Ion Balance (% Difference)	%	3.17		N/A	2.53	N/A	4583967	N/A
Langelier Index (@ 20C)	N/A	-3.30			-0.469		4583971	
Langelier Index (@ 4C)	N/A	-3.55			-0.719		4583972	
Nitrate (N)	mg/L	0.11		0.050	<0.050	0.050	4583969	N/A
Saturation pH (@ 20C)	N/A	9.50			8.18		4583971	
Saturation pH (@ 4C)	N/A	9.75			8.43		4583972	
<b>Inorganics</b>								
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	9.1		5.0	63	5.0	4589670	N/A
Dissolved Chloride (Cl)	mg/L	180		10	41	2.0	4589676	N/A
Colour	TCU	<5.0		5.0	5.4	5.0	4589683	N/A
Nitrate + Nitrite (N)	mg/L	0.11		0.050	<0.050	0.050	4589689	N/A
Nitrite (N)	mg/L	<0.010		0.010	<0.010	0.010	4589692	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050		0.050	<0.050	0.050	4589837	N/A
Total Organic Carbon (C)	mg/L	0.95		0.50	0.50	0.50	4589466	N/A
Orthophosphate (P)	mg/L	<0.010		0.010	0.016	0.010	4589687	N/A
pH	pH	6.20		N/A	7.71	N/A	4589410	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	7.4		0.50	22	0.50	4589680	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	17		2.0	9.9	2.0	4589679	N/A
Turbidity	NTU	1.2		0.10	14	0.10	4589515	0.10
Conductivity	uS/cm	560		1.0	240	1.0	4589411	N/A
<b>Metals</b>								
Total Aluminum (Al)	ug/L	170	170	5.0	7.5	5.0	4587985	N/A
Total Antimony (Sb)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	4587985	N/A
Total Arsenic (As)	ug/L	<1.0	<1.0	1.0	2.3	1.0	4587985	N/A
Total Barium (Ba)	ug/L	41	41	1.0	18	1.0	4587985	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable								



Maxxam Job #: B6F0147  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: LL

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		CSQ877	CSQ877		CSQ878			
Sampling Date		2016/07/15 11:20	2016/07/15 11:20		2016/07/15 07:55			
COC Number		568683-01-01	568683-01-01		568683-01-01			
	UNITS	PW3	PW3 Lab-Dup	RDL	PW8	RDL	QC Batch	MDL
Total Beryllium (Be)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	4587985	N/A
Total Bismuth (Bi)	ug/L	<2.0	<2.0	2.0	<2.0	2.0	4587985	N/A
Total Boron (B)	ug/L	<50	<50	50	<50	50	4587985	N/A
Total Cadmium (Cd)	ug/L	0.11	0.10	0.010	<0.010	0.010	4587985	N/A
Total Calcium (Ca)	ug/L	9400	9300	100	25000	100	4587985	N/A
Total Chromium (Cr)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	4587985	N/A
Total Cobalt (Co)	ug/L	0.62	0.59	0.40	<0.40	0.40	4587985	N/A
Total Copper (Cu)	ug/L	8.3	8.3	2.0	<2.0	2.0	4587985	N/A
Total Iron (Fe)	ug/L	380	380	50	1600	50	4587985	N/A
Total Lead (Pb)	ug/L	1.9	1.8	0.50	<0.50	0.50	4587985	N/A
Total Magnesium (Mg)	ug/L	2700	2700	100	5600	100	4587985	N/A
Total Manganese (Mn)	ug/L	110	110	2.0	260	2.0	4587985	N/A
Total Molybdenum (Mo)	ug/L	<2.0	<2.0	2.0	<2.0	2.0	4587985	N/A
Total Nickel (Ni)	ug/L	<2.0	<2.0	2.0	<2.0	2.0	4587985	N/A
Total Phosphorus (P)	ug/L	<100	<100	100	<100	100	4587985	N/A
Total Potassium (K)	ug/L	1000	1000	100	1600	100	4587985	N/A
Total Selenium (Se)	ug/L	<1.0	<1.0	1.0	<1.0	1.0	4587985	N/A
Total Silver (Ag)	ug/L	<0.10	<0.10	0.10	<0.10	0.10	4587985	N/A
Total Sodium (Na)	ug/L	100000	100000	100	16000	100	4587985	N/A
Total Strontium (Sr)	ug/L	65	65	2.0	150	2.0	4587985	N/A
Total Thallium (Tl)	ug/L	<0.10	<0.10	0.10	<0.10	0.10	4587985	N/A
Total Tin (Sn)	ug/L	<2.0	<2.0	2.0	<2.0	2.0	4587985	N/A
Total Titanium (Ti)	ug/L	<2.0	<2.0	2.0	<2.0	2.0	4587985	N/A
Total Uranium (U)	ug/L	<0.10	<0.10	0.10	<0.10	0.10	4587985	N/A
Total Vanadium (V)	ug/L	<2.0	<2.0	2.0	<2.0	2.0	4587985	N/A
Total Zinc (Zn)	ug/L	30	31	5.0	<5.0	5.0	4587985	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable								

Maxxam Job #: B6F0147  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: LL

### ELEMENTS BY ICP/MS (WATER)

<b>Maxxam ID</b>		CSQ879			
<b>Sampling Date</b>		2016/07/15 11:15			
<b>COC Number</b>		568683-01-01			
	<b>UNITS</b>	<b>PW3-TAP</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Metals</b>					
Total Aluminum (Al)	ug/L	160	5.0	4587985	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4587985	N/A
Total Arsenic (As)	ug/L	<1.0	1.0	4587985	N/A
Total Barium (Ba)	ug/L	40	1.0	4587985	N/A
Total Beryllium (Be)	ug/L	<1.0	1.0	4587985	N/A
Total Bismuth (Bi)	ug/L	<2.0	2.0	4587985	N/A
Total Boron (B)	ug/L	<50	50	4587985	N/A
Total Cadmium (Cd)	ug/L	0.10	0.010	4587985	N/A
Total Calcium (Ca)	ug/L	9300	100	4587985	N/A
Total Chromium (Cr)	ug/L	<1.0	1.0	4587985	N/A
Total Cobalt (Co)	ug/L	0.61	0.40	4587985	N/A
Total Copper (Cu)	ug/L	69	2.0	4587985	N/A
Total Iron (Fe)	ug/L	180	50	4587985	N/A
Total Lead (Pb)	ug/L	0.69	0.50	4587985	N/A
Total Magnesium (Mg)	ug/L	2600	100	4587985	N/A
Total Manganese (Mn)	ug/L	100	2.0	4587985	N/A
Total Molybdenum (Mo)	ug/L	<2.0	2.0	4587985	N/A
Total Nickel (Ni)	ug/L	<2.0	2.0	4587985	N/A
Total Phosphorus (P)	ug/L	<100	100	4587985	N/A
Total Potassium (K)	ug/L	1000	100	4587985	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	4587985	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	4587985	N/A
Total Sodium (Na)	ug/L	98000	100	4587985	N/A
Total Strontium (Sr)	ug/L	64	2.0	4587985	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4587985	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	4587985	N/A
Total Titanium (Ti)	ug/L	<2.0	2.0	4587985	N/A
Total Uranium (U)	ug/L	<0.10	0.10	4587985	N/A
Total Vanadium (V)	ug/L	<2.0	2.0	4587985	N/A
Total Zinc (Zn)	ug/L	11	5.0	4587985	N/A
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
N/A = Not Applicable					

Maxxam Job #: B6F0147  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** CSQ877  
**Sample ID:** PW3  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4583964	N/A	2016/07/22	Automated Statchk
Alkalinity	KONE	4589670	N/A	2016/07/25	Nancy Rogers
Chloride	KONE	4589676	N/A	2016/07/26	Mary Clancey
Colour	KONE	4589683	N/A	2016/07/25	Nancy Rogers
Conductance - water	AT	4589411	N/A	2016/07/22	Julia McGovern
Hardness (calculated as CaCO3)		4583966	N/A	2016/07/22	Automated Statchk
Metals Water Total MS	CICP/MS	4587985	2016/07/21	2016/07/22	Bryon Angevine
Ion Balance (% Difference)	CALC	4583967	N/A	2016/07/26	Automated Statchk
Anion and Cation Sum	CALC	4583968	N/A	2016/07/26	Automated Statchk
Nitrogen Ammonia - water	KONE	4589837	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4589689	N/A	2016/07/26	Nancy Rogers
Nitrogen - Nitrite	KONE	4589692	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4583969	N/A	2016/07/26	Automated Statchk
pH	AT	4589410	N/A	2016/07/22	Julia McGovern
Phosphorus - ortho	KONE	4589687	N/A	2016/07/25	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4583971	N/A	2016/07/26	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4583972	N/A	2016/07/26	Automated Statchk
Reactive Silica	KONE	4589680	N/A	2016/07/26	Nancy Rogers
Sulphate	KONE	4589679	N/A	2016/07/25	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4583973	N/A	2016/07/26	Automated Statchk
Organic carbon - Total (TOC)	TECH	4589466	N/A	2016/07/22	Soraya Merchant
Turbidity	TURB	4589515	N/A	2016/07/22	Julia McGovern

**Maxxam ID:** CSQ877 Dup  
**Sample ID:** PW3  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Water Total MS	CICP/MS	4587985	2016/07/21	2016/07/22	Bryon Angevine

**Maxxam ID:** CSQ878  
**Sample ID:** PW8  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4583964	N/A	2016/07/22	Automated Statchk
Alkalinity	KONE	4589670	N/A	2016/07/25	Nancy Rogers
Chloride	KONE	4589676	N/A	2016/07/26	Mary Clancey
Colour	KONE	4589683	N/A	2016/07/25	Nancy Rogers
Conductance - water	AT	4589411	N/A	2016/07/22	Julia McGovern
Hardness (calculated as CaCO3)		4583966	N/A	2016/07/22	Automated Statchk
Metals Water Total MS	CICP/MS	4587985	2016/07/21	2016/07/22	Bryon Angevine
Ion Balance (% Difference)	CALC	4583967	N/A	2016/07/26	Automated Statchk

Maxxam Job #: B6F0147  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** CSQ878  
**Sample ID:** PW8  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anion and Cation Sum	CALC	4583968	N/A	2016/07/26	Automated Statchk
Nitrogen Ammonia - water	KONE	4589837	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4589689	N/A	2016/07/26	Nancy Rogers
Nitrogen - Nitrite	KONE	4589692	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4583969	N/A	2016/07/26	Automated Statchk
pH	AT	4589410	N/A	2016/07/22	Julia McGovern
Phosphorus - ortho	KONE	4589687	N/A	2016/07/25	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4583971	N/A	2016/07/26	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4583972	N/A	2016/07/26	Automated Statchk
Reactive Silica	KONE	4589680	N/A	2016/07/26	Nancy Rogers
Sulphate	KONE	4589679	N/A	2016/07/25	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4583973	N/A	2016/07/26	Automated Statchk
Organic carbon - Total (TOC)	TECH	4589466	N/A	2016/07/22	Soraya Merchant
Turbidity	TURB	4589515	N/A	2016/07/22	Julia McGovern

**Maxxam ID:** CSQ879  
**Sample ID:** PW3-TAP  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Water Total MS	CICP/MS	4587985	2016/07/21	2016/07/22	Bryon Angevine

Maxxam Job #: B6F0147  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: LL

### GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.3°C
-----------	-------

**Results relate only to the items tested.**

Maxxam Job #: B6F0147  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT

QA/QC				Date	%			
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
4587985	BAN	Matrix Spike(CSQ878)	Total Aluminum (Al)	2016/07/22		107	%	80 - 120
			Total Antimony (Sb)	2016/07/22		102	%	80 - 120
			Total Arsenic (As)	2016/07/22		100	%	80 - 120
			Total Barium (Ba)	2016/07/22		101	%	80 - 120
			Total Beryllium (Be)	2016/07/22		102	%	80 - 120
			Total Bismuth (Bi)	2016/07/22		102	%	80 - 120
			Total Boron (B)	2016/07/22		103	%	80 - 120
			Total Cadmium (Cd)	2016/07/22		103	%	80 - 120
			Total Calcium (Ca)	2016/07/22		NC	%	80 - 120
			Total Chromium (Cr)	2016/07/22		102	%	80 - 120
			Total Cobalt (Co)	2016/07/22		103	%	80 - 120
			Total Copper (Cu)	2016/07/22		102	%	80 - 120
			Total Iron (Fe)	2016/07/22		NC	%	80 - 120
			Total Lead (Pb)	2016/07/22		100	%	80 - 120
			Total Magnesium (Mg)	2016/07/22		NC	%	80 - 120
			Total Manganese (Mn)	2016/07/22		NC	%	80 - 120
			Total Molybdenum (Mo)	2016/07/22		108	%	80 - 120
			Total Nickel (Ni)	2016/07/22		102	%	80 - 120
			Total Phosphorus (P)	2016/07/22		106	%	80 - 120
			Total Potassium (K)	2016/07/22		106	%	80 - 120
			Total Selenium (Se)	2016/07/22		101	%	80 - 120
			Total Silver (Ag)	2016/07/22		102	%	80 - 120
			Total Sodium (Na)	2016/07/22		NC	%	80 - 120
			Total Strontium (Sr)	2016/07/22		NC	%	80 - 120
			Total Thallium (Tl)	2016/07/22		103	%	80 - 120
			Total Tin (Sn)	2016/07/22		108	%	80 - 120
			Total Titanium (Ti)	2016/07/22		106	%	80 - 120
			Total Uranium (U)	2016/07/22		106	%	80 - 120
			Total Vanadium (V)	2016/07/22		102	%	80 - 120
			Total Zinc (Zn)	2016/07/22		101	%	80 - 120
4587985	BAN	Spiked Blank	Total Aluminum (Al)	2016/07/22		108	%	80 - 120
			Total Antimony (Sb)	2016/07/22		97	%	80 - 120
			Total Arsenic (As)	2016/07/22		99	%	80 - 120
			Total Barium (Ba)	2016/07/22		98	%	80 - 120
			Total Beryllium (Be)	2016/07/22		102	%	80 - 120
			Total Bismuth (Bi)	2016/07/22		102	%	80 - 120
			Total Boron (B)	2016/07/22		103	%	80 - 120
			Total Cadmium (Cd)	2016/07/22		102	%	80 - 120
			Total Calcium (Ca)	2016/07/22		100	%	80 - 120
			Total Chromium (Cr)	2016/07/22		101	%	80 - 120
			Total Cobalt (Co)	2016/07/22		103	%	80 - 120
			Total Copper (Cu)	2016/07/22		102	%	80 - 120
			Total Iron (Fe)	2016/07/22		105	%	80 - 120
			Total Lead (Pb)	2016/07/22		101	%	80 - 120
			Total Magnesium (Mg)	2016/07/22		105	%	80 - 120
			Total Manganese (Mn)	2016/07/22		103	%	80 - 120
			Total Molybdenum (Mo)	2016/07/22		99	%	80 - 120
			Total Nickel (Ni)	2016/07/22		103	%	80 - 120
			Total Phosphorus (P)	2016/07/22		104	%	80 - 120
			Total Potassium (K)	2016/07/22		104	%	80 - 120
			Total Selenium (Se)	2016/07/22		99	%	80 - 120

Maxxam Job #: B6F0147  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4587985	BAN	Method Blank	Total Silver (Ag)	2016/07/22		99	%	80 - 120
			Total Sodium (Na)	2016/07/22		103	%	80 - 120
			Total Strontium (Sr)	2016/07/22		101	%	80 - 120
			Total Thallium (Tl)	2016/07/22		102	%	80 - 120
			Total Tin (Sn)	2016/07/22		102	%	80 - 120
			Total Titanium (Ti)	2016/07/22		105	%	80 - 120
			Total Uranium (U)	2016/07/22		105	%	80 - 120
			Total Vanadium (V)	2016/07/22		102	%	80 - 120
			Total Zinc (Zn)	2016/07/22		101	%	80 - 120
			Total Aluminum (Al)	2016/07/22	8.5, RDL=5.0		ug/L	
			Total Antimony (Sb)	2016/07/22	<1.0		ug/L	
			Total Arsenic (As)	2016/07/22	<1.0		ug/L	
			Total Barium (Ba)	2016/07/22	<1.0		ug/L	
			Total Beryllium (Be)	2016/07/22	<1.0		ug/L	
			Total Bismuth (Bi)	2016/07/22	<2.0		ug/L	
			Total Boron (B)	2016/07/22	<50		ug/L	
			Total Cadmium (Cd)	2016/07/22	<0.010		ug/L	
			Total Calcium (Ca)	2016/07/22	<100		ug/L	
			Total Chromium (Cr)	2016/07/22	<1.0		ug/L	
			Total Cobalt (Co)	2016/07/22	<0.40		ug/L	
			Total Copper (Cu)	2016/07/22	<2.0		ug/L	
			Total Iron (Fe)	2016/07/22	<50		ug/L	
			Total Lead (Pb)	2016/07/22	<0.50		ug/L	
			Total Magnesium (Mg)	2016/07/22	<100		ug/L	
			Total Manganese (Mn)	2016/07/22	<2.0		ug/L	
			Total Molybdenum (Mo)	2016/07/22	<2.0		ug/L	
			Total Nickel (Ni)	2016/07/22	<2.0		ug/L	
			Total Phosphorus (P)	2016/07/22	<100		ug/L	
			Total Potassium (K)	2016/07/22	<100		ug/L	
			Total Selenium (Se)	2016/07/22	<1.0		ug/L	
			Total Silver (Ag)	2016/07/22	<0.10		ug/L	
			Total Sodium (Na)	2016/07/22	<100		ug/L	
			Total Strontium (Sr)	2016/07/22	<2.0		ug/L	
			Total Thallium (Tl)	2016/07/22	<0.10		ug/L	
			Total Tin (Sn)	2016/07/22	<2.0		ug/L	
			Total Titanium (Ti)	2016/07/22	<2.0		ug/L	
			Total Uranium (U)	2016/07/22	<0.10		ug/L	
			Total Vanadium (V)	2016/07/22	<2.0		ug/L	
			Total Zinc (Zn)	2016/07/22	<5.0		ug/L	
4587985	BAN	RPD - Sample/Sample Dup	Total Aluminum (Al)	2016/07/22	0.12		%	20
			Total Antimony (Sb)	2016/07/22	NC		%	20
			Total Arsenic (As)	2016/07/22	NC		%	20
			Total Barium (Ba)	2016/07/22	0.38		%	20
			Total Beryllium (Be)	2016/07/22	NC		%	20
			Total Bismuth (Bi)	2016/07/22	NC		%	20
			Total Boron (B)	2016/07/22	NC		%	20
			Total Cadmium (Cd)	2016/07/22	8.9		%	20
			Total Calcium (Ca)	2016/07/22	0.79		%	20
			Total Chromium (Cr)	2016/07/22	NC		%	20
			Total Cobalt (Co)	2016/07/22	NC		%	20



Maxxam Job #: B6F0147  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Total Copper (Cu)	2016/07/22	NC		%	20
			Total Iron (Fe)	2016/07/22	0.17		%	20
			Total Lead (Pb)	2016/07/22	NC		%	20
			Total Magnesium (Mg)	2016/07/22	0.065		%	20
			Total Manganese (Mn)	2016/07/22	0.57		%	20
			Total Molybdenum (Mo)	2016/07/22	NC		%	20
			Total Nickel (Ni)	2016/07/22	NC		%	20
			Total Phosphorus (P)	2016/07/22	NC		%	20
			Total Potassium (K)	2016/07/22	0.79		%	20
			Total Selenium (Se)	2016/07/22	NC		%	20
			Total Silver (Ag)	2016/07/22	NC		%	20
			Total Sodium (Na)	2016/07/22	0.23		%	20
			Total Strontium (Sr)	2016/07/22	0.97		%	20
			Total Thallium (Tl)	2016/07/22	NC		%	20
			Total Tin (Sn)	2016/07/22	NC		%	20
			Total Titanium (Ti)	2016/07/22	NC		%	20
			Total Uranium (U)	2016/07/22	NC		%	20
			Total Vanadium (V)	2016/07/22	NC		%	20
			Total Zinc (Zn)	2016/07/22	3.6		%	20
4589410	JMV	QC Standard	pH	2016/07/22		100	%	97 - 103
4589410	JMV	RPD - Sample/Sample Dup	pH	2016/07/22	0.70		%	N/A
4589411	JMV	Spiked Blank	Conductivity	2016/07/22		100	%	80 - 120
4589411	JMV	Method Blank	Conductivity	2016/07/22	1.1, RDL=1.0		uS/cm	
4589411	JMV	RPD - Sample/Sample Dup	Conductivity	2016/07/22	0.66		%	25
4589466	SMT	Matrix Spike	Total Organic Carbon (C)	2016/07/22		99	%	80 - 120
4589466	SMT	Spiked Blank	Total Organic Carbon (C)	2016/07/22		112	%	80 - 120
4589466	SMT	Method Blank	Total Organic Carbon (C)	2016/07/22	<0.50		mg/L	
4589466	SMT	RPD - Sample/Sample Dup	Total Organic Carbon (C)	2016/07/22	NC		%	20
4589515	JMV	QC Standard	Turbidity	2016/07/22		98	%	80 - 120
4589515	JMV	Spiked Blank	Turbidity	2016/07/22		98	%	80 - 120
4589515	JMV	Method Blank	Turbidity	2016/07/22	<0.10		NTU	
4589515	JMV	RPD - Sample/Sample Dup	Turbidity	2016/07/22	3.4		%	20
4589670	NRG	Matrix Spike	Total Alkalinity (Total as CaCO3)	2016/07/25		NC	%	80 - 120
4589670	NRG	Spiked Blank	Total Alkalinity (Total as CaCO3)	2016/07/25		99	%	80 - 120
4589670	NRG	Method Blank	Total Alkalinity (Total as CaCO3)	2016/07/25	<5.0		mg/L	
4589670	NRG	RPD - Sample/Sample Dup	Total Alkalinity (Total as CaCO3)	2016/07/25	0.51		%	25
4589676	MCN	Matrix Spike	Dissolved Chloride (Cl)	2016/07/26		NC	%	80 - 120
4589676	MCN	Spiked Blank	Dissolved Chloride (Cl)	2016/07/26		102	%	80 - 120
4589676	MCN	Method Blank	Dissolved Chloride (Cl)	2016/07/26	1.1, RDL=1.0		mg/L	
4589676	MCN	RPD - Sample/Sample Dup	Dissolved Chloride (Cl)	2016/07/26	0.91		%	25
4589679	NRG	Matrix Spike	Dissolved Sulphate (SO4)	2016/07/25		NC	%	80 - 120
4589679	NRG	Spiked Blank	Dissolved Sulphate (SO4)	2016/07/25		110	%	80 - 120
4589679	NRG	Method Blank	Dissolved Sulphate (SO4)	2016/07/25	<2.0		mg/L	
4589679	NRG	RPD - Sample/Sample Dup	Dissolved Sulphate (SO4)	2016/07/25	2.1		%	25
4589680	NRG	Matrix Spike	Reactive Silica (SiO2)	2016/07/26		NC	%	80 - 120
4589680	NRG	Spiked Blank	Reactive Silica (SiO2)	2016/07/26		100	%	80 - 120
4589680	NRG	Method Blank	Reactive Silica (SiO2)	2016/07/26	<0.50		mg/L	
4589680	NRG	RPD - Sample/Sample Dup	Reactive Silica (SiO2)	2016/07/26	2.4		%	25
4589683	NRG	Spiked Blank	Colour	2016/07/25		97	%	80 - 120

Maxxam Job #: B6F0147  
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Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4589683	NRG	Method Blank	Colour	2016/07/25	<5.0		TCU	
4589683	NRG	RPD - Sample/Sample Dup	Colour	2016/07/25	NC		%	20
4589687	NRG	Matrix Spike	Orthophosphate (P)	2016/07/25		89	%	80 - 120
4589687	NRG	Spiked Blank	Orthophosphate (P)	2016/07/25		95	%	80 - 120
4589687	NRG	Method Blank	Orthophosphate (P)	2016/07/25	<0.010		mg/L	
4589687	NRG	RPD - Sample/Sample Dup	Orthophosphate (P)	2016/07/25	NC		%	25
4589689	NRG	Matrix Spike	Nitrate + Nitrite (N)	2016/07/26		98	%	80 - 120
4589689	NRG	Spiked Blank	Nitrate + Nitrite (N)	2016/07/26		93	%	80 - 120
4589689	NRG	Method Blank	Nitrate + Nitrite (N)	2016/07/26	<0.050		mg/L	
4589689	NRG	RPD - Sample/Sample Dup	Nitrate + Nitrite (N)	2016/07/26	0.91		%	25
4589692	NRG	Matrix Spike	Nitrite (N)	2016/07/25		94	%	80 - 120
4589692	NRG	Spiked Blank	Nitrite (N)	2016/07/25		98	%	80 - 120
4589692	NRG	Method Blank	Nitrite (N)	2016/07/25	<0.010		mg/L	
4589692	NRG	RPD - Sample/Sample Dup	Nitrite (N)	2016/07/25	NC		%	25
4589837	NRG	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2016/07/25		103	%	80 - 120
4589837	NRG	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2016/07/25		106	%	80 - 120
4589837	NRG	Method Blank	Nitrogen (Ammonia Nitrogen)	2016/07/25	<0.050		mg/L	
4589837	NRG	RPD - Sample/Sample Dup	Nitrogen (Ammonia Nitrogen)	2016/07/25	NC		%	20

N/A = Not Applicable

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

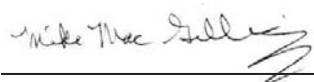
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

Maxxam Job #: B6F0147  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: LL

### VALIDATION SIGNATURE PAGE


The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Mike MacGillivray, Scientific Specialist (Inorganics)

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



**Maxxam**  
Maxxam Analytics International Corporation  
200 Bluewater Road, Bedford, Nova Scotia Canada B4B 1G9  
Tel: (902) 420-0203 Toll-free: 800-593-6266 Fax: (902) 420-8612 www.maxxam.ca

**Chain of Custody Record**

Page 1 of 1

**INVOICE TO:**

Company Name: #41009 Englobe Corp.  
Contact Name: Accounts Payable  
Address: 97 Troop Ave  
Dartmouth NS B3B 2A7  
Phone: (902) 468-6486 Fax: (902) 468-4919  
Email: Dartmouth.AP@englobecorp.com

**Report Information**

Company Name: Aven Cole/Lisa L  
Contact Name: Aven Cole/Lisa L  
Address: (902) 468-6486 Fax: (902) 468-4919  
Email: Aven.Cole@englobecorp.com

**Project Information**

Qualification #: B63657  
P.O. #: P-0010903  
Project Name: LAKE GEORGE  
Site #: LL  
Sampled By: LL

**Laboratory Use Only**

Maxxam Job #: B63657  
Bottle Order #: 55653  
Chain of Custody Record  
Project Manager: Avery Whitrow  
C4565833-01-01

**Regulatory Criteria**

Company Name: #41009 Englobe Corp.  
Contact Name: Accounts Payable  
Address: 97 Troop Ave  
Dartmouth NS B3B 2A7  
Phone: (902) 468-6486 Fax: (902) 468-4919  
Email: Dartmouth.AP@englobecorp.com

**Special Instructions**

SAMPLES MUST BE KEPT COOL (4-10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

\* Specify Matrix: Surface Ground/Tankwater/Sewage/Effluent/Solidwaste  
Possible/Non-potable/Tissue/Solid/Liquid/Metal

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtration & Preserved	Lab Filtration Required	RCAP-MS Total Metals in Water	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	Turnaround Time (TAT) Required
1	PW3	7/15/16	11h20	PW	X	X			
2	PW3	7/15/16	7h55	PW	X	X			
3	PW3-TAP	7/15/16	11h15	PW	X	X			
4									
5									
6									
7									
8									
9									
10									

**RELINQUISHED BY:** (Signature/Print)  
*Lisa Labeau*

Date: (YY/MM/DD) 16/7/15

**RECEIVED BY:** (Signature/Print)  
*M. McNamee*

Date: (YY/MM/DD) 16/7/15

**Time Sensitive**

Time Required: ☐

**Lab Use Only**

Temperature (°C) on Receipt: 2,114

**Custody Seal Intact on Cooler?**

Yes ☐ No ☐

**White Maxxam**

Yellow Cent

Your P.O. #: A06016  
Your Project #: P-00903-0-00-205  
Your C.O.C. #: D 11595

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

**Report Date: 2016/07/26**

Report #: R4082082

Version: 1 - Partial

**CERTIFICATE OF ANALYSIS – PARTIAL RESULTS**

**MAXXAM JOB #: B6F0237**

**Received: 2016/07/18, 15:25**

Sample Matrix: SEDIMENT  
# Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Metals Solids Acid Extr. ICPMS	6	2016/07/22	2016/07/22	ATL SOP 00058	EPA 6020A R1 m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Encryption Key



Maxxam  
26 Jul 2016 15:06:49 -03:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Avery Withrow, Project Manager

Email: AWithrow@maxxam.ca

Phone# (902)420-0203 Ext:233

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This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Maxxam Job #: B6F0237  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-00903-0-00-205  
Your P.O. #: A06016  
Sampler Initials: LL

### ELEMENTS BY ATOMIC SPECTROSCOPY (SEDIMENT)

Maxxam ID		CSR357	CSR357	CSR358	CSR359	CSR360	CSR361		
Sampling Date		2016/07/15 13:30	2016/07/15 13:30	2016/07/14 10:35	2016/07/15 10:45	2016/07/15 14:00	2016/07/15 11:50		
COC Number		D 11595	D 11595	D 11595	D 11595	D 11595	D 11595		
	UNITS	SW1	SW1 Lab-Dup	SW2	SW3	SW12	SW14	RDL	QC Batch

Metals									
Acid Extractable Aluminum (Al)	mg/kg	12000	12000	2800	5300	6600	13000	10	4589661
Acid Extractable Antimony (Sb)	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4589661
Acid Extractable Arsenic (As)	mg/kg	2.7	2.8	4.0	8.0	2.5	21	2.0	4589661
Acid Extractable Barium (Ba)	mg/kg	15	15	21	33	44	19	5.0	4589661
Acid Extractable Beryllium (Be)	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4589661
Acid Extractable Bismuth (Bi)	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4589661
Acid Extractable Boron (B)	mg/kg	<50	<50	<50	<50	<50	<50	50	4589661
Acid Extractable Cadmium (Cd)	mg/kg	<0.30	<0.30	<0.30	<0.30	0.52	<0.30	0.30	4589661
Acid Extractable Chromium (Cr)	mg/kg	26	27	3.2	9.5	7.0	25	2.0	4589661
Acid Extractable Cobalt (Co)	mg/kg	9.1	9.0	1.5	4.4	2.9	24	1.0	4589661
Acid Extractable Copper (Cu)	mg/kg	5.8	6.2	5.9	6.4	14	6.5	2.0	4589661
Acid Extractable Iron (Fe)	mg/kg	19000	19000	3000	16000	7900	31000	50	4589661
Acid Extractable Lead (Pb)	mg/kg	13	13	20	13	41	26	0.50	4589661
Acid Extractable Lithium (Li)	mg/kg	27	28	<2.0	7.3	<2.0	25	2.0	4589661
Acid Extractable Manganese (Mn)	mg/kg	370	370	68	400	66	1100	2.0	4589661
Acid Extractable Mercury (Hg)	mg/kg	0.10	<0.10	0.24	0.12	0.34	<0.10	0.10	4589661
Acid Extractable Molybdenum (Mo)	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4589661
Acid Extractable Nickel (Ni)	mg/kg	24	24	4.1	7.8	10	21	2.0	4589661
Acid Extractable Rubidium (Rb)	mg/kg	6.4	6.2	2.3	6.5	2.6	5.4	2.0	4589661
Acid Extractable Selenium (Se)	mg/kg	<1.0	<1.0	<1.0	<1.0	1.1	1.2	1.0	4589661
Acid Extractable Silver (Ag)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4589661
Acid Extractable Strontium (Sr)	mg/kg	7.8	8.2	23	20	24	11	5.0	4589661
Acid Extractable Thallium (Tl)	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	4589661
Acid Extractable Tin (Sn)	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4589661
Acid Extractable Uranium (U)	mg/kg	0.40	0.38	0.26	0.48	0.67	0.62	0.10	4589661
Acid Extractable Vanadium (V)	mg/kg	17	17	3.5	9.1	11	37	2.0	4589661
Acid Extractable Zinc (Zn)	mg/kg	49	52	17	38	25	52	5.0	4589661

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B6F0237  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-00903-0-00-205  
Your P.O. #: A06016  
Sampler Initials: LL

### ELEMENTS BY ATOMIC SPECTROSCOPY (SEDIMENT)

<b>Maxxam ID</b>		CSR362		
<b>Sampling Date</b>		2016/07/14 17:30		
<b>COC Number</b>		D 11595		
	<b>UNITS</b>	<b>BACK2</b>	<b>RDL</b>	<b>QC Batch</b>
<b>Metals</b>				
Acid Extractable Aluminum (Al)	mg/kg	10000	10	4589661
Acid Extractable Antimony (Sb)	mg/kg	<2.0	2.0	4589661
Acid Extractable Arsenic (As)	mg/kg	21	2.0	4589661
Acid Extractable Barium (Ba)	mg/kg	55	5.0	4589661
Acid Extractable Beryllium (Be)	mg/kg	<2.0	2.0	4589661
Acid Extractable Bismuth (Bi)	mg/kg	<2.0	2.0	4589661
Acid Extractable Boron (B)	mg/kg	<50	50	4589661
Acid Extractable Cadmium (Cd)	mg/kg	<0.30	0.30	4589661
Acid Extractable Chromium (Cr)	mg/kg	23	2.0	4589661
Acid Extractable Cobalt (Co)	mg/kg	9.6	1.0	4589661
Acid Extractable Copper (Cu)	mg/kg	8.6	2.0	4589661
Acid Extractable Iron (Fe)	mg/kg	36000	50	4589661
Acid Extractable Lead (Pb)	mg/kg	10	0.50	4589661
Acid Extractable Lithium (Li)	mg/kg	35	2.0	4589661
Acid Extractable Manganese (Mn)	mg/kg	270	2.0	4589661
Acid Extractable Mercury (Hg)	mg/kg	<0.10	0.10	4589661
Acid Extractable Molybdenum (Mo)	mg/kg	2.2	2.0	4589661
Acid Extractable Nickel (Ni)	mg/kg	12	2.0	4589661
Acid Extractable Rubidium (Rb)	mg/kg	27	2.0	4589661
Acid Extractable Selenium (Se)	mg/kg	<1.0	1.0	4589661
Acid Extractable Silver (Ag)	mg/kg	<0.50	0.50	4589661
Acid Extractable Strontium (Sr)	mg/kg	5.6	5.0	4589661
Acid Extractable Thallium (Tl)	mg/kg	0.14	0.10	4589661
Acid Extractable Tin (Sn)	mg/kg	<2.0	2.0	4589661
Acid Extractable Uranium (U)	mg/kg	0.69	0.10	4589661
Acid Extractable Vanadium (V)	mg/kg	47	2.0	4589661
Acid Extractable Zinc (Zn)	mg/kg	39	5.0	4589661
RDL = Reportable Detection Limit				
QC Batch = Quality Control Batch				



Maxxam Job #: B6F0237  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-00903-0-00-205  
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Sampler Initials: LL

### GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.3°C
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**Results relate only to the items tested.**

Maxxam Job #: B6F0237  
Report Date: 2016/07/26

Englobe Corp.  
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### QUALITY ASSURANCE REPORT

QA/QC				Date		Recovery	UNITS	QC Limits
Batch	Init	QC Type	Parameter	Analyzed	Value			
4589661	BAN	Matrix Spike [CSR357-01]	Acid Extractable Antimony (Sb)	2016/07/22		101	%	75 - 125
			Acid Extractable Arsenic (As)	2016/07/22		103	%	75 - 125
			Acid Extractable Barium (Ba)	2016/07/22		117	%	75 - 125
			Acid Extractable Beryllium (Be)	2016/07/22		113	%	75 - 125
			Acid Extractable Bismuth (Bi)	2016/07/22		107	%	75 - 125
			Acid Extractable Boron (B)	2016/07/22		100	%	75 - 125
			Acid Extractable Cadmium (Cd)	2016/07/22		110	%	75 - 125
			Acid Extractable Chromium (Cr)	2016/07/22		NC	%	75 - 125
			Acid Extractable Cobalt (Co)	2016/07/22		107	%	75 - 125
			Acid Extractable Copper (Cu)	2016/07/22		108	%	75 - 125
			Acid Extractable Lead (Pb)	2016/07/22		107	%	75 - 125
			Acid Extractable Lithium (Li)	2016/07/22		NC	%	75 - 125
			Acid Extractable Manganese (Mn)	2016/07/22		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2016/07/22		100	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2016/07/22		109	%	75 - 125
			Acid Extractable Nickel (Ni)	2016/07/22		111	%	75 - 125
			Acid Extractable Rubidium (Rb)	2016/07/22		103	%	75 - 125
			Acid Extractable Selenium (Se)	2016/07/22		103	%	75 - 125
			Acid Extractable Silver (Ag)	2016/07/22		103	%	75 - 125
			Acid Extractable Strontium (Sr)	2016/07/22		112	%	75 - 125
			Acid Extractable Thallium (Tl)	2016/07/22		108	%	75 - 125
			Acid Extractable Tin (Sn)	2016/07/22		109	%	75 - 125
			Acid Extractable Uranium (U)	2016/07/22		108	%	75 - 125
			Acid Extractable Vanadium (V)	2016/07/22		109	%	75 - 125
			Acid Extractable Zinc (Zn)	2016/07/22		NC	%	75 - 125
4589661	BAN	Spiked Blank	Acid Extractable Antimony (Sb)	2016/07/22		100	%	75 - 125
			Acid Extractable Arsenic (As)	2016/07/22		101	%	75 - 125
			Acid Extractable Barium (Ba)	2016/07/22		107	%	75 - 125
			Acid Extractable Beryllium (Be)	2016/07/22		109	%	75 - 125
			Acid Extractable Bismuth (Bi)	2016/07/22		102	%	75 - 125
			Acid Extractable Boron (B)	2016/07/22		105	%	75 - 125
			Acid Extractable Cadmium (Cd)	2016/07/22		105	%	75 - 125
			Acid Extractable Chromium (Cr)	2016/07/22		103	%	75 - 125
			Acid Extractable Cobalt (Co)	2016/07/22		103	%	75 - 125
			Acid Extractable Copper (Cu)	2016/07/22		102	%	75 - 125
			Acid Extractable Lead (Pb)	2016/07/22		103	%	75 - 125
			Acid Extractable Lithium (Li)	2016/07/22		101	%	75 - 125
			Acid Extractable Manganese (Mn)	2016/07/22		102	%	75 - 125
			Acid Extractable Mercury (Hg)	2016/07/22		102	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2016/07/22		104	%	75 - 125
			Acid Extractable Nickel (Ni)	2016/07/22		103	%	75 - 125
			Acid Extractable Rubidium (Rb)	2016/07/22		100	%	75 - 125
			Acid Extractable Selenium (Se)	2016/07/22		102	%	75 - 125
			Acid Extractable Silver (Ag)	2016/07/22		98	%	75 - 125
			Acid Extractable Strontium (Sr)	2016/07/22		102	%	75 - 125
			Acid Extractable Thallium (Tl)	2016/07/22		106	%	75 - 125
			Acid Extractable Tin (Sn)	2016/07/22		105	%	75 - 125
			Acid Extractable Uranium (U)	2016/07/22		104	%	75 - 125
			Acid Extractable Vanadium (V)	2016/07/22		101	%	75 - 125
			Acid Extractable Zinc (Zn)	2016/07/22		113	%	75 - 125
4589661	BAN	Method Blank	Acid Extractable Aluminum (Al)	2016/07/22	<10		mg/kg	
			Acid Extractable Antimony (Sb)	2016/07/22	<2.0		mg/kg	

Maxxam Job #: B6F0237  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-00903-0-00-205  
Your P.O. #: A06016  
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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
				Acid Extractable Arsenic (As)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Barium (Ba)	2016/07/22	<5.0		mg/kg	
				Acid Extractable Beryllium (Be)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Bismuth (Bi)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Boron (B)	2016/07/22	<50		mg/kg	
				Acid Extractable Cadmium (Cd)	2016/07/22	<0.30		mg/kg	
				Acid Extractable Chromium (Cr)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Cobalt (Co)	2016/07/22	<1.0		mg/kg	
				Acid Extractable Copper (Cu)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Iron (Fe)	2016/07/22	<50		mg/kg	
				Acid Extractable Lead (Pb)	2016/07/22	<0.50		mg/kg	
				Acid Extractable Lithium (Li)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Manganese (Mn)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Mercury (Hg)	2016/07/22	<0.10		mg/kg	
				Acid Extractable Molybdenum (Mo)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Nickel (Ni)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Rubidium (Rb)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Selenium (Se)	2016/07/22	<1.0		mg/kg	
				Acid Extractable Silver (Ag)	2016/07/22	<0.50		mg/kg	
				Acid Extractable Strontium (Sr)	2016/07/22	<5.0		mg/kg	
				Acid Extractable Thallium (Tl)	2016/07/22	<0.10		mg/kg	
				Acid Extractable Tin (Sn)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Uranium (U)	2016/07/22	<0.10		mg/kg	
				Acid Extractable Vanadium (V)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Zinc (Zn)	2016/07/22	<5.0		mg/kg	
4589661	BAN	RPD [CSR357-01]		Acid Extractable Aluminum (Al)	2016/07/22	1.0		%	35
				Acid Extractable Antimony (Sb)	2016/07/22	NC		%	35
				Acid Extractable Arsenic (As)	2016/07/22	NC		%	35
				Acid Extractable Barium (Ba)	2016/07/22	NC		%	35
				Acid Extractable Beryllium (Be)	2016/07/22	NC		%	35
				Acid Extractable Bismuth (Bi)	2016/07/22	NC		%	35
				Acid Extractable Boron (B)	2016/07/22	NC		%	35
				Acid Extractable Cadmium (Cd)	2016/07/22	NC		%	35
				Acid Extractable Chromium (Cr)	2016/07/22	1.9		%	35
				Acid Extractable Cobalt (Co)	2016/07/22	1.6		%	35
				Acid Extractable Copper (Cu)	2016/07/22	NC		%	35
				Acid Extractable Iron (Fe)	2016/07/22	1.1		%	35
				Acid Extractable Lead (Pb)	2016/07/22	0.74		%	35
				Acid Extractable Lithium (Li)	2016/07/22	2.2		%	35
				Acid Extractable Manganese (Mn)	2016/07/22	0.52		%	35
				Acid Extractable Mercury (Hg)	2016/07/22	NC		%	35
				Acid Extractable Molybdenum (Mo)	2016/07/22	NC		%	35
				Acid Extractable Nickel (Ni)	2016/07/22	0.96		%	35
				Acid Extractable Rubidium (Rb)	2016/07/22	NC		%	35
				Acid Extractable Selenium (Se)	2016/07/22	NC		%	35
				Acid Extractable Silver (Ag)	2016/07/22	NC		%	35
				Acid Extractable Strontium (Sr)	2016/07/22	NC		%	35
				Acid Extractable Thallium (Tl)	2016/07/22	NC		%	35
				Acid Extractable Tin (Sn)	2016/07/22	NC		%	35
				Acid Extractable Uranium (U)	2016/07/22	NC		%	35
				Acid Extractable Vanadium (V)	2016/07/22	0.11		%	35

Maxxam Job #: B6F0237  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-00903-0-00-205  
Your P.O. #: A06016  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC			Date		Value	Recovery	UNITS	QC Limits
Batch	Init	QC Type	Parameter	Analyzed				
			Acid Extractable Zinc (Zn)	2016/07/22	6.0		%	35
Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.								
Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.								
Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.								
Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.								
NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).								
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).								

## CHAIN OF CUSTODY RECORD

Invoice Information				Report Information (If differs from Invoice)				Project Information (Where applicable)				Turnaround Time (TAT) Required	
Company Name: <b>#41009 Englobe Corp</b>		Contract Name: <b>Acct Pay</b>		Company Name: <b>SAVE</b>		Quotation #: <b>B63657</b>		Regular TAT (5 business days) Most analyses		Project ID: <b>P00903-0-00-205</b>		Regular TAT (5 business days) Most analyses	
Contact Name: <b>Acct Pay</b>		Address: <b>97 Troop Ave</b>		Contract Name: <b>Acct Pay</b>		Project ID: <b>P00903-0-00-205</b>		P.O. #/AFER		P.O. #/AFER		P.O. #/AFER	
Address: <b>Danbury, CT 06810</b>		Postal Code: <b>06810</b>		Address: <b>Acct Pay</b>		Project ID: <b>P00903-0-00-205</b>		Site Location		Site Location		Site Location	
Phone: <b>203 768 4919</b>		Fax: <b>203 768 4919</b>		Address: <b>Acct Pay</b>		Project ID: <b>P00903-0-00-205</b>		Postal Code:		Postal Code:		Postal Code:	
Email: <b>englobe@englobe.com</b>		Fax: <b>203 768 4919</b>		Address: <b>Acct Pay</b>		Project ID: <b>P00903-0-00-205</b>		Site Location		Site Location		Site Location	
<b>Company Name:</b> #41009 Englobe Corp <b>Contact Name:</b> Acct Pay <b>Address:</b> 97 Troop Ave, Danbury, CT 06810 <b>Phone:</b> 203 768 4919 <b>Email:</b> englobe@englobe.com				<b>Report Information (If differs from Invoice):</b> <b>Company Name:</b> SAVE <b>Contract Name:</b> Acct Pay <b>Address:</b> 97 Troop Ave, Danbury, CT 06810 <b>Phone:</b> 203 768 4919 <b>Email:</b> englobe@englobe.com				<b>Project Information (Where applicable):</b> <b>Quotation #:</b> B63657 <b>Project ID:</b> P00903-0-00-205 <b>Site Location:</b> LL <b>Sampled By:</b> LL				<b>Turnaround Time (TAT) Required:</b> <input checked="" type="checkbox"/> Regular TAT (5 business days) Most analyses <input type="checkbox"/> RUSH please specify date (Surcharges will be applied)	
<b>Company Name:</b> #41009 Englobe Corp <b>Contact Name:</b> Acct Pay <b>Address:</b> 97 Troop Ave, Danbury, CT 06810 <b>Phone:</b> 203 768 4919 <b>Email:</b> englobe@englobe.com				<b>Report Information (If differs from Invoice):</b> <b>Company Name:</b> SAVE <b>Contract Name:</b> Acct Pay <b>Address:</b> 97 Troop Ave, Danbury, CT 06810 <b>Phone:</b> 203 768 4919 <b>Email:</b> englobe@englobe.com				<b>Project Information (Where applicable):</b> <b>Quotation #:</b> B63657 <b>Project ID:</b> P00903-0-00-205 <b>Site Location:</b> LL <b>Sampled By:</b> LL				<b>Turnaround Time (TAT) Required:</b> <input checked="" type="checkbox"/> Regular TAT (5 business days) Most analyses <input type="checkbox"/> RUSH please specify date (Surcharges will be applied)	
<b>Company Name:</b> #41009 Englobe Corp <b>Contact Name:</b> Acct Pay <b>Address:</b> 97 Troop Ave, Danbury, CT 06810 <b>Phone:</b> 203 768 4919 <b>Email:</b> englobe@englobe.com				<b>Report Information (If differs from Invoice):</b> <b>Company Name:</b> SAVE <b>Contract Name:</b> Acct Pay <b>Address:</b> 97 Troop Ave, Danbury, CT 06810 <b>Phone:</b> 203 768 4919 <b>Email:</b> englobe@englobe.com				<b>Project Information (Where applicable):</b> <b>Quotation #:</b> B63657 <b>Project ID:</b> P00903-0-00-205 <b>Site Location:</b> LL <b>Sampled By:</b> LL				<b>Turnaround Time (TAT) Required:</b> <input checked="" type="checkbox"/> Regular TAT (5 business days) Most analyses <input type="checkbox"/> RUSH please specify date (Surcharges will be applied)	

White: Maxxam

Pink: Client



Your P.O. #: A06016  
Your Project #: P-00903-0-00-205  
Your C.O.C. #: D 11595

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

**Report Date: 2016/07/29**

Report #: R4085911

Version: 2 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B6F0237**

**Received: 2016/07/18, 15:25**

Sample Matrix: SEDIMENT  
# Samples Received: 6

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Metals Solids Acid Extr. ICPMS	6	2016/07/22	2016/07/22	ATL SOP 00058	EPA 6020A R1 m
Particle size in solids (pipette&sieve) (1)	3	N/A	2016/07/28	ATL SOP 00012	MSAMS 1978 m
Particle size in solids (pipette&sieve) (1)	3	N/A	2016/07/29	ATL SOP 00012	MSAMS 1978 m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Note: Graphical representation of larger fractions (PHI-4, PHI -3 and PHI -2) not applicable unless these optional parameters are specifically requested.

Encryption Key



Maxxam  
29 Jul 2016 10:41:02 -03:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Avery Withrow, Project Manager

Email: AWithrow@maxxam.ca

Phone# (902)420-0203 Ext:233

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B6F0237  
Report Date: 2016/07/29

Englobe Corp.  
Client Project #: P-00903-0-00-205  
Your P.O. #: A06016  
Sampler Initials: LL

### RESULTS OF ANALYSES OF SEDIMENT

Maxxam ID		CSR357	CSR357		CSR358	CSR359	CSR360			
Sampling Date		2016/07/15 13:30	2016/07/15 13:30		2016/07/14 10:35	2016/07/15 10:45	2016/07/15 14:00			
COC Number		D 11595	D 11595		D 11595	D 11595	D 11595			
	UNITS	SW1	SW1 Lab-Dup	QC Batch	SW2	SW3	SW12	RDL	QC Batch	MDL
<b>Inorganics</b>										
< -1 Phi (2 mm)	%	100	100	4589403	96	97	94	0.10	4589400	N/A
< 0 Phi (1 mm)	%	97	96	4589403	85	87	84	0.10	4589400	N/A
< +1 Phi (0.5 mm)	%	94	93	4589403	78	78	73	0.10	4589400	N/A
< +2 Phi (0.25 mm)	%	92	90	4589403	73	71	67	0.10	4589400	N/A
< +3 Phi (0.12 mm)	%	85	84	4589403	70	59	63	0.10	4589400	N/A
< +4 Phi (0.062 mm)	%	77	76	4589403	69	47	61	0.10	4589400	N/A
< +5 Phi (0.031 mm)	%	76	74	4589403	67	39	61	0.10	4589400	N/A
< +6 Phi (0.016 mm)	%	57	55	4589403	66	24	59	0.10	4589400	N/A
< +7 Phi (0.0078 mm)	%	27	23	4589403	54	13	56	0.10	4589400	N/A
< +8 Phi (0.0039 mm)	%	18	19	4589403	50	10	53	0.10	4589400	N/A
< +9 Phi (0.0020 mm)	%	11	12	4589403	44	5.5	55	0.10	4589400	N/A
Gravel	%	<0.10	0.20	4589403	3.9	3.4	6.0	0.10	4589400	N/A
Sand	%	23	24	4589403	28	50	33	0.10	4589400	N/A
Silt	%	60	57	4589403	18	36	8.0	0.10	4589400	N/A
Clay	%	18	19	4589403	50	10	53	0.10	4589400	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable										



Maxxam Job #: B6F0237  
Report Date: 2016/07/29

Englobe Corp.  
Client Project #: P-00903-0-00-205  
Your P.O. #: A06016  
Sampler Initials: LL

### RESULTS OF ANALYSES OF SEDIMENT

Maxxam ID		CSR361	CSR362			
Sampling Date		2016/07/15 11:50	2016/07/14 17:30			
COC Number		D 11595	D 11595			
	UNITS	SW14	BACK2	RDL	QC Batch	MDL
<b>Inorganics</b>						
< -1 Phi (2 mm)	%	95	71	0.10	4589403	N/A
< 0 Phi (1 mm)	%	88	45	0.10	4589403	N/A
< +1 Phi (0.5 mm)	%	81	25	0.10	4589403	N/A
< +2 Phi (0.25 mm)	%	71	14	0.10	4589403	N/A
< +3 Phi (0.12 mm)	%	62	9.6	0.10	4589403	N/A
< +4 Phi (0.062 mm)	%	52	5.7	0.10	4589403	N/A
< +5 Phi (0.031 mm)	%	49	5.3	0.10	4589403	N/A
< +6 Phi (0.016 mm)	%	31	3.5	0.10	4589403	N/A
< +7 Phi (0.0078 mm)	%	11	2.0	0.10	4589403	N/A
< +8 Phi (0.0039 mm)	%	8.2	1.6	0.10	4589403	N/A
< +9 Phi (0.0020 mm)	%	4.6	1.1	0.10	4589403	N/A
Gravel	%	5.4	29	0.10	4589403	N/A
Sand	%	42	65	0.10	4589403	N/A
Silt	%	44	4.1	0.10	4589403	N/A
Clay	%	8.2	1.6	0.10	4589403	N/A
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						
N/A = Not Applicable						

Maxxam Job #: B6F0237  
Report Date: 2016/07/29

Englobe Corp.  
Client Project #: P-00903-0-00-205  
Your P.O. #: A06016  
Sampler Initials: LL

### ELEMENTS BY ATOMIC SPECTROSCOPY (SEDIMENT)

Maxxam ID		CSR357	CSR357	CSR358	CSR359	CSR360	CSR361			
Sampling Date		2016/07/15 13:30	2016/07/15 13:30	2016/07/14 10:35	2016/07/15 10:45	2016/07/15 14:00	2016/07/15 11:50			
COC Number		D 11595	D 11595	D 11595	D 11595	D 11595	D 11595			
	UNITS	SW1	SW1 Lab-Dup	SW2	SW3	SW12	SW14	RDL	QC Batch	MDL

Metals										
Acid Extractable Aluminum (Al)	mg/kg	12000	12000	2800	5300	6600	13000	10	4589661	N/A
Acid Extractable Antimony (Sb)	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4589661	N/A
Acid Extractable Arsenic (As)	mg/kg	2.7	2.8	4.0	8.0	2.5	21	2.0	4589661	N/A
Acid Extractable Barium (Ba)	mg/kg	15	15	21	33	44	19	5.0	4589661	N/A
Acid Extractable Beryllium (Be)	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4589661	N/A
Acid Extractable Bismuth (Bi)	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4589661	N/A
Acid Extractable Boron (B)	mg/kg	<50	<50	<50	<50	<50	<50	50	4589661	N/A
Acid Extractable Cadmium (Cd)	mg/kg	<0.30	<0.30	<0.30	<0.30	0.52	<0.30	0.30	4589661	N/A
Acid Extractable Chromium (Cr)	mg/kg	26	27	3.2	9.5	7.0	25	2.0	4589661	N/A
Acid Extractable Cobalt (Co)	mg/kg	9.1	9.0	1.5	4.4	2.9	24	1.0	4589661	N/A
Acid Extractable Copper (Cu)	mg/kg	5.8	6.2	5.9	6.4	14	6.5	2.0	4589661	N/A
Acid Extractable Iron (Fe)	mg/kg	19000	19000	3000	16000	7900	31000	50	4589661	N/A
Acid Extractable Lead (Pb)	mg/kg	13	13	20	13	41	26	0.50	4589661	N/A
Acid Extractable Lithium (Li)	mg/kg	27	28	<2.0	7.3	<2.0	25	2.0	4589661	N/A
Acid Extractable Manganese (Mn)	mg/kg	370	370	68	400	66	1100	2.0	4589661	N/A
Acid Extractable Mercury (Hg)	mg/kg	0.10	<0.10	0.24	0.12	0.34	<0.10	0.10	4589661	N/A
Acid Extractable Molybdenum (Mo)	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4589661	N/A
Acid Extractable Nickel (Ni)	mg/kg	24	24	4.1	7.8	10	21	2.0	4589661	N/A
Acid Extractable Rubidium (Rb)	mg/kg	6.4	6.2	2.3	6.5	2.6	5.4	2.0	4589661	N/A
Acid Extractable Selenium (Se)	mg/kg	<1.0	<1.0	<1.0	<1.0	1.1	1.2	1.0	4589661	N/A
Acid Extractable Silver (Ag)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	4589661	N/A
Acid Extractable Strontium (Sr)	mg/kg	7.8	8.2	23	20	24	11	5.0	4589661	N/A
Acid Extractable Thallium (Tl)	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	4589661	N/A
Acid Extractable Tin (Sn)	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4589661	N/A
Acid Extractable Uranium (U)	mg/kg	0.40	0.38	0.26	0.48	0.67	0.62	0.10	4589661	N/A
Acid Extractable Vanadium (V)	mg/kg	17	17	3.5	9.1	11	37	2.0	4589661	N/A
Acid Extractable Zinc (Zn)	mg/kg	49	52	17	38	25	52	5.0	4589661	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable

Maxxam Job #: B6F0237  
Report Date: 2016/07/29

Englobe Corp.  
Client Project #: P-00903-0-00-205  
Your P.O. #: A06016  
Sampler Initials: LL

### ELEMENTS BY ATOMIC SPECTROSCOPY (SEDIMENT)

<b>Maxxam ID</b>		CSR362			
<b>Sampling Date</b>		2016/07/14 17:30			
<b>COC Number</b>		D 11595			
	<b>UNITS</b>	<b>BACK2</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Metals</b>					
Acid Extractable Aluminum (Al)	mg/kg	10000	10	4589661	N/A
Acid Extractable Antimony (Sb)	mg/kg	<2.0	2.0	4589661	N/A
Acid Extractable Arsenic (As)	mg/kg	21	2.0	4589661	N/A
Acid Extractable Barium (Ba)	mg/kg	55	5.0	4589661	N/A
Acid Extractable Beryllium (Be)	mg/kg	<2.0	2.0	4589661	N/A
Acid Extractable Bismuth (Bi)	mg/kg	<2.0	2.0	4589661	N/A
Acid Extractable Boron (B)	mg/kg	<50	50	4589661	N/A
Acid Extractable Cadmium (Cd)	mg/kg	<0.30	0.30	4589661	N/A
Acid Extractable Chromium (Cr)	mg/kg	23	2.0	4589661	N/A
Acid Extractable Cobalt (Co)	mg/kg	9.6	1.0	4589661	N/A
Acid Extractable Copper (Cu)	mg/kg	8.6	2.0	4589661	N/A
Acid Extractable Iron (Fe)	mg/kg	36000	50	4589661	N/A
Acid Extractable Lead (Pb)	mg/kg	10	0.50	4589661	N/A
Acid Extractable Lithium (Li)	mg/kg	35	2.0	4589661	N/A
Acid Extractable Manganese (Mn)	mg/kg	270	2.0	4589661	N/A
Acid Extractable Mercury (Hg)	mg/kg	<0.10	0.10	4589661	N/A
Acid Extractable Molybdenum (Mo)	mg/kg	2.2	2.0	4589661	N/A
Acid Extractable Nickel (Ni)	mg/kg	12	2.0	4589661	N/A
Acid Extractable Rubidium (Rb)	mg/kg	27	2.0	4589661	N/A
Acid Extractable Selenium (Se)	mg/kg	<1.0	1.0	4589661	N/A
Acid Extractable Silver (Ag)	mg/kg	<0.50	0.50	4589661	N/A
Acid Extractable Strontium (Sr)	mg/kg	5.6	5.0	4589661	N/A
Acid Extractable Thallium (Tl)	mg/kg	0.14	0.10	4589661	N/A
Acid Extractable Tin (Sn)	mg/kg	<2.0	2.0	4589661	N/A
Acid Extractable Uranium (U)	mg/kg	0.69	0.10	4589661	N/A
Acid Extractable Vanadium (V)	mg/kg	47	2.0	4589661	N/A
Acid Extractable Zinc (Zn)	mg/kg	39	5.0	4589661	N/A
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
N/A = Not Applicable					

Maxxam Job #: B6F0237  
Report Date: 2016/07/29

Englobe Corp.  
Client Project #: P-00903-0-00-205  
Your P.O. #: A06016  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** CSR357  
**Sample ID:** SW1  
**Matrix:** SEDIMENT

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Solids Acid Extr. ICPMS	ICP/MS	4589661	2016/07/22	2016/07/22	Bryon Angevine
Particle size in solids (pipette&sieve)	PSIV	4589403	N/A	2016/07/29	Amber Davison

**Maxxam ID:** CSR357 Dup  
**Sample ID:** SW1  
**Matrix:** SEDIMENT

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Solids Acid Extr. ICPMS	ICP/MS	4589661	2016/07/22	2016/07/22	Bryon Angevine
Particle size in solids (pipette&sieve)	PSIV	4589403	N/A	2016/07/29	Amber Davison

**Maxxam ID:** CSR358  
**Sample ID:** SW2  
**Matrix:** SEDIMENT

**Collected:** 2016/07/14  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Solids Acid Extr. ICPMS	ICP/MS	4589661	2016/07/22	2016/07/22	Bryon Angevine
Particle size in solids (pipette&sieve)	PSIV	4589400	N/A	2016/07/28	Amber Davison

**Maxxam ID:** CSR359  
**Sample ID:** SW3  
**Matrix:** SEDIMENT

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Solids Acid Extr. ICPMS	ICP/MS	4589661	2016/07/22	2016/07/22	Bryon Angevine
Particle size in solids (pipette&sieve)	PSIV	4589400	N/A	2016/07/28	Amber Davison

**Maxxam ID:** CSR360  
**Sample ID:** SW12  
**Matrix:** SEDIMENT

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Solids Acid Extr. ICPMS	ICP/MS	4589661	2016/07/22	2016/07/22	Bryon Angevine
Particle size in solids (pipette&sieve)	PSIV	4589400	N/A	2016/07/28	Amber Davison

**Maxxam ID:** CSR361  
**Sample ID:** SW14  
**Matrix:** SEDIMENT

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Solids Acid Extr. ICPMS	ICP/MS	4589661	2016/07/22	2016/07/22	Bryon Angevine
Particle size in solids (pipette&sieve)	PSIV	4589403	N/A	2016/07/29	Amber Davison

Maxxam Job #: B6F0237  
Report Date: 2016/07/29

Englobe Corp.  
Client Project #: P-00903-0-00-205  
Your P.O. #: A06016  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** CSR362  
**Sample ID:** BACK2  
**Matrix:** SEDIMENT

**Collected:** 2016/07/14  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Solids Acid Extr. ICPMS	ICP/MS	4589661	2016/07/22	2016/07/22	Bryon Angevine
Particle size in solids (pipette&sieve)	PSIV	4589403	N/A	2016/07/29	Amber Davison

Maxxam Job #: B6F0237  
Report Date: 2016/07/29

Englobe Corp.  
Client Project #: P-00903-0-00-205  
Your P.O. #: A06016  
Sampler Initials: LL

### GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.3°C
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**Results relate only to the items tested.**

Maxxam Job #: B6F0237  
Report Date: 2016/07/29

Englobe Corp.  
Client Project #: P-00903-0-00-205  
Your P.O. #: A06016  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4589400	AD8	RPD - Sample/Sample Dup	Gravel		2016/07/28	NC		%	35
			Sand		2016/07/28	0.25		%	35
			Silt		2016/07/28	NC (1)		%	35
			Clay		2016/07/28	84 (1)		%	35
4589403	AD8	RPD - Sample/Sample Dup	Gravel		2016/07/29	NC		%	35
			Sand		2016/07/29	5.0		%	35
			Silt		2016/07/29	3.5		%	35
			Clay		2016/07/29	4.1		%	35
4589661	BAN	Matrix Spike(CSR357)	Acid Extractable Antimony (Sb)		2016/07/22		101	%	75 - 125
			Acid Extractable Arsenic (As)		2016/07/22		103	%	75 - 125
			Acid Extractable Barium (Ba)		2016/07/22		117	%	75 - 125
			Acid Extractable Beryllium (Be)		2016/07/22		113	%	75 - 125
			Acid Extractable Bismuth (Bi)		2016/07/22		107	%	75 - 125
			Acid Extractable Boron (B)		2016/07/22		100	%	75 - 125
			Acid Extractable Cadmium (Cd)		2016/07/22		110	%	75 - 125
			Acid Extractable Chromium (Cr)		2016/07/22		NC	%	75 - 125
			Acid Extractable Cobalt (Co)		2016/07/22		107	%	75 - 125
			Acid Extractable Copper (Cu)		2016/07/22		108	%	75 - 125
			Acid Extractable Lead (Pb)		2016/07/22		107	%	75 - 125
			Acid Extractable Lithium (Li)		2016/07/22		NC	%	75 - 125
			Acid Extractable Manganese (Mn)		2016/07/22		NC	%	75 - 125
			Acid Extractable Mercury (Hg)		2016/07/22		100	%	75 - 125
			Acid Extractable Molybdenum (Mo)		2016/07/22		109	%	75 - 125
			Acid Extractable Nickel (Ni)		2016/07/22		111	%	75 - 125
			Acid Extractable Rubidium (Rb)		2016/07/22		103	%	75 - 125
			Acid Extractable Selenium (Se)		2016/07/22		103	%	75 - 125
			Acid Extractable Silver (Ag)		2016/07/22		103	%	75 - 125
			Acid Extractable Strontium (Sr)		2016/07/22		112	%	75 - 125
			Acid Extractable Thallium (Tl)		2016/07/22		108	%	75 - 125
			Acid Extractable Tin (Sn)		2016/07/22		109	%	75 - 125
			Acid Extractable Uranium (U)		2016/07/22		108	%	75 - 125
			Acid Extractable Vanadium (V)		2016/07/22		109	%	75 - 125
			Acid Extractable Zinc (Zn)		2016/07/22		NC	%	75 - 125
4589661	BAN	Spiked Blank	Acid Extractable Antimony (Sb)		2016/07/22		100	%	75 - 125
			Acid Extractable Arsenic (As)		2016/07/22		101	%	75 - 125
			Acid Extractable Barium (Ba)		2016/07/22		107	%	75 - 125
			Acid Extractable Beryllium (Be)		2016/07/22		109	%	75 - 125
			Acid Extractable Bismuth (Bi)		2016/07/22		102	%	75 - 125
			Acid Extractable Boron (B)		2016/07/22		105	%	75 - 125
			Acid Extractable Cadmium (Cd)		2016/07/22		105	%	75 - 125
			Acid Extractable Chromium (Cr)		2016/07/22		103	%	75 - 125
			Acid Extractable Cobalt (Co)		2016/07/22		103	%	75 - 125
			Acid Extractable Copper (Cu)		2016/07/22		102	%	75 - 125
			Acid Extractable Lead (Pb)		2016/07/22		103	%	75 - 125
			Acid Extractable Lithium (Li)		2016/07/22		101	%	75 - 125
			Acid Extractable Manganese (Mn)		2016/07/22		102	%	75 - 125
			Acid Extractable Mercury (Hg)		2016/07/22		102	%	75 - 125
			Acid Extractable Molybdenum (Mo)		2016/07/22		104	%	75 - 125
			Acid Extractable Nickel (Ni)		2016/07/22		103	%	75 - 125
			Acid Extractable Rubidium (Rb)		2016/07/22		100	%	75 - 125
			Acid Extractable Selenium (Se)		2016/07/22		102	%	75 - 125
			Acid Extractable Silver (Ag)		2016/07/22		98	%	75 - 125



Maxxam Job #: B6F0237  
Report Date: 2016/07/29

Englobe Corp.  
Client Project #: P-00903-0-00-205  
Your P.O. #: A06016  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4589661	BAN	Method Blank		Acid Extractable Strontium (Sr)	2016/07/22		102	%	75 - 125
				Acid Extractable Thallium (Tl)	2016/07/22		106	%	75 - 125
				Acid Extractable Tin (Sn)	2016/07/22		105	%	75 - 125
				Acid Extractable Uranium (U)	2016/07/22		104	%	75 - 125
				Acid Extractable Vanadium (V)	2016/07/22		101	%	75 - 125
				Acid Extractable Zinc (Zn)	2016/07/22		113	%	75 - 125
				Acid Extractable Aluminum (Al)	2016/07/22	<10		mg/kg	
				Acid Extractable Antimony (Sb)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Arsenic (As)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Barium (Ba)	2016/07/22	<5.0		mg/kg	
				Acid Extractable Beryllium (Be)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Bismuth (Bi)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Boron (B)	2016/07/22	<50		mg/kg	
				Acid Extractable Cadmium (Cd)	2016/07/22	<0.30		mg/kg	
				Acid Extractable Chromium (Cr)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Cobalt (Co)	2016/07/22	<1.0		mg/kg	
				Acid Extractable Copper (Cu)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Iron (Fe)	2016/07/22	<50		mg/kg	
				Acid Extractable Lead (Pb)	2016/07/22	<0.50		mg/kg	
				Acid Extractable Lithium (Li)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Manganese (Mn)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Mercury (Hg)	2016/07/22	<0.10		mg/kg	
				Acid Extractable Molybdenum (Mo)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Nickel (Ni)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Rubidium (Rb)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Selenium (Se)	2016/07/22	<1.0		mg/kg	
				Acid Extractable Silver (Ag)	2016/07/22	<0.50		mg/kg	
				Acid Extractable Strontium (Sr)	2016/07/22	<5.0		mg/kg	
				Acid Extractable Thallium (Tl)	2016/07/22	<0.10		mg/kg	
				Acid Extractable Tin (Sn)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Uranium (U)	2016/07/22	<0.10		mg/kg	
				Acid Extractable Vanadium (V)	2016/07/22	<2.0		mg/kg	
				Acid Extractable Zinc (Zn)	2016/07/22	<5.0		mg/kg	
4589661	BAN	RPD - Sample/Sample Dup		Acid Extractable Aluminum (Al)	2016/07/22	1.0		%	35
				Acid Extractable Antimony (Sb)	2016/07/22	NC		%	35
				Acid Extractable Arsenic (As)	2016/07/22	NC		%	35
				Acid Extractable Barium (Ba)	2016/07/22	NC		%	35
				Acid Extractable Beryllium (Be)	2016/07/22	NC		%	35
				Acid Extractable Bismuth (Bi)	2016/07/22	NC		%	35
				Acid Extractable Boron (B)	2016/07/22	NC		%	35
				Acid Extractable Cadmium (Cd)	2016/07/22	NC		%	35
				Acid Extractable Chromium (Cr)	2016/07/22	1.9		%	35
				Acid Extractable Cobalt (Co)	2016/07/22	1.6		%	35
				Acid Extractable Copper (Cu)	2016/07/22	NC		%	35
				Acid Extractable Iron (Fe)	2016/07/22	1.1		%	35
				Acid Extractable Lead (Pb)	2016/07/22	0.74		%	35
				Acid Extractable Lithium (Li)	2016/07/22	2.2		%	35
				Acid Extractable Manganese (Mn)	2016/07/22	0.52		%	35
				Acid Extractable Mercury (Hg)	2016/07/22	NC		%	35
				Acid Extractable Molybdenum (Mo)	2016/07/22	NC		%	35
				Acid Extractable Nickel (Ni)	2016/07/22	0.96		%	35
				Acid Extractable Rubidium (Rb)	2016/07/22	NC		%	35

Maxxam Job #: B6F0237  
Report Date: 2016/07/29

Englobe Corp.  
Client Project #: P-00903-0-00-205  
Your P.O. #: A06016  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

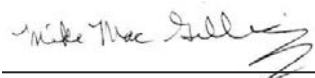
QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Acid Extractable Selenium (Se)	2016/07/22	NC		%	35
			Acid Extractable Silver (Ag)	2016/07/22	NC		%	35
			Acid Extractable Strontium (Sr)	2016/07/22	NC		%	35
			Acid Extractable Thallium (Tl)	2016/07/22	NC		%	35
			Acid Extractable Tin (Sn)	2016/07/22	NC		%	35
			Acid Extractable Uranium (U)	2016/07/22	NC		%	35
			Acid Extractable Vanadium (V)	2016/07/22	0.11		%	35
			Acid Extractable Zinc (Zn)	2016/07/22	6.0		%	35
<p>Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.</p> <p>Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.</p> <p>Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.</p> <p>NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).</p> <p>NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples &lt; 5x RDL).</p> <p>(1) %RPD acceptable. Duplicate values agree within 10% absolute.</p>								

Maxxam Job #: B6F0237  
Report Date: 2016/07/29

Englobe Corp.  
Client Project #: P-00903-0-00-205  
Your P.O. #: A06016  
Sampler Initials: LL

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Mike MacGillivray, Scientific Specialist (Inorganics)

---

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

## CHAIN OF CUSTODY RECORD

Invoice Information				Report Information (If differs from Invoice)				Project Information (Where applicable)				Turnaround Time (TAT) Required			
Company Name: <b>#41009 Englobe Corp</b>		Company Name: <b>SAVE</b>		Quotation #: <b>B63657</b>		Regular TAT (5 business days) Most analyses		Contact Name: <b>Aven Cole / Lisa L</b>		P.O. # / A/E/R: <b>AC60D16</b>		PLS ADVISE ADVANCE NOTICE FOR RUSH PROJECTS		F RUSH please specify date (Surcharges will be applied)	
Contact Name: <b>Act Pay</b>		Contract Name: <b>97 Troop Ave</b>		Address: <b>Danbury, CT 06810</b>		Project ID: <b>P00903-0-00-205</b>		Site Location: <b>LL</b>		Date Required:		Date Required:		Rush Confirmation #	
Address: <b>97 Troop Ave</b>		Postal Code: <b>06810</b>		Phone: <b>903 468 4919</b>		Fax: <b></b>		Site #:		Sampled By:		Regulatory Requirements		Comments	
Phone: <b>903 468 4919</b>		Email: <b></b>		Integrity: <b>Integrity Checklist Box</b>		Integrity: <b>Integrity Checklist Box</b>		Metals (Water)		Metals (Soil)		PCBs		PCBs	
Email: <b></b>		Average Temp:		Time Sampled (HH:MM)		Time Sampled (HH:MM)		PCBs		PCBs		PCBs		PCBs	
Cooler Temperatures:		Average Temp:		Time Sampled (HH:MM)		Time Sampled (HH:MM)		PCBs		PCBs		PCBs		PCBs	
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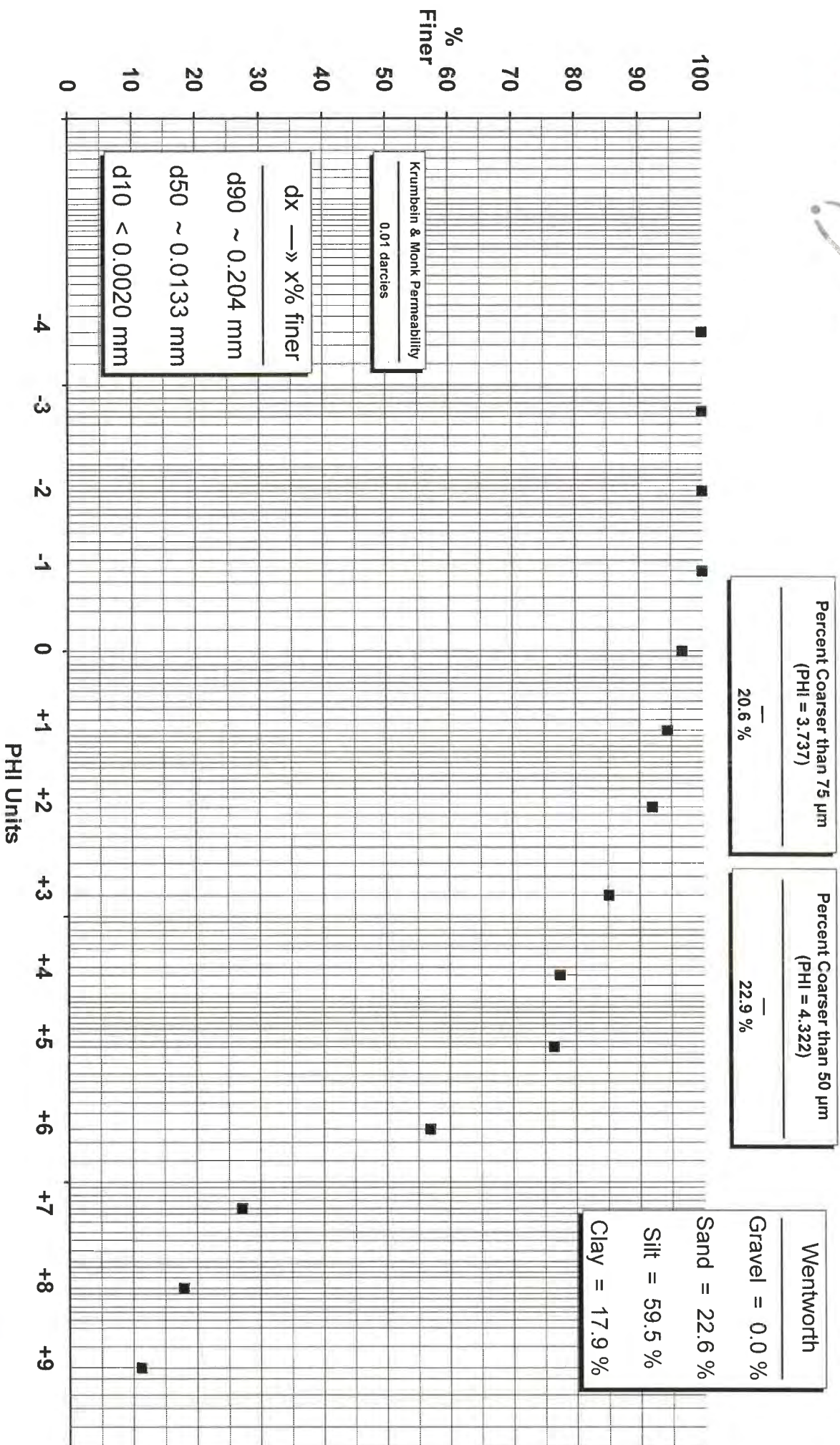
Pink: Client





Maxxam ID: CSR357-02

SW1



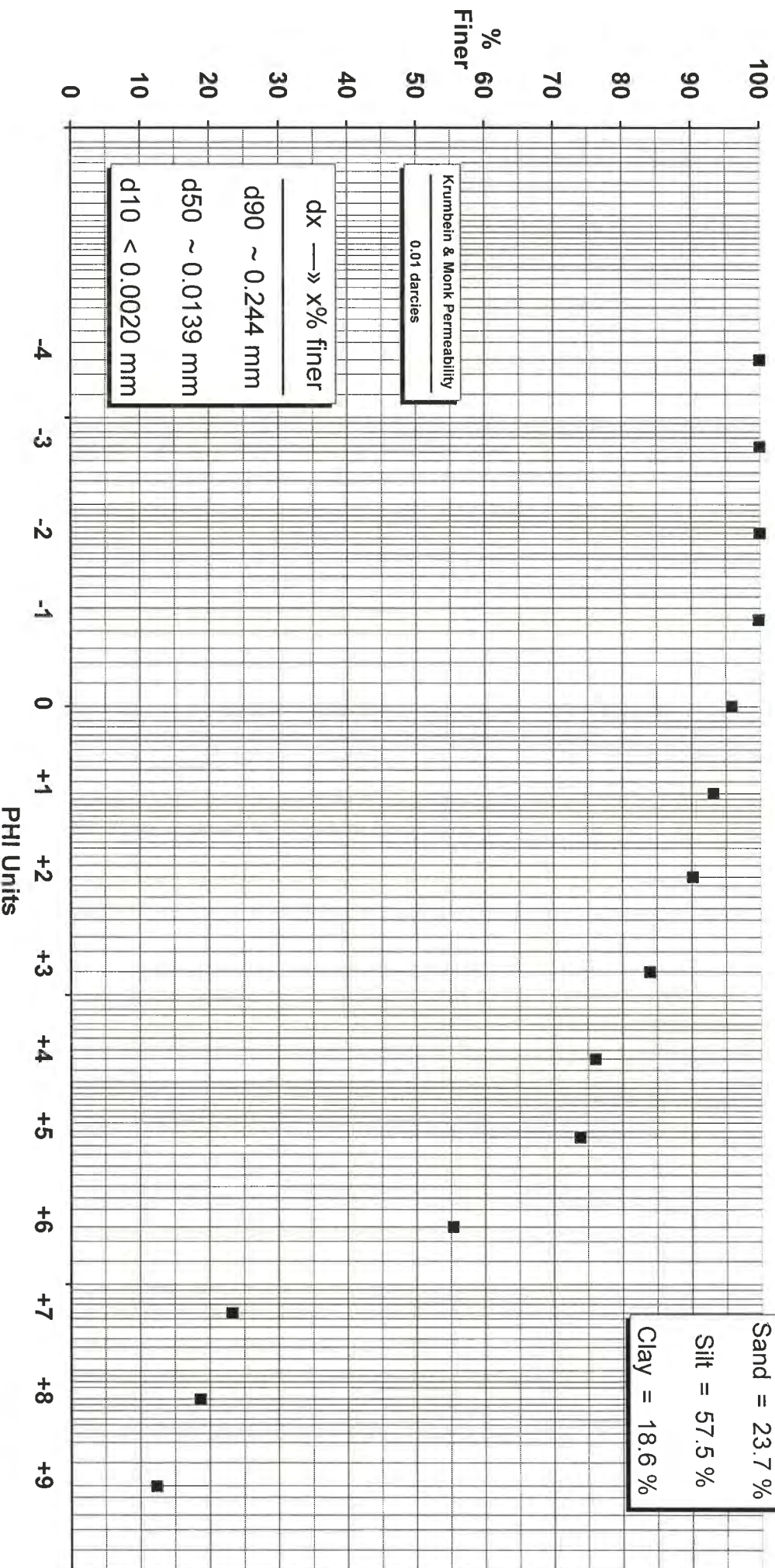
Approved

Approved

# Maxxam

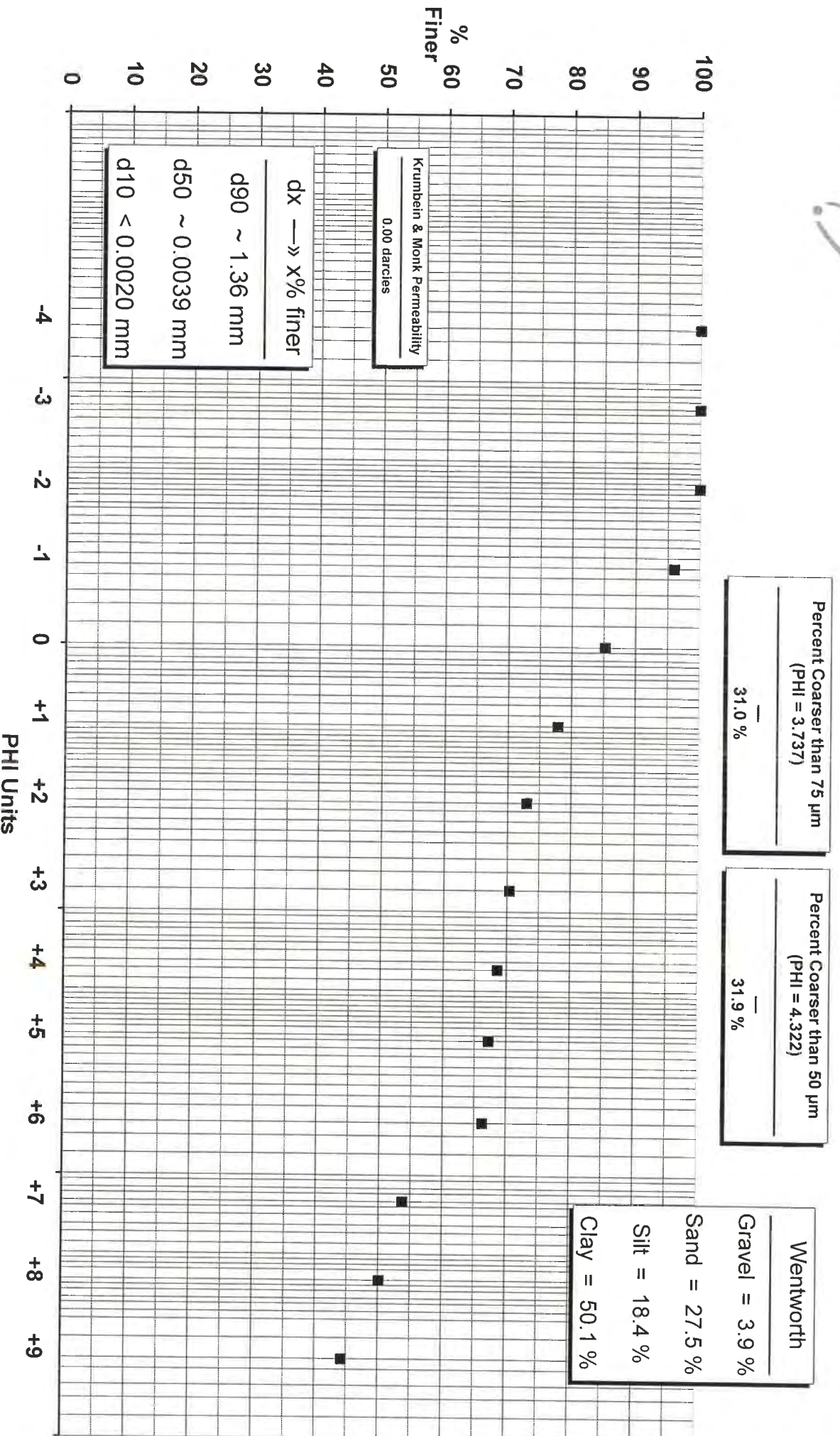
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Maxxam ID: CSR357-  
02:D1



Approved

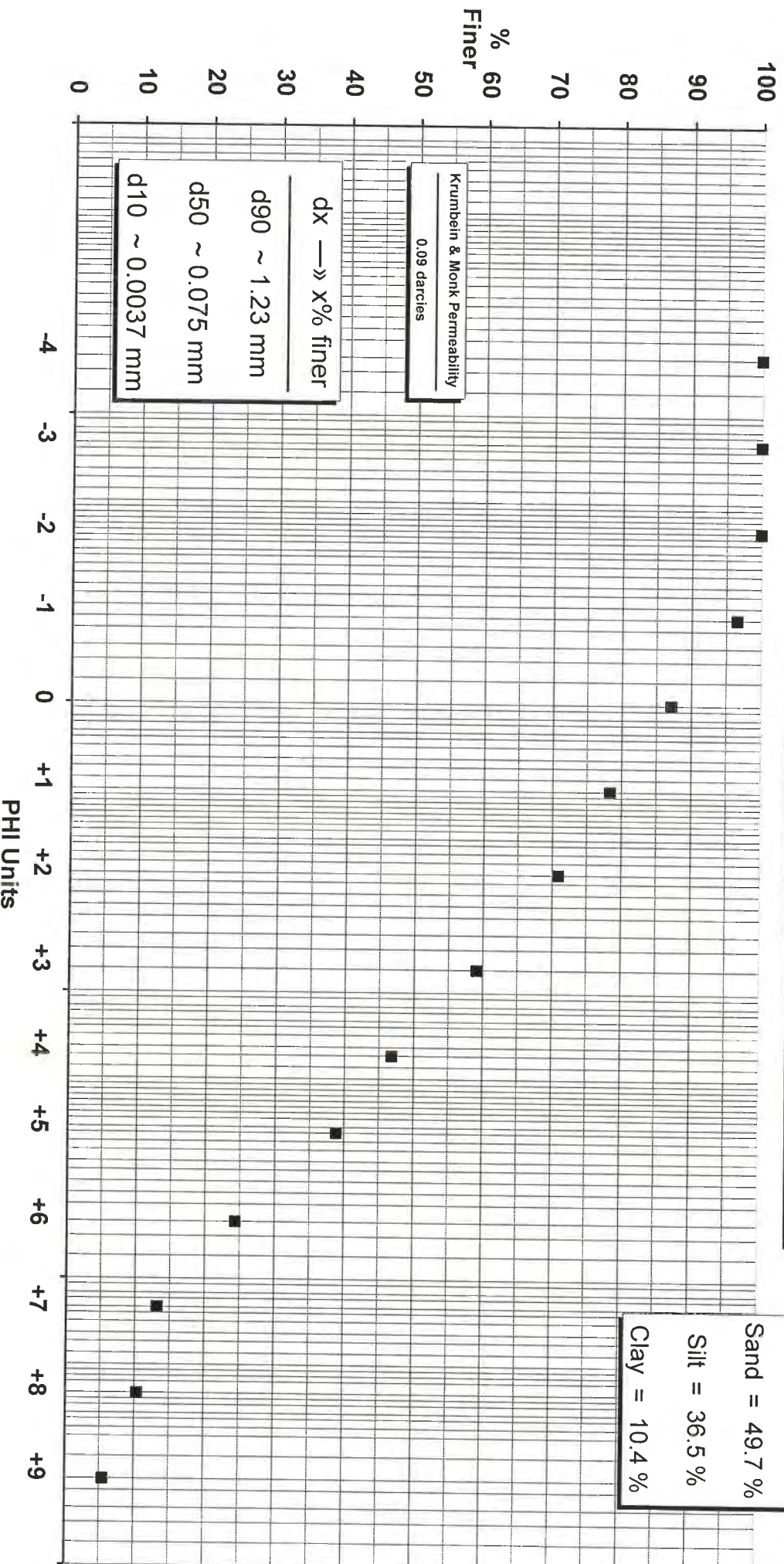




Approved

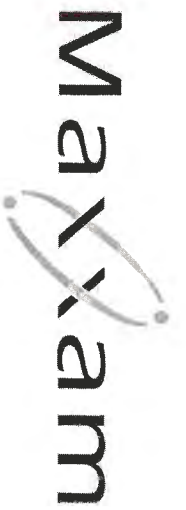


## SW3



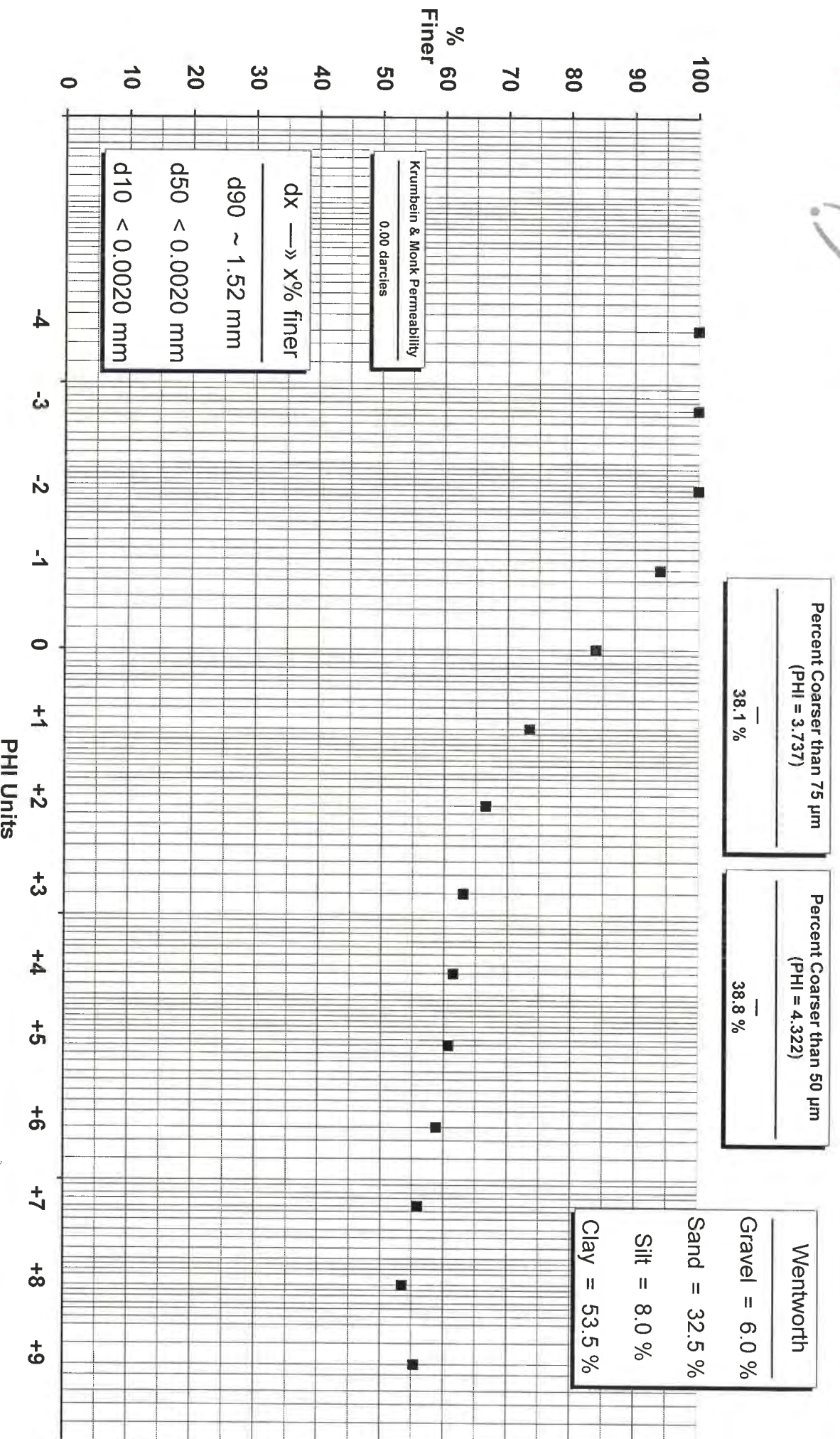
Approved

*John G.*  
Approved



SW12

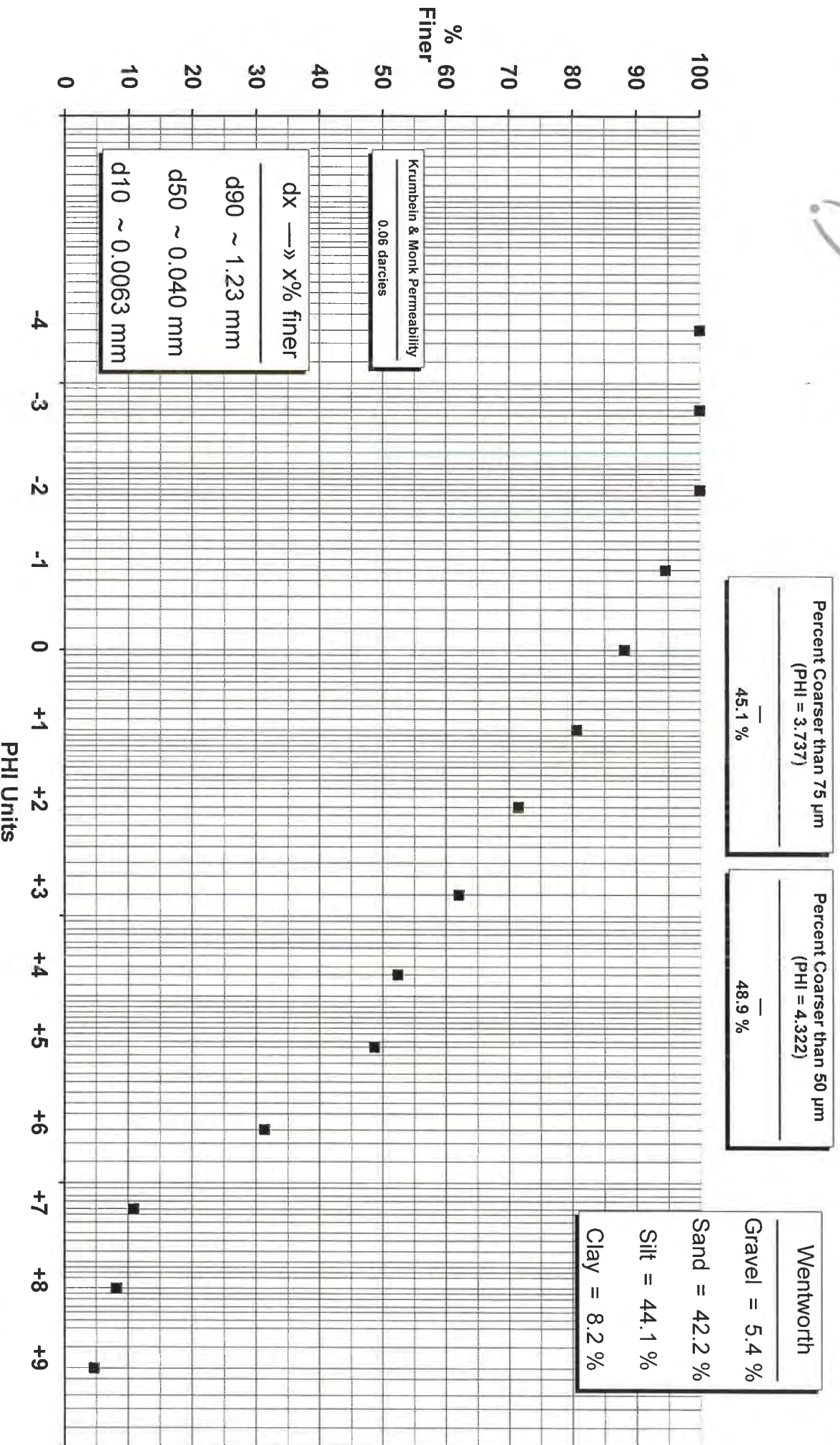
Maxxam ID: CSR360-02



Approved



## SW14



Approved

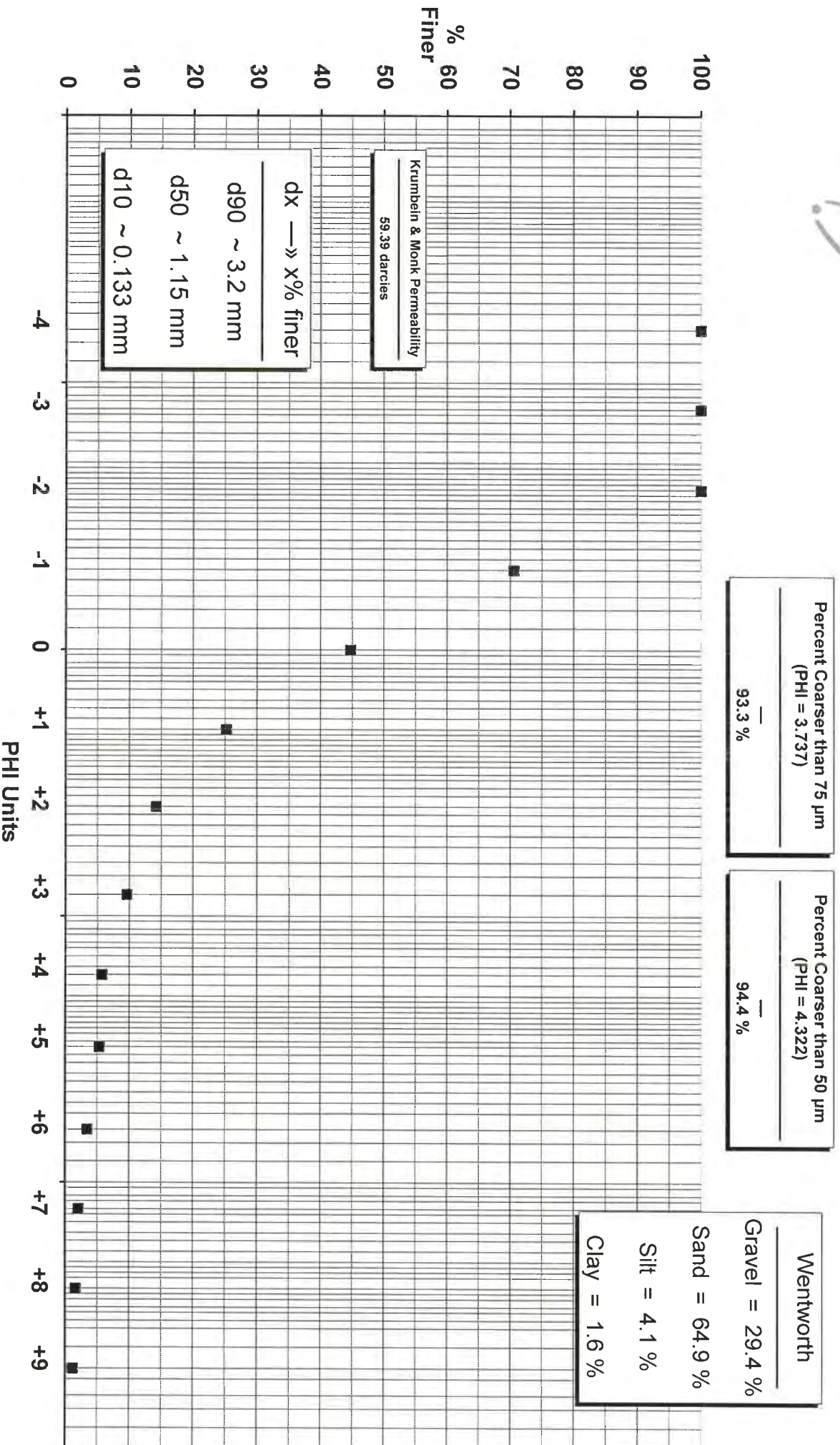
Approved

*WML*

# Maxxam

Maxxam ID: CSR362-02

## BACK2



Approved:

Approved:



Your P.O. #: A06016  
Your Project #: P-0010903  
Site Location: LAKE GEORGE  
Your C.O.C. #: 568672-01-01, 568672-02-01

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

**Report Date: 2016/07/26**

Report #: R4082566

Version: 1 - Final

## CERTIFICATE OF ANALYSIS

**MAXXAM JOB #: B6F0322**

**Received: 2016/07/18, 15:31**

Sample Matrix: Water  
# Samples Received: 17

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Carbonate, Bicarbonate and Hydroxide	17	N/A	2016/07/22	N/A	SM 22 4500-CO2 D
Alkalinity	6	N/A	2016/07/25	ATL SOP 00013	EPA 310.2 R1974 m
Alkalinity	11	N/A	2016/07/26	ATL SOP 00013	EPA 310.2 R1974 m
Chloride	17	N/A	2016/07/26	ATL SOP 00014	SM 22 4500-Cl- E m
Colour	17	N/A	2016/07/25	ATL SOP 00020	SM 22 2120C m
Conductance - water	17	N/A	2016/07/22	ATL SOP 00004	SM 22 2510B m
Hardness (calculated as CaCO3)	4	N/A	2016/07/22	ATL SOP 00048	SM 22 2340 B
Hardness (calculated as CaCO3)	13	N/A	2016/07/25	ATL SOP 00048	SM 22 2340 B
Mercury - Total (CVAA,LL)	17	2016/07/21	2016/07/22	ATL SOP 00026	EPA 245.1 R3 m
Metals Water Diss. MS (1)	9	N/A	2016/07/22	ATL SOP 00058	EPA 6020A R1 m
Metals Water Diss. MS (as rec'd)	8	N/A	2016/07/22	ATL SOP 00058	EPA 6020A R1 m
Metals Water Total MS	17	2016/07/21	2016/07/22	ATL SOP 00058	EPA 6020A R1 m
Ion Balance (% Difference)	17	N/A	2016/07/26		Auto Calc.
Anion and Cation Sum	17	N/A	2016/07/26		Auto Calc.
Nitrogen Ammonia - water	17	N/A	2016/07/25	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite	17	N/A	2016/07/26	ATL SOP 00016	USGS SOPINCF0452.2 m
Nitrogen - Nitrite	17	N/A	2016/07/25	ATL SOP 00017	SM 22 4500-NO2- B m
Nitrogen - Nitrate (as N)	17	N/A	2016/07/26	ATL SOP 00018	ASTM D3867
pH (2)	6	N/A	2016/07/22	ATL SOP 00003	SM 22 4500-H+ B m
pH (2)	11	N/A	2016/07/25	ATL SOP 00003	SM 22 4500-H+ B m
Phosphorus - ortho	17	N/A	2016/07/25	ATL SOP 00021	EPA 365.2 m
Sat. pH and Langelier Index (@ 20C)	17	N/A	2016/07/26	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	17	N/A	2016/07/26	ATL SOP 00049	Auto Calc.
Reactive Silica	17	N/A	2016/07/26	ATL SOP 00022	EPA 366.0 m
Sulphate	17	N/A	2016/07/25	ATL SOP 00023	ASTMD516-11 m
Total Dissolved Solids (TDS calc)	17	N/A	2016/07/26		Auto Calc.
Organic carbon - Total (TOC) (3)	17	N/A	2016/07/22	ATL SOP 00037	SM 22 5310C m
Turbidity	17	N/A	2016/07/22	ATL SOP 00011	EPA 180.1 R2 m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: A06016  
Your Project #: P-0010903  
Site Location: LAKE GEORGE  
Your C.O.C. #: 568672-01-01, 568672-02-01

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

**Report Date: 2016/07/26**  
Report #: R4082566  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B6F0322**

**Received: 2016/07/18, 15:31**

- (1) Sample filtered in laboratory prior to analysis for dissolved metals.
- (2) The APHA Standard Method require pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.
- (3) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Encryption Key



Maxxam  
26 Jul 2016 17:52:39 -03:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.  
Avery Withrow, Project Manager  
Email: AWithrow@maxxam.ca  
Phone# (902)420-0203 Ext:233

=====

This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFIL) IN W

Maxxam ID		CSR707			CSR710		CSR712			
Sampling Date		2016/07/15			2016/07/15		2016/07/15			
COC Number		568672-01-01			568672-01-01		568672-01-01			
	UNITS	MW1S	RDL	QC Batch	MW3S	RDL	MW4S	RDL	QC Batch	MDL
<b>Calculated Parameters</b>										
Anion Sum	me/L	4.20	N/A	4583968	7.87	N/A	0.620	N/A	4585153	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	180	1.0	4585151	370	1.0	10	1.0	4585151	0.20
Calculated TDS	mg/L	250	1.0	4583973	390	1.0	52	1.0	4585156	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4585151	<1.0	1.0	<1.0	1.0	4585151	0.20
Cation Sum	me/L	4.35	N/A	4583968	6.67	N/A	0.680	N/A	4585153	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	160	1.0	4585015	300	1.0	23	1.0	4585015	1.0
Ion Balance (% Difference)	%	1.75	N/A	4583967	8.25	N/A	4.62	N/A	4585152	N/A
Langelier Index (@ 20C)	N/A	-1.17		4583971	0.208		-3.44		4585154	
Langelier Index (@ 4C)	N/A	-1.42		4583972	-0.0410		-3.69		4585155	
Nitrate (N)	mg/L	<0.050	0.050	4584921	<0.050	0.050	0.40	0.050	4584921	N/A
Saturation pH (@ 20C)	N/A	7.58		4583971	7.04		9.55		4585154	
Saturation pH (@ 4C)	N/A	7.83		4583972	7.29		9.80		4585155	
<b>Inorganics</b>										
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	180	25	4589703	370	25	10	5.0	4589703	N/A
Dissolved Chloride (Cl)	mg/L	21	5.0	4589706	16	1.0	5.0	1.0	4589706	N/A
Colour	TCU	220	25	4589713	5.2	5.0	<5.0	5.0	4589713	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4589717	<0.050	0.050	0.40	0.050	4589717	N/A
Nitrite (N)	mg/L	<0.010	0.010	4589719	<0.010	0.010	<0.010	0.010	4589719	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	2.1	0.25	4589837	0.19	0.050	0.23	0.050	4589841	N/A
Total Organic Carbon (C)	mg/L	63 (1)	25	4589466	<25 (1)	25	<50 (1)	50	4589466	N/A
Orthophosphate (P)	mg/L	0.016	0.010	4589715	0.019	0.010	0.011	0.010	4589715	N/A
pH	pH	6.41	N/A	4589412	7.25	N/A	6.12	N/A	4589412	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	25	1.0	4589709	21	0.50	12	0.50	4589709	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	<2.0	2.0	4589707	2.8	2.0	12	2.0	4589707	N/A
Turbidity	NTU	>1000	1.0	4589508	>1000	1.0	>1000	1.0	4589508	0.10
Conductivity	uS/cm	350	1.0	4589413	610	1.0	62	1.0	4589413	N/A
<b>Metals</b>										
Dissolved Aluminum (Al)	ug/L	36	5.0	4589406	6.7	5.0	31	5.0	4589406	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	4589406	<1.0	1.0	<1.0	1.0	4589406	N/A
Dissolved Arsenic (As)	ug/L	2.1	1.0	4589406	<1.0	1.0	<1.0	1.0	4589406	N/A
Dissolved Barium (Ba)	ug/L	50	1.0	4589406	20	1.0	15	1.0	4589406	N/A
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	4589406	<1.0	1.0	<1.0	1.0	4589406	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Reporting limit was increased due to turbidity.										



Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

Maxxam ID		CSR707			CSR710		CSR712			
Sampling Date		2016/07/15			2016/07/15		2016/07/15			
COC Number		568672-01-01			568672-01-01		568672-01-01			
	UNITS	MW1S	RDL	QC Batch	MW3S	RDL	MW4S	RDL	QC Batch	MDL
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	4589406	<2.0	2.0	<2.0	2.0	4589406	N/A
Dissolved Boron (B)	ug/L	<50	50	4589406	<50	50	<50	50	4589406	N/A
Dissolved Cadmium (Cd)	ug/L	0.20	0.010	4589406	0.13	0.010	0.048	0.010	4589406	N/A
Dissolved Calcium (Ca)	ug/L	37000	100	4589406	68000	100	5500	100	4589406	N/A
Dissolved Chromium (Cr)	ug/L	2.1	1.0	4589406	<1.0	1.0	<1.0	1.0	4589406	N/A
Dissolved Cobalt (Co)	ug/L	35	0.40	4589406	7.9	0.40	7.1	0.40	4589406	N/A
Dissolved Copper (Cu)	ug/L	5.9	2.0	4589406	5.3	2.0	<2.0	2.0	4589406	N/A
Dissolved Iron (Fe)	ug/L	17000	50	4589406	<50	50	<50	50	4589406	N/A
Dissolved Lead (Pb)	ug/L	<0.50	0.50	4589406	<0.50	0.50	<0.50	0.50	4589406	N/A
Dissolved Magnesium (Mg)	ug/L	15000	100	4589406	32000	100	2300	100	4589406	N/A
Dissolved Manganese (Mn)	ug/L	11000	2.0	4589406	11000	2.0	1200	2.0	4589406	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	4589406	<2.0	2.0	<2.0	2.0	4589406	N/A
Dissolved Nickel (Ni)	ug/L	14	2.0	4589406	10	2.0	3.4	2.0	4589406	N/A
Dissolved Phosphorus (P)	ug/L	<100	100	4589406	<100	100	<100	100	4589406	N/A
Dissolved Potassium (K)	ug/L	6200	100	4589406	5400	100	1200	100	4589406	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	4589406	<1.0	1.0	<1.0	1.0	4589406	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	4589406	<0.10	0.10	<0.10	0.10	4589406	N/A
Dissolved Sodium (Na)	ug/L	7300	100	4589406	11000	100	4000	100	4589406	N/A
Dissolved Strontium (Sr)	ug/L	300	2.0	4589406	410	2.0	37	2.0	4589406	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	4589406	<0.10	0.10	<0.10	0.10	4589406	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	4589406	<2.0	2.0	<2.0	2.0	4589406	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	2.0	4589406	<2.0	2.0	<2.0	2.0	4589406	N/A
Dissolved Uranium (U)	ug/L	0.30	0.10	4589406	0.96	0.10	<0.10	0.10	4589406	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	4589406	<2.0	2.0	<2.0	2.0	4589406	N/A
Dissolved Zinc (Zn)	ug/L	5.1	5.0	4589406	<5.0	5.0	<5.0	5.0	4589406	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable										

Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

Maxxam ID		CSR714	CSR714			CSR715			
Sampling Date		2016/07/15	2016/07/15			2016/07/15			
COC Number		568672-01-01	568672-01-01			568672-01-01			
	UNITS	MW5S	MW5S Lab-Dup	RDL	QC Batch	MW6D	RDL	QC Batch	MDL
<b>Calculated Parameters</b>									
Anion Sum	me/L	2.15		N/A	4585153	1.84	N/A	4585153	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	87		1.0	4585151	55	1.0	4585151	0.20
Calculated TDS	mg/L	150		1.0	4585156	120	1.0	4585156	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0		1.0	4585151	<1.0	1.0	4585151	0.20
Cation Sum	me/L	2.60		N/A	4585153	1.79	N/A	4585153	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	90		1.0	4585015	39	1.0	4585015	1.0
Ion Balance (% Difference)	%	9.47		N/A	4585152	1.38	N/A	4585152	N/A
Langelier Index (@ 20C)	N/A	-1.41			4585154	-1.02		4585154	
Langelier Index (@ 4C)	N/A	-1.66			4585155	-1.27		4585155	
Nitrate (N)	mg/L	0.064		0.050	4584921	<0.050	0.050	4584921	N/A
Saturation pH (@ 20C)	N/A	8.05			4585154	8.58		4585154	
Saturation pH (@ 4C)	N/A	8.30			4585155	8.83		4585155	
<b>Inorganics</b>									
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	87	85	5.0	4589703	55	5.0	4589703	N/A
Dissolved Chloride (Cl)	mg/L	12	13	1.0	4589706	17	1.0	4589706	N/A
Colour	TCU	27	26	5.0	4589713	<5.0	5.0	4589713	N/A
Nitrate + Nitrite (N)	mg/L	0.064	0.071	0.050	4589717	<0.050	0.050	4589717	N/A
Nitrite (N)	mg/L	<0.010	<0.010	0.010	4589719	<0.010	0.010	4589719	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	1.5		0.050	4589841	0.12	0.050	4589841	N/A
Total Organic Carbon (C)	mg/L	89 (1)		50	4589466	<50 (1)	50	4589466	N/A
Orthophosphate (P)	mg/L	0.018	0.016	0.010	4589715	0.015	0.010	4589715	N/A
pH	pH	6.64		N/A	4589414	7.56	N/A	4589414	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	25	25	1.0	4589709	22	0.50	4589709	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	3.4	3.3	2.0	4589707	13	2.0	4589707	N/A
Turbidity	NTU	>1000		1.0	4589522	>1000	1.0	4589502	0.10
Conductivity	uS/cm	190		1.0	4589415	170	1.0	4589415	N/A
<b>Metals</b>									
Dissolved Aluminum (Al)	ug/L	120		5.0	4589406	<5.0	5.0	4589406	N/A
Dissolved Antimony (Sb)	ug/L	<1.0		1.0	4589406	<1.0	1.0	4589406	N/A
Dissolved Arsenic (As)	ug/L	12		1.0	4589406	<1.0	1.0	4589406	N/A
Dissolved Barium (Ba)	ug/L	64		1.0	4589406	3.4	1.0	4589406	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Reporting limit was increased due to turbidity.									

Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

Maxxam ID		CSR714	CSR714			CSR715			
Sampling Date		2016/07/15	2016/07/15			2016/07/15			
COC Number		568672-01-01	568672-01-01			568672-01-01			
	UNITS	MW5S	MW5S Lab-Dup	RDL	QC Batch	MW6D	RDL	QC Batch	MDL
Dissolved Beryllium (Be)	ug/L	<1.0		1.0	4589406	<1.0	1.0	4589406	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0		2.0	4589406	<2.0	2.0	4589406	N/A
Dissolved Boron (B)	ug/L	<50		50	4589406	<50	50	4589406	N/A
Dissolved Cadmium (Cd)	ug/L	0.028		0.010	4589406	<0.010	0.010	4589406	N/A
Dissolved Calcium (Ca)	ug/L	24000		100	4589406	11000	100	4589406	N/A
Dissolved Chromium (Cr)	ug/L	<1.0		1.0	4589406	<1.0	1.0	4589406	N/A
Dissolved Cobalt (Co)	ug/L	5.1		0.40	4589406	<0.40	0.40	4589406	N/A
Dissolved Copper (Cu)	ug/L	3.8		2.0	4589406	<2.0	2.0	4589406	N/A
Dissolved Iron (Fe)	ug/L	340		50	4589406	<50	50	4589406	N/A
Dissolved Lead (Pb)	ug/L	<0.50		0.50	4589406	<0.50	0.50	4589406	N/A
Dissolved Magnesium (Mg)	ug/L	7600		100	4589406	2800	100	4589406	N/A
Dissolved Manganese (Mn)	ug/L	750		2.0	4589406	62	2.0	4589406	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0		2.0	4589406	3.5	2.0	4589406	N/A
Dissolved Nickel (Ni)	ug/L	4.3		2.0	4589406	<2.0	2.0	4589406	N/A
Dissolved Phosphorus (P)	ug/L	<100		100	4589406	<100	100	4589406	N/A
Dissolved Potassium (K)	ug/L	7000		100	4589406	320	100	4589406	N/A
Dissolved Selenium (Se)	ug/L	<1.0		1.0	4589406	<1.0	1.0	4589406	N/A
Dissolved Silver (Ag)	ug/L	<0.10		0.10	4589406	<0.10	0.10	4589406	N/A
Dissolved Sodium (Na)	ug/L	12000		100	4589406	23000	100	4589406	N/A
Dissolved Strontium (Sr)	ug/L	120		2.0	4589406	46	2.0	4589406	N/A
Dissolved Thallium (Tl)	ug/L	<0.10		0.10	4589406	<0.10	0.10	4589406	N/A
Dissolved Tin (Sn)	ug/L	<2.0		2.0	4589406	<2.0	2.0	4589406	N/A
Dissolved Titanium (Ti)	ug/L	<2.0		2.0	4589406	<2.0	2.0	4589406	N/A
Dissolved Uranium (U)	ug/L	<0.10		0.10	4589406	0.16	0.10	4589406	N/A
Dissolved Vanadium (V)	ug/L	<2.0		2.0	4589406	<2.0	2.0	4589406	N/A
Dissolved Zinc (Zn)	ug/L	11		5.0	4589406	<5.0	5.0	4589406	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable									

Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

Maxxam ID		CSR719		CSR720		CSR721			
Sampling Date		2016/07/15		2016/07/15		2016/07/15			
COC Number		568672-02-01		568672-02-01		568672-02-01			
	UNITS	MW6S	RDL	MW7	RDL	MW8	RDL	QC Batch	MDL
<b>Calculated Parameters</b>									
Anion Sum	me/L	10.1	N/A	3.47	N/A	3.60	N/A	4585153	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	430	1.0	150	1.0	150	1.0	4585151	0.20
Calculated TDS	mg/L	530	1.0	250	1.0	210	1.0	4585156	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	1.1	1.0	1.7	1.0	<1.0	1.0	4585151	0.20
Cation Sum	me/L	10.1	N/A	6.22	N/A	3.46	N/A	4585153	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	440	1.0	270	1.0	130	1.0	4585015	1.0
Ion Balance (% Difference)	%	0.250	N/A	28.4	N/A	1.98	N/A	4585152	N/A
Langelier Index (@ 20C)	N/A	0.636		0.744		-0.166		4585154	
Langelier Index (@ 4C)	N/A	0.388		0.495		-0.416		4585155	
Nitrate (N)	mg/L	<0.050	0.050	<0.050	0.050	<0.050	0.050	4584921	N/A
Saturation pH (@ 20C)	N/A	6.81		7.34		7.64		4585154	
Saturation pH (@ 4C)	N/A	7.05		7.59		7.89		4585155	
<b>Inorganics</b>									
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	430	25	150	25	150	25	4589703	N/A
Dissolved Chloride (Cl)	mg/L	51	2.0	13	1.0	16	1.0	4589706	N/A
Colour	TCU	140	25	15	5.0	<5.0	5.0	4589713	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	<0.050	0.050	<0.050	0.050	4589717	N/A
Nitrite (N)	mg/L	<0.010	0.010	<0.010	0.010	<0.010	0.010	4589719	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	1.9	0.050	0.21	0.050	<0.050	0.050	4589841	N/A
Total Organic Carbon (C)	mg/L	25 (1)	5.0	29 (1)	25	<50 (1)	50	4589466	N/A
Orthophosphate (P)	mg/L	0.023	0.010	0.033	0.010	0.029	0.010	4589715	N/A
pH	pH	7.44	N/A	8.09	N/A	7.47	N/A	4592060	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	31	1.0	18	0.50	24	0.50	4589709	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	2.7	2.0	6.5	2.0	6.0	2.0	4589707	N/A
Turbidity	NTU	>1000	1.0	550	1.0	>1000	1.0	4589508	0.10
Conductivity	uS/cm	610	1.0	300	1.0	310	1.0	4589413	N/A
<b>Metals</b>									
Dissolved Aluminum (Al)	ug/L	21	5.0	8.8	5.0	<5.0	5.0	4589406	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	4589406	N/A
Dissolved Arsenic (As)	ug/L	1.8	1.0	2.4	1.0	<1.0	1.0	4589406	N/A
Dissolved Barium (Ba)	ug/L	77	1.0	35	1.0	25	1.0	4589406	N/A
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	4589406	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Reporting limit was increased due to turbidity.									

Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

Maxxam ID		CSR719		CSR720		CSR721			
Sampling Date		2016/07/15		2016/07/15		2016/07/15			
COC Number		568672-02-01		568672-02-01		568672-02-01			
	UNITS	MW6S	RDL	MW7	RDL	MW8	RDL	QC Batch	MDL
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	<2.0	2.0	<2.0	2.0	4589406	N/A
Dissolved Boron (B)	ug/L	<50	50	<50	50	<50	50	4589406	N/A
Dissolved Cadmium (Cd)	ug/L	0.15	0.010	0.034	0.010	0.036	0.010	4589406	N/A
Dissolved Calcium (Ca)	ug/L	110000	100	78000	100	38000	100	4589406	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	4589406	N/A
Dissolved Cobalt (Co)	ug/L	9.9	0.40	3.5	0.40	4.7	0.40	4589406	N/A
Dissolved Copper (Cu)	ug/L	13	2.0	5.0	2.0	<2.0	2.0	4589406	N/A
Dissolved Iron (Fe)	ug/L	130	50	<50	50	<50	50	4589406	N/A
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	4589406	N/A
Dissolved Magnesium (Mg)	ug/L	41000	100	18000	100	8800	100	4589406	N/A
Dissolved Manganese (Mn)	ug/L	6500	2.0	1900	2.0	990	2.0	4589406	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	2.9	2.0	<2.0	2.0	4589406	N/A
Dissolved Nickel (Ni)	ug/L	11	2.0	9.2	2.0	4.4	2.0	4589406	N/A
Dissolved Phosphorus (P)	ug/L	<100	100	<100	100	<100	100	4589406	N/A
Dissolved Potassium (K)	ug/L	8800	100	7900	100	2600	100	4589406	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	4589406	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	<0.10	0.10	<0.10	0.10	4589406	N/A
Dissolved Sodium (Na)	ug/L	22000	100	14000	100	18000	100	4589406	N/A
Dissolved Strontium (Sr)	ug/L	440	2.0	260	2.0	170	2.0	4589406	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	<0.10	0.10	<0.10	0.10	4589406	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	<2.0	2.0	<2.0	2.0	4589406	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	2.0	<2.0	2.0	<2.0	2.0	4589406	N/A
Dissolved Uranium (U)	ug/L	2.3	0.10	0.48	0.10	0.12	0.10	4589406	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	<2.0	2.0	<2.0	2.0	4589406	N/A
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	<5.0	5.0	<5.0	5.0	4589406	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable									

Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

### ATL. RCAP-MS DISSOLVED (LABFILT) IN W

<b>Maxxam ID</b>		CSR724			
<b>Sampling Date</b>		2016/07/15			
<b>COC Number</b>		568672-02-01			
	<b>UNITS</b>	<b>MW11</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Calculated Parameters</b>					
Anion Sum	me/L	1.17	N/A	4585153	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	32	1.0	4585151	0.20
Calculated TDS	mg/L	83	1.0	4585156	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4585151	0.20
Cation Sum	me/L	1.10	N/A	4585153	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	28	1.0	4585015	1.0
Ion Balance (% Difference)	%	3.08	N/A	4585152	N/A
Langelier Index (@ 20C)	N/A	-2.35		4585154	
Langelier Index (@ 4C)	N/A	-2.61		4585155	
Nitrate (N)	mg/L	0.44	0.050	4584921	N/A
Saturation pH (@ 20C)	N/A	9.03		4585154	
Saturation pH (@ 4C)	N/A	9.28		4585155	
<b>Inorganics</b>					
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	32	5.0	4589703	N/A
Dissolved Chloride (Cl)	mg/L	6.3	1.0	4589706	N/A
Colour	TCU	9.6	5.0	4589713	N/A
Nitrate + Nitrite (N)	mg/L	0.44	0.050	4589717	N/A
Nitrite (N)	mg/L	<0.010	0.010	4589719	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	0.081	0.050	4589841	N/A
Total Organic Carbon (C)	mg/L	<50 (1)	50	4589617	N/A
Orthophosphate (P)	mg/L	0.024	0.010	4589715	N/A
pH	pH	6.67	N/A	4592060	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	17	0.50	4589709	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	16	2.0	4589707	N/A
Turbidity	NTU	>1000	1.0	4589508	0.10
Conductivity	uS/cm	110	1.0	4589413	N/A
<b>Metals</b>					
Dissolved Aluminum (Al)	ug/L	30	5.0	4589406	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	4589406	N/A
Dissolved Arsenic (As)	ug/L	<1.0	1.0	4589406	N/A
Dissolved Barium (Ba)	ug/L	9.2	1.0	4589406	N/A
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	4589406	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Reporting limit was increased due to turbidity.					



Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

<b>Maxxam ID</b>		CSR724			
<b>Sampling Date</b>		2016/07/15			
<b>COC Number</b>		568672-02-01			
	<b>UNITS</b>	<b>MW11</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	4589406	N/A
Dissolved Boron (B)	ug/L	<50	50	4589406	N/A
Dissolved Cadmium (Cd)	ug/L	0.045	0.010	4589406	N/A
Dissolved Calcium (Ca)	ug/L	6400	100	4589406	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	4589406	N/A
Dissolved Cobalt (Co)	ug/L	1.1	0.40	4589406	N/A
Dissolved Copper (Cu)	ug/L	<2.0	2.0	4589406	N/A
Dissolved Iron (Fe)	ug/L	<50	50	4589406	N/A
Dissolved Lead (Pb)	ug/L	<0.50	0.50	4589406	N/A
Dissolved Magnesium (Mg)	ug/L	3000	100	4589406	N/A
Dissolved Manganese (Mn)	ug/L	1100	2.0	4589406	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	4589406	N/A
Dissolved Nickel (Ni)	ug/L	<2.0	2.0	4589406	N/A
Dissolved Phosphorus (P)	ug/L	<100	100	4589406	N/A
Dissolved Potassium (K)	ug/L	810	100	4589406	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	4589406	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	4589406	N/A
Dissolved Sodium (Na)	ug/L	12000	100	4589406	N/A
Dissolved Strontium (Sr)	ug/L	46	2.0	4589406	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	4589406	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	4589406	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	2.0	4589406	N/A
Dissolved Uranium (U)	ug/L	<0.10	0.10	4589406	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	4589406	N/A
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	4589406	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable					

Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

### AT. RCAP-MS DISSOLVED (FIELDFIL) IN W

Maxxam ID		CSR708		CSR709			CSR711			
Sampling Date		2016/07/15		2016/07/15			2016/07/15			
COC Number		568672-01-01		568672-01-01			568672-01-01			
	UNITS	MW1D	RDL	MW2D	RDL	QC Batch	MW3D	RDL	QC Batch	MDL
<b>Calculated Parameters</b>										
Anion Sum	me/L	10.6	N/A	2.69	N/A	4585153	4.39	N/A	4585153	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	490	1.0	100	1.0	4585151	180	1.0	4585151	0.20
Calculated TDS	mg/L	550	1.0	160	1.0	4585156	250	1.0	4585156	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	4.0	1.0	<1.0	1.0	4585151	<1.0	1.0	4585151	0.20
Cation Sum	me/L	10.7	N/A	2.67	N/A	4585153	4.29	N/A	4585153	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	460	1.0	100	1.0	4585015	160	1.0	4585015	1.0
Ion Balance (% Difference)	%	0.520	N/A	0.370	N/A	4585152	1.15	N/A	4585152	N/A
Langelier Index (@ 20C)	N/A	1.22		-0.0240		4585154	-0.410		4585154	
Langelier Index (@ 4C)	N/A	0.972		-0.275		4585155	-0.660		4585155	
Nitrate (N)	mg/L	<0.050	0.050	<0.050	0.050	4584921	<0.050	0.050	4584921	N/A
Saturation pH (@ 20C)	N/A	6.71		7.95		4585154	7.54		4585154	
Saturation pH (@ 4C)	N/A	6.96		8.20		4585155	7.79		4585155	
<b>Inorganics</b>										
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	500	100	110	25	4589703	190	25	4589703	N/A
Dissolved Chloride (Cl)	mg/L	15	1.0	11	1.0	4589706	19	1.0	4589706	N/A
Colour	TCU	<5.0	5.0	6.2	5.0	4589713	<5.0	5.0	4589713	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	<0.050	0.050	4589717	<0.050	0.050	4589717	N/A
Nitrite (N)	mg/L	<0.010	0.010	<0.010	0.010	4589719	<0.010	0.010	4589719	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	<0.050	0.050	4589837	<0.050	0.050	4589841	N/A
Total Organic Carbon (C)	mg/L	<5.0 (1)	5.0	<5.0 (2)	5.0	4589466	2.3 (2)	1.0	4589466	N/A
Orthophosphate (P)	mg/L	0.022	0.010	0.028	0.010	4589715	0.016	0.010	4589715	N/A
pH	pH	7.93	N/A	7.93	N/A	4592060	7.13	N/A	4592060	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	27	1.0	19	0.50	4589709	26	1.0	4589709	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	7.5	2.0	12	2.0	4589707	8.1	2.0	4589707	N/A
Turbidity	NTU	27	0.10	650	1.0	4589508	550	1.0	4589508	0.10
Conductivity	uS/cm	870	1.0	240	1.0	4589413	380	1.0	4589413	N/A
<b>Metals</b>										
Dissolved Aluminum (Al)	ug/L	<5.0	5.0	<5.0	5.0	4589416	<5.0	5.0	4589416	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	<1.0	1.0	4589416	<1.0	1.0	4589416	N/A
Dissolved Arsenic (As)	ug/L	7.9	1.0	8.8	1.0	4589416	6.4	1.0	4589416	N/A
Dissolved Barium (Ba)	ug/L	320	1.0	31	1.0	4589416	23	1.0	4589416	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Elevated reporting limit due to sample matrix. (2) Reporting limit was increased due to turbidity.										

Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

### AT. RCAP-MS DISSOLVED (FIELDILT) IN W

Maxxam ID		CSR708		CSR709			CSR711			
Sampling Date		2016/07/15		2016/07/15			2016/07/15			
COC Number		568672-01-01		568672-01-01			568672-01-01			
	UNITS	MW1D	RDL	MW2D	RDL	QC Batch	MW3D	RDL	QC Batch	MDL
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	<1.0	1.0	4589416	<1.0	1.0	4589416	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	<2.0	2.0	4589416	<2.0	2.0	4589416	N/A
Dissolved Boron (B)	ug/L	<50	50	1000	50	4589416	<50	50	4589416	N/A
Dissolved Cadmium (Cd)	ug/L	<0.010	0.010	<0.010	0.010	4589416	<0.010	0.010	4589416	N/A
Dissolved Calcium (Ca)	ug/L	120000	100	25000	100	4589416	40000	100	4589416	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	<1.0	1.0	4589416	<1.0	1.0	4589416	N/A
Dissolved Cobalt (Co)	ug/L	1.5	0.40	<0.40	0.40	4589416	6.4	0.40	4589416	N/A
Dissolved Copper (Cu)	ug/L	<2.0	2.0	<2.0	2.0	4589416	<2.0	2.0	4589416	N/A
Dissolved Iron (Fe)	ug/L	140	50	<50	50	4589416	660	50	4589416	N/A
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.50	4589416	<0.50	0.50	4589416	N/A
Dissolved Magnesium (Mg)	ug/L	39000	100	10000	100	4589416	15000	100	4589416	N/A
Dissolved Manganese (Mn)	ug/L	660	2.0	100	2.0	4589416	450	2.0	4589416	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	<2.0	2.0	4589416	<2.0	2.0	4589416	N/A
Dissolved Nickel (Ni)	ug/L	9.4	2.0	2.9	2.0	4589416	12	2.0	4589416	N/A
Dissolved Phosphorus (P)	ug/L	<100	100	<100	100	4589416	<100	100	4589416	N/A
Dissolved Potassium (K)	ug/L	11000	100	3200	100	4589416	3700	100	4589416	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	<1.0	1.0	4589416	<1.0	1.0	4589416	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	<0.10	0.10	4589416	<0.10	0.10	4589416	N/A
Dissolved Sodium (Na)	ug/L	29000	100	12000	100	4589416	22000	100	4589416	N/A
Dissolved Strontium (Sr)	ug/L	450	2.0	150	2.0	4589416	210	2.0	4589416	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	<0.10	0.10	4589416	<0.10	0.10	4589416	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	<2.0	2.0	4589416	<2.0	2.0	4589416	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	2.0	<2.0	2.0	4589416	<2.0	2.0	4589416	N/A
Dissolved Uranium (U)	ug/L	5.0	0.10	0.76	0.10	4589416	0.37	0.10	4589416	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	<2.0	2.0	4589416	<2.0	2.0	4589416	N/A
Dissolved Zinc (Zn)	ug/L	31	5.0	<5.0	5.0	4589416	12	5.0	4589416	N/A
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
N/A = Not Applicable										

Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

### AT. RCAP-MS DISSOLVED (FIELDILT) IN W

Maxxam ID		CSR713	CSR713			CSR722			
Sampling Date		2016/07/15	2016/07/15			2016/07/15			
COC Number		568672-01-01	568672-01-01			568672-02-01			
	UNITS	MW4D	MW4D Lab-Dup	RDL	QC Batch	MW9	RDL	QC Batch	MDL
<b>Calculated Parameters</b>									
Anion Sum	me/L	0.840		N/A	4585153	1.66	N/A	4585153	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	14		1.0	4585151	27	1.0	4585151	0.20
Calculated TDS	mg/L	60		1.0	4585156	100	1.0	4585156	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0		1.0	4585151	<1.0	1.0	4585151	0.20
Cation Sum	me/L	0.760		N/A	4585153	1.43	N/A	4585153	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	22		1.0	4585015	44	1.0	4585015	1.0
Ion Balance (% Difference)	%	5.00		N/A	4585152	7.44	N/A	4585152	N/A
Langelier Index (@ 20C)	N/A	-2.76			4585154	-2.41		4585154	
Langelier Index (@ 4C)	N/A	-3.01			4585155	-2.66		4585155	
Nitrate (N)	mg/L	0.14		0.050	4584921	0.057	0.050	4584921	N/A
Saturation pH (@ 20C)	N/A	9.44			4585154	8.92		4585154	
Saturation pH (@ 4C)	N/A	9.69			4585155	9.18		4585155	
<b>Inorganics</b>									
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	14		5.0	4589703	27	5.0	4589703	N/A
Dissolved Chloride (Cl)	mg/L	8.1		1.0	4589706	24	1.0	4589706	N/A
Colour	TCU	<5.0		5.0	4589713	<5.0	5.0	4589713	N/A
Nitrate + Nitrite (N)	mg/L	0.14		0.050	4589717	0.057	0.050	4589717	N/A
Nitrite (N)	mg/L	<0.010		0.010	4589719	<0.010	0.010	4589719	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050		0.050	4589841	<0.050	0.050	4589841	N/A
Total Organic Carbon (C)	mg/L	0.78		0.50	4589466	<5.0 (1)	5.0	4589617	N/A
Orthophosphate (P)	mg/L	0.011		0.010	4589715	0.012	0.010	4589715	N/A
pH	pH	6.68		N/A	4592060	6.52	N/A	4592060	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	12		0.50	4589709	13	0.50	4589709	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	16		2.0	4589707	21	2.0	4589707	N/A
Turbidity	NTU	200		1.0	4589508	760	1.0	4589508	0.10
Conductivity	uS/cm	82		1.0	4589413	160	1.0	4589413	N/A
<b>Metals</b>									
Dissolved Aluminum (Al)	ug/L	24	24	5.0	4589416	20	5.0	4589416	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	1.0	4589416	<1.0	1.0	4589416	N/A
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.0	4589416	<1.0	1.0	4589416	N/A
Dissolved Barium (Ba)	ug/L	12	11	1.0	4589416	22	1.0	4589416	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Reporting limit was increased due to turbidity.									

Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

### AT. RCAP-MS DISSOLVED (FIELDILT) IN W

Maxxam ID		CSR713	CSR713			CSR722			
Sampling Date		2016/07/15	2016/07/15			2016/07/15			
COC Number		568672-01-01	568672-01-01			568672-02-01			
	UNITS	MW4D	MW4D Lab-Dup	RDL	QC Batch	MW9	RDL	QC Batch	MDL
Dissolved Beryllium (Be)	ug/L	<1.0	<1.0	1.0	4589416	<1.0	1.0	4589416	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	2.0	4589416	<2.0	2.0	4589416	N/A
Dissolved Boron (B)	ug/L	<50	<50	50	4589416	<50	50	4589416	N/A
Dissolved Cadmium (Cd)	ug/L	0.032	0.031	0.010	4589416	0.10	0.010	4589416	N/A
Dissolved Calcium (Ca)	ug/L	5500	5500	100	4589416	9700	100	4589416	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	1.0	4589416	<1.0	1.0	4589416	N/A
Dissolved Cobalt (Co)	ug/L	4.3	4.4	0.40	4589416	20	0.40	4589416	N/A
Dissolved Copper (Cu)	ug/L	<2.0	<2.0	2.0	4589416	<2.0	2.0	4589416	N/A
Dissolved Iron (Fe)	ug/L	220	230	50	4589416	<50	50	4589416	N/A
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	4589416	<0.50	0.50	4589416	N/A
Dissolved Magnesium (Mg)	ug/L	2100	2100	100	4589416	4700	100	4589416	N/A
Dissolved Manganese (Mn)	ug/L	380	380	2.0	4589416	2600	2.0	4589416	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	2.0	4589416	<2.0	2.0	4589416	N/A
Dissolved Nickel (Ni)	ug/L	4.8	4.7	2.0	4589416	9.9	2.0	4589416	N/A
Dissolved Phosphorus (P)	ug/L	<100	<100	100	4589416	<100	100	4589416	N/A
Dissolved Potassium (K)	ug/L	810	810	100	4589416	1200	100	4589416	N/A
Dissolved Selenium (Se)	ug/L	<1.0	<1.0	1.0	4589416	<1.0	1.0	4589416	N/A
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	0.10	4589416	<0.10	0.10	4589416	N/A
Dissolved Sodium (Na)	ug/L	6600	6800	100	4589416	12000	100	4589416	N/A
Dissolved Strontium (Sr)	ug/L	44	44	2.0	4589416	60	2.0	4589416	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	0.10	4589416	<0.10	0.10	4589416	N/A
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	2.0	4589416	<2.0	2.0	4589416	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	<2.0	2.0	4589416	<2.0	2.0	4589416	N/A
Dissolved Uranium (U)	ug/L	<0.10	<0.10	0.10	4589416	<0.10	0.10	4589416	N/A
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	2.0	4589416	<2.0	2.0	4589416	N/A
Dissolved Zinc (Zn)	ug/L	7.3	6.9	5.0	4589416	5.8	5.0	4589416	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable									

Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

### AT. RCAP-MS DISSOLVED (FIELDILT) IN W

<b>Maxxam ID</b>		CSR723			CSR725			CSR726			
<b>Sampling Date</b>		2016/07/15			2016/07/15			2016/07/15			
<b>COC Number</b>		568672-02-01			568672-02-01			568672-02-01			
	<b>UNITS</b>	<b>MW10</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MW12</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MW-DUP</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Calculated Parameters

Anion Sum	me/L	6.62	N/A	4585153	1.32	N/A	4585153	2.76	N/A	4585153	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	190	1.0	4585151	11	1.0	4585151	110	1.0	4585151	0.20
Calculated TDS	mg/L	370	1.0	4585156	170	1.0	4585156	160	1.0	4585156	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4585151	<1.0	1.0	4585151	<1.0	1.0	4585151	0.20
Cation Sum	me/L	5.84	N/A	4585153	4.40	N/A	4585153	2.65	N/A	4585153	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	220	1.0	4585015	29	1.0	4585015	100	1.0	4585015	1.0
Ion Balance (% Difference)	%	6.26	N/A	4585152	53.9	N/A	4585152	2.03	N/A	4585152	N/A
Langelier Index (@ 20C)	N/A	-0.443		4585154	-3.48		4585154	0.0130		4585154	
Langelier Index (@ 4C)	N/A	-0.692		4585155	-3.73		4585155	-0.237		4585155	
Nitrate (N)	mg/L	0.067	0.050	4584921	0.063	0.050	4584921	<0.050	0.050	4584921	N/A
Saturation pH (@ 20C)	N/A	7.38		4585154	9.46		4585154	7.94		4585154	
Saturation pH (@ 4C)	N/A	7.63		4585155	9.71		4585155	8.19		4585155	

#### Inorganics

Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	190	25	4589703	11	5.0	4589703	110	25	4589703	N/A
Dissolved Chloride (Cl)	mg/L	85	5.0	4589706	39	1.0	4589706	11	1.0	4589706	N/A
Colour	TCU	140	25	4589713	91	25	4589713	<5.0	5.0	4589713	N/A
Nitrate + Nitrite (N)	mg/L	0.067	0.050	4589717	0.063	0.050	4589717	<0.050	0.050	4589717	N/A
Nitrite (N)	mg/L	<0.010	0.010	4589719	<0.010	0.010	4589719	<0.010	0.010	4589719	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	2.3	0.25	4589841	2.6	0.25	4589841	<0.050	0.050	4589841	N/A
Total Organic Carbon (C)	mg/L	29 (1)	5.0	4589617	23 (2)	5.0	4589617	<5.0 (2)	5.0	4589617	N/A
Orthophosphate (P)	mg/L	0.058	0.010	4589715	0.010	0.010	4589715	0.031	0.010	4589715	N/A
pH	pH	6.94	N/A	4592060	5.99	N/A	4592060	7.95	N/A	4589410	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	17	0.50	4589709	10	0.50	4589709	18	0.50	4589709	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	15	2.0	4589707	<2.0	2.0	4589707	12	2.0	4589707	N/A
Turbidity	NTU	24	0.10	4589502	>1000	1.0	4589508	900	1.0	4589515	0.10
Conductivity	uS/cm	580	1.0	4589413	150	1.0	4589413	240	1.0	4589411	N/A

#### Metals

Dissolved Aluminum (Al)	ug/L	75	5.0	4589416	89	5.0	4589416	<5.0	5.0	4589416	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	4589416	<1.0	1.0	4589416	<1.0	1.0	4589416	N/A
Dissolved Arsenic (As)	ug/L	8.9	1.0	4589416	30	1.0	4589416	9.1	1.0	4589416	N/A
Dissolved Barium (Ba)	ug/L	40	1.0	4589416	48	1.0	4589416	30	1.0	4589416	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) Elevated reporting limit due to sample matrix.

(2) Reporting limit was increased due to turbidity.



Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

### AT. RCAP-MS DISSOLVED (FIELDILT) IN W

Maxxam ID		CSR723			CSR725			CSR726			
Sampling Date		2016/07/15			2016/07/15			2016/07/15			
COC Number		568672-02-01			568672-02-01			568672-02-01			
	UNITS	MW10	RDL	QC Batch	MW12	RDL	QC Batch	MW-DUP	RDL	QC Batch	MDL
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	4589416	<1.0	1.0	4589416	<1.0	1.0	4589416	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	4589416	<2.0	2.0	4589416	<2.0	2.0	4589416	N/A
Dissolved Boron (B)	ug/L	<50	50	4589416	<50	50	4589416	1000	50	4589416	N/A
Dissolved Cadmium (Cd)	ug/L	0.038	0.010	4589416	<0.010	0.010	4589416	<0.010	0.010	4589416	N/A
Dissolved Calcium (Ca)	ug/L	59000	100	4589416	7700	100	4589416	25000	100	4589416	N/A
Dissolved Chromium (Cr)	ug/L	1.7	1.0	4589416	2.9	1.0	4589416	<1.0	1.0	4589416	N/A
Dissolved Cobalt (Co)	ug/L	52	0.40	4589416	28	0.40	4589416	<0.40	0.40	4589416	N/A
Dissolved Copper (Cu)	ug/L	2.0	2.0	4589416	<2.0	2.0	4589416	<2.0	2.0	4589416	N/A
Dissolved Iron (Fe)	ug/L	7400	50	4589416	84000	50	4589416	<50	50	4589416	N/A
Dissolved Lead (Pb)	ug/L	<0.50	0.50	4589416	<0.50	0.50	4589416	<0.50	0.50	4589416	N/A
Dissolved Magnesium (Mg)	ug/L	18000	100	4589416	2400	100	4589416	10000	100	4589416	N/A
Dissolved Manganese (Mn)	ug/L	19000	2.0	4589416	1400	2.0	4589416	110	2.0	4589416	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	4589416	<2.0	2.0	4589416	<2.0	2.0	4589416	N/A
Dissolved Nickel (Ni)	ug/L	12	2.0	4589416	8.6	2.0	4589416	3.3	2.0	4589416	N/A
Dissolved Phosphorus (P)	ug/L	100	100	4589416	<100	100	4589416	<100	100	4589416	N/A
Dissolved Potassium (K)	ug/L	9300	100	4589416	3900	100	4589416	3300	100	4589416	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	4589416	<1.0	1.0	4589416	<1.0	1.0	4589416	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	4589416	<0.10	0.10	4589416	<0.10	0.10	4589416	N/A
Dissolved Sodium (Na)	ug/L	16000	100	4589416	12000	100	4589416	11000	100	4589416	N/A
Dissolved Strontium (Sr)	ug/L	330	2.0	4589416	64	2.0	4589416	150	2.0	4589416	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	4589416	<0.10	0.10	4589416	<0.10	0.10	4589416	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	4589416	<2.0	2.0	4589416	<2.0	2.0	4589416	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	2.0	4589416	<2.0	2.0	4589416	<2.0	2.0	4589416	N/A
Dissolved Uranium (U)	ug/L	0.22	0.10	4589416	0.37	0.10	4589416	0.78	0.10	4589416	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	4589416	3.9	2.0	4589416	<2.0	2.0	4589416	N/A
Dissolved Zinc (Zn)	ug/L	15	5.0	4589416	13	5.0	4589416	<5.0	5.0	4589416	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable											

Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

### MERCURY BY COLD VAPOUR AA (WATER)

Maxxam ID		CSR707	CSR708	CSR709	CSR710	CSR711	CSR712			
Sampling Date		2016/07/15	2016/07/15	2016/07/15	2016/07/15	2016/07/15	2016/07/15			
COC Number		568672-01-01	568672-01-01	568672-01-01	568672-01-01	568672-01-01	568672-01-01			
	UNITS	MW1S	MW1D	MW2D	MW3S	MW3D	MW4S	RDL	QC Batch	MDL

#### Metals

Total Mercury (Hg)	ug/L	0.027	<0.013	<0.013	<0.013	<0.013	0.062	0.013	4588199	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

Maxxam ID		CSR713	CSR714	CSR715		CSR719	CSR720			
Sampling Date		2016/07/15	2016/07/15	2016/07/15		2016/07/15	2016/07/15			
COC Number		568672-01-01	568672-01-01	568672-01-01		568672-02-01	568672-02-01			
	UNITS	MW4D	MW5S	MW6D	QC Batch	MW6S	MW7	RDL	QC Batch	MDL

#### Metals

Total Mercury (Hg)	ug/L	<0.013	0.015	0.023	4588199	0.38	0.27	0.013	4588201	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

Maxxam ID		CSR721	CSR722	CSR723	CSR724	CSR725	CSR726			
Sampling Date		2016/07/15	2016/07/15	2016/07/15	2016/07/15	2016/07/15	2016/07/15			
COC Number		568672-02-01	568672-02-01	568672-02-01	568672-02-01	568672-02-01	568672-02-01			
	UNITS	MW8	MW9	MW10	MW11	MW12	MW-DUP	RDL	QC Batch	MDL

#### Metals

Total Mercury (Hg)	ug/L	0.043	0.018	<0.013	0.83	0.028	<0.013	0.013	4588201	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

### ELEMENTS BY ICP/MS (WATER)

<b>Maxxam ID</b>		CSR707		CSR708	CSR709		CSR710			
<b>Sampling Date</b>		2016/07/15		2016/07/15	2016/07/15		2016/07/15			
<b>COC Number</b>		568672-01-01		568672-01-01	568672-01-01		568672-01-01			
	<b>UNITS</b>	<b>MW1S</b>	<b>QC Batch</b>	<b>MW1D</b>	<b>MW2D</b>	<b>QC Batch</b>	<b>MW3S</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Metals

Total Lead (Pb)	ug/L	26	4587765	1.1	2.0	4587985	1.3	0.50	4587765	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

<b>Maxxam ID</b>		CSR711		CSR712			CSR713		CSR714			
<b>Sampling Date</b>		2016/07/15		2016/07/15			2016/07/15		2016/07/15			
<b>COC Number</b>		568672-01-01		568672-01-01			568672-01-01		568672-01-01			
	<b>UNITS</b>	<b>MW3D</b>	<b>RDL</b>	<b>MW4S</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MW4D</b>	<b>QC Batch</b>	<b>MW5S</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Metals

Total Lead (Pb)	ug/L	1.3	0.50	210	5.0	4587765	0.60	4587985	8.6	0.50	4587765	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

<b>Maxxam ID</b>		CSR715	CSR719	CSR720	CSR721	CSR722			
<b>Sampling Date</b>		2016/07/15	2016/07/15	2016/07/15	2016/07/15	2016/07/15			
<b>COC Number</b>		568672-01-01	568672-02-01	568672-02-01	568672-02-01	568672-02-01			
	<b>UNITS</b>	<b>MW6D</b>	<b>MW6S</b>	<b>MW7</b>	<b>MW8</b>	<b>MW9</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Metals

Total Lead (Pb)	ug/L	25	8.5	110	56	<0.50	0.50	4587765	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

<b>Maxxam ID</b>		CSR723	CSR724	CSR725	CSR726			
<b>Sampling Date</b>		2016/07/15	2016/07/15	2016/07/15	2016/07/15			
<b>COC Number</b>		568672-02-01	568672-02-01	568672-02-01	568672-02-01			
	<b>UNITS</b>	<b>MW10</b>	<b>MW11</b>	<b>MW12</b>	<b>MW-DUP</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Metals

Total Lead (Pb)	ug/L	0.76	44	19	7.9	0.50	4587985	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** CSR707  
**Sample ID:** MW1S  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4585151	N/A	2016/07/22	Automated Statchk
Alkalinity	KONE	4589703	N/A	2016/07/25	Nancy Rogers
Chloride	KONE	4589706	N/A	2016/07/26	Mary Clancey
Colour	KONE	4589713	N/A	2016/07/25	Nancy Rogers
Conductance - water	AT	4589413	N/A	2016/07/22	Julia McGovern
Hardness (calculated as CaCO3)		4585015	N/A	2016/07/25	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588199	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4589406	N/A	2016/07/22	Bryon Angevine
Metals Water Total MS	CICP/MS	4587765	2016/07/21	2016/07/22	Bryon Angevine
Ion Balance (% Difference)	CALC	4583967	N/A	2016/07/26	Automated Statchk
Anion and Cation Sum	CALC	4583968	N/A	2016/07/26	Automated Statchk
Nitrogen Ammonia - water	KONE	4589837	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4589717	N/A	2016/07/26	Nancy Rogers
Nitrogen - Nitrite	KONE	4589719	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4584921	N/A	2016/07/26	Automated Statchk
pH	AT	4589412	N/A	2016/07/22	Julia McGovern
Phosphorus - ortho	KONE	4589715	N/A	2016/07/25	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4583971	N/A	2016/07/26	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4583972	N/A	2016/07/26	Automated Statchk
Reactive Silica	KONE	4589709	N/A	2016/07/26	Nancy Rogers
Sulphate	KONE	4589707	N/A	2016/07/25	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4583973	N/A	2016/07/26	Automated Statchk
Organic carbon - Total (TOC)	TECH	4589466	N/A	2016/07/22	Soraya Merchant
Turbidity	TURB	4589508	N/A	2016/07/22	Julia McGovern

**Maxxam ID:** CSR708  
**Sample ID:** MW1D  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4585151	N/A	2016/07/22	Automated Statchk
Alkalinity	KONE	4589703	N/A	2016/07/26	Nancy Rogers
Chloride	KONE	4589706	N/A	2016/07/26	Mary Clancey
Colour	KONE	4589713	N/A	2016/07/25	Nancy Rogers
Conductance - water	AT	4589413	N/A	2016/07/22	Julia McGovern
Hardness (calculated as CaCO3)		4585015	N/A	2016/07/22	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588199	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4589416	N/A	2016/07/22	Bryon Angevine
Metals Water Total MS	CICP/MS	4587985	2016/07/21	2016/07/22	Bryon Angevine
Ion Balance (% Difference)	CALC	4585152	N/A	2016/07/26	Automated Statchk
Anion and Cation Sum	CALC	4585153	N/A	2016/07/26	Automated Statchk
Nitrogen Ammonia - water	KONE	4589837	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4589717	N/A	2016/07/26	Nancy Rogers

Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** CSR708  
**Sample ID:** MW1D  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrite	KONE	4589719	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4584921	N/A	2016/07/26	Automated Statchk
pH	AT	4592060	N/A	2016/07/25	Julia McGovern
Phosphorus - ortho	KONE	4589715	N/A	2016/07/25	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4585154	N/A	2016/07/26	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4585155	N/A	2016/07/26	Automated Statchk
Reactive Silica	KONE	4589709	N/A	2016/07/26	Nancy Rogers
Sulphate	KONE	4589707	N/A	2016/07/25	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4585156	N/A	2016/07/26	Automated Statchk
Organic carbon - Total (TOC)	TECH	4589466	N/A	2016/07/22	Soraya Merchant
Turbidity	TURB	4589508	N/A	2016/07/22	Julia McGovern

**Maxxam ID:** CSR709  
**Sample ID:** MW2D  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4585151	N/A	2016/07/22	Automated Statchk
Alkalinity	KONE	4589703	N/A	2016/07/26	Nancy Rogers
Chloride	KONE	4589706	N/A	2016/07/26	Mary Clancey
Colour	KONE	4589713	N/A	2016/07/25	Nancy Rogers
Conductance - water	AT	4589413	N/A	2016/07/22	Julia McGovern
Hardness (calculated as CaCO3)		4585015	N/A	2016/07/22	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588199	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4589416	N/A	2016/07/22	Bryon Angevine
Metals Water Total MS	CICP/MS	4587985	2016/07/21	2016/07/22	Bryon Angevine
Ion Balance (% Difference)	CALC	4585152	N/A	2016/07/26	Automated Statchk
Anion and Cation Sum	CALC	4585153	N/A	2016/07/26	Automated Statchk
Nitrogen Ammonia - water	KONE	4589837	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4589717	N/A	2016/07/26	Nancy Rogers
Nitrogen - Nitrite	KONE	4589719	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4584921	N/A	2016/07/26	Automated Statchk
pH	AT	4592060	N/A	2016/07/25	Julia McGovern
Phosphorus - ortho	KONE	4589715	N/A	2016/07/25	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4585154	N/A	2016/07/26	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4585155	N/A	2016/07/26	Automated Statchk
Reactive Silica	KONE	4589709	N/A	2016/07/26	Nancy Rogers
Sulphate	KONE	4589707	N/A	2016/07/25	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4585156	N/A	2016/07/26	Automated Statchk
Organic carbon - Total (TOC)	TECH	4589466	N/A	2016/07/22	Soraya Merchant
Turbidity	TURB	4589508	N/A	2016/07/22	Julia McGovern

Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** CSR710  
**Sample ID:** MW3S  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4585151	N/A	2016/07/22	Automated Statchk
Alkalinity	KONE	4589703	N/A	2016/07/26	Nancy Rogers
Chloride	KONE	4589706	N/A	2016/07/26	Mary Clancey
Colour	KONE	4589713	N/A	2016/07/25	Nancy Rogers
Conductance - water	AT	4589413	N/A	2016/07/22	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4585015	N/A	2016/07/25	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588199	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4589406	N/A	2016/07/22	Bryon Angevine
Metals Water Total MS	CICP/MS	4587765	2016/07/21	2016/07/22	Bryon Angevine
Ion Balance (% Difference)	CALC	4585152	N/A	2016/07/26	Automated Statchk
Anion and Cation Sum	CALC	4585153	N/A	2016/07/26	Automated Statchk
Nitrogen Ammonia - water	KONE	4589841	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4589717	N/A	2016/07/26	Nancy Rogers
Nitrogen - Nitrite	KONE	4589719	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4584921	N/A	2016/07/26	Automated Statchk
pH	AT	4589412	N/A	2016/07/22	Julia McGovern
Phosphorus - ortho	KONE	4589715	N/A	2016/07/25	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4585154	N/A	2016/07/26	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4585155	N/A	2016/07/26	Automated Statchk
Reactive Silica	KONE	4589709	N/A	2016/07/26	Nancy Rogers
Sulphate	KONE	4589707	N/A	2016/07/25	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4585156	N/A	2016/07/26	Automated Statchk
Organic carbon - Total (TOC)	TECH	4589466	N/A	2016/07/22	Soraya Merchant
Turbidity	TURB	4589508	N/A	2016/07/22	Julia McGovern

**Maxxam ID:** CSR711  
**Sample ID:** MW3D  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4585151	N/A	2016/07/22	Automated Statchk
Alkalinity	KONE	4589703	N/A	2016/07/26	Nancy Rogers
Chloride	KONE	4589706	N/A	2016/07/26	Mary Clancey
Colour	KONE	4589713	N/A	2016/07/25	Nancy Rogers
Conductance - water	AT	4589413	N/A	2016/07/22	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4585015	N/A	2016/07/25	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588199	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4589416	N/A	2016/07/22	Bryon Angevine
Metals Water Total MS	CICP/MS	4587765	2016/07/21	2016/07/22	Bryon Angevine
Ion Balance (% Difference)	CALC	4585152	N/A	2016/07/26	Automated Statchk
Anion and Cation Sum	CALC	4585153	N/A	2016/07/26	Automated Statchk
Nitrogen Ammonia - water	KONE	4589841	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4589717	N/A	2016/07/26	Nancy Rogers



Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** CSR711  
**Sample ID:** MW3D  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrite	KONE	4589719	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4584921	N/A	2016/07/26	Automated Statchk
pH	AT	4592060	N/A	2016/07/25	Julia McGovern
Phosphorus - ortho	KONE	4589715	N/A	2016/07/25	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4585154	N/A	2016/07/26	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4585155	N/A	2016/07/26	Automated Statchk
Reactive Silica	KONE	4589709	N/A	2016/07/26	Nancy Rogers
Sulphate	KONE	4589707	N/A	2016/07/25	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4585156	N/A	2016/07/26	Automated Statchk
Organic carbon - Total (TOC)	TECH	4589466	N/A	2016/07/22	Soraya Merchant
Turbidity	TURB	4589508	N/A	2016/07/22	Julia McGovern

**Maxxam ID:** CSR712  
**Sample ID:** MW4S  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4585151	N/A	2016/07/22	Automated Statchk
Alkalinity	KONE	4589703	N/A	2016/07/25	Nancy Rogers
Chloride	KONE	4589706	N/A	2016/07/26	Mary Clancey
Colour	KONE	4589713	N/A	2016/07/25	Nancy Rogers
Conductance - water	AT	4589413	N/A	2016/07/22	Julia McGovern
Hardness (calculated as CaCO3)		4585015	N/A	2016/07/25	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588199	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4589406	N/A	2016/07/22	Bryon Angevine
Metals Water Total MS	CICP/MS	4587765	2016/07/21	2016/07/22	Bryon Angevine
Ion Balance (% Difference)	CALC	4585152	N/A	2016/07/26	Automated Statchk
Anion and Cation Sum	CALC	4585153	N/A	2016/07/26	Automated Statchk
Nitrogen Ammonia - water	KONE	4589841	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4589717	N/A	2016/07/26	Nancy Rogers
Nitrogen - Nitrite	KONE	4589719	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4584921	N/A	2016/07/26	Automated Statchk
pH	AT	4589412	N/A	2016/07/22	Julia McGovern
Phosphorus - ortho	KONE	4589715	N/A	2016/07/25	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4585154	N/A	2016/07/26	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4585155	N/A	2016/07/26	Automated Statchk
Reactive Silica	KONE	4589709	N/A	2016/07/26	Nancy Rogers
Sulphate	KONE	4589707	N/A	2016/07/25	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4585156	N/A	2016/07/26	Automated Statchk
Organic carbon - Total (TOC)	TECH	4589466	N/A	2016/07/22	Soraya Merchant
Turbidity	TURB	4589508	N/A	2016/07/22	Julia McGovern

Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** CSR713  
**Sample ID:** MW4D  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4585151	N/A	2016/07/22	Automated Statchk
Alkalinity	KONE	4589703	N/A	2016/07/25	Nancy Rogers
Chloride	KONE	4589706	N/A	2016/07/26	Mary Clancey
Colour	KONE	4589713	N/A	2016/07/25	Nancy Rogers
Conductance - water	AT	4589413	N/A	2016/07/22	Julia McGovern
Hardness (calculated as CaCO3)		4585015	N/A	2016/07/22	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588199	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4589416	N/A	2016/07/22	Bryon Angevine
Metals Water Total MS	CICP/MS	4587985	2016/07/21	2016/07/22	Bryon Angevine
Ion Balance (% Difference)	CALC	4585152	N/A	2016/07/26	Automated Statchk
Anion and Cation Sum	CALC	4585153	N/A	2016/07/26	Automated Statchk
Nitrogen Ammonia - water	KONE	4589841	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4589717	N/A	2016/07/26	Nancy Rogers
Nitrogen - Nitrite	KONE	4589719	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4584921	N/A	2016/07/26	Automated Statchk
pH	AT	4592060	N/A	2016/07/25	Julia McGovern
Phosphorus - ortho	KONE	4589715	N/A	2016/07/25	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4585154	N/A	2016/07/26	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4585155	N/A	2016/07/26	Automated Statchk
Reactive Silica	KONE	4589709	N/A	2016/07/26	Nancy Rogers
Sulphate	KONE	4589707	N/A	2016/07/25	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4585156	N/A	2016/07/26	Automated Statchk
Organic carbon - Total (TOC)	TECH	4589466	N/A	2016/07/22	Soraya Merchant
Turbidity	TURB	4589508	N/A	2016/07/22	Julia McGovern

**Maxxam ID:** CSR713 Dup  
**Sample ID:** MW4D  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Water Diss. MS (as rec'd)	CICP/MS	4589416	N/A	2016/07/22	Bryon Angevine

**Maxxam ID:** CSR714  
**Sample ID:** MW5S  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4585151	N/A	2016/07/22	Automated Statchk
Alkalinity	KONE	4589703	N/A	2016/07/25	Nancy Rogers
Chloride	KONE	4589706	N/A	2016/07/26	Mary Clancey
Colour	KONE	4589713	N/A	2016/07/25	Nancy Rogers
Conductance - water	AT	4589415	N/A	2016/07/22	Julia McGovern
Hardness (calculated as CaCO3)		4585015	N/A	2016/07/25	Automated Statchk

Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** CSR714  
**Sample ID:** MW5S  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury - Total (CVAA,LL)	CV/AA	4588199	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4589406	N/A	2016/07/22	Bryon Angevine
Metals Water Total MS	CICP/MS	4587765	2016/07/21	2016/07/22	Bryon Angevine
Ion Balance (% Difference)	CALC	4585152	N/A	2016/07/26	Automated Statchk
Anion and Cation Sum	CALC	4585153	N/A	2016/07/26	Automated Statchk
Nitrogen Ammonia - water	KONE	4589841	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4589717	N/A	2016/07/26	Nancy Rogers
Nitrogen - Nitrite	KONE	4589719	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4584921	N/A	2016/07/26	Automated Statchk
pH	AT	4589414	N/A	2016/07/22	Julia McGovern
Phosphorus - ortho	KONE	4589715	N/A	2016/07/25	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4585154	N/A	2016/07/26	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4585155	N/A	2016/07/26	Automated Statchk
Reactive Silica	KONE	4589709	N/A	2016/07/26	Nancy Rogers
Sulphate	KONE	4589707	N/A	2016/07/25	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4585156	N/A	2016/07/26	Automated Statchk
Organic carbon - Total (TOC)	TECH	4589466	N/A	2016/07/22	Soraya Merchant
Turbidity	TURB	4589522	N/A	2016/07/22	Julia McGovern

**Maxxam ID:** CSR714 Dup  
**Sample ID:** MW5S  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	KONE	4589703	N/A	2016/07/26	Nancy Rogers
Chloride	KONE	4589706	N/A	2016/07/26	Mary Clancey
Colour	KONE	4589713	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4589717	N/A	2016/07/26	Nancy Rogers
Nitrogen - Nitrite	KONE	4589719	N/A	2016/07/25	Nancy Rogers
Phosphorus - ortho	KONE	4589715	N/A	2016/07/25	Nancy Rogers
Reactive Silica	KONE	4589709	N/A	2016/07/26	Nancy Rogers
Sulphate	KONE	4589707	N/A	2016/07/25	Nancy Rogers

**Maxxam ID:** CSR715  
**Sample ID:** MW6D  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4585151	N/A	2016/07/22	Automated Statchk
Alkalinity	KONE	4589703	N/A	2016/07/25	Nancy Rogers
Chloride	KONE	4589706	N/A	2016/07/26	Mary Clancey
Colour	KONE	4589713	N/A	2016/07/25	Nancy Rogers
Conductance - water	AT	4589415	N/A	2016/07/22	Julia McGovern

Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** CSR715  
**Sample ID:** MW6D  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Hardness (calculated as CaCO <sub>3</sub> )		4585015	N/A	2016/07/25	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588199	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4589406	N/A	2016/07/22	Bryon Angevine
Metals Water Total MS	CICP/MS	4587765	2016/07/21	2016/07/22	Bryon Angevine
Ion Balance (% Difference)	CALC	4585152	N/A	2016/07/26	Automated Statchk
Anion and Cation Sum	CALC	4585153	N/A	2016/07/26	Automated Statchk
Nitrogen Ammonia - water	KONE	4589841	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4589717	N/A	2016/07/26	Nancy Rogers
Nitrogen - Nitrite	KONE	4589719	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4584921	N/A	2016/07/26	Automated Statchk
pH	AT	4589414	N/A	2016/07/22	Julia McGovern
Phosphorus - ortho	KONE	4589715	N/A	2016/07/25	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4585154	N/A	2016/07/26	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4585155	N/A	2016/07/26	Automated Statchk
Reactive Silica	KONE	4589709	N/A	2016/07/26	Nancy Rogers
Sulphate	KONE	4589707	N/A	2016/07/25	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4585156	N/A	2016/07/26	Automated Statchk
Organic carbon - Total (TOC)	TECH	4589466	N/A	2016/07/22	Soraya Merchant
Turbidity	TURB	4589502	N/A	2016/07/22	Julia McGovern

**Maxxam ID:** CSR719  
**Sample ID:** MW6S  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4585151	N/A	2016/07/22	Automated Statchk
Alkalinity	KONE	4589703	N/A	2016/07/26	Nancy Rogers
Chloride	KONE	4589706	N/A	2016/07/26	Mary Clancey
Colour	KONE	4589713	N/A	2016/07/25	Nancy Rogers
Conductance - water	AT	4589413	N/A	2016/07/22	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4585015	N/A	2016/07/25	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588201	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4589406	N/A	2016/07/22	Bryon Angevine
Metals Water Total MS	CICP/MS	4587765	2016/07/21	2016/07/22	Bryon Angevine
Ion Balance (% Difference)	CALC	4585152	N/A	2016/07/26	Automated Statchk
Anion and Cation Sum	CALC	4585153	N/A	2016/07/26	Automated Statchk
Nitrogen Ammonia - water	KONE	4589841	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4589717	N/A	2016/07/26	Nancy Rogers
Nitrogen - Nitrite	KONE	4589719	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4584921	N/A	2016/07/26	Automated Statchk
pH	AT	4592060	N/A	2016/07/25	Julia McGovern
Phosphorus - ortho	KONE	4589715	N/A	2016/07/25	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4585154	N/A	2016/07/26	Automated Statchk

Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** CSR719  
**Sample ID:** MW6S  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sat. pH and Langelier Index (@ 4C)	CALC	4585155	N/A	2016/07/26	Automated Statchk
Reactive Silica	KONE	4589709	N/A	2016/07/26	Nancy Rogers
Sulphate	KONE	4589707	N/A	2016/07/25	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4585156	N/A	2016/07/26	Automated Statchk
Organic carbon - Total (TOC)	TECH	4589466	N/A	2016/07/22	Soraya Merchant
Turbidity	TURB	4589508	N/A	2016/07/22	Julia McGovern

**Maxxam ID:** CSR720  
**Sample ID:** MW7  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4585151	N/A	2016/07/22	Automated Statchk
Alkalinity	KONE	4589703	N/A	2016/07/26	Nancy Rogers
Chloride	KONE	4589706	N/A	2016/07/26	Mary Clancey
Colour	KONE	4589713	N/A	2016/07/25	Nancy Rogers
Conductance - water	AT	4589413	N/A	2016/07/22	Julia McGovern
Hardness (calculated as CaCO3)		4585015	N/A	2016/07/25	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588201	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4589406	N/A	2016/07/22	Bryon Angevine
Metals Water Total MS	CICP/MS	4587765	2016/07/21	2016/07/22	Bryon Angevine
Ion Balance (% Difference)	CALC	4585152	N/A	2016/07/26	Automated Statchk
Anion and Cation Sum	CALC	4585153	N/A	2016/07/26	Automated Statchk
Nitrogen Ammonia - water	KONE	4589841	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4589717	N/A	2016/07/26	Nancy Rogers
Nitrogen - Nitrite	KONE	4589719	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4584921	N/A	2016/07/26	Automated Statchk
pH	AT	4592060	N/A	2016/07/25	Julia McGovern
Phosphorus - ortho	KONE	4589715	N/A	2016/07/25	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4585154	N/A	2016/07/26	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4585155	N/A	2016/07/26	Automated Statchk
Reactive Silica	KONE	4589709	N/A	2016/07/26	Nancy Rogers
Sulphate	KONE	4589707	N/A	2016/07/25	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4585156	N/A	2016/07/26	Automated Statchk
Organic carbon - Total (TOC)	TECH	4589466	N/A	2016/07/22	Soraya Merchant
Turbidity	TURB	4589508	N/A	2016/07/22	Julia McGovern

**Maxxam ID:** CSR721  
**Sample ID:** MW8  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4585151	N/A	2016/07/22	Automated Statchk

Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** CSR721  
**Sample ID:** MW8  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	KONE	4589703	N/A	2016/07/26	Nancy Rogers
Chloride	KONE	4589706	N/A	2016/07/26	Mary Clancey
Colour	KONE	4589713	N/A	2016/07/25	Nancy Rogers
Conductance - water	AT	4589413	N/A	2016/07/22	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4585015	N/A	2016/07/25	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588201	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4589406	N/A	2016/07/22	Bryon Angevine
Metals Water Total MS	CICP/MS	4587765	2016/07/21	2016/07/22	Bryon Angevine
Ion Balance (% Difference)	CALC	4585152	N/A	2016/07/26	Automated Statchk
Anion and Cation Sum	CALC	4585153	N/A	2016/07/26	Automated Statchk
Nitrogen Ammonia - water	KONE	4589841	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4589717	N/A	2016/07/26	Nancy Rogers
Nitrogen - Nitrite	KONE	4589719	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4584921	N/A	2016/07/26	Automated Statchk
pH	AT	4592060	N/A	2016/07/25	Julia McGovern
Phosphorus - ortho	KONE	4589715	N/A	2016/07/25	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4585154	N/A	2016/07/26	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4585155	N/A	2016/07/26	Automated Statchk
Reactive Silica	KONE	4589709	N/A	2016/07/26	Nancy Rogers
Sulphate	KONE	4589707	N/A	2016/07/25	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4585156	N/A	2016/07/26	Automated Statchk
Organic carbon - Total (TOC)	TECH	4589466	N/A	2016/07/22	Soraya Merchant
Turbidity	TURB	4589508	N/A	2016/07/22	Julia McGovern

**Maxxam ID:** CSR722  
**Sample ID:** MW9  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4585151	N/A	2016/07/22	Automated Statchk
Alkalinity	KONE	4589703	N/A	2016/07/25	Nancy Rogers
Chloride	KONE	4589706	N/A	2016/07/26	Mary Clancey
Colour	KONE	4589713	N/A	2016/07/25	Nancy Rogers
Conductance - water	AT	4589413	N/A	2016/07/22	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4585015	N/A	2016/07/25	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588201	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4589416	N/A	2016/07/22	Bryon Angevine
Metals Water Total MS	CICP/MS	4587765	2016/07/21	2016/07/22	Bryon Angevine
Ion Balance (% Difference)	CALC	4585152	N/A	2016/07/26	Automated Statchk
Anion and Cation Sum	CALC	4585153	N/A	2016/07/26	Automated Statchk
Nitrogen Ammonia - water	KONE	4589841	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4589717	N/A	2016/07/26	Nancy Rogers
Nitrogen - Nitrite	KONE	4589719	N/A	2016/07/25	Nancy Rogers



Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** CSR722  
**Sample ID:** MW9  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrate (as N)	CALC	4584921	N/A	2016/07/26	Automated Statchk
pH	AT	4592060	N/A	2016/07/25	Julia McGovern
Phosphorus - ortho	KONE	4589715	N/A	2016/07/25	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4585154	N/A	2016/07/26	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4585155	N/A	2016/07/26	Automated Statchk
Reactive Silica	KONE	4589709	N/A	2016/07/26	Nancy Rogers
Sulphate	KONE	4589707	N/A	2016/07/25	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4585156	N/A	2016/07/26	Automated Statchk
Organic carbon - Total (TOC)	TECH	4589617	N/A	2016/07/22	Soraya Merchant
Turbidity	TURB	4589508	N/A	2016/07/22	Julia McGovern

**Maxxam ID:** CSR723  
**Sample ID:** MW10  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4585151	N/A	2016/07/22	Automated Statchk
Alkalinity	KONE	4589703	N/A	2016/07/26	Nancy Rogers
Chloride	KONE	4589706	N/A	2016/07/26	Mary Clancey
Colour	KONE	4589713	N/A	2016/07/25	Nancy Rogers
Conductance - water	AT	4589413	N/A	2016/07/22	Julia McGovern
Hardness (calculated as CaCO3)		4585015	N/A	2016/07/22	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588201	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4589416	N/A	2016/07/22	Bryon Angevine
Metals Water Total MS	CICP/MS	4587985	2016/07/21	2016/07/22	Bryon Angevine
Ion Balance (% Difference)	CALC	4585152	N/A	2016/07/26	Automated Statchk
Anion and Cation Sum	CALC	4585153	N/A	2016/07/26	Automated Statchk
Nitrogen Ammonia - water	KONE	4589841	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4589717	N/A	2016/07/26	Nancy Rogers
Nitrogen - Nitrite	KONE	4589719	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4584921	N/A	2016/07/26	Automated Statchk
pH	AT	4592060	N/A	2016/07/25	Julia McGovern
Phosphorus - ortho	KONE	4589715	N/A	2016/07/25	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4585154	N/A	2016/07/26	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4585155	N/A	2016/07/26	Automated Statchk
Reactive Silica	KONE	4589709	N/A	2016/07/26	Nancy Rogers
Sulphate	KONE	4589707	N/A	2016/07/25	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4585156	N/A	2016/07/26	Automated Statchk
Organic carbon - Total (TOC)	TECH	4589617	N/A	2016/07/22	Soraya Merchant
Turbidity	TURB	4589502	N/A	2016/07/22	Julia McGovern

Maxxam Job #: B6F0322  
Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** CSR724  
**Sample ID:** MW11  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4585151	N/A	2016/07/22	Automated Statchk
Alkalinity	KONE	4589703	N/A	2016/07/26	Nancy Rogers
Chloride	KONE	4589706	N/A	2016/07/26	Mary Clancey
Colour	KONE	4589713	N/A	2016/07/25	Nancy Rogers
Conductance - water	AT	4589413	N/A	2016/07/22	Julia McGovern
Hardness (calculated as CaCO3)		4585015	N/A	2016/07/25	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588201	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4589406	N/A	2016/07/22	Bryon Angevine
Metals Water Total MS	CICP/MS	4587985	2016/07/21	2016/07/22	Bryon Angevine
Ion Balance (% Difference)	CALC	4585152	N/A	2016/07/26	Automated Statchk
Anion and Cation Sum	CALC	4585153	N/A	2016/07/26	Automated Statchk
Nitrogen Ammonia - water	KONE	4589841	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4589717	N/A	2016/07/26	Nancy Rogers
Nitrogen - Nitrite	KONE	4589719	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4584921	N/A	2016/07/26	Automated Statchk
pH	AT	4592060	N/A	2016/07/25	Julia McGovern
Phosphorus - ortho	KONE	4589715	N/A	2016/07/25	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4585154	N/A	2016/07/26	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4585155	N/A	2016/07/26	Automated Statchk
Reactive Silica	KONE	4589709	N/A	2016/07/26	Nancy Rogers
Sulphate	KONE	4589707	N/A	2016/07/25	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4585156	N/A	2016/07/26	Automated Statchk
Organic carbon - Total (TOC)	TECH	4589617	N/A	2016/07/22	Soraya Merchant
Turbidity	TURB	4589508	N/A	2016/07/22	Julia McGovern

**Maxxam ID:** CSR725  
**Sample ID:** MW12  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4585151	N/A	2016/07/22	Automated Statchk
Alkalinity	KONE	4589703	N/A	2016/07/26	Nancy Rogers
Chloride	KONE	4589706	N/A	2016/07/26	Mary Clancey
Colour	KONE	4589713	N/A	2016/07/25	Nancy Rogers
Conductance - water	AT	4589413	N/A	2016/07/22	Julia McGovern
Hardness (calculated as CaCO3)		4585015	N/A	2016/07/25	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588201	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4589416	N/A	2016/07/22	Bryon Angevine
Metals Water Total MS	CICP/MS	4587985	2016/07/21	2016/07/22	Bryon Angevine
Ion Balance (% Difference)	CALC	4585152	N/A	2016/07/26	Automated Statchk
Anion and Cation Sum	CALC	4585153	N/A	2016/07/26	Automated Statchk
Nitrogen Ammonia - water	KONE	4589841	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4589717	N/A	2016/07/26	Nancy Rogers

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Report Date: 2016/07/26

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** CSR725  
**Sample ID:** MW12  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrite	KONE	4589719	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4584921	N/A	2016/07/26	Automated Statchk
pH	AT	4592060	N/A	2016/07/25	Julia McGovern
Phosphorus - ortho	KONE	4589715	N/A	2016/07/25	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4585154	N/A	2016/07/26	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4585155	N/A	2016/07/26	Automated Statchk
Reactive Silica	KONE	4589709	N/A	2016/07/26	Nancy Rogers
Sulphate	KONE	4589707	N/A	2016/07/25	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4585156	N/A	2016/07/26	Automated Statchk
Organic carbon - Total (TOC)	TECH	4589617	N/A	2016/07/22	Soraya Merchant
Turbidity	TURB	4589508	N/A	2016/07/22	Julia McGovern

**Maxxam ID:** CSR726  
**Sample ID:** MW-DUP  
**Matrix:** Water

**Collected:** 2016/07/15  
**Shipped:**  
**Received:** 2016/07/18

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4585151	N/A	2016/07/22	Automated Statchk
Alkalinity	KONE	4589703	N/A	2016/07/26	Nancy Rogers
Chloride	KONE	4589706	N/A	2016/07/26	Mary Clancey
Colour	KONE	4589713	N/A	2016/07/25	Nancy Rogers
Conductance - water	AT	4589411	N/A	2016/07/22	Julia McGovern
Hardness (calculated as CaCO3)		4585015	N/A	2016/07/25	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4588201	2016/07/21	2016/07/22	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4589416	N/A	2016/07/22	Bryon Angevine
Metals Water Total MS	CICP/MS	4587985	2016/07/21	2016/07/22	Bryon Angevine
Ion Balance (% Difference)	CALC	4585152	N/A	2016/07/26	Automated Statchk
Anion and Cation Sum	CALC	4585153	N/A	2016/07/26	Automated Statchk
Nitrogen Ammonia - water	KONE	4589841	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4589717	N/A	2016/07/26	Nancy Rogers
Nitrogen - Nitrite	KONE	4589719	N/A	2016/07/25	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4584921	N/A	2016/07/26	Automated Statchk
pH	AT	4589410	N/A	2016/07/22	Julia McGovern
Phosphorus - ortho	KONE	4589715	N/A	2016/07/25	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4585154	N/A	2016/07/26	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4585155	N/A	2016/07/26	Automated Statchk
Reactive Silica	KONE	4589709	N/A	2016/07/26	Nancy Rogers
Sulphate	KONE	4589707	N/A	2016/07/25	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4585156	N/A	2016/07/26	Automated Statchk
Organic carbon - Total (TOC)	TECH	4589617	N/A	2016/07/22	Soraya Merchant
Turbidity	TURB	4589515	N/A	2016/07/22	Julia McGovern

Maxxam Job #: B6F0322  
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Englobe Corp.  
Client Project #: P-0010903  
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Sampler Initials: AS

### GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	5.3°C
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Sample CSR710-01 : Poor RCap Ion Balance due to sample matrix. Cation sum does not include contribution from Mn.

Sample CSR712-01 : Elevated reporting limits for trace metals due to sample matrix.

Sample CSR714-01 : Poor RCap Ion Balance due to sample matrix. Possibly due to fine particulate matter.

Sample CSR720-01 : Poor RCap Ion Balance due to sample matrix. Possibly due to fine particulate matter.

Sample CSR722-01 : Poor RCap Ion Balance due to sample matrix. Cation sum does not include contribution from Mn.

Sample CSR723-01 : Poor RCap Ion Balance due to sample matrix. Cation sum does not include contribution from Mn.

Sample CSR725-01 : Poor RCap Ion Balance due to sample matrix. Possibly due to fine particulate matter.

**Results relate only to the items tested.**

Maxxam Job #: B6F0322  
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Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

### QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4587765	BAN	Matrix Spike	Total Lead (Pb)	2016/07/22		101	%	80 - 120
4587765	BAN	Spiked Blank	Total Lead (Pb)	2016/07/22		100	%	80 - 120
4587765	BAN	Method Blank	Total Lead (Pb)	2016/07/22	<0.50		ug/L	
4587765	BAN	RPD - Sample/Sample Dup	Total Lead (Pb)	2016/07/22	NC		%	20
4587985	BAN	Matrix Spike	Total Lead (Pb)	2016/07/22		100	%	80 - 120
4587985	BAN	Spiked Blank	Total Lead (Pb)	2016/07/22		101	%	80 - 120
4587985	BAN	Method Blank	Total Lead (Pb)	2016/07/22	<0.50		ug/L	
4587985	BAN	RPD - Sample/Sample Dup	Total Lead (Pb)	2016/07/22	NC		%	20
4588199	ARS	Matrix Spike	Total Mercury (Hg)	2016/07/22		102	%	80 - 120
4588199	ARS	Spiked Blank	Total Mercury (Hg)	2016/07/22		104	%	80 - 120
4588199	ARS	Method Blank	Total Mercury (Hg)	2016/07/22	<0.013		ug/L	
4588199	ARS	RPD - Sample/Sample Dup	Total Mercury (Hg)	2016/07/22	NC		%	20
4588201	ARS	Matrix Spike	Total Mercury (Hg)	2016/07/22		100	%	80 - 120
4588201	ARS	Spiked Blank	Total Mercury (Hg)	2016/07/22		102	%	80 - 120
4588201	ARS	Method Blank	Total Mercury (Hg)	2016/07/22	<0.013		ug/L	
4588201	ARS	RPD - Sample/Sample Dup	Total Mercury (Hg)	2016/07/22	NC		%	20
4589406	BAN	Matrix Spike	Dissolved Aluminum (Al)	2016/07/22		104	%	80 - 120
			Dissolved Antimony (Sb)	2016/07/22		96	%	80 - 120
			Dissolved Arsenic (As)	2016/07/22		101	%	80 - 120
			Dissolved Barium (Ba)	2016/07/22		104	%	80 - 120
			Dissolved Beryllium (Be)	2016/07/22		110	%	80 - 120
			Dissolved Bismuth (Bi)	2016/07/22		102	%	80 - 120
			Dissolved Boron (B)	2016/07/22		106	%	80 - 120
			Dissolved Cadmium (Cd)	2016/07/22		103	%	80 - 120
			Dissolved Calcium (Ca)	2016/07/22		101	%	80 - 120
			Dissolved Chromium (Cr)	2016/07/22		103	%	80 - 120
			Dissolved Cobalt (Co)	2016/07/22		105	%	80 - 120
			Dissolved Copper (Cu)	2016/07/22		105	%	80 - 120
			Dissolved Iron (Fe)	2016/07/22		103	%	80 - 120
			Dissolved Lead (Pb)	2016/07/22		103	%	80 - 120
			Dissolved Magnesium (Mg)	2016/07/22		103	%	80 - 120
			Dissolved Manganese (Mn)	2016/07/22		103	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/07/22		104	%	80 - 120
			Dissolved Nickel (Ni)	2016/07/22		103	%	80 - 120
			Dissolved Phosphorus (P)	2016/07/22		105	%	80 - 120
			Dissolved Potassium (K)	2016/07/22		104	%	80 - 120
			Dissolved Selenium (Se)	2016/07/22		104	%	80 - 120
			Dissolved Silver (Ag)	2016/07/22		94	%	80 - 120
			Dissolved Sodium (Na)	2016/07/22		102	%	80 - 120
			Dissolved Strontium (Sr)	2016/07/22		101	%	80 - 120
			Dissolved Thallium (Tl)	2016/07/22		103	%	80 - 120
			Dissolved Tin (Sn)	2016/07/22		100	%	80 - 120
			Dissolved Titanium (Ti)	2016/07/22		106	%	80 - 120
			Dissolved Uranium (U)	2016/07/22		105	%	80 - 120
			Dissolved Vanadium (V)	2016/07/22		106	%	80 - 120
			Dissolved Zinc (Zn)	2016/07/22		102	%	80 - 120
4589406	BAN	Spiked Blank	Dissolved Aluminum (Al)	2016/07/22		106	%	80 - 120
			Dissolved Antimony (Sb)	2016/07/22		97	%	80 - 120
			Dissolved Arsenic (As)	2016/07/22		101	%	80 - 120
			Dissolved Barium (Ba)	2016/07/22		103	%	80 - 120
			Dissolved Beryllium (Be)	2016/07/22		107	%	80 - 120

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Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A06016  
Sampler Initials: AS

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC				Date		%		
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
4589406	BAN	Method Blank	Dissolved Bismuth (Bi)	2016/07/22		103	%	80 - 120
			Dissolved Boron (B)	2016/07/22		103	%	80 - 120
			Dissolved Cadmium (Cd)	2016/07/22		103	%	80 - 120
			Dissolved Calcium (Ca)	2016/07/22		102	%	80 - 120
			Dissolved Chromium (Cr)	2016/07/22		103	%	80 - 120
			Dissolved Cobalt (Co)	2016/07/22		105	%	80 - 120
			Dissolved Copper (Cu)	2016/07/22		104	%	80 - 120
			Dissolved Iron (Fe)	2016/07/22		104	%	80 - 120
			Dissolved Lead (Pb)	2016/07/22		103	%	80 - 120
			Dissolved Magnesium (Mg)	2016/07/22		103	%	80 - 120
			Dissolved Manganese (Mn)	2016/07/22		104	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/07/22		102	%	80 - 120
			Dissolved Nickel (Ni)	2016/07/22		103	%	80 - 120
			Dissolved Phosphorus (P)	2016/07/22		107	%	80 - 120
			Dissolved Potassium (K)	2016/07/22		104	%	80 - 120
			Dissolved Selenium (Se)	2016/07/22		102	%	80 - 120
			Dissolved Silver (Ag)	2016/07/22		99	%	80 - 120
			Dissolved Sodium (Na)	2016/07/22		103	%	80 - 120
			Dissolved Strontium (Sr)	2016/07/22		102	%	80 - 120
			Dissolved Thallium (Tl)	2016/07/22		103	%	80 - 120
			Dissolved Tin (Sn)	2016/07/22		102	%	80 - 120
			Dissolved Titanium (Ti)	2016/07/22		104	%	80 - 120
			Dissolved Uranium (U)	2016/07/22		106	%	80 - 120
			Dissolved Vanadium (V)	2016/07/22		106	%	80 - 120
			Dissolved Zinc (Zn)	2016/07/22		103	%	80 - 120
			Dissolved Aluminum (Al)	2016/07/22	<5.0		ug/L	
			Dissolved Antimony (Sb)	2016/07/22	<1.0		ug/L	
			Dissolved Arsenic (As)	2016/07/22	<1.0		ug/L	
			Dissolved Barium (Ba)	2016/07/22	<1.0		ug/L	
			Dissolved Beryllium (Be)	2016/07/22	<1.0		ug/L	
			Dissolved Bismuth (Bi)	2016/07/22	<2.0		ug/L	
			Dissolved Boron (B)	2016/07/22	<50		ug/L	
			Dissolved Cadmium (Cd)	2016/07/22	<0.010		ug/L	
			Dissolved Calcium (Ca)	2016/07/22	<100		ug/L	
			Dissolved Chromium (Cr)	2016/07/22	<1.0		ug/L	
			Dissolved Cobalt (Co)	2016/07/22	<0.40		ug/L	
			Dissolved Copper (Cu)	2016/07/22	<2.0		ug/L	
			Dissolved Iron (Fe)	2016/07/22	<50		ug/L	
			Dissolved Lead (Pb)	2016/07/22	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2016/07/22	<100		ug/L	
			Dissolved Manganese (Mn)	2016/07/22	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2016/07/22	<2.0		ug/L	
			Dissolved Nickel (Ni)	2016/07/22	<2.0		ug/L	
			Dissolved Phosphorus (P)	2016/07/22	<100		ug/L	
			Dissolved Potassium (K)	2016/07/22	<100		ug/L	
			Dissolved Selenium (Se)	2016/07/22	<1.0		ug/L	
			Dissolved Silver (Ag)	2016/07/22	<0.10		ug/L	
			Dissolved Sodium (Na)	2016/07/22	<100		ug/L	
			Dissolved Strontium (Sr)	2016/07/22	<2.0		ug/L	
			Dissolved Thallium (Tl)	2016/07/22	<0.10		ug/L	
			Dissolved Tin (Sn)	2016/07/22	<2.0		ug/L	



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Sampler Initials: AS

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4589406	BAN	RPD - Sample/Sample Dup	Dissolved Titanium (Ti)	2016/07/22	<2.0		ug/L	
			Dissolved Uranium (U)	2016/07/22	<0.10		ug/L	
			Dissolved Vanadium (V)	2016/07/22	<2.0		ug/L	
			Dissolved Zinc (Zn)	2016/07/22	<5.0		ug/L	
			Dissolved Aluminum (Al)	2016/07/22	NC		%	20
			Dissolved Antimony (Sb)	2016/07/22	NC		%	20
			Dissolved Arsenic (As)	2016/07/22	NC		%	20
			Dissolved Barium (Ba)	2016/07/22	NC		%	20
			Dissolved Beryllium (Be)	2016/07/22	NC		%	20
			Dissolved Bismuth (Bi)	2016/07/22	NC		%	20
			Dissolved Boron (B)	2016/07/22	NC		%	20
			Dissolved Cadmium (Cd)	2016/07/22	NC		%	20
			Dissolved Calcium (Ca)	2016/07/22	NC		%	20
			Dissolved Chromium (Cr)	2016/07/22	NC		%	20
			Dissolved Cobalt (Co)	2016/07/22	NC		%	20
			Dissolved Copper (Cu)	2016/07/22	NC		%	20
			Dissolved Iron (Fe)	2016/07/22	NC		%	20
			Dissolved Lead (Pb)	2016/07/22	NC		%	20
			Dissolved Magnesium (Mg)	2016/07/22	NC		%	20
			Dissolved Manganese (Mn)	2016/07/22	NC		%	20
			Dissolved Molybdenum (Mo)	2016/07/22	NC		%	20
			Dissolved Nickel (Ni)	2016/07/22	NC		%	20
			Dissolved Phosphorus (P)	2016/07/22	NC		%	20
			Dissolved Potassium (K)	2016/07/22	NC		%	20
			Dissolved Selenium (Se)	2016/07/22	NC		%	20
			Dissolved Silver (Ag)	2016/07/22	NC		%	20
			Dissolved Sodium (Na)	2016/07/22	NC		%	20
			Dissolved Strontium (Sr)	2016/07/22	NC		%	20
			Dissolved Thallium (Tl)	2016/07/22	NC		%	20
			Dissolved Tin (Sn)	2016/07/22	NC		%	20
			Dissolved Titanium (Ti)	2016/07/22	NC		%	20
			Dissolved Uranium (U)	2016/07/22	NC		%	20
			Dissolved Vanadium (V)	2016/07/22	NC		%	20
			Dissolved Zinc (Zn)	2016/07/22	NC		%	20
4589410	JMV	QC Standard	pH	2016/07/22		100	%	97 - 103
4589410	JMV	RPD - Sample/Sample Dup	pH	2016/07/22	0.70		%	N/A
4589411	JMV	Spiked Blank	Conductivity	2016/07/22		100	%	80 - 120
4589411	JMV	Method Blank	Conductivity	2016/07/22	1.1, RDL=1.0		uS/cm	
4589411	JMV	RPD - Sample/Sample Dup	Conductivity	2016/07/22	0.66		%	25
4589412	JMV	QC Standard	pH	2016/07/22		100	%	97 - 103
4589412	JMV	RPD - Sample/Sample Dup	pH	2016/07/22	1.1		%	N/A
4589413	JMV	Spiked Blank	Conductivity	2016/07/22		100	%	80 - 120
4589413	JMV	Method Blank	Conductivity	2016/07/22	1.1, RDL=1.0		uS/cm	
4589413	JMV	RPD - Sample/Sample Dup	Conductivity	2016/07/22	0.60		%	25
4589414	JMV	QC Standard	pH	2016/07/22		100	%	97 - 103
4589414	JMV	RPD - Sample/Sample Dup	pH	2016/07/22	1.6		%	N/A
4589415	JMV	Spiked Blank	Conductivity	2016/07/22		103	%	80 - 120
4589415	JMV	Method Blank	Conductivity	2016/07/22	1.3, RDL=1.0		uS/cm	

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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4589415	JMV	RPD - Sample/Sample Dup	Conductivity	2016/07/22	0.79		%	25
4589416	BAN	Matrix Spike(CSR713)	Dissolved Aluminum (Al)	2016/07/22		106	%	80 - 120
			Dissolved Antimony (Sb)	2016/07/22		103	%	80 - 120
			Dissolved Arsenic (As)	2016/07/22		100	%	80 - 120
			Dissolved Barium (Ba)	2016/07/22		103	%	80 - 120
			Dissolved Beryllium (Be)	2016/07/22		102	%	80 - 120
			Dissolved Bismuth (Bi)	2016/07/22		103	%	80 - 120
			Dissolved Boron (B)	2016/07/22		99	%	80 - 120
			Dissolved Cadmium (Cd)	2016/07/22		103	%	80 - 120
			Dissolved Calcium (Ca)	2016/07/22		103	%	80 - 120
			Dissolved Chromium (Cr)	2016/07/22		101	%	80 - 120
			Dissolved Cobalt (Co)	2016/07/22		103	%	80 - 120
			Dissolved Copper (Cu)	2016/07/22		101	%	80 - 120
			Dissolved Iron (Fe)	2016/07/22		101	%	80 - 120
			Dissolved Lead (Pb)	2016/07/22		104	%	80 - 120
			Dissolved Magnesium (Mg)	2016/07/22		100	%	80 - 120
			Dissolved Manganese (Mn)	2016/07/22		NC	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/07/22		103	%	80 - 120
			Dissolved Nickel (Ni)	2016/07/22		101	%	80 - 120
			Dissolved Phosphorus (P)	2016/07/22		106	%	80 - 120
			Dissolved Potassium (K)	2016/07/22		105	%	80 - 120
			Dissolved Selenium (Se)	2016/07/22		103	%	80 - 120
			Dissolved Silver (Ag)	2016/07/22		90	%	80 - 120
			Dissolved Sodium (Na)	2016/07/22		98	%	80 - 120
			Dissolved Strontium (Sr)	2016/07/22		100	%	80 - 120
			Dissolved Thallium (Tl)	2016/07/22		104	%	80 - 120
			Dissolved Tin (Sn)	2016/07/22		103	%	80 - 120
			Dissolved Titanium (Ti)	2016/07/22		104	%	80 - 120
			Dissolved Uranium (U)	2016/07/22		108	%	80 - 120
			Dissolved Vanadium (V)	2016/07/22		105	%	80 - 120
			Dissolved Zinc (Zn)	2016/07/22		101	%	80 - 120
4589416	BAN	Spiked Blank	Dissolved Aluminum (Al)	2016/07/22		108	%	80 - 120
			Dissolved Antimony (Sb)	2016/07/22		101	%	80 - 120
			Dissolved Arsenic (As)	2016/07/22		101	%	80 - 120
			Dissolved Barium (Ba)	2016/07/22		103	%	80 - 120
			Dissolved Beryllium (Be)	2016/07/22		100	%	80 - 120
			Dissolved Bismuth (Bi)	2016/07/22		103	%	80 - 120
			Dissolved Boron (B)	2016/07/22		96	%	80 - 120
			Dissolved Cadmium (Cd)	2016/07/22		103	%	80 - 120
			Dissolved Calcium (Ca)	2016/07/22		103	%	80 - 120
			Dissolved Chromium (Cr)	2016/07/22		101	%	80 - 120
			Dissolved Cobalt (Co)	2016/07/22		103	%	80 - 120
			Dissolved Copper (Cu)	2016/07/22		101	%	80 - 120
			Dissolved Iron (Fe)	2016/07/22		103	%	80 - 120
			Dissolved Lead (Pb)	2016/07/22		104	%	80 - 120
			Dissolved Magnesium (Mg)	2016/07/22		102	%	80 - 120
			Dissolved Manganese (Mn)	2016/07/22		102	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/07/22		103	%	80 - 120
			Dissolved Nickel (Ni)	2016/07/22		102	%	80 - 120
			Dissolved Phosphorus (P)	2016/07/22		108	%	80 - 120
			Dissolved Potassium (K)	2016/07/22		103	%	80 - 120

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QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
				Dissolved Selenium (Se)	2016/07/22		103	%	80 - 120
				Dissolved Silver (Ag)	2016/07/22		100	%	80 - 120
				Dissolved Sodium (Na)	2016/07/22		100	%	80 - 120
				Dissolved Strontium (Sr)	2016/07/22		103	%	80 - 120
				Dissolved Thallium (Tl)	2016/07/22		104	%	80 - 120
				Dissolved Tin (Sn)	2016/07/22		105	%	80 - 120
				Dissolved Titanium (Ti)	2016/07/22		103	%	80 - 120
				Dissolved Uranium (U)	2016/07/22		108	%	80 - 120
				Dissolved Vanadium (V)	2016/07/22		104	%	80 - 120
				Dissolved Zinc (Zn)	2016/07/22		101	%	80 - 120
4589416	BAN		Method Blank	Dissolved Aluminum (Al)	2016/07/22	<5.0		ug/L	
				Dissolved Antimony (Sb)	2016/07/22	<1.0		ug/L	
				Dissolved Arsenic (As)	2016/07/22	<1.0		ug/L	
				Dissolved Barium (Ba)	2016/07/22	<1.0		ug/L	
				Dissolved Beryllium (Be)	2016/07/22	<1.0		ug/L	
				Dissolved Bismuth (Bi)	2016/07/22	<2.0		ug/L	
				Dissolved Boron (B)	2016/07/22	<50		ug/L	
				Dissolved Cadmium (Cd)	2016/07/22	<0.010		ug/L	
				Dissolved Calcium (Ca)	2016/07/22	<100		ug/L	
				Dissolved Chromium (Cr)	2016/07/22	<1.0		ug/L	
				Dissolved Cobalt (Co)	2016/07/22	<0.40		ug/L	
				Dissolved Copper (Cu)	2016/07/22	<2.0		ug/L	
				Dissolved Iron (Fe)	2016/07/22	<50		ug/L	
				Dissolved Lead (Pb)	2016/07/22	<0.50		ug/L	
				Dissolved Magnesium (Mg)	2016/07/22	<100		ug/L	
				Dissolved Manganese (Mn)	2016/07/22	<2.0		ug/L	
				Dissolved Molybdenum (Mo)	2016/07/22	<2.0		ug/L	
				Dissolved Nickel (Ni)	2016/07/22	<2.0		ug/L	
				Dissolved Phosphorus (P)	2016/07/22	<100		ug/L	
				Dissolved Potassium (K)	2016/07/22	<100		ug/L	
				Dissolved Selenium (Se)	2016/07/22	<1.0		ug/L	
				Dissolved Silver (Ag)	2016/07/22	<0.10		ug/L	
				Dissolved Sodium (Na)	2016/07/22	<100		ug/L	
				Dissolved Strontium (Sr)	2016/07/22	<2.0		ug/L	
				Dissolved Thallium (Tl)	2016/07/22	<0.10		ug/L	
				Dissolved Tin (Sn)	2016/07/22	<2.0		ug/L	
				Dissolved Titanium (Ti)	2016/07/22	<2.0		ug/L	
				Dissolved Uranium (U)	2016/07/22	<0.10		ug/L	
				Dissolved Vanadium (V)	2016/07/22	<2.0		ug/L	
				Dissolved Zinc (Zn)	2016/07/22	<5.0		ug/L	
4589416	BAN		RPD - Sample/Sample Dup	Dissolved Aluminum (Al)	2016/07/22	NC		%	20
				Dissolved Antimony (Sb)	2016/07/22	NC		%	20
				Dissolved Arsenic (As)	2016/07/22	NC		%	20
				Dissolved Barium (Ba)	2016/07/22	4.3		%	20
				Dissolved Beryllium (Be)	2016/07/22	NC		%	20
				Dissolved Bismuth (Bi)	2016/07/22	NC		%	20
				Dissolved Boron (B)	2016/07/22	NC		%	20
				Dissolved Cadmium (Cd)	2016/07/22	NC		%	20
				Dissolved Calcium (Ca)	2016/07/22	0.21		%	20
				Dissolved Chromium (Cr)	2016/07/22	NC		%	20
				Dissolved Cobalt (Co)	2016/07/22	3.3		%	20

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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Dissolved Copper (Cu)	2016/07/22	NC		%	20
			Dissolved Iron (Fe)	2016/07/22	NC		%	20
			Dissolved Lead (Pb)	2016/07/22	NC		%	20
			Dissolved Magnesium (Mg)	2016/07/22	2.4		%	20
			Dissolved Manganese (Mn)	2016/07/22	1.1		%	20
			Dissolved Molybdenum (Mo)	2016/07/22	NC		%	20
			Dissolved Nickel (Ni)	2016/07/22	NC		%	20
			Dissolved Phosphorus (P)	2016/07/22	NC		%	20
			Dissolved Potassium (K)	2016/07/22	0.13		%	20
			Dissolved Selenium (Se)	2016/07/22	NC		%	20
			Dissolved Silver (Ag)	2016/07/22	NC		%	20
			Dissolved Sodium (Na)	2016/07/22	2.2		%	20
			Dissolved Strontium (Sr)	2016/07/22	0.29		%	20
			Dissolved Thallium (Tl)	2016/07/22	NC		%	20
			Dissolved Tin (Sn)	2016/07/22	NC		%	20
			Dissolved Titanium (Ti)	2016/07/22	NC		%	20
			Dissolved Uranium (U)	2016/07/22	NC		%	20
			Dissolved Vanadium (V)	2016/07/22	NC		%	20
			Dissolved Zinc (Zn)	2016/07/22	NC		%	20
4589466	SMT	Matrix Spike	Total Organic Carbon (C)	2016/07/22		99	%	80 - 120
4589466	SMT	Spiked Blank	Total Organic Carbon (C)	2016/07/22		112	%	80 - 120
4589466	SMT	Method Blank	Total Organic Carbon (C)	2016/07/22	<0.50		mg/L	
4589466	SMT	RPD - Sample/Sample Dup	Total Organic Carbon (C)	2016/07/22	NC		%	20
4589502	JMV	QC Standard	Turbidity	2016/07/22		98	%	80 - 120
4589502	JMV	Spiked Blank	Turbidity	2016/07/22		99	%	80 - 120
4589502	JMV	Method Blank	Turbidity	2016/07/22	<0.10		NTU	
4589502	JMV	RPD - Sample/Sample Dup	Turbidity	2016/07/22	11		%	20
4589508	JMV	QC Standard	Turbidity	2016/07/22		97	%	80 - 120
4589508	JMV	Spiked Blank	Turbidity	2016/07/22		98	%	80 - 120
4589508	JMV	Method Blank	Turbidity	2016/07/22	<0.10		NTU	
4589508	JMV	RPD - Sample/Sample Dup	Turbidity	2016/07/22	2.4		%	20
4589515	JMV	QC Standard	Turbidity	2016/07/22		98	%	80 - 120
4589515	JMV	Spiked Blank	Turbidity	2016/07/22		98	%	80 - 120
4589515	JMV	Method Blank	Turbidity	2016/07/22	<0.10		NTU	
4589515	JMV	RPD - Sample/Sample Dup	Turbidity	2016/07/22	3.4		%	20
4589522	JMV	QC Standard	Turbidity	2016/07/22		98	%	80 - 120
4589522	JMV	Spiked Blank	Turbidity	2016/07/22		99	%	80 - 120
4589522	JMV	Method Blank	Turbidity	2016/07/22	<0.10		NTU	
4589522	JMV	RPD - Sample/Sample Dup	Turbidity	2016/07/22	NC		%	20
4589617	SMT	Matrix Spike	Total Organic Carbon (C)	2016/07/22		117	%	80 - 120
4589617	SMT	Spiked Blank	Total Organic Carbon (C)	2016/07/22		112	%	80 - 120
4589617	SMT	Method Blank	Total Organic Carbon (C)	2016/07/22	<0.50		mg/L	
4589617	SMT	RPD - Sample/Sample Dup	Total Organic Carbon (C)	2016/07/22	NC		%	20
4589703	NRG	Matrix Spike(CSR714)	Total Alkalinity (Total as CaCO3)	2016/07/26		NC	%	80 - 120
4589703	NRG	Spiked Blank	Total Alkalinity (Total as CaCO3)	2016/07/25		102	%	80 - 120
4589703	NRG	Method Blank	Total Alkalinity (Total as CaCO3)	2016/07/25	<5.0		mg/L	
4589703	NRG	RPD - Sample/Sample Dup	Total Alkalinity (Total as CaCO3)	2016/07/26	2.9		%	25
4589706	MCN	Matrix Spike(CSR714)	Dissolved Chloride (Cl)	2016/07/26		NC	%	80 - 120
4589706	MCN	Spiked Blank	Dissolved Chloride (Cl)	2016/07/26		109	%	80 - 120
4589706	MCN	Method Blank	Dissolved Chloride (Cl)	2016/07/26	<1.0		mg/L	
4589706	MCN	RPD - Sample/Sample Dup	Dissolved Chloride (Cl)	2016/07/26	14		%	25

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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4589707	NRG	Matrix Spike(CSR714)	Dissolved Sulphate (SO4)	2016/07/25		107	%	80 - 120
4589707	NRG	Spiked Blank	Dissolved Sulphate (SO4)	2016/07/25		109	%	80 - 120
4589707	NRG	Method Blank	Dissolved Sulphate (SO4)	2016/07/25	<2.0		mg/L	
4589707	NRG	RPD - Sample/Sample Dup	Dissolved Sulphate (SO4)	2016/07/25	NC		%	25
4589709	NRG	Matrix Spike(CSR714)	Reactive Silica (SiO2)	2016/07/26		NC	%	80 - 120
4589709	NRG	Spiked Blank	Reactive Silica (SiO2)	2016/07/26		99	%	80 - 120
4589709	NRG	Method Blank	Reactive Silica (SiO2)	2016/07/26	<0.50		mg/L	
4589709	NRG	RPD - Sample/Sample Dup	Reactive Silica (SiO2)	2016/07/26	1.6		%	25
4589713	NRG	Spiked Blank	Colour	2016/07/25		104	%	80 - 120
4589713	NRG	Method Blank	Colour	2016/07/25	<5.0		TCU	
4589713	NRG	RPD - Sample/Sample Dup	Colour	2016/07/25	2.1		%	20
4589715	NRG	Matrix Spike(CSR714)	Orthophosphate (P)	2016/07/25		90	%	80 - 120
4589715	NRG	Spiked Blank	Orthophosphate (P)	2016/07/25		94	%	80 - 120
4589715	NRG	Method Blank	Orthophosphate (P)	2016/07/25	<0.010		mg/L	
4589715	NRG	RPD - Sample/Sample Dup	Orthophosphate (P)	2016/07/25	NC		%	25
4589717	NRG	Matrix Spike(CSR714)	Nitrate + Nitrite (N)	2016/07/26		91	%	80 - 120
4589717	NRG	Spiked Blank	Nitrate + Nitrite (N)	2016/07/26		96	%	80 - 120
4589717	NRG	Method Blank	Nitrate + Nitrite (N)	2016/07/26	<0.050		mg/L	
4589717	NRG	RPD - Sample/Sample Dup	Nitrate + Nitrite (N)	2016/07/26	NC		%	25
4589719	NRG	Matrix Spike(CSR714)	Nitrite (N)	2016/07/25		93	%	80 - 120
4589719	NRG	Spiked Blank	Nitrite (N)	2016/07/25		95	%	80 - 120
4589719	NRG	Method Blank	Nitrite (N)	2016/07/25	<0.010		mg/L	
4589719	NRG	RPD - Sample/Sample Dup	Nitrite (N)	2016/07/25	NC		%	25
4589837	NRG	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2016/07/25		103	%	80 - 120
4589837	NRG	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2016/07/25		106	%	80 - 120
4589837	NRG	Method Blank	Nitrogen (Ammonia Nitrogen)	2016/07/25	<0.050		mg/L	
4589837	NRG	RPD - Sample/Sample Dup	Nitrogen (Ammonia Nitrogen)	2016/07/25	NC		%	20
4589841	NRG	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2016/07/25		106	%	80 - 120
4589841	NRG	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2016/07/25		110	%	80 - 120
4589841	NRG	Method Blank	Nitrogen (Ammonia Nitrogen)	2016/07/25	<0.050		mg/L	
4589841	NRG	RPD - Sample/Sample Dup	Nitrogen (Ammonia Nitrogen)	2016/07/25	4.5		%	20
4592060	JMV	QC Standard	pH	2016/07/25		100	%	97 - 103
4592060	JMV	RPD - Sample/Sample Dup	pH	2016/07/25	1.0		%	N/A

N/A = Not Applicable

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

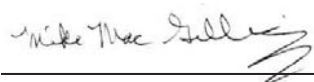
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

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Your P.O. #: A06016  
Sampler Initials: AS

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Mike MacGillivray, Scientific Specialist (Inorganics)

---

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.





Maxxam Analytics International Corporation  
200 Bluewater Road, Bedford, Nova Scotia Canada B4B 1G8

Tel: (902) 420-0203 Fax: (902) 420-0203  
Toll-free 800-563-6266 Fax: (902) 420-0203  
www.maxxam.ca

# Chain Of Custody Record

Page 1 of 2

## INVOICE TO:

Company Name: #41009 Englobe Corp.  
Contact Name: Accounts Payable  
Address: 97 Troop Ave  
Dartmouth NS B3B 2A7  
Phone: (902) 468-6486 Fax: (902) 468-4919  
Email: Dartmouth.AP@englobecorp.com

Company Name: Aven Cole/Lisa L  
Contact Name: Aven Cole/Lisa L  
Address: (902) 468-6486 Fax: (902) 468-4919  
Email: Aven.Cole@englobecorp.com

## Report Information

Quotation #: B63657  
P.O. #: P-0010903  
Project Name: LAKE GEORGE  
Site #: AS  
Sampled By: AS

## Project Information

Maxxam Job #: B6F0322  
Chain Of Custody Record  
Barcode: 055872  
Project Manager: Avery Witrow

## Laboratory Use Only

Turnaround Time (TAT) Required:  
Please provide assistance notes for multi projects

## Regulatory Criteria

## Special Instructions

## ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

## Turnaround Time (TAT) Required

\*\* Specify Matrix: Surface/Ground/Tapwater/Sewage/Effluent/Surface  
Possible/Nongravelly/Tissue/Soil/Sediment

Field Filtered & Preserved  
Lab Filtration Required

RCAP-MS Dissolved (Field Filtr.) in W

Mercury - Total (CVAA/LL)

Total Lead

Regular (Standard) TAT:  
(will be applied if Rush TAT is not specified)  
Standard TAT = 5-7 Working Days for most tests.  
Please note: Standard TAT for certain tests such as BOD and Dissolved Oxygen are > 5 days - contact your Project Manager for details.  
Job Specific Rush TAT (if applies to entire submission)  
Date Required: ☐  
Comments / Hazards / Other Required Analyses

Regular (Standard) TAT:  
(will be applied if Rush TAT is not specified)  
Standard TAT = 5-7 Working Days for most tests.  
Please note: Standard TAT for certain tests such as BOD and Dissolved Oxygen are > 5 days - contact your Project Manager for details.  
Job Specific Rush TAT (if applies to entire submission)  
Date Required: ☐  
Comments / Hazards / Other Required Analyses

SAMPLES MUST BE KEPT COOL (1-10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered & Preserved	Lab Filtration Required	RCAP-MS Dissolved (Field Filtr.) in W	Mercury - Total (CVAA/LL)	Total Lead	# Jars used and not submitted	Time Sensitive	Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
1	MW1S	7/15/16	6:00		X	X	X	X	X			6/6/14	<input type="checkbox"/> Yes <input type="checkbox"/> No
2	MW1D				X	X	X	X	X				<input type="checkbox"/> Yes <input type="checkbox"/> No
3	MW2S				X	X	X	X	X				<input type="checkbox"/> Yes <input type="checkbox"/> No
4	MW2D				X	X	X	X	X				<input type="checkbox"/> Yes <input type="checkbox"/> No
5	MW3S				X	X	X	X	X				<input type="checkbox"/> Yes <input type="checkbox"/> No
6	MW3D				X	X	X	X	X				<input type="checkbox"/> Yes <input type="checkbox"/> No
7	MW4S				X	X	X	X	X				<input type="checkbox"/> Yes <input type="checkbox"/> No
8	MW4D				X	X	X	X	X				<input type="checkbox"/> Yes <input type="checkbox"/> No
9	MW5S				X	X	X	X	X				<input type="checkbox"/> Yes <input type="checkbox"/> No
10	MW5D - HW6D				X	X	X	X	X				<input type="checkbox"/> Yes <input type="checkbox"/> No

RELINQUISHED BY: (Signature/Print)

Date: (YY/MM/DD)

Time

Signature/Print

Time

Date: (YY/MM/DD)

Time

IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

Maxxam Analytics International Corporation or Maxxam Analytics

**Maxxam**  
Maxxam Analytics International Corporation  
200 Bluewater Road, Bedford, Nova Scotia Canada B4B 1G9  
Tel: (902) 420-0203 Toll-free 800-563-6265 Fax: (902) 420-0512 www.maxxam.ca

**Chain Of Custody Record**  
Page 2 of 2

**Report Information**

Company Name: Aven Cole/Lisa L.  
Contact Name: Aven Cole  
Address: (902) 468-6496  
Phone: (902) 468-6496  
Email: Aven.Cole@englobecorp.com

**Project Information**

Quotation #: B63657  
P.O. #: P-0010903  
Project #: LAKE GEORGE  
Site #: AS  
Sampled By: AS

**Laboratory Use Only**

Maxxam Job #: B6F0322  
Chain Of Custody Record: LAKE GEORGE  
Project Manager: Avery Withrow  
Bottle Order #: 598572  
Custody Seal Inlet on Cooler? Yes

**ANALYSIS REQUESTED (PLEASE BE SPECIFIC)**

Regular (Standard) TAT: 5  
(will be applied if Rush TAT is not specified)  
Standard TAT = 5-7 Working days for most tests.  
Please note: Standard TAT for certain tests such as BOD and Dissolved Oxygen are 5-7 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission): 5  
Date Required: 2016 JUL 18 15:31

Comments / Hazards / Other Required Analysis: None

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered & Preserved	Lab Filtration Required	RCAP-MS Dissolved (Field Fill) in W	Mercury - Total (CVAA,LL)	Total Lead
1	MW6 S	7/15/16		bw	X	X	X	X	X
2	MW7				X	X	X	X	X
3	MW8				X	X	X	X	X
4	MW9				X	X	X	X	X
5	MW10				X	X	X	X	X
6	MW11				X	X	X	X	X
7	MW12				X	X	X	X	X
8	MW-DUP				X	X	X	X	X
9									
10									

**Regulatory Criteria**

Special Instructions: None

**RECEIVED BY: (Signature/Print)** ALICE  
**DATE: (YYMMDD)** 7/15/16

\* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

Maxxam Analytics International Corporation aka Maxxam Analytics

Your P.O. #: A-06805  
Your Project #: P-0010903-0-05-205-1  
Site Location: LAKE GEORGE  
Your C.O.C. #: D 18414

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

**Report Date: 2016/10/27**

Report #: R4225875

Version: 1 - Final

## **CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B6M6998**

**Received: 2016/10/20, 10:15**

Sample Matrix: Water  
# Samples Received: 2

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Carbonate, Bicarbonate and Hydroxide	1	N/A	2016/10/24	N/A	SM 22 4500-CO2 D
Alkalinity	1	N/A	2016/10/26	ATL SOP 00013	EPA 310.2 R1974 m
Chloride	1	N/A	2016/10/27	ATL SOP 00014	SM 22 4500-Cl- E m
Colour	1	N/A	2016/10/27	ATL SOP 00020	SM 22 2120C m
Conductance - water	1	N/A	2016/10/24	ATL SOP 00004	SM 22 2510B m
Hardness (calculated as CaCO3)	1	N/A	2016/10/26	ATL SOP 00048	SM 22 2340 B
Metals Water Total MS	2	2016/10/25	2016/10/25	ATL SOP 00058	EPA 6020A R1 m
Ion Balance (% Difference)	1	N/A	2016/10/27		Auto Calc.
Anion and Cation Sum	1	N/A	2016/10/27		Auto Calc.
Nitrogen Ammonia - water	1	N/A	2016/10/27	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite	1	N/A	2016/10/27	ATL SOP 00016	USGS SOPINCF0452.2 m
Nitrogen - Nitrite	1	N/A	2016/10/26	ATL SOP 00017	SM 22 4500-NO2- B m
Nitrogen - Nitrate (as N)	1	N/A	2016/10/27	ATL SOP 00018	ASTM D3867-16
pH (1)	1	N/A	2016/10/24	ATL SOP 00003	SM 22 4500-H+ B m
Phosphorus - ortho	1	N/A	2016/10/27	ATL SOP 00021	EPA 365.2 m
Sat. pH and Langelier Index (@ 20C)	1	N/A	2016/10/27	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	1	N/A	2016/10/27	ATL SOP 00049	Auto Calc.
Reactive Silica	1	N/A	2016/10/27	ATL SOP 00022	EPA 366.0 m
Sulphate	1	N/A	2016/10/27	ATL SOP 00023	ASTMD516-11 m
Total Dissolved Solids (TDS calc)	1	N/A	2016/10/27		Auto Calc.
Organic carbon - Total (TOC) (2)	1	N/A	2016/10/26	ATL SOP 00037	SM 22 5310C m
Turbidity	1	N/A	2016/10/25	ATL SOP 00011	EPA 180.1 R2 m

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The APHA Standard Method require pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.

(2) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Your P.O. #: A-06805  
Your Project #: P-0010903-0-05-205-1  
Site Location: LAKE GEORGE  
Your C.O.C. #: D 18414

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

**Report Date: 2016/10/27**

Report #: R4225875

Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B6M6998**

**Received: 2016/10/20, 10:15**

Encryption Key



Maxxam  
27 Oct 2016 17:20:40 -03:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Avery Withrow, Project Manager

Email: AWithrow@maxxam.ca

Phone# (902)420-0203 Ext:233

=====

This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Maxxam Job #: B6M6998  
Report Date: 2016/10/27

Englobe Corp.  
Client Project #: P-0010903-0-05-205-1  
Site Location: LAKE GEORGE  
Your P.O. #: A-06805  
Sampler Initials: CM

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

<b>Maxxam ID</b>		DHC273	DHC273			
<b>Sampling Date</b>		2016/10/19	2016/10/19			
<b>COC Number</b>		D 18414	D 18414			
	<b>UNITS</b>	<b>PW3</b>	<b>PW3 Lab-Dup</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Calculated Parameters</b>						
Anion Sum	me/L	3.32		N/A	4710641	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	19		1.0	4711032	0.20
Calculated TDS	mg/L	200		1.0	4710635	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0		1.0	4711032	0.20
Cation Sum	me/L	3.24		N/A	4710641	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	33		1.0	4710417	1.0
Ion Balance (% Difference)	%	1.22		N/A	4710640	N/A
Langelier Index (@ 20C)	N/A	-2.73			4711033	
Langelier Index (@ 4C)	N/A	-2.98			4711034	
Nitrate (N)	mg/L	0.12		0.050	4710546	N/A
Saturation pH (@ 20C)	N/A	9.12			4711033	
Saturation pH (@ 4C)	N/A	9.37			4711034	
<b>Inorganics</b>						
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	19		5.0	4718220	N/A
Dissolved Chloride (Cl)	mg/L	92		1.0	4718221	N/A
Colour	TCU	<5.0		5.0	4718224	N/A
Nitrate + Nitrite (N)	mg/L	0.12		0.050	4718226	N/A
Nitrite (N)	mg/L	<0.010		0.010	4718228	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050		0.050	4718375	N/A
Total Organic Carbon (C)	mg/L	0.79	0.66	0.50	4716725	N/A
Orthophosphate (P)	mg/L	0.014		0.010	4718225	N/A
pH	pH	6.39		N/A	4714488	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	11		0.50	4718223	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	15		2.0	4718222	N/A
Turbidity	NTU	0.69		0.10	4716248	0.10
Conductivity	uS/cm	360		1.0	4714489	N/A
<b>Metals</b>						
Total Aluminum (Al)	ug/L	59		5.0	4716186	N/A
Total Antimony (Sb)	ug/L	<1.0		1.0	4716186	N/A
Total Arsenic (As)	ug/L	<1.0		1.0	4716186	N/A
Total Barium (Ba)	ug/L	22		1.0	4716186	N/A
Total Beryllium (Be)	ug/L	<1.0		1.0	4716186	N/A
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						
Lab-Dup = Laboratory Initiated Duplicate						
N/A = Not Applicable						

Maxxam Job #: B6M6998  
Report Date: 2016/10/27

Englobe Corp.  
Client Project #: P-0010903-0-05-205-1  
Site Location: LAKE GEORGE  
Your P.O. #: A-06805  
Sampler Initials: CM

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DHC273	DHC273			
Sampling Date		2016/10/19	2016/10/19			
COC Number		D 18414	D 18414			
	UNITS	PW3	PW3 Lab-Dup	RDL	QC Batch	MDL
Total Bismuth (Bi)	ug/L	<2.0		2.0	4716186	N/A
Total Boron (B)	ug/L	<50		50	4716186	N/A
Total Cadmium (Cd)	ug/L	0.050		0.010	4716186	N/A
Total Calcium (Ca)	ug/L	9800		100	4716186	N/A
Total Chromium (Cr)	ug/L	<1.0		1.0	4716186	N/A
Total Cobalt (Co)	ug/L	0.67		0.40	4716186	N/A
Total Copper (Cu)	ug/L	2.7		2.0	4716186	N/A
Total Iron (Fe)	ug/L	250		50	4716186	N/A
Total Lead (Pb)	ug/L	0.68		0.50	4716186	N/A
Total Magnesium (Mg)	ug/L	2100		100	4716186	N/A
Total Manganese (Mn)	ug/L	140		2.0	4716186	N/A
Total Molybdenum (Mo)	ug/L	<2.0		2.0	4716186	N/A
Total Nickel (Ni)	ug/L	<2.0		2.0	4716186	N/A
Total Phosphorus (P)	ug/L	<100		100	4716186	N/A
Total Potassium (K)	ug/L	900		100	4716186	N/A
Total Selenium (Se)	ug/L	<1.0		1.0	4716186	N/A
Total Silver (Ag)	ug/L	<0.10		0.10	4716186	N/A
Total Sodium (Na)	ug/L	59000		100	4716186	N/A
Total Strontium (Sr)	ug/L	55		2.0	4716186	N/A
Total Thallium (Tl)	ug/L	<0.10		0.10	4716186	N/A
Total Tin (Sn)	ug/L	<2.0		2.0	4716186	N/A
Total Titanium (Ti)	ug/L	<2.0		2.0	4716186	N/A
Total Uranium (U)	ug/L	<0.10		0.10	4716186	N/A
Total Vanadium (V)	ug/L	<2.0		2.0	4716186	N/A
Total Zinc (Zn)	ug/L	11		5.0	4716186	N/A
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						
Lab-Dup = Laboratory Initiated Duplicate						



Maxxam Job #: B6M6998  
Report Date: 2016/10/27

Englobe Corp.  
Client Project #: P-0010903-0-05-205-1  
Site Location: LAKE GEORGE  
Your P.O. #: A-06805  
Sampler Initials: CM

### ELEMENTS BY ICP/MS (WATER)

<b>Maxxam ID</b>		DHC274			
<b>Sampling Date</b>		2016/10/19			
<b>COC Number</b>		D 18414			
	<b>UNITS</b>	<b>PW3 - TAP</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Metals</b>					
Total Aluminum (Al)	ug/L	53	5.0	4716186	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4716186	N/A
Total Arsenic (As)	ug/L	<1.0	1.0	4716186	N/A
Total Barium (Ba)	ug/L	19	1.0	4716186	N/A
Total Beryllium (Be)	ug/L	<1.0	1.0	4716186	N/A
Total Bismuth (Bi)	ug/L	<2.0	2.0	4716186	N/A
Total Boron (B)	ug/L	<50	50	4716186	N/A
Total Cadmium (Cd)	ug/L	0.046	0.010	4716186	N/A
Total Calcium (Ca)	ug/L	9100	100	4716186	N/A
Total Chromium (Cr)	ug/L	<1.0	1.0	4716186	N/A
Total Cobalt (Co)	ug/L	0.72	0.40	4716186	N/A
Total Copper (Cu)	ug/L	60	2.0	4716186	N/A
Total Iron (Fe)	ug/L	240	50	4716186	N/A
Total Lead (Pb)	ug/L	<0.50	0.50	4716186	N/A
Total Magnesium (Mg)	ug/L	1900	100	4716186	N/A
Total Manganese (Mn)	ug/L	140	2.0	4716186	N/A
Total Molybdenum (Mo)	ug/L	<2.0	2.0	4716186	N/A
Total Nickel (Ni)	ug/L	<2.0	2.0	4716186	N/A
Total Phosphorus (P)	ug/L	<100	100	4716186	N/A
Total Potassium (K)	ug/L	830	100	4716186	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	4716186	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	4716186	N/A
Total Sodium (Na)	ug/L	52000	100	4716186	N/A
Total Strontium (Sr)	ug/L	51	2.0	4716186	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4716186	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	4716186	N/A
Total Titanium (Ti)	ug/L	<2.0	2.0	4716186	N/A
Total Uranium (U)	ug/L	<0.10	0.10	4716186	N/A
Total Vanadium (V)	ug/L	<2.0	2.0	4716186	N/A
Total Zinc (Zn)	ug/L	8.1	5.0	4716186	N/A
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
N/A = Not Applicable					

Maxxam Job #: B6M6998  
Report Date: 2016/10/27

Englobe Corp.  
Client Project #: P-0010903-0-05-205-1  
Site Location: LAKE GEORGE  
Your P.O. #: A-06805  
Sampler Initials: CM

## TEST SUMMARY

**Maxxam ID:** DHC273  
**Sample ID:** PW3  
**Matrix:** Water

**Collected:** 2016/10/19  
**Shipped:**  
**Received:** 2016/10/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4711032	N/A	2016/10/24	Automated Statchk
Alkalinity	KONE	4718220	N/A	2016/10/26	Nancy Rogers
Chloride	KONE	4718221	N/A	2016/10/27	Nancy Rogers
Colour	KONE	4718224	N/A	2016/10/27	Nancy Rogers
Conductance - water	AT	4714489	N/A	2016/10/24	Julia McGovern
Hardness (calculated as CaCO3)		4710417	N/A	2016/10/26	Automated Statchk
Metals Water Total MS	CICP/MS	4716186	2016/10/25	2016/10/25	Mike Leblanc
Ion Balance (% Difference)	CALC	4710640	N/A	2016/10/27	Automated Statchk
Anion and Cation Sum	CALC	4710641	N/A	2016/10/27	Automated Statchk
Nitrogen Ammonia - water	KONE	4718375	N/A	2016/10/27	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4718226	N/A	2016/10/27	Nancy Rogers
Nitrogen - Nitrite	KONE	4718228	N/A	2016/10/26	Cecilia (Kate) Barrett
Nitrogen - Nitrate (as N)	CALC	4710546	N/A	2016/10/27	Automated Statchk
pH	AT	4714488	N/A	2016/10/24	Julia McGovern
Phosphorus - ortho	KONE	4718225	N/A	2016/10/27	Mary Clancey
Sat. pH and Langelier Index (@ 20C)	CALC	4711033	N/A	2016/10/27	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4711034	N/A	2016/10/27	Automated Statchk
Reactive Silica	KONE	4718223	N/A	2016/10/27	Nancy Rogers
Sulphate	KONE	4718222	N/A	2016/10/27	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4710635	N/A	2016/10/27	Automated Statchk
Organic carbon - Total (TOC)	TECH	4716725	N/A	2016/10/26	Soraya Merchant
Turbidity	TURB	4716248	N/A	2016/10/25	Julia McGovern

**Maxxam ID:** DHC273 Dup  
**Sample ID:** PW3  
**Matrix:** Water

**Collected:** 2016/10/19  
**Shipped:**  
**Received:** 2016/10/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Organic carbon - Total (TOC)	TECH	4716725	N/A	2016/10/26	Soraya Merchant

**Maxxam ID:** DHC274  
**Sample ID:** PW3 - TAP  
**Matrix:** Water

**Collected:** 2016/10/19  
**Shipped:**  
**Received:** 2016/10/20

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Water Total MS	CICP/MS	4716186	2016/10/25	2016/10/25	Mike Leblanc

Maxxam Job #: B6M6998  
Report Date: 2016/10/27

Englobe Corp.  
Client Project #: P-0010903-0-05-205-1  
Site Location: LAKE GEORGE  
Your P.O. #: A-06805  
Sampler Initials: CM

### GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	3.3°C
-----------	-------

**Results relate only to the items tested.**

Maxxam Job #: B6M6998  
Report Date: 2016/10/27

Englobe Corp.  
Client Project #: P-0010903-0-05-205-1  
Site Location: LAKE GEORGE  
Your P.O. #: A-06805  
Sampler Initials: CM

### QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4714488	JMV	QC Standard	pH	2016/10/24		100	%	97 - 103
4714488	JMV	RPD - Sample/Sample Dup	pH	2016/10/24	0.75		%	N/A
4714489	JMV	Spiked Blank	Conductivity	2016/10/24		100	%	80 - 120
4714489	JMV	Method Blank	Conductivity	2016/10/24	1.6, RDL=1.0		uS/cm	
4714489	JMV	RPD - Sample/Sample Dup	Conductivity	2016/10/24	0.0015		%	25
4716186	MLB	Matrix Spike	Total Aluminum (Al)	2016/10/25		97	%	80 - 120
			Total Antimony (Sb)	2016/10/25		102	%	80 - 120
			Total Arsenic (As)	2016/10/25		94	%	80 - 120
			Total Barium (Ba)	2016/10/25		87	%	80 - 120
			Total Beryllium (Be)	2016/10/25		94	%	80 - 120
			Total Bismuth (Bi)	2016/10/25		101	%	80 - 120
			Total Boron (B)	2016/10/25		103	%	80 - 120
			Total Cadmium (Cd)	2016/10/25		93	%	80 - 120
			Total Calcium (Ca)	2016/10/25		100	%	80 - 120
			Total Chromium (Cr)	2016/10/25		92	%	80 - 120
			Total Cobalt (Co)	2016/10/25		95	%	80 - 120
			Total Copper (Cu)	2016/10/25		93	%	80 - 120
			Total Iron (Fe)	2016/10/25		99	%	80 - 120
			Total Lead (Pb)	2016/10/25		94	%	80 - 120
			Total Magnesium (Mg)	2016/10/25		104	%	80 - 120
			Total Manganese (Mn)	2016/10/25		95	%	80 - 120
			Total Molybdenum (Mo)	2016/10/25		102	%	80 - 120
			Total Nickel (Ni)	2016/10/25		95	%	80 - 120
			Total Phosphorus (P)	2016/10/25		101	%	80 - 120
			Total Potassium (K)	2016/10/25		101	%	80 - 120
			Total Selenium (Se)	2016/10/25		94	%	80 - 120
			Total Silver (Ag)	2016/10/25		95	%	80 - 120
			Total Sodium (Na)	2016/10/25		NC	%	80 - 120
			Total Strontium (Sr)	2016/10/25		NC	%	80 - 120
			Total Thallium (Tl)	2016/10/25		101	%	80 - 120
			Total Tin (Sn)	2016/10/25		104	%	80 - 120
			Total Titanium (Ti)	2016/10/25		99	%	80 - 120
			Total Uranium (U)	2016/10/25		101	%	80 - 120
			Total Vanadium (V)	2016/10/25		92	%	80 - 120
			Total Zinc (Zn)	2016/10/25		98	%	80 - 120
4716186	MLB	Spiked Blank	Total Aluminum (Al)	2016/10/25		105	%	80 - 120
			Total Antimony (Sb)	2016/10/25		102	%	80 - 120
			Total Arsenic (As)	2016/10/25		96	%	80 - 120
			Total Barium (Ba)	2016/10/25		88	%	80 - 120
			Total Beryllium (Be)	2016/10/25		97	%	80 - 120
			Total Bismuth (Bi)	2016/10/25		102	%	80 - 120
			Total Boron (B)	2016/10/25		103	%	80 - 120
			Total Cadmium (Cd)	2016/10/25		96	%	80 - 120
			Total Calcium (Ca)	2016/10/25		100	%	80 - 120
			Total Chromium (Cr)	2016/10/25		94	%	80 - 120
			Total Cobalt (Co)	2016/10/25		98	%	80 - 120
			Total Copper (Cu)	2016/10/25		98	%	80 - 120
			Total Iron (Fe)	2016/10/25		100	%	80 - 120
			Total Lead (Pb)	2016/10/25		98	%	80 - 120
			Total Magnesium (Mg)	2016/10/25		104	%	80 - 120

Maxxam Job #: B6M6998  
Report Date: 2016/10/27

Englobe Corp.  
Client Project #: P-0010903-0-05-205-1  
Site Location: LAKE GEORGE  
Your P.O. #: A-06805  
Sampler Initials: CM

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4716186	MLB	Method Blank	Total Manganese (Mn)	2016/10/25		98	%	80 - 120
			Total Molybdenum (Mo)	2016/10/25		102	%	80 - 120
			Total Nickel (Ni)	2016/10/25		99	%	80 - 120
			Total Phosphorus (P)	2016/10/25		99	%	80 - 120
			Total Potassium (K)	2016/10/25		101	%	80 - 120
			Total Selenium (Se)	2016/10/25		96	%	80 - 120
			Total Silver (Ag)	2016/10/25		98	%	80 - 120
			Total Sodium (Na)	2016/10/25		103	%	80 - 120
			Total Strontium (Sr)	2016/10/25		98	%	80 - 120
			Total Thallium (Tl)	2016/10/25		102	%	80 - 120
			Total Tin (Sn)	2016/10/25		103	%	80 - 120
			Total Titanium (Ti)	2016/10/25		97	%	80 - 120
			Total Uranium (U)	2016/10/25		105	%	80 - 120
			Total Vanadium (V)	2016/10/25		94	%	80 - 120
			Total Zinc (Zn)	2016/10/25		100	%	80 - 120
			Total Aluminum (Al)	2016/10/25	8.5, RDL=5.0		ug/L	
			Total Antimony (Sb)	2016/10/25	<1.0		ug/L	
			Total Arsenic (As)	2016/10/25	<1.0		ug/L	
			Total Barium (Ba)	2016/10/25	<1.0		ug/L	
			Total Beryllium (Be)	2016/10/25	<1.0		ug/L	
			Total Bismuth (Bi)	2016/10/25	<2.0		ug/L	
			Total Boron (B)	2016/10/25	<50		ug/L	
			Total Cadmium (Cd)	2016/10/25	<0.010		ug/L	
			Total Calcium (Ca)	2016/10/25	<100		ug/L	
			Total Chromium (Cr)	2016/10/25	<1.0		ug/L	
			Total Cobalt (Co)	2016/10/25	<0.40		ug/L	
			Total Copper (Cu)	2016/10/25	<2.0		ug/L	
			Total Iron (Fe)	2016/10/25	<50		ug/L	
			Total Lead (Pb)	2016/10/25	<0.50		ug/L	
			Total Magnesium (Mg)	2016/10/25	<100		ug/L	
			Total Manganese (Mn)	2016/10/25	<2.0		ug/L	
			Total Molybdenum (Mo)	2016/10/25	<2.0		ug/L	
			Total Nickel (Ni)	2016/10/25	<2.0		ug/L	
			Total Phosphorus (P)	2016/10/25	<100		ug/L	
			Total Potassium (K)	2016/10/25	<100		ug/L	
			Total Selenium (Se)	2016/10/25	<1.0		ug/L	
			Total Silver (Ag)	2016/10/25	<0.10		ug/L	
			Total Sodium (Na)	2016/10/25	<100		ug/L	
			Total Strontium (Sr)	2016/10/25	<2.0		ug/L	
			Total Thallium (Tl)	2016/10/25	<0.10		ug/L	
			Total Tin (Sn)	2016/10/25	<2.0		ug/L	
			Total Titanium (Ti)	2016/10/25	<2.0		ug/L	
			Total Uranium (U)	2016/10/25	<0.10		ug/L	
			Total Vanadium (V)	2016/10/25	<2.0		ug/L	
			Total Zinc (Zn)	2016/10/25	<5.0		ug/L	
4716186	MLB	RPD - Sample/Sample Dup	Total Aluminum (Al)	2016/10/25	1.3		%	20
			Total Antimony (Sb)	2016/10/25	NC		%	20
			Total Arsenic (As)	2016/10/25	NC		%	20
			Total Barium (Ba)	2016/10/25	0.34		%	20
			Total Beryllium (Be)	2016/10/25	NC		%	20

Maxxam Job #: B6M6998  
Report Date: 2016/10/27

Englobe Corp.  
Client Project #: P-0010903-0-05-205-1  
Site Location: LAKE GEORGE  
Your P.O. #: A-06805  
Sampler Initials: CM

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Total Bismuth (Bi)	2016/10/25	NC		%	20
			Total Boron (B)	2016/10/25	NC		%	20
			Total Cadmium (Cd)	2016/10/25	NC		%	20
			Total Calcium (Ca)	2016/10/25	0.77		%	20
			Total Chromium (Cr)	2016/10/25	NC		%	20
			Total Cobalt (Co)	2016/10/25	NC		%	20
			Total Copper (Cu)	2016/10/25	NC		%	20
			Total Iron (Fe)	2016/10/25	NC		%	20
			Total Lead (Pb)	2016/10/25	NC		%	20
			Total Magnesium (Mg)	2016/10/25	1.1		%	20
			Total Manganese (Mn)	2016/10/25	1.0		%	20
			Total Molybdenum (Mo)	2016/10/25	NC		%	20
			Total Nickel (Ni)	2016/10/25	NC		%	20
			Total Phosphorus (P)	2016/10/25	NC		%	20
			Total Potassium (K)	2016/10/25	4.1		%	20
			Total Selenium (Se)	2016/10/25	NC		%	20
			Total Silver (Ag)	2016/10/25	NC		%	20
			Total Sodium (Na)	2016/10/25	0.072		%	20
			Total Strontium (Sr)	2016/10/25	1.3		%	20
			Total Thallium (Tl)	2016/10/25	NC		%	20
			Total Tin (Sn)	2016/10/25	NC		%	20
			Total Titanium (Ti)	2016/10/25	NC		%	20
			Total Uranium (U)	2016/10/25	NC		%	20
			Total Vanadium (V)	2016/10/25	NC		%	20
			Total Zinc (Zn)	2016/10/25	NC		%	20
4716248	JMV	QC Standard	Turbidity	2016/10/25		101	%	80 - 120
4716248	JMV	Spiked Blank	Turbidity	2016/10/25		96	%	80 - 120
4716248	JMV	Method Blank	Turbidity	2016/10/25	<0.10		NTU	
4716248	JMV	RPD - Sample/Sample Dup	Turbidity	2016/10/25	NC		%	20
4716725	SMT	Matrix Spike(DHC273)	Total Organic Carbon (C)	2016/10/26		106	%	80 - 120
4716725	SMT	Spiked Blank	Total Organic Carbon (C)	2016/10/26		102	%	80 - 120
4716725	SMT	Method Blank	Total Organic Carbon (C)	2016/10/26	<0.50		mg/L	
4716725	SMT	RPD - Sample/Sample Dup	Total Organic Carbon (C)	2016/10/26	NC		%	20
4718220	NRG	Matrix Spike	Total Alkalinity (Total as CaCO3)	2016/10/27		NC	%	80 - 120
4718220	NRG	Spiked Blank	Total Alkalinity (Total as CaCO3)	2016/10/26		104	%	80 - 120
4718220	NRG	Method Blank	Total Alkalinity (Total as CaCO3)	2016/10/26	<5.0		mg/L	
4718220	NRG	RPD - Sample/Sample Dup	Total Alkalinity (Total as CaCO3)	2016/10/27	0.47		%	25
4718221	NRG	Matrix Spike	Dissolved Chloride (Cl)	2016/10/27		NC	%	80 - 120
4718221	NRG	QC Standard	Dissolved Chloride (Cl)	2016/10/27		105	%	80 - 120
4718221	NRG	Spiked Blank	Dissolved Chloride (Cl)	2016/10/27		100	%	80 - 120
4718221	NRG	Method Blank	Dissolved Chloride (Cl)	2016/10/27	<1.0		mg/L	
4718221	NRG	RPD - Sample/Sample Dup	Dissolved Chloride (Cl)	2016/10/27	0.80		%	25
4718222	NRG	Matrix Spike	Dissolved Sulphate (SO4)	2016/10/27		NC	%	80 - 120
4718222	NRG	Spiked Blank	Dissolved Sulphate (SO4)	2016/10/27		102	%	80 - 120
4718222	NRG	Method Blank	Dissolved Sulphate (SO4)	2016/10/27	<2.0		mg/L	
4718222	NRG	RPD - Sample/Sample Dup	Dissolved Sulphate (SO4)	2016/10/27	7.8		%	25
4718223	NRG	Matrix Spike	Reactive Silica (SiO2)	2016/10/26		93	%	80 - 120
4718223	NRG	Spiked Blank	Reactive Silica (SiO2)	2016/10/27		100	%	80 - 120
4718223	NRG	Method Blank	Reactive Silica (SiO2)	2016/10/27	<0.50		mg/L	
4718223	NRG	RPD - Sample/Sample Dup	Reactive Silica (SiO2)	2016/10/26	0.36		%	25
4718224	NRG	Spiked Blank	Colour	2016/10/27		100	%	80 - 120



Maxxam Job #: B6M6998  
Report Date: 2016/10/27

Englobe Corp.  
Client Project #: P-0010903-0-05-205-1  
Site Location: LAKE GEORGE  
Your P.O. #: A-06805  
Sampler Initials: CM

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4718224	NRG	Method Blank	Colour	2016/10/27	<5.0		TCU	
4718224	NRG	RPD - Sample/Sample Dup	Colour	2016/10/27	NC		%	20
4718225	MCN	Matrix Spike	Orthophosphate (P)	2016/10/27		87	%	80 - 120
4718225	MCN	Spiked Blank	Orthophosphate (P)	2016/10/27		95	%	80 - 120
4718225	MCN	Method Blank	Orthophosphate (P)	2016/10/27	<0.010		mg/L	
4718225	MCN	RPD - Sample/Sample Dup	Orthophosphate (P)	2016/10/27	NC		%	25
4718226	NRG	Matrix Spike	Nitrate + Nitrite (N)	2016/10/27		96	%	80 - 120
4718226	NRG	Spiked Blank	Nitrate + Nitrite (N)	2016/10/27		97	%	80 - 120
4718226	NRG	Method Blank	Nitrate + Nitrite (N)	2016/10/27	<0.050		mg/L	
4718226	NRG	RPD - Sample/Sample Dup	Nitrate + Nitrite (N)	2016/10/27	NC		%	25
4718228	KBT	Matrix Spike	Nitrite (N)	2016/10/26		107	%	80 - 120
4718228	KBT	Spiked Blank	Nitrite (N)	2016/10/26		105	%	80 - 120
4718228	KBT	Method Blank	Nitrite (N)	2016/10/26	<0.010		mg/L	
4718228	KBT	RPD - Sample/Sample Dup	Nitrite (N)	2016/10/26	NC		%	25
4718375	NRG	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2016/10/26		99	%	80 - 120
4718375	NRG	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2016/10/27		102	%	80 - 120
4718375	NRG	Method Blank	Nitrogen (Ammonia Nitrogen)	2016/10/27	<0.050		mg/L	
4718375	NRG	RPD - Sample/Sample Dup	Nitrogen (Ammonia Nitrogen)	2016/10/26	NC		%	20

N/A = Not Applicable

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

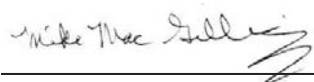
NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

Maxxam Job #: B6M6998  
Report Date: 2016/10/27

Englobe Corp.  
Client Project #: P-0010903-0-05-205-1  
Site Location: LAKE GEORGE  
Your P.O. #: A-06805  
Sampler Initials: CM

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Mike MacGillivray, Scientific Specialist (Inorganics)

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

## CHAIN OF CUSTODY RECORD

[illegible]

White: Maxxam

**Pink: Client**

Your P.O. #: A 06392  
Your Project #: P-0010903-0-00-205  
Site#: LAKE GEORGE

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

Your C.O.C. #: 583336-01-01, 583336-02-01, 583336-03-01

**Report Date: 2016/11/10**

Report #: R4242622

Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B6N8707**

**Received: 2016/11/02, 15:45**

Sample Matrix: Water  
# Samples Received: 20

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Carbonate, Bicarbonate and Hydroxide	20	N/A	2016/11/08	N/A	SM 22 4500-CO2 D
Alkalinity	20	N/A	2016/11/08	ATL SOP 00013	EPA 310.2 R1974 m
Chloride	20	N/A	2016/11/08	ATL SOP 00014	SM 22 4500-Cl- E m
Colour	20	N/A	2016/11/08	ATL SOP 00020	SM 22 2120C m
Conductance - water	20	N/A	2016/11/08	ATL SOP 00004	SM 22 2510B m
Hardness (calculated as CaCO3)	13	N/A	2016/11/09	ATL SOP 00048	SM 22 2340 B
Hardness (calculated as CaCO3)	7	N/A	2016/11/10	ATL SOP 00048	SM 22 2340 B
Mercury - Total (CVAA,LL)	20	2016/11/07	2016/11/08	ATL SOP 00026	EPA 245.1 R3 m
Metals Water Diss. MS (1)	1	N/A	2016/11/08	ATL SOP 00058	EPA 6020A R1 m
Metals Water Diss. MS (as rec'd)	1	N/A	2016/11/08	ATL SOP 00058	EPA 6020A R1 m
Metals Water Diss. MS (as rec'd)	4	N/A	2016/11/09	ATL SOP 00058	EPA 6020A R1 m
Metals Water Total MS	13	2016/11/08	2016/11/08	ATL SOP 00058	EPA 6020A R1 m
Metals Water Total MS	5	2016/11/08	2016/11/09	ATL SOP 00058	EPA 6020A R1 m
Metals Water Total MS	2	2016/11/09	2016/11/10	ATL SOP 00058	EPA 6020A R1 m
Ion Balance (% Difference)	13	N/A	2016/11/09	N/A	Auto Calc.
Ion Balance (% Difference)	7	N/A	2016/11/10	N/A	Auto Calc.
Anion and Cation Sum	13	N/A	2016/11/09	N/A	Auto Calc.
Anion and Cation Sum	7	N/A	2016/11/10	N/A	Auto Calc.
Nitrogen Ammonia - water	12	N/A	2016/11/08	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen Ammonia - water	8	N/A	2016/11/09	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite	20	N/A	2016/11/09	ATL SOP 00016	USGS SOPINCF0452.2 m
Nitrogen - Nitrite	20	N/A	2016/11/09	ATL SOP 00017	SM 22 4500-NO2- B m
Nitrogen - Nitrate (as N)	20	N/A	2016/11/09	ATL SOP 00018	ASTM D3867-16
pH (2)	20	N/A	2016/11/08	ATL SOP 00003	SM 22 4500-H+ B m
Phosphorus - ortho	20	N/A	2016/11/08	ATL SOP 00021	EPA 365.2 m
Sat. pH and Langelier Index (@ 20C)	12	N/A	2016/11/09	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 20C)	8	N/A	2016/11/10	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	12	N/A	2016/11/09	ATL SOP 00049	Auto Calc.

Your P.O. #: A 06392  
Your Project #: P-0010903-0-00-205  
Site#: LAKE GEORGE

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

Your C.O.C. #: 583336-01-01, 583336-02-01, 583336-03-01

**Report Date: 2016/11/10**

Report #: R4242622

Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B6N8707**

**Received: 2016/11/02, 15:45**

Sample Matrix: Water  
# Samples Received: 20

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Sat. pH and Langelier Index (@ 4C)	8	N/A	2016/11/10	ATL SOP 00049	Auto Calc.
Reactive Silica	20	N/A	2016/11/08	ATL SOP 00022	EPA 366.0 m
Sulphate	20	N/A	2016/11/08	ATL SOP 00023	ASTMD516-11 m
Total Dissolved Solids (TDS calc)	13	N/A	2016/11/09	N/A	Auto Calc.
Total Dissolved Solids (TDS calc)	7	N/A	2016/11/10	N/A	Auto Calc.
Organic carbon - Total (TOC) (3)	20	N/A	2016/11/09	ATL SOP 00037	SM 22 5310C m
Total Suspended Solids	2	2016/11/04	2016/11/09	ATL SOP 00007	SM 22 2540D m
Total Suspended Solids	4	2016/11/07	2016/11/07	ATL SOP 00007	SM 22 2540D m
Turbidity	20	N/A	2016/11/08	ATL SOP 00011	EPA 180.1 R2 m

**Remarks:**

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported: unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods. Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

Your P.O. #: A 06392  
Your Project #: P-0010903-0-00-205  
Site#: LAKE GEORGE

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Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

Your C.O.C. #: 583336-01-01, 583336-02-01, 583336-03-01

**Report Date: 2016/11/10**

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**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B6N8707**

**Received: 2016/11/02, 15:45**

- (1) Sample filtered in laboratory prior to analysis for dissolved metals.
- (2) The APHA Standard Method require pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.
- (3) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Encryption Key



Maxxam  
10 Nov 2016 17:06:04 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Avery Withrow, Project Manager

Email: AWithrow@maxxam.ca

Phone# (902)420-0203 Ext:233

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Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DJN876			DJN877	DJN877			
Sampling Date		2016/10/31 14:20			2016/10/31 16:45	2016/10/31 16:45			
COC Number		583336-01-01			583336-01-01	583336-01-01			
	UNITS	SW1	RDL	QC Batch	SW2	SW2 Lab-Dup	RDL	QC Batch	MDL
<b>Calculated Parameters</b>									
Anion Sum	me/L	1.31	N/A	4732173	0.780		N/A	4732173	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4732171	<1.0		1.0	4732171	0.20
Calculated TDS	mg/L	100	1.0	4732181	63		1.0	4732181	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4732171	<1.0		1.0	4732171	0.20
Cation Sum	me/L	1.56	N/A	4732173	1.14		N/A	4732173	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	15	1.0	4731970	21		1.0	4731970	1.0
Ion Balance (% Difference)	%	8.71	N/A	4732172	18.8		N/A	4732172	N/A
Langelier Index (@ 20C)	N/A	NC		4732179	NC			4732179	
Langelier Index (@ 4C)	N/A	NC		4732180	NC			4732180	
Nitrate (N)	mg/L	<0.050	0.050	4731895	<0.050		0.050	4731895	N/A
Saturation pH (@ 20C)	N/A	NC		4732179	NC			4732179	
Saturation pH (@ 4C)	N/A	NC		4732180	NC			4732180	
<b>Inorganics</b>									
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	<5.0	5.0	4738055	<5.0	<5.0	5.0	4738055	N/A
Dissolved Chloride (Cl)	mg/L	23	1.0	4738056	18	19	1.0	4738056	N/A
Colour	TCU	1000	250	4738059	390	400	100	4738059	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4738061	<0.050	<0.050	0.050	4738061	N/A
Nitrite (N)	mg/L	<0.010	0.010	4738062	<0.010	<0.010	0.010	4738062	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	4736497	<0.050		0.050	4736496	N/A
Total Organic Carbon (C)	mg/L	55 (1)	5.0	4740037	34 (1)		5.0	4740037	N/A
Orthophosphate (P)	mg/L	0.033	0.010	4738060	0.018	0.017	0.010	4738060	N/A
pH	pH	4.67	N/A	4738014	5.07		N/A	4738016	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	7.9	0.50	4738058	7.8	7.8	0.50	4738058	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	32	2.0	4738057	13	13	2.0	4738057	N/A
Turbidity	NTU	5.2	0.10	4738100	7.7	7.8	0.10	4738092	0.10
Conductivity	uS/cm	170	1.0	4738015	120		1.0	4738017	N/A
<b>Metals</b>									
Total Aluminum (Al)	ug/L	1900	5.0	4738356	920		5.0	4738356	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4738356	<1.0		1.0	4738356	N/A
Total Arsenic (As)	ug/L	1.8	1.0	4738356	1.1		1.0	4738356	N/A
Total Barium (Ba)	ug/L	8.6	1.0	4738356	8.4		1.0	4738356	N/A
Total Beryllium (Be)	ug/L	<1.0	1.0	4738356	<1.0		1.0	4738356	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Elevated reporting limit due to sample matrix.									

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DJN876			DJN877	DJN877			
Sampling Date		2016/10/31 14:20			2016/10/31 16:45	2016/10/31 16:45			
COC Number		583336-01-01			583336-01-01	583336-01-01			
	UNITS	SW1	RDL	QC Batch	SW2	SW2 Lab-Dup	RDL	QC Batch	MDL
Total Bismuth (Bi)	ug/L	<2.0	2.0	4738356	<2.0		2.0	4738356	N/A
Total Boron (B)	ug/L	<50	50	4738356	<50		50	4738356	N/A
Total Cadmium (Cd)	ug/L	0.098	0.010	4738356	0.082		0.010	4738356	N/A
Total Calcium (Ca)	ug/L	3100	100	4738356	4100		100	4738356	N/A
Total Chromium (Cr)	ug/L	1.8	1.0	4738356	1.1		1.0	4738356	N/A
Total Cobalt (Co)	ug/L	1.2	0.40	4738356	0.81		0.40	4738356	N/A
Total Copper (Cu)	ug/L	4.1	2.0	4738356	<2.0		2.0	4738356	N/A
Total Iron (Fe)	ug/L	1300	50	4738356	670		50	4738356	N/A
Total Lead (Pb)	ug/L	8.4	0.50	4738356	3.3		0.50	4738356	N/A
Total Magnesium (Mg)	ug/L	1800	100	4738356	2900		100	4738356	N/A
Total Manganese (Mn)	ug/L	40	2.0	4738356	43		2.0	4738356	N/A
Total Molybdenum (Mo)	ug/L	<2.0	2.0	4738356	<2.0		2.0	4738356	N/A
Total Nickel (Ni)	ug/L	5.6	2.0	4738356	2.8		2.0	4738356	N/A
Total Phosphorus (P)	ug/L	<100	100	4738356	<100		100	4738356	N/A
Total Potassium (K)	ug/L	9200	100	4738356	3900		100	4738356	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	4738356	<1.0		1.0	4738356	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	4738356	<0.10		0.10	4738356	N/A
Total Sodium (Na)	ug/L	22000	100	4738356	14000		100	4738356	N/A
Total Strontium (Sr)	ug/L	23	2.0	4738356	29		2.0	4738356	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4738356	<0.10		0.10	4738356	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	4738356	<2.0		2.0	4738356	N/A
Total Titanium (Ti)	ug/L	29	2.0	4738356	11		2.0	4738356	N/A
Total Uranium (U)	ug/L	<0.10	0.10	4738356	<0.10		0.10	4738356	N/A
Total Vanadium (V)	ug/L	3.2	2.0	4738356	<2.0		2.0	4738356	N/A
Total Zinc (Zn)	ug/L	12	5.0	4738356	11		5.0	4738356	N/A
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DJN878			DJN879			DJN880			
Sampling Date		2016/11/01 08:40			2016/11/01 14:30			2016/11/01 08:45			
COC Number		583336-01-01			583336-01-01			583336-01-01			
	UNITS	SW3	RDL	QC Batch	SW4	RDL	QC Batch	SW5	RDL	QC Batch	MDL
<b>Calculated Parameters</b>											
Anion Sum	me/L	2.53	N/A	4732173	4.41	N/A	4732173	1.96	N/A	4732173	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	9.3	1.0	4732171	7.7	1.0	4732171	10	1.0	4732171	0.20
Calculated TDS	mg/L	180	1.0	4732181	280	1.0	4732181	140	1.0	4732181	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4732171	<1.0	1.0	4732171	<1.0	1.0	4732171	0.20
Cation Sum	me/L	2.29	N/A	4732173	5.01	N/A	4732173	1.91	N/A	4732173	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	59	1.0	4731970	76	1.0	4731970	49	1.0	4731970	1.0
Ion Balance (% Difference)	%	4.98	N/A	4732172	6.37	N/A	4732172	1.29	N/A	4732172	N/A
Langelier Index (@ 20C)	N/A	-3.19		4732179	-2.85		4732179	-3.05		4732179	
Langelier Index (@ 4C)	N/A	-3.44		4732180	-3.10		4732180	-3.30		4732180	
Nitrate (N)	mg/L	0.084	0.050	4731895	0.14	0.050	4731895	0.23	0.050	4731895	N/A
Saturation pH (@ 20C)	N/A	9.22		4732179	9.28		4732179	9.24		4732179	
Saturation pH (@ 4C)	N/A	9.47		4732180	9.53		4732180	9.49		4732180	
<b>Inorganics</b>											
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	9.3	5.0	4738055	7.7	5.0	4738055	10	5.0	4738055	N/A
Dissolved Chloride (Cl)	mg/L	20	1.0	4738056	140	1.0	4738056	15	1.0	4738056	N/A
Colour	TCU	150	25	4738059	11	5.0	4738059	120	25	4738059	N/A
Nitrate + Nitrite (N)	mg/L	0.084	0.050	4738061	0.14	0.050	4738061	0.23	0.050	4738061	N/A
Nitrite (N)	mg/L	<0.010	0.010	4738062	<0.010	0.010	4738062	<0.010	0.010	4738062	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	4736497	0.10	0.050	4736492	<0.050	0.050	4736497	N/A
Total Organic Carbon (C)	mg/L	19 (1)	5.0	4740037	9.8 (1)	5.0	4740037	13 (1)	5.0	4740037	N/A
Orthophosphate (P)	mg/L	0.028	0.010	4738060	0.012	0.010	4738060	0.014	0.010	4738060	N/A
pH	pH	6.03	N/A	4738016	6.43	N/A	4738012	6.19	N/A	4738012	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	14	0.50	4738058	8.2	0.50	4738058	9.5	0.50	4738058	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	85	10	4738057	21	2.0	4738057	63	10	4738057	N/A
Turbidity	NTU	160	1.0	4738093	40	0.10	4738096	3.5	0.10	4738096	0.10
Conductivity	uS/cm	280	1.0	4738017	490	1.0	4738013	220	1.0	4738013	N/A
<b>Metals</b>											
Total Aluminum (Al)	ug/L	790	5.0	4738356	4600	5.0	4738356	230	5.0	4738356	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4738356	<1.0	1.0	4738356	<1.0	1.0	4738356	N/A
Total Arsenic (As)	ug/L	2.2	1.0	4738356	13	1.0	4738356	1.0	1.0	4738356	N/A
Total Barium (Ba)	ug/L	25	1.0	4738356	48	1.0	4738356	18	1.0	4738356	N/A
Total Beryllium (Be)	ug/L	<1.0	1.0	4738356	<1.0	1.0	4738356	<1.0	1.0	4738356	N/A
Total Bismuth (Bi)	ug/L	<2.0	2.0	4738356	<2.0	2.0	4738356	<2.0	2.0	4738356	N/A
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
N/A = Not Applicable											
(1) Elevated reporting limit due to sample matrix.											

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DJN878			DJN879			DJN880			
Sampling Date		2016/11/01 08:40			2016/11/01 14:30			2016/11/01 08:45			
COC Number		583336-01-01			583336-01-01			583336-01-01			
	UNITS	SW3	RDL	QC Batch	SW4	RDL	QC Batch	SW5	RDL	QC Batch	MDL
Total Boron (B)	ug/L	90	50	4738356	210	50	4738356	71	50	4738356	N/A
Total Cadmium (Cd)	ug/L	0.061	0.010	4738356	0.22	0.010	4738356	0.056	0.010	4738356	N/A
Total Calcium (Ca)	ug/L	17000	100	4738356	18000	100	4738356	13000	100	4738356	N/A
Total Chromium (Cr)	ug/L	1.8	1.0	4738356	7.9	1.0	4738356	<1.0	1.0	4738356	N/A
Total Cobalt (Co)	ug/L	1.3	0.40	4738356	17	0.40	4738356	1.4	0.40	4738356	N/A
Total Copper (Cu)	ug/L	3.5	2.0	4738356	7.1	2.0	4738356	3.0	2.0	4738356	N/A
Total Iron (Fe)	ug/L	2600	50	4738356	19000	50	4738356	860	50	4738356	N/A
Total Lead (Pb)	ug/L	2.2	0.50	4738356	18	0.50	4738356	<0.50	0.50	4738356	N/A
Total Magnesium (Mg)	ug/L	5400	100	4738356	7600	100	4738356	4100	100	4738356	N/A
Total Manganese (Mn)	ug/L	340	2.0	4738356	1200	2.0	4738356	420	2.0	4738356	N/A
Total Molybdenum (Mo)	ug/L	<2.0	2.0	4738356	<2.0	2.0	4738356	<2.0	2.0	4738356	N/A
Total Nickel (Ni)	ug/L	2.6	2.0	4738356	7.4	2.0	4738356	<2.0	2.0	4738356	N/A
Total Phosphorus (P)	ug/L	140	100	4738356	430	100	4738356	<100	100	4738356	N/A
Total Potassium (K)	ug/L	13000	100	4738356	2500	100	4738356	11000	100	4738356	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	4738356	<1.0	1.0	4738356	<1.0	1.0	4738356	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	4738356	<0.10	0.10	4738356	<0.10	0.10	4738356	N/A
Total Sodium (Na)	ug/L	18000	100	4738356	63000	100	4738356	14000	100	4738356	N/A
Total Strontium (Sr)	ug/L	87	2.0	4738356	130	2.0	4738356	68	2.0	4738356	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4738356	<0.10	0.10	4738356	<0.10	0.10	4738356	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	4738356	<2.0	2.0	4738356	<2.0	2.0	4738356	N/A
Total Titanium (Ti)	ug/L	17	2.0	4738356	95	2.0	4738356	3.2	2.0	4738356	N/A
Total Uranium (U)	ug/L	<0.10	0.10	4738356	0.32	0.10	4738356	<0.10	0.10	4738356	N/A
Total Vanadium (V)	ug/L	<2.0	2.0	4738356	18	2.0	4738356	<2.0	2.0	4738356	N/A
Total Zinc (Zn)	ug/L	43	5.0	4738356	25	5.0	4738356	30	5.0	4738356	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DJN881	DJN881			DJN882			
Sampling Date		2016/10/31 15:00	2016/10/31 15:00			2016/10/31 16:50			
COC Number		583336-01-01	583336-01-01			583336-01-01			
	UNITS	SW6	SW6 Lab-Dup	RDL	QC Batch	SW7	RDL	QC Batch	MDL
<b>Calculated Parameters</b>									
Anion Sum	me/L	1.79		N/A	4732173	0.760	N/A	4732173	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	10		1.0	4732171	<1.0	1.0	4732171	0.20
Calculated TDS	mg/L	120		1.0	4732181	64	1.0	4732181	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0		1.0	4732171	<1.0	1.0	4732171	0.20
Cation Sum	me/L	1.78		N/A	4732173	1.16	N/A	4732173	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	36		1.0	4731970	23	1.0	4732313	1.0
Ion Balance (% Difference)	%	0.280		N/A	4732172	20.8	N/A	4732172	N/A
Langelier Index (@ 20C)	N/A	-2.61			4732179	NC		4732179	
Langelier Index (@ 4C)	N/A	-2.86			4732180	NC		4732180	
Nitrate (N)	mg/L	0.062		0.050	4732314	0.062	0.050	4732314	N/A
Saturation pH (@ 20C)	N/A	9.36			4732179	NC		4732179	
Saturation pH (@ 4C)	N/A	9.62			4732180	NC		4732180	
<b>Inorganics</b>									
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	10		5.0	4738067	<5.0	5.0	4738067	N/A
Dissolved Chloride (Cl)	mg/L	20		1.0	4738070	18	1.0	4738070	N/A
Colour	TCU	38		5.0	4738074	400	130	4738074	N/A
Nitrate + Nitrite (N)	mg/L	0.062		0.050	4738078	0.062	0.050	4738078	N/A
Nitrite (N)	mg/L	<0.010		0.010	4738077	<0.010	0.010	4738077	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050		0.050	4736492	<0.050	0.050	4736492	N/A
Total Organic Carbon (C)	mg/L	8.9	9.1	0.50	4740037	31 (1)	5.0	4740037	N/A
Orthophosphate (P)	mg/L	0.013		0.010	4738076	0.017	0.010	4738076	N/A
pH	pH	6.75		N/A	4738012	5.29	N/A	4738012	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	7.5		0.50	4738072	8.3	0.50	4738072	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	49		10	4738071	13	2.0	4738071	N/A
Turbidity	NTU	1.9		0.10	4738096	1.6	0.10	4738096	0.10
Conductivity	uS/cm	210		1.0	4738013	120	1.0	4738013	N/A
<b>Metals</b>									
Total Aluminum (Al)	ug/L	130	140	5.0	4739997	800	5.0	4739997	N/A
Total Antimony (Sb)	ug/L	<1.0	<1.0	1.0	4739997	<1.0	1.0	4739997	N/A
Total Arsenic (As)	ug/L	<1.0	<1.0	1.0	4739997	1.2	1.0	4739997	N/A
Total Barium (Ba)	ug/L	6.8	7.1	1.0	4739997	7.4	1.0	4739997	N/A
Total Beryllium (Be)	ug/L	<1.0	<1.0	1.0	4739997	<1.0	1.0	4739997	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Elevated reporting limit due to sample matrix.									

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DJN881	DJN881			DJN882			
Sampling Date		2016/10/31 15:00	2016/10/31 15:00			2016/10/31 16:50			
COC Number		583336-01-01	583336-01-01			583336-01-01			
	UNITS	SW6	SW6 Lab-Dup	RDL	QC Batch	SW7	RDL	QC Batch	MDL
Total Bismuth (Bi)	ug/L	<2.0	<2.0	2.0	4739997	<2.0	2.0	4739997	N/A
Total Boron (B)	ug/L	<50	51	50	4739997	<50	50	4739997	N/A
Total Cadmium (Cd)	ug/L	<0.010	<0.010	0.010	4739997	0.071	0.010	4739997	N/A
Total Calcium (Ca)	ug/L	9800	10000	100	4739997	4400	100	4739997	N/A
Total Chromium (Cr)	ug/L	<1.0	<1.0	1.0	4739997	1.1	1.0	4739997	N/A
Total Cobalt (Co)	ug/L	<0.40	<0.40	0.40	4739997	0.58	0.40	4739997	N/A
Total Copper (Cu)	ug/L	<2.0	<2.0	2.0	4739997	<2.0	2.0	4739997	N/A
Total Iron (Fe)	ug/L	220	230	50	4739997	690	50	4739997	N/A
Total Lead (Pb)	ug/L	<0.50	<0.50	0.50	4739997	2.6	0.50	4739997	N/A
Total Magnesium (Mg)	ug/L	2700	2800	100	4739997	2800	100	4739997	N/A
Total Manganese (Mn)	ug/L	4.8	4.6	2.0	4739997	44	2.0	4739997	N/A
Total Molybdenum (Mo)	ug/L	<2.0	<2.0	2.0	4739997	<2.0	2.0	4739997	N/A
Total Nickel (Ni)	ug/L	<2.0	<2.0	2.0	4739997	2.5	2.0	4739997	N/A
Total Phosphorus (P)	ug/L	<100	<100	100	4739997	<100	100	4739997	N/A
Total Potassium (K)	ug/L	7900	8000	100	4739997	3400	100	4739997	N/A
Total Selenium (Se)	ug/L	<1.0	<1.0	1.0	4739997	<1.0	1.0	4739997	N/A
Total Silver (Ag)	ug/L	<0.10	<0.10	0.10	4739997	<0.10	0.10	4739997	N/A
Total Sodium (Na)	ug/L	20000	20000	100	4739997	14000	100	4739997	N/A
Total Strontium (Sr)	ug/L	53	54	2.0	4739997	28	2.0	4739997	N/A
Total Thallium (Tl)	ug/L	<0.10	<0.10	0.10	4739997	<0.10	0.10	4739997	N/A
Total Tin (Sn)	ug/L	<2.0	<2.0	2.0	4739997	<2.0	2.0	4739997	N/A
Total Titanium (Ti)	ug/L	3.4	3.8	2.0	4739997	12	2.0	4739997	N/A
Total Uranium (U)	ug/L	<0.10	<0.10	0.10	4739997	<0.10	0.10	4739997	N/A
Total Vanadium (V)	ug/L	<2.0	<2.0	2.0	4739997	2.1	2.0	4739997	N/A
Total Zinc (Zn)	ug/L	<5.0	<5.0	5.0	4739997	10	5.0	4739997	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable									



Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DJN883			DJN910	DJN910			
Sampling Date		2016/10/31 15:50			2016/11/01 09:25	2016/11/01 09:25			
COC Number		583336-01-01			583336-02-01	583336-02-01			
	UNITS	SW9	RDL	QC Batch	SW11	SW11 Lab-Dup	RDL	QC Batch	MDL
<b>Calculated Parameters</b>									
Anion Sum	me/L	3.00	N/A	4732173	1.35		N/A	4732173	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	55	1.0	4732171	<1.0		1.0	4732171	0.20
Calculated TDS	mg/L	200	1.0	4732181	100		1.0	4732181	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4732171	<1.0		1.0	4732171	0.20
Cation Sum	me/L	3.17	N/A	4732173	1.51		N/A	4732173	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	41	1.0	4732313	12		1.0	4732313	1.0
Ion Balance (% Difference)	%	2.76	N/A	4732172	5.59		N/A	4732172	N/A
Langelier Index (@ 20C)	N/A	-2.30		4732179	NC			4732179	
Langelier Index (@ 4C)	N/A	-2.55		4732180	NC			4732180	
Nitrate (N)	mg/L	<0.050	0.050	4732314	0.37		0.050	4732314	N/A
Saturation pH (@ 20C)	N/A	8.65		4732179	NC			4732179	
Saturation pH (@ 4C)	N/A	8.90		4732180	NC			4732180	
<b>Inorganics</b>									
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	55	5.0	4738067	<5.0		5.0	4738067	N/A
Dissolved Chloride (Cl)	mg/L	48	1.0	4738070	22		1.0	4738070	N/A
Colour	TCU	540	150	4738074	1100		250	4738074	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4738078	0.37		0.050	4738078	N/A
Nitrite (N)	mg/L	<0.010	0.010	4738077	<0.010		0.010	4738077	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	0.055	0.050	4736492	0.076		0.050	4736493	N/A
Total Organic Carbon (C)	mg/L	28 (1)	5.0	4740037	58 (1)		5.0	4740037	N/A
Orthophosphate (P)	mg/L	0.074	0.010	4738076	0.035		0.010	4738076	N/A
pH	pH	6.36	N/A	4738010	4.40	4.36	N/A	4738010	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	8.1	0.50	4738072	7.7		0.50	4738072	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	27	2.0	4738071	33		2.0	4738071	N/A
Turbidity	NTU	19	0.10	4738096	3.7		0.10	4738096	0.10
Conductivity	uS/cm	310	1.0	4738011	170	170	1.0	4738011	N/A
<b>Metals</b>									
Total Aluminum (Al)	ug/L	1300	5.0	4738394	1700		5.0	4738394	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4738394	<1.0		1.0	4738394	N/A
Total Arsenic (As)	ug/L	11	1.0	4738394	1.8		1.0	4738394	N/A
Total Barium (Ba)	ug/L	17	1.0	4738394	6.5		1.0	4738394	N/A
Total Beryllium (Be)	ug/L	<1.0	1.0	4738394	<1.0		1.0	4738394	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Elevated reporting limit due to sample matrix.									

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DJN883			DJN910	DJN910			
Sampling Date		2016/10/31 15:50			2016/11/01 09:25	2016/11/01 09:25			
COC Number		583336-01-01			583336-02-01	583336-02-01			
	UNITS	SW9	RDL	QC Batch	SW11	SW11 Lab-Dup	RDL	QC Batch	MDL
Total Bismuth (Bi)	ug/L	<2.0	2.0	4738394	<2.0		2.0	4738394	N/A
Total Boron (B)	ug/L	60	50	4738394	<50		50	4738394	N/A
Total Cadmium (Cd)	ug/L	0.088	0.010	4738394	0.097		0.010	4738394	N/A
Total Calcium (Ca)	ug/L	9900	100	4738394	2300		100	4738394	N/A
Total Chromium (Cr)	ug/L	2.9	1.0	4738394	2.8		1.0	4738394	N/A
Total Cobalt (Co)	ug/L	3.8	0.40	4738394	0.97		0.40	4738394	N/A
Total Copper (Cu)	ug/L	9.3	2.0	4738394	3.2		2.0	4738394	N/A
Total Iron (Fe)	ug/L	6400	50	4738394	930		50	4738394	N/A
Total Lead (Pb)	ug/L	3.4	0.50	4738394	7.6		0.50	4738394	N/A
Total Magnesium (Mg)	ug/L	4000	100	4738394	1500		100	4738394	N/A
Total Manganese (Mn)	ug/L	400	2.0	4738394	18		2.0	4738394	N/A
Total Molybdenum (Mo)	ug/L	2.3	2.0	4738394	<2.0		2.0	4738394	N/A
Total Nickel (Ni)	ug/L	4.3	2.0	4738394	4.7		2.0	4738394	N/A
Total Phosphorus (P)	ug/L	190	100	4738394	<100		100	4738394	N/A
Total Potassium (K)	ug/L	28000	100	4738394	9900		100	4738394	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	4738394	<1.0		1.0	4738394	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	4738394	<0.10		0.10	4738394	N/A
Total Sodium (Na)	ug/L	32000	100	4738394	22000		100	4738394	N/A
Total Strontium (Sr)	ug/L	56	2.0	4738394	17		2.0	4738394	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4738394	<0.10		0.10	4738394	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	4738394	<2.0		2.0	4738394	N/A
Total Titanium (Ti)	ug/L	42	2.0	4738394	25		2.0	4738394	N/A
Total Uranium (U)	ug/L	0.17	0.10	4738394	<0.10		0.10	4738394	N/A
Total Vanadium (V)	ug/L	7.0	2.0	4738394	2.9		2.0	4738394	N/A
Total Zinc (Zn)	ug/L	15	5.0	4738394	11		5.0	4738394	N/A
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DJN911		DJN912			DJN913			
Sampling Date		2016/10/31 16:15		2016/10/31 14:45			2016/10/31 15:15			
COC Number		583336-02-01		583336-02-01			583336-02-01			
	UNITS	SW13	RDL	SW14	RDL	QC Batch	SW15	RDL	QC Batch	MDL
<b>Calculated Parameters</b>										
Anion Sum	me/L	0.470	N/A	2.87	N/A	4732173	2.00	N/A	4732173	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	5.5	1.0	4732171	6.7	1.0	4732171	0.20
Calculated TDS	mg/L	43	1.0	170	1.0	4732181	120	1.0	4732181	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	<1.0	1.0	4732171	<1.0	1.0	4732171	0.20
Cation Sum	me/L	0.790	N/A	2.55	N/A	4732173	1.86	N/A	4732173	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	12	1.0	41	1.0	4732313	44	1.0	4732313	1.0
Ion Balance (% Difference)	%	25.4	N/A	5.90	N/A	4732172	3.63	N/A	4732172	N/A
Langelier Index (@ 20C)	N/A	NC		-3.50		4732179	-3.44		4732179	
Langelier Index (@ 4C)	N/A	NC		-3.75		4732180	-3.69		4732180	
Nitrate (N)	mg/L	<0.050	0.050	<0.050	0.050	4732314	<0.050	0.050	4732314	N/A
Saturation pH (@ 20C)	N/A	NC		9.72		4732179	9.54		4732179	
Saturation pH (@ 4C)	N/A	NC		9.97		4732180	9.79		4732180	
<b>Inorganics</b>										
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	<5.0	5.0	5.5	5.0	4738067	6.7	5.0	4738067	N/A
Dissolved Chloride (Cl)	mg/L	15	1.0	81	1.0	4738070	56	1.0	4738070	N/A
Colour	TCU	320	130	66	25	4738074	16	5.0	4738074	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	<0.050	0.050	4738078	<0.050	0.050	4738078	N/A
Nitrite (N)	mg/L	<0.010	0.010	<0.010	0.010	4738077	<0.010	0.010	4738077	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	0.091	0.050	<0.050	0.050	4736494	<0.050	0.050	4736496	N/A
Total Organic Carbon (C)	mg/L	31 (1)	5.0	6.9	0.50	4740037	3.2	0.50	4740037	N/A
Orthophosphate (P)	mg/L	0.014	0.010	0.013	0.010	4738076	0.012	0.010	4738076	N/A
pH	pH	4.93	N/A	6.22	N/A	4738010	6.10	N/A	4738010	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	9.0	0.50	8.6	0.50	4738072	7.6	0.50	4738072	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	2.1	2.0	22	2.0	4738071	14	2.0	4738071	N/A
Turbidity	NTU	1.2	0.10	0.90	0.10	4738096	1.1	0.10	4738093	0.10
Conductivity	uS/cm	100	1.0	310	1.0	4738011	210	1.0	4738011	N/A
<b>Metals</b>										
Total Aluminum (Al)	ug/L	820	5.0	240	5.0	4738394	120	5.0	4738394	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	<1.0	1.0	4738394	<1.0	1.0	4738394	N/A
Total Arsenic (As)	ug/L	<1.0	1.0	<1.0	1.0	4738394	<1.0	1.0	4738394	N/A
Total Barium (Ba)	ug/L	5.0	1.0	15	1.0	4738394	19	1.0	4738394	N/A
Total Beryllium (Be)	ug/L	<1.0	1.0	<1.0	1.0	4738394	<1.0	1.0	4738394	N/A
Total Bismuth (Bi)	ug/L	<2.0	2.0	<2.0	2.0	4738394	<2.0	2.0	4738394	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Elevated reporting limit due to sample matrix.										

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DJN911		DJN912			DJN913			
Sampling Date		2016/10/31 16:15		2016/10/31 14:45			2016/10/31 15:15			
COC Number		583336-02-01		583336-02-01			583336-02-01			
	UNITS	SW13	RDL	SW14	RDL	QC Batch	SW15	RDL	QC Batch	MDL
Total Boron (B)	ug/L	<50	50	100	50	4738394	<50	50	4738394	N/A
Total Cadmium (Cd)	ug/L	0.059	0.010	0.071	0.010	4738394	0.082	0.010	4738394	N/A
Total Calcium (Ca)	ug/L	1800	100	8600	100	4738394	9700	100	4738394	N/A
Total Chromium (Cr)	ug/L	1.8	1.0	<1.0	1.0	4738394	<1.0	1.0	4738394	N/A
Total Cobalt (Co)	ug/L	1.2	0.40	0.45	0.40	4738394	4.3	0.40	4738394	N/A
Total Copper (Cu)	ug/L	<2.0	2.0	<2.0	2.0	4738394	<2.0	2.0	4738394	N/A
Total Iron (Fe)	ug/L	1100	50	200	50	4738394	470	50	4738394	N/A
Total Lead (Pb)	ug/L	1.8	0.50	<0.50	0.50	4738394	<0.50	0.50	4738394	N/A
Total Magnesium (Mg)	ug/L	1900	100	5000	100	4738394	4700	100	4738394	N/A
Total Manganese (Mn)	ug/L	20	2.0	38	2.0	4738394	500	2.0	4738394	N/A
Total Molybdenum (Mo)	ug/L	<2.0	2.0	<2.0	2.0	4738394	<2.0	2.0	4738394	N/A
Total Nickel (Ni)	ug/L	2.7	2.0	<2.0	2.0	4738394	2.3	2.0	4738394	N/A
Total Phosphorus (P)	ug/L	<100	100	<100	100	4738394	<100	100	4738394	N/A
Total Potassium (K)	ug/L	2200	100	2500	100	4738394	1400	100	4738394	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	<1.0	1.0	4738394	<1.0	1.0	4738394	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	<0.10	0.10	4738394	<0.10	0.10	4738394	N/A
Total Sodium (Na)	ug/L	9900	100	40000	100	4738394	22000	100	4738394	N/A
Total Strontium (Sr)	ug/L	16	2.0	65	2.0	4738394	70	2.0	4738394	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	<0.10	0.10	4738394	<0.10	0.10	4738394	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	<2.0	2.0	4738394	<2.0	2.0	4738394	N/A
Total Titanium (Ti)	ug/L	6.4	2.0	3.4	2.0	4738394	<2.0	2.0	4738394	N/A
Total Uranium (U)	ug/L	<0.10	0.10	<0.10	0.10	4738394	<0.10	0.10	4738394	N/A
Total Vanadium (V)	ug/L	<2.0	2.0	<2.0	2.0	4738394	<2.0	2.0	4738394	N/A
Total Zinc (Zn)	ug/L	6.6	5.0	11	5.0	4738394	26	5.0	4738394	N/A
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
N/A = Not Applicable										

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DJN914			DJN915			DJN916			
Sampling Date		2016/11/02 09:45			2016/10/31			2016/11/01			
COC Number		583336-02-01			583336-02-01			583336-02-01			
	UNITS	SW16	RDL	QC Batch	SW-DUP1	RDL	QC Batch	SW-DUP2	RDL	QC Batch	MDL
<b>Calculated Parameters</b>											
Anion Sum	me/L	0.670	N/A	4732173	3.05	N/A	4732173	1.46	N/A	4732173	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	5.3	1.0	4732171	56	1.0	4732171	5.3	1.0	4732171	0.20
Calculated TDS	mg/L	46	1.0	4732181	200	1.0	4732181	93	1.0	4732181	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4732171	<1.0	1.0	4732171	<1.0	1.0	4732171	0.20
Cation Sum	me/L	0.800	N/A	4732173	3.22	N/A	4732173	1.20	N/A	4732173	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	17	1.0	4732313	43	1.0	4732313	26	1.0	4732313	1.0
Ion Balance (% Difference)	%	8.84	N/A	4732172	2.71	N/A	4732172	9.77	N/A	4732172	N/A
Langelier Index (@ 20C)	N/A	-4.34		4732179	-2.22		4732179	-4.16		4732179	
Langelier Index (@ 4C)	N/A	-4.60		4732180	-2.47		4732180	-4.41		4732180	
Nitrate (N)	mg/L	<0.050	0.050	4732314	<0.050	0.050	4732314	<0.050	0.050	4732314	N/A
Saturation pH (@ 20C)	N/A	10.1		4732179	8.62		4732179	9.94		4732179	
Saturation pH (@ 4C)	N/A	10.3		4732180	8.87		4732180	10.2		4732180	
<b>Inorganics</b>											
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	5.3	5.0	4738067	56	5.0	4738067	5.3	5.0	4738067	N/A
Dissolved Chloride (Cl)	mg/L	16	1.0	4738070	49	1.0	4738070	34	1.0	4738070	N/A
Colour	TCU	120	25	4738074	520	150	4738074	85	25	4738074	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4738078	<0.050	0.050	4738078	<0.050	0.050	4738078	N/A
Nitrite (N)	mg/L	<0.010	0.010	4738077	<0.010	0.010	4738077	<0.010	0.010	4738077	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	4736496	0.10	0.050	4736494	0.061	0.050	4736497	N/A
Total Organic Carbon (C)	mg/L	13 (1)	5.0	4740037	29 (1)	5.0	4740037	11	0.50	4740037	N/A
Orthophosphate (P)	mg/L	0.011	0.010	4738076	0.073	0.010	4738076	0.015	0.010	4738076	N/A
pH	pH	5.72	N/A	4738016	6.40	N/A	4738012	5.78	N/A	4738014	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	4.9	0.50	4738072	7.9	0.50	4738072	12	0.50	4738072	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	5.4	2.0	4738071	27	2.0	4738071	20	2.0	4738071	N/A
Turbidity	NTU	1.0	0.10	4738093	27	0.10	4738096	2.0	0.10	4738100	0.10
Conductivity	uS/cm	90	1.0	4738017	310	1.0	4738013	160	1.0	4738015	N/A
<b>Metals</b>											
Total Aluminum (Al)	ug/L	220	5.0	4738394	1400	5.0	4738394	310	5.0	4738394	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4738394	<1.0	1.0	4738394	<1.0	1.0	4738394	N/A
Total Arsenic (As)	ug/L	<1.0	1.0	4738394	11	1.0	4738394	1.2	1.0	4738394	N/A
Total Barium (Ba)	ug/L	4.6	1.0	4738394	19	1.0	4738394	20	1.0	4738394	N/A
Total Beryllium (Be)	ug/L	<1.0	1.0	4738394	<1.0	1.0	4738394	<1.0	1.0	4738394	N/A
Total Bismuth (Bi)	ug/L	<2.0	2.0	4738394	<2.0	2.0	4738394	<2.0	2.0	4738394	N/A
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
N/A = Not Applicable											
(1) Elevated reporting limit due to sample matrix.											

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DJN914			DJN915			DJN916			
Sampling Date		2016/11/02 09:45			2016/10/31			2016/11/01			
COC Number		583336-02-01			583336-02-01			583336-02-01			
	UNITS	SW16	RDL	QC Batch	SW-DUP1	RDL	QC Batch	SW-DUP2	RDL	QC Batch	MDL
Total Boron (B)	ug/L	<50	50	4738394	59	50	4738394	<50	50	4738394	N/A
Total Cadmium (Cd)	ug/L	0.020	0.010	4738394	0.096	0.010	4738394	0.045	0.010	4738394	N/A
Total Calcium (Ca)	ug/L	3300	100	4738394	10000	100	4738394	5400	100	4738394	N/A
Total Chromium (Cr)	ug/L	1.1	1.0	4738394	3.5	1.0	4738394	<1.0	1.0	4738394	N/A
Total Cobalt (Co)	ug/L	<0.40	0.40	4738394	4.1	0.40	4738394	1.1	0.40	4738394	N/A
Total Copper (Cu)	ug/L	<2.0	2.0	4738394	9.8	2.0	4738394	<2.0	2.0	4738394	N/A
Total Iron (Fe)	ug/L	180	50	4738394	7700	50	4738394	630	50	4738394	N/A
Total Lead (Pb)	ug/L	0.51	0.50	4738394	3.8	0.50	4738394	<0.50	0.50	4738394	N/A
Total Magnesium (Mg)	ug/L	2100	100	4738394	4100	100	4738394	4800	100	4738394	N/A
Total Manganese (Mn)	ug/L	22	2.0	4738394	430	2.0	4738394	41	2.0	4738394	N/A
Total Molybdenum (Mo)	ug/L	<2.0	2.0	4738394	2.3	2.0	4738394	<2.0	2.0	4738394	N/A
Total Nickel (Ni)	ug/L	<2.0	2.0	4738394	4.5	2.0	4738394	<2.0	2.0	4738394	N/A
Total Phosphorus (P)	ug/L	<100	100	4738394	290	100	4738394	<100	100	4738394	N/A
Total Potassium (K)	ug/L	960	100	4738394	27000	100	4738394	1600	100	4738394	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	4738394	<1.0	1.0	4738394	<1.0	1.0	4738394	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	4738394	<0.10	0.10	4738394	<0.10	0.10	4738394	N/A
Total Sodium (Na)	ug/L	9900	100	4738394	32000	100	4738394	16000	100	4738394	N/A
Total Strontium (Sr)	ug/L	24	2.0	4738394	59	2.0	4738394	34	2.0	4738394	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4738394	<0.10	0.10	4738394	<0.10	0.10	4738394	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	4738394	<2.0	2.0	4738394	<2.0	2.0	4738394	N/A
Total Titanium (Ti)	ug/L	<2.0	2.0	4738394	51	2.0	4738394	4.1	2.0	4738394	N/A
Total Uranium (U)	ug/L	<0.10	0.10	4738394	0.19	0.10	4738394	<0.10	0.10	4738394	N/A
Total Vanadium (V)	ug/L	<2.0	2.0	4738394	7.5	2.0	4738394	<2.0	2.0	4738394	N/A
Total Zinc (Zn)	ug/L	<5.0	5.0	4738394	16	5.0	4738394	9.9	5.0	4738394	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable



Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DJN917			DJN918			DJN932			
Sampling Date		2016/11/01 10:15			2016/11/01 09:50			2016/11/01 10:45			
COC Number		583336-02-01			583336-02-01			583336-03-01			
	UNITS	P1A	RDL	QC Batch	P1B	RDL	QC Batch	P2B	RDL	QC Batch	MDL

#### Calculated Parameters

Anion Sum	me/L	2.13	N/A	4732173	1.28	N/A	4732173	1.63	N/A	4732173	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	11	1.0	4732171	6.9	1.0	4732171	8.8	1.0	4732171	0.20
Calculated TDS	mg/L	160	1.0	4732181	150	1.0	4732181	140	1.0	4732181	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4732171	<1.0	1.0	4732171	<1.0	1.0	4732171	0.20
Cation Sum	me/L	2.40	N/A	4732173	3.44	N/A	4732173	2.76	N/A	4732173	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	57	1.0	4732313	100	1.0	4732313	34	1.0	4732313	1.0
Ion Balance (% Difference)	%	5.96	N/A	4732172	45.8	N/A	4732172	25.7	N/A	4732172	N/A
Langelier Index (@ 20C)	N/A	-3.62		4732179	-4.07		4732179	-3.80		4732179	
Langelier Index (@ 4C)	N/A	-3.87		4732180	-4.32		4732180	-4.05		4732180	
Nitrate (N)	mg/L	<0.050	0.050	4732314	0.12	0.050	4732314	<0.050	0.050	4732314	N/A
Saturation pH (@ 20C)	N/A	9.18		4732179	9.14		4732179	9.59		4732179	
Saturation pH (@ 4C)	N/A	9.43		4732180	9.39		4732180	9.84		4732180	

#### Inorganics

Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	11	5.0	4738067	6.9	5.0	4738067	8.8	5.0	4738067	N/A
Dissolved Chloride (Cl)	mg/L	22	1.0	4738070	13	1.0	4738070	27	1.0	4738070	N/A
Colour	TCU	400	150	4738074	210	25	4738074	440	130	4738074	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4738078	0.21	0.050	4738078	<0.050	0.050	4738078	N/A
Nitrite (N)	mg/L	<0.010	0.010	4738077	0.10	0.010	4738077	<0.010	0.010	4738077	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	0.37	0.050	4736496	4.1	0.25	4736496	0.14	0.050	4736493	N/A
Total Organic Carbon (C)	mg/L	33 (1)	5.0	4740037	40 (2)	2.5	4740037	42 (3)	25	4740037	N/A
Orthophosphate (P)	mg/L	0.034	0.010	4738076	0.038	0.010	4738076	0.052	0.010	4738076	N/A
pH	pH	5.56	N/A	4738010	5.07	N/A	4738012	5.79	N/A	4738014	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	15	0.50	4738072	22	0.50	4738072	5.7	0.50	4738072	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	61	10	4738071	36	4.0	4738071	33	2.0	4738071	N/A
Turbidity	NTU	17	0.10	4738096	>1000	1.0	4738096	510	1.0	4738100	0.10
Conductivity	uS/cm	240	1.0	4738011	150	1.0	4738013	200	1.0	4738015	N/A

#### Metals

Total Aluminum (Al)	ug/L	680	5.0	4738394	40000	5.0	4738394	11000	5.0	4738394	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4738394	<1.0	1.0	4738394	<1.0	1.0	4738394	N/A
Total Arsenic (As)	ug/L	4.0	1.0	4738394	8.4	1.0	4738394	7.6	1.0	4738394	N/A
Total Barium (Ba)	ug/L	26	1.0	4738394	220	1.0	4738394	59	1.0	4738394	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) Elevated reporting limit due to sample matrix.

(2) Analysis performed on decanted sample due to sediment content.

(3) Reporting limit was increased due to turbidity.

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DJN917			DJN918			DJN932			
Sampling Date		2016/11/01 10:15			2016/11/01 09:50			2016/11/01 10:45			
COC Number		583336-02-01			583336-02-01			583336-03-01			
	UNITS	P1A	RDL	QC Batch	P1B	RDL	QC Batch	P2B	RDL	QC Batch	MDL
Total Beryllium (Be)	ug/L	<1.0	1.0	4738394	2.3	1.0	4738394	<1.0	1.0	4738394	N/A
Total Bismuth (Bi)	ug/L	<2.0	2.0	4738394	<2.0	2.0	4738394	<2.0	2.0	4738394	N/A
Total Boron (B)	ug/L	130	50	4738394	<50	50	4738394	55	50	4738394	N/A
Total Cadmium (Cd)	ug/L	0.088	0.010	4738394	0.98	0.010	4738394	0.58	0.010	4738394	N/A
Total Calcium (Ca)	ug/L	14000	100	4738394	24000	100	4738394	6800	100	4738394	N/A
Total Chromium (Cr)	ug/L	2.1	1.0	4738394	17	1.0	4738394	16	1.0	4738394	N/A
Total Cobalt (Co)	ug/L	2.6	0.40	4738394	12	0.40	4738394	6.1	0.40	4738394	N/A
Total Copper (Cu)	ug/L	6.2	2.0	4738394	51	2.0	4738394	36	2.0	4738394	N/A
Total Iron (Fe)	ug/L	3300	50	4738394	13000	50	4738394	18000	50	4738394	N/A
Total Lead (Pb)	ug/L	2.7	0.50	4738394	110	0.50	4738394	27	0.50	4738394	N/A
Total Magnesium (Mg)	ug/L	5300	100	4738394	9700	100	4738394	4200	100	4738394	N/A
Total Manganese (Mn)	ug/L	790	2.0	4738394	210	2.0	4738394	380	2.0	4738394	N/A
Total Molybdenum (Mo)	ug/L	<2.0	2.0	4738394	8.7	2.0	4738394	3.5	2.0	4738394	N/A
Total Nickel (Ni)	ug/L	3.6	2.0	4738394	35	2.0	4738394	17	2.0	4738394	N/A
Total Phosphorus (P)	ug/L	140	100	4738394	5300	100	4738394	1100	100	4738394	N/A
Total Potassium (K)	ug/L	14000	100	4738394	2200	100	4738394	20000	100	4738394	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	4738394	5.1	1.0	4738394	1.0	1.0	4738394	N/A
Total Silver (Ag)	ug/L	0.12	0.10	4738394	0.55	0.10	4738394	0.16	0.10	4738394	N/A
Total Sodium (Na)	ug/L	17000	100	4738394	14000	100	4738394	21000	100	4738394	N/A
Total Strontium (Sr)	ug/L	74	2.0	4738394	250	2.0	4738394	47	2.0	4738394	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4738394	<0.10	0.10	4738394	<0.10	0.10	4738394	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	4738394	9.3	2.0	4738394	<2.0	2.0	4738394	N/A
Total Titanium (Ti)	ug/L	17	2.0	4738394	360	2.0	4738394	310	2.0	4738394	N/A
Total Uranium (U)	ug/L	0.10	0.10	4738394	3.3	0.10	4738394	0.57	0.10	4738394	N/A
Total Vanadium (V)	ug/L	2.6	2.0	4738394	36	2.0	4738394	31	2.0	4738394	N/A
Total Zinc (Zn)	ug/L	61	5.0	4738394	47	5.0	4738394	70	5.0	4738394	N/A
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
N/A = Not Applicable											

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

<b>Maxxam ID</b>		DJN933			DJN934			
<b>Sampling Date</b>		2016/11/01 10:55			2016/11/01 13:35			
<b>COC Number</b>		583336-03-01			583336-03-01			
	<b>UNITS</b>	<b>P3</b>	<b>RDL</b>	<b>QC Batch</b>	<b>BACK2</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Calculated Parameters</b>								
Anion Sum	me/L	1.15	N/A	4732173	1.27	N/A	4732173	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	11	1.0	4732171	5.2	1.0	4732171	0.20
Calculated TDS	mg/L	82	1.0	4732181	87	1.0	4732181	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4732171	<1.0	1.0	4732171	0.20
Cation Sum	me/L	1.45	N/A	4732173	1.23	N/A	4732173	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	25	1.0	4732313	27	1.0	4732313	1.0
Ion Balance (% Difference)	%	11.5	N/A	4732172	1.60	N/A	4732172	N/A
Langelier Index (@ 20C)	N/A	-3.70		4732179	-3.74		4732179	
Langelier Index (@ 4C)	N/A	-3.95		4732180	-3.99		4732180	
Nitrate (N)	mg/L	<0.050	0.050	4732314	<0.050	0.050	4732314	N/A
Saturation pH (@ 20C)	N/A	9.55		4732179	9.94		4732179	
Saturation pH (@ 4C)	N/A	9.80		4732180	10.2		4732180	
<b>Inorganics</b>								
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	11	5.0	4738067	5.2	5.0	4738067	N/A
Dissolved Chloride (Cl)	mg/L	25	1.0	4738070	26	1.0	4738070	N/A
Colour	TCU	570	250	4738074	99	25	4738074	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4738078	<0.050	0.050	4738078	N/A
Nitrite (N)	mg/L	<0.010	0.010	4738077	<0.010	0.010	4738077	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	0.078	0.050	4736494	<0.050	0.050	4736496	N/A
Total Organic Carbon (C)	mg/L	42 (1)	25	4740037	11	0.50	4740256	N/A
Orthophosphate (P)	mg/L	0.072	0.010	4738076	0.015	0.010	4738076	N/A
pH	pH	5.84	N/A	4738016	6.20	N/A	4738010	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	5.6	0.50	4738072	12	0.50	4738072	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	9.8	2.0	4738071	21	2.0	4738071	N/A
Turbidity	NTU	390	1.0	4738093	0.78	0.10	4738093	0.10
Conductivity	uS/cm	170	1.0	4738017	140	1.0	4738011	N/A
<b>Metals</b>								
Total Aluminum (Al)	ug/L	1600	5.0	4738394	280	5.0	4738394	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4738394	<1.0	1.0	4738394	N/A
Total Arsenic (As)	ug/L	1.7	1.0	4738394	1.2	1.0	4738394	N/A
Total Barium (Ba)	ug/L	9.4	1.0	4738394	19	1.0	4738394	N/A
Total Beryllium (Be)	ug/L	<1.0	1.0	4738394	<1.0	1.0	4738394	N/A
Total Bismuth (Bi)	ug/L	<2.0	2.0	4738394	<2.0	2.0	4738394	N/A
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								
N/A = Not Applicable								
(1) Reporting limit was increased due to turbidity.								

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

<b>Maxxam ID</b>		DJN933			DJN934			
<b>Sampling Date</b>		2016/11/01 10:55			2016/11/01 13:35			
<b>COC Number</b>		583336-03-01			583336-03-01			
	<b>UNITS</b>	<b>P3</b>	<b>RDL</b>	<b>QC Batch</b>	<b>BACK2</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
Total Boron (B)	ug/L	<50	50	4738394	<50	50	4738394	N/A
Total Cadmium (Cd)	ug/L	0.077	0.010	4738394	0.041	0.010	4738394	N/A
Total Calcium (Ca)	ug/L	5500	100	4738394	5200	100	4738394	N/A
Total Chromium (Cr)	ug/L	2.3	1.0	4738394	3.4	1.0	4738394	N/A
Total Cobalt (Co)	ug/L	1.1	0.40	4738394	1.1	0.40	4738394	N/A
Total Copper (Cu)	ug/L	5.7	2.0	4738394	<2.0	2.0	4738394	N/A
Total Iron (Fe)	ug/L	1600	50	4738394	620	50	4738394	N/A
Total Lead (Pb)	ug/L	4.3	0.50	4738394	<0.50	0.50	4738394	N/A
Total Magnesium (Mg)	ug/L	2700	100	4738394	4700	100	4738394	N/A
Total Manganese (Mn)	ug/L	60	2.0	4738394	40	2.0	4738394	N/A
Total Molybdenum (Mo)	ug/L	<2.0	2.0	4738394	<2.0	2.0	4738394	N/A
Total Nickel (Ni)	ug/L	4.8	2.0	4738394	2.9	2.0	4738394	N/A
Total Phosphorus (P)	ug/L	310	100	4738394	<100	100	4738394	N/A
Total Potassium (K)	ug/L	9300	100	4738394	1600	100	4738394	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	4738394	<1.0	1.0	4738394	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	4738394	<0.10	0.10	4738394	N/A
Total Sodium (Na)	ug/L	15000	100	4738394	16000	100	4738394	N/A
Total Strontium (Sr)	ug/L	31	2.0	4738394	32	2.0	4738394	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4738394	<0.10	0.10	4738394	N/A
Total Tin (Sn)	ug/L	5.8	2.0	4738394	<2.0	2.0	4738394	N/A
Total Titanium (Ti)	ug/L	29	2.0	4738394	4.0	2.0	4738394	N/A
Total Uranium (U)	ug/L	0.18	0.10	4738394	<0.10	0.10	4738394	N/A
Total Vanadium (V)	ug/L	3.1	2.0	4738394	<2.0	2.0	4738394	N/A
Total Zinc (Zn)	ug/L	9.3	5.0	4738394	11	5.0	4738394	N/A
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								
N/A = Not Applicable								

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

### RESULTS OF ANALYSES OF WATER

<b>Maxxam ID</b>		DJN876	DJN877		DJN878			DJN912			
<b>Sampling Date</b>		2016/10/31 14:20	2016/10/31 16:45		2016/11/01 08:40			2016/10/31 14:45			
<b>COC Number</b>		583336-01-01	583336-01-01		583336-01-01			583336-02-01			
	<b>UNITS</b>	<b>SW1</b>	<b>SW2</b>	<b>RDL</b>	<b>SW3</b>	<b>RDL</b>	<b>QC Batch</b>	<b>SW14</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

<b>Inorganics</b>											
Total Suspended Solids	mg/L	<1.0	<1.0	1.0	220	10	4736265	8.2	1.0	4733407	N/A
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
N/A = Not Applicable											

<b>Maxxam ID</b>		DJN916		DJN934			
<b>Sampling Date</b>		2016/11/01		2016/11/01 13:35			
<b>COC Number</b>		583336-02-01		583336-03-01			
	<b>UNITS</b>	<b>SW-DUP2</b>	<b>QC Batch</b>	<b>BACK2</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

<b>Inorganics</b>							
Total Suspended Solids	mg/L	3.2	4733407	<1.0	1.0	4736265	N/A
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							
N/A = Not Applicable							

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

### MERCURY BY COLD VAPOUR AA (WATER)

Maxxam ID		DJN876	DJN877	DJN878	DJN879	DJN880	DJN880			
Sampling Date		2016/10/31 14:20	2016/10/31 16:45	2016/11/01 08:40	2016/11/01 14:30	2016/11/01 08:45	2016/11/01 08:45			
COC Number		583336-01-01	583336-01-01	583336-01-01	583336-01-01	583336-01-01	583336-01-01			
	UNITS	SW1	SW2	SW3	SW4	SW5	SW5 Lab-Dup	RDL	QC Batch	MDL

#### Metals

Total Mercury (Hg)	ug/L	0.047	0.015	0.017	0.015	<0.013	<0.013	0.013	4736732	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable

Maxxam ID		DJN881	DJN882	DJN883	DJN910	DJN911	DJN912			
Sampling Date		2016/10/31 15:00	2016/10/31 16:50	2016/10/31 15:50	2016/11/01 09:25	2016/10/31 16:15	2016/10/31 14:45			
COC Number		583336-01-01	583336-01-01	583336-01-01	583336-02-01	583336-02-01	583336-02-01			
	UNITS	SW6	SW7	SW9	SW11	SW13	SW14	RDL	QC Batch	MDL

#### Metals

Total Mercury (Hg)	ug/L	<0.013	0.013	0.033	0.045	<0.013	<0.013	0.013	4736732	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

Maxxam ID		DJN913	DJN914	DJN915	DJN916	DJN917	DJN918			
Sampling Date		2016/10/31 15:15	2016/11/02 09:45	2016/10/31	2016/11/01	2016/11/01 10:15	2016/11/01 09:50			
COC Number		583336-02-01	583336-02-01	583336-02-01	583336-02-01	583336-02-01	583336-02-01			
	UNITS	SW15	SW16	SW-DUP1	SW-DUP2	P1A	P1B	RDL	QC Batch	MDL

#### Metals

Total Mercury (Hg)	ug/L	<0.013	<0.013	0.037	<0.013	0.022	0.50	0.013	4736732	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

Maxxam ID		DJN932	DJN933		DJN934			
Sampling Date		2016/11/01 10:45	2016/11/01 10:55		2016/11/01 13:35			
COC Number		583336-03-01	583336-03-01		583336-03-01			
	UNITS	P2B	P3	QC Batch	BACK2	RDL	QC Batch	MDL

#### Metals

Total Mercury (Hg)	ug/L	0.21	0.20	4736732	<0.013	0.013	4736738	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable



Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

### ELEMENTS BY ICP/MS (WATER)

Maxxam ID		DJN876		DJN877	DJN878		DJN912			
Sampling Date		2016/10/31 14:20		2016/10/31 16:45	2016/11/01 08:40		2016/10/31 14:45			
COC Number		583336-01-01		583336-01-01	583336-01-01		583336-02-01			
	UNITS	SW1	QC Batch	SW2	SW3	QC Batch	SW14	RDL	QC Batch	MDL

Metals										
Dissolved Aluminum (Al)	ug/L	1800	4738315	830	320	4740054	190	5.0	4738302	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	4738315	<1.0	<1.0	4740054	<1.0	1.0	4738302	N/A
Dissolved Arsenic (As)	ug/L	1.7	4738315	1.0	1.1	4740054	<1.0	1.0	4738302	N/A
Dissolved Barium (Ba)	ug/L	8.6	4738315	7.8	21	4740054	14	1.0	4738302	N/A
Dissolved Beryllium (Be)	ug/L	<1.0	4738315	<1.0	<1.0	4740054	<1.0	1.0	4738302	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0	4738315	<2.0	<2.0	4740054	<2.0	2.0	4738302	N/A
Dissolved Boron (B)	ug/L	<50	4738315	<50	93	4740054	96	50	4738302	N/A
Dissolved Cadmium (Cd)	ug/L	0.11	4738315	0.072	0.042	4740054	0.063	0.010	4738302	N/A
Dissolved Calcium (Ca)	ug/L	3000	4738315	4000	16000	4740054	8200	100	4738302	N/A
Dissolved Chromium (Cr)	ug/L	1.7	4738315	1.1	2.7	4740054	<1.0	1.0	4738302	N/A
Dissolved Cobalt (Co)	ug/L	1.2	4738315	0.71	0.93	4740054	<0.40	0.40	4738302	N/A
Dissolved Copper (Cu)	ug/L	3.9	4738315	<2.0	2.3	4740054	<2.0	2.0	4738302	N/A
Dissolved Iron (Fe)	ug/L	1200	4738315	610	840	4740054	100	50	4738302	N/A
Dissolved Lead (Pb)	ug/L	8.0	4738315	3.1	0.67	4740054	<0.50	0.50	4738302	N/A
Dissolved Magnesium (Mg)	ug/L	1800	4738315	2700	4900	4740054	5000	100	4738302	N/A
Dissolved Manganese (Mn)	ug/L	40	4738315	41	270	4740054	37	2.0	4738302	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	4738315	<2.0	<2.0	4740054	<2.0	2.0	4738302	N/A
Dissolved Nickel (Ni)	ug/L	6.1	4738315	2.9	2.0	4740054	<2.0	2.0	4738302	N/A
Dissolved Phosphorus (P)	ug/L	<100	4738315	<100	<100	4740054	<100	100	4738302	N/A
Dissolved Potassium (K)	ug/L	9100	4738315	3900	13000	4740054	3000	100	4738302	N/A
Dissolved Selenium (Se)	ug/L	<1.0	4738315	<1.0	<1.0	4740054	<1.0	1.0	4738302	N/A
Dissolved Silver (Ag)	ug/L	<0.10	4738315	<0.10	<0.10	4740054	<0.10	0.10	4738302	N/A
Dissolved Sodium (Na)	ug/L	22000	4738315	13000	17000	4740054	38000	100	4738302	N/A
Dissolved Strontium (Sr)	ug/L	23	4738315	26	79	4740054	60	2.0	4738302	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	4738315	<0.10	<0.10	4740054	<0.10	0.10	4738302	N/A
Dissolved Tin (Sn)	ug/L	<2.0	4738315	<2.0	<2.0	4740054	<2.0	2.0	4738302	N/A
Dissolved Titanium (Ti)	ug/L	28	4738315	9.6	4.8	4740054	2.1	2.0	4738302	N/A
Dissolved Uranium (U)	ug/L	<0.10	4738315	<0.10	<0.10	4740054	<0.10	0.10	4738302	N/A
Dissolved Vanadium (V)	ug/L	3.1	4738315	<2.0	<2.0	4740054	<2.0	2.0	4738302	N/A
Dissolved Zinc (Zn)	ug/L	16	4738315	13	38	4740054	11	5.0	4738302	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

### ELEMENTS BY ICP/MS (WATER)

Maxxam ID		DJN912		DJN916		DJN934			
Sampling Date		2016/10/31 14:45		2016/11/01		2016/11/01 13:35			
COC Number		583336-02-01		583336-02-01		583336-03-01			
	UNITS	SW14 Lab-Dup	QC Batch	SW-DUP2	QC Batch	BACK2	RDL	QC Batch	MDL
<b>Metals</b>									
Dissolved Aluminum (Al)	ug/L	180	4738302	280	4740054	280	5.0	4738315	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	4738302	<1.0	4740054	<1.0	1.0	4738315	N/A
Dissolved Arsenic (As)	ug/L	<1.0	4738302	<1.0	4740054	<1.0	1.0	4738315	N/A
Dissolved Barium (Ba)	ug/L	14	4738302	16	4740054	16	1.0	4738315	N/A
Dissolved Beryllium (Be)	ug/L	<1.0	4738302	<1.0	4740054	<1.0	1.0	4738315	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0	4738302	<2.0	4740054	<2.0	2.0	4738315	N/A
Dissolved Boron (B)	ug/L	100	4738302	<50	4740054	<50	50	4738315	N/A
Dissolved Cadmium (Cd)	ug/L	0.062	4738302	0.031	4740054	0.056	0.010	4738315	N/A
Dissolved Calcium (Ca)	ug/L	8000	4738302	4700	4740054	4700	100	4738315	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	4738302	<1.0	4740054	<1.0	1.0	4738315	N/A
Dissolved Cobalt (Co)	ug/L	<0.40	4738302	0.55	4740054	0.55	0.40	4738315	N/A
Dissolved Copper (Cu)	ug/L	<2.0	4738302	<2.0	4740054	<2.0	2.0	4738315	N/A
Dissolved Iron (Fe)	ug/L	100	4738302	320	4740054	300	50	4738315	N/A
Dissolved Lead (Pb)	ug/L	<0.50	4738302	<0.50	4740054	<0.50	0.50	4738315	N/A
Dissolved Magnesium (Mg)	ug/L	5000	4738302	3500	4740054	3700	100	4738315	N/A
Dissolved Manganese (Mn)	ug/L	38	4738302	23	4740054	24	2.0	4738315	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	4738302	<2.0	4740054	<2.0	2.0	4738315	N/A
Dissolved Nickel (Ni)	ug/L	<2.0	4738302	<2.0	4740054	<2.0	2.0	4738315	N/A
Dissolved Phosphorus (P)	ug/L	<100	4738302	<100	4740054	<100	100	4738315	N/A
Dissolved Potassium (K)	ug/L	2800	4738302	1500	4740054	1500	100	4738315	N/A
Dissolved Selenium (Se)	ug/L	<1.0	4738302	<1.0	4740054	<1.0	1.0	4738315	N/A
Dissolved Silver (Ag)	ug/L	<0.10	4738302	<0.10	4740054	<0.10	0.10	4738315	N/A
Dissolved Sodium (Na)	ug/L	38000	4738302	14000	4740054	15000	100	4738315	N/A
Dissolved Strontium (Sr)	ug/L	62	4738302	30	4740054	31	2.0	4738315	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	4738302	<0.10	4740054	<0.10	0.10	4738315	N/A
Dissolved Tin (Sn)	ug/L	<2.0	4738302	<2.0	4740054	<2.0	2.0	4738315	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	4738302	2.8	4740054	2.6	2.0	4738315	N/A
Dissolved Uranium (U)	ug/L	<0.10	4738302	<0.10	4740054	<0.10	0.10	4738315	N/A
Dissolved Vanadium (V)	ug/L	<2.0	4738302	<2.0	4740054	<2.0	2.0	4738315	N/A
Dissolved Zinc (Zn)	ug/L	11	4738302	9.6	4740054	11	5.0	4738315	N/A
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
Lab-Dup = Laboratory Initiated Duplicate									
N/A = Not Applicable									

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

## TEST SUMMARY

**Maxxam ID:** DJN876  
**Sample ID:** SW1  
**Matrix:** Water

**Collected:** 2016/10/31  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738055	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738056	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738059	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738015	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4731970	N/A	2016/11/10	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736732	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4738315	N/A	2016/11/09	Mike Leblanc
Metals Water Total MS	CICP/MS	4738356	2016/11/08	2016/11/09	Bryon Angevine
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/10	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/10	Automated Statchk
Nitrogen Ammonia - water	KONE	4736497	N/A	2016/11/08	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738061	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738062	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk
pH	AT	4738014	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738060	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/10	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/10	Automated Statchk
Reactive Silica	KONE	4738058	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738057	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/10	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740037	N/A	2016/11/09	Soraya Merchant
Total Suspended Solids	BAL	4736265	2016/11/07	2016/11/07	Leslie Power
Turbidity	TURB	4738100	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJN877  
**Sample ID:** SW2  
**Matrix:** Water

**Collected:** 2016/10/31  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738055	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738056	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738059	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738017	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4731970	N/A	2016/11/10	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736732	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4740054	N/A	2016/11/09	Bryon Angevine
Metals Water Total MS	CICP/MS	4738356	2016/11/08	2016/11/09	Bryon Angevine
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/10	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/10	Automated Statchk
Nitrogen Ammonia - water	KONE	4736496	N/A	2016/11/09	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738061	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738062	N/A	2016/11/09	Nancy Rogers

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

## TEST SUMMARY

**Maxxam ID:** DJN877  
**Sample ID:** SW2  
**Matrix:** Water

**Collected:** 2016/10/31  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk
pH	AT	4738016	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738060	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/10	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/10	Automated Statchk
Reactive Silica	KONE	4738058	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738057	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/10	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740037	N/A	2016/11/09	Soraya Merchant
Total Suspended Solids	BAL	4736265	2016/11/07	2016/11/07	Leslie Power
Turbidity	TURB	4738092	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJN877 Dup  
**Sample ID:** SW2  
**Matrix:** Water

**Collected:** 2016/10/31  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	KONE	4738055	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738056	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738059	N/A	2016/11/08	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4738061	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738062	N/A	2016/11/09	Nancy Rogers
Phosphorus - ortho	KONE	4738060	N/A	2016/11/08	Nancy Rogers
Reactive Silica	KONE	4738058	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738057	N/A	2016/11/08	Nancy Rogers
Turbidity	TURB	4738092	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJN878  
**Sample ID:** SW3  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738055	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738056	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738059	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738017	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO3)		4731970	N/A	2016/11/10	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736732	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4740054	N/A	2016/11/09	Bryon Angevine
Metals Water Total MS	CICP/MS	4738356	2016/11/08	2016/11/09	Bryon Angevine
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/10	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/10	Automated Statchk
Nitrogen Ammonia - water	KONE	4736497	N/A	2016/11/09	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738061	N/A	2016/11/09	Nancy Rogers

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

## TEST SUMMARY

**Maxxam ID:** DJN878  
**Sample ID:** SW3  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrite	KONE	4738062	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk
pH	AT	4738016	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738060	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/10	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/10	Automated Statchk
Reactive Silica	KONE	4738058	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738057	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/10	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740037	N/A	2016/11/09	Soraya Merchant
Total Suspended Solids	BAL	4736265	2016/11/07	2016/11/07	Leslie Power
Turbidity	TURB	4738093	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJN879  
**Sample ID:** SW4  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738055	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738056	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738059	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738013	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO3)		4731970	N/A	2016/11/10	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736732	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Total MS	CICP/MS	4738356	2016/11/08	2016/11/09	Bryon Angevine
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/10	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/10	Automated Statchk
Nitrogen Ammonia - water	KONE	4736492	N/A	2016/11/08	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738061	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738062	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk
pH	AT	4738012	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738060	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/10	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/10	Automated Statchk
Reactive Silica	KONE	4738058	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738057	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/10	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740037	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738096	N/A	2016/11/08	Julia McGovern

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

## TEST SUMMARY

**Maxxam ID:** DJN880  
**Sample ID:** SW5  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738055	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738056	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738059	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738013	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO3)		4731970	N/A	2016/11/10	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736732	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Total MS	CICP/MS	4738356	2016/11/08	2016/11/09	Bryon Angevine
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/10	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/10	Automated Statchk
Nitrogen Ammonia - water	KONE	4736497	N/A	2016/11/09	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738061	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738062	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk
pH	AT	4738012	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738060	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/10	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/10	Automated Statchk
Reactive Silica	KONE	4738058	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738057	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/10	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740037	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738096	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJN880 Dup  
**Sample ID:** SW5  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury - Total (CVAA,LL)	CV/AA	4736732	2016/11/07	2016/11/08	Arlene Rossiter

**Maxxam ID:** DJN881  
**Sample ID:** SW6  
**Matrix:** Water

**Collected:** 2016/10/31  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738067	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738070	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738074	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738013	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO3)		4731970	N/A	2016/11/10	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736732	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Total MS	CICP/MS	4739997	2016/11/09	2016/11/10	Bryon Angevine
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/10	Automated Statchk



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## TEST SUMMARY

**Maxxam ID:** DJN881  
**Sample ID:** SW6  
**Matrix:** Water

**Collected:** 2016/10/31  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anion and Cation Sum	CALC	4732173	N/A	2016/11/10	Automated Statchk
Nitrogen Ammonia - water	KONE	4736492	N/A	2016/11/08	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738078	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738077	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4732314	N/A	2016/11/09	Automated Statchk
pH	AT	4738012	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738076	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/10	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/10	Automated Statchk
Reactive Silica	KONE	4738072	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738071	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/10	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740037	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738096	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJN881 Dup  
**Sample ID:** SW6  
**Matrix:** Water

**Collected:** 2016/10/31  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Water Total MS	CICP/MS	4739997	2016/11/09	2016/11/10	Bryon Angevine
Organic carbon - Total (TOC)	TECH	4740037	N/A	2016/11/09	Soraya Merchant

**Maxxam ID:** DJN882  
**Sample ID:** SW7  
**Matrix:** Water

**Collected:** 2016/10/31  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738067	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738070	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738074	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738013	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO3)		4732313	N/A	2016/11/10	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736732	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Total MS	CICP/MS	4739997	2016/11/09	2016/11/10	Bryon Angevine
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/10	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/10	Automated Statchk
Nitrogen Ammonia - water	KONE	4736492	N/A	2016/11/08	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738078	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738077	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4732314	N/A	2016/11/09	Automated Statchk
pH	AT	4738012	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738076	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/10	Automated Statchk

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## TEST SUMMARY

**Maxxam ID:** DJN882  
**Sample ID:** SW7  
**Matrix:** Water

**Collected:** 2016/10/31  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/10	Automated Statchk
Reactive Silica	KONE	4738072	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738071	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/10	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740037	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738096	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJN883  
**Sample ID:** SW9  
**Matrix:** Water

**Collected:** 2016/10/31  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738067	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738070	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738074	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738011	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO3)		4732313	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736732	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Total MS	CICP/MS	4738394	2016/11/08	2016/11/08	Mike Leblanc
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736492	N/A	2016/11/08	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738078	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738077	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4732314	N/A	2016/11/09	Automated Statchk
pH	AT	4738010	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738076	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738072	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738071	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740037	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738096	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJN910  
**Sample ID:** SW11  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738067	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738070	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738074	N/A	2016/11/08	Nancy Rogers

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

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## TEST SUMMARY

**Maxxam ID:** DJN910  
**Sample ID:** SW11  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductance - water	AT	4738011	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4732313	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736732	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Total MS	CICP/MS	4738394	2016/11/08	2016/11/08	Mike Leblanc
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736493	N/A	2016/11/08	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738078	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738077	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4732314	N/A	2016/11/09	Automated Statchk
pH	AT	4738010	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738076	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738072	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738071	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740037	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738096	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJN910 Dup  
**Sample ID:** SW11  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductance - water	AT	4738011	N/A	2016/11/08	Julia McGovern
pH	AT	4738010	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJN911  
**Sample ID:** SW13  
**Matrix:** Water

**Collected:** 2016/10/31  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738067	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738070	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738074	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738011	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4732313	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736732	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Total MS	CICP/MS	4738394	2016/11/08	2016/11/08	Mike Leblanc
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736494	N/A	2016/11/08	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738078	N/A	2016/11/09	Nancy Rogers

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
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## TEST SUMMARY

**Maxxam ID:** DJN911  
**Sample ID:** SW13  
**Matrix:** Water

**Collected:** 2016/10/31  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrite	KONE	4738077	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4732314	N/A	2016/11/09	Automated Statchk
pH	AT	4738010	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738076	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738072	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738071	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740037	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738096	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJN912  
**Sample ID:** SW14  
**Matrix:** Water

**Collected:** 2016/10/31  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738067	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738070	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738074	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738011	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO3)		4732313	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736732	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4738302	N/A	2016/11/08	Mike Leblanc
Metals Water Total MS	CICP/MS	4738394	2016/11/08	2016/11/08	Mike Leblanc
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736494	N/A	2016/11/08	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738078	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738077	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4732314	N/A	2016/11/09	Automated Statchk
pH	AT	4738010	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738076	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738072	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738071	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740037	N/A	2016/11/09	Soraya Merchant
Total Suspended Solids	BAL	4733407	2016/11/04	2016/11/09	Megan MacMillan
Turbidity	TURB	4738096	N/A	2016/11/08	Julia McGovern

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

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## TEST SUMMARY

**Maxxam ID:** DJN912 Dup  
**Sample ID:** SW14  
**Matrix:** Water

**Collected:** 2016/10/31  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Water Diss. MS	CICP/MS	4738302	N/A	2016/11/08	Mike Leblanc

**Maxxam ID:** DJN913  
**Sample ID:** SW15  
**Matrix:** Water

**Collected:** 2016/10/31  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738067	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738070	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738074	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738011	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4732313	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736732	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Total MS	CICP/MS	4738394	2016/11/08	2016/11/08	Mike Leblanc
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736496	N/A	2016/11/09	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738078	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738077	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4732314	N/A	2016/11/09	Automated Statchk
pH	AT	4738010	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738076	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738072	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738071	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740037	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738093	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJN914  
**Sample ID:** SW16  
**Matrix:** Water

**Collected:** 2016/11/02  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738067	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738070	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738074	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738017	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4732313	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736732	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Total MS	CICP/MS	4738394	2016/11/08	2016/11/08	Mike Leblanc
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/09	Automated Statchk

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

## TEST SUMMARY

**Maxxam ID:** DJN914  
**Sample ID:** SW16  
**Matrix:** Water

**Collected:** 2016/11/02  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anion and Cation Sum	CALC	4732173	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736496	N/A	2016/11/09	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738078	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738077	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4732314	N/A	2016/11/09	Automated Statchk
pH	AT	4738016	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738076	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738072	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738071	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740037	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738093	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJN915  
**Sample ID:** SW-DUP1  
**Matrix:** Water

**Collected:** 2016/10/31  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738067	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738070	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738074	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738013	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO3)		4732313	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736732	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Total MS	CICP/MS	4738394	2016/11/08	2016/11/08	Mike Leblanc
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736494	N/A	2016/11/08	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738078	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738077	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4732314	N/A	2016/11/09	Automated Statchk
pH	AT	4738012	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738076	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738072	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738071	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740037	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738096	N/A	2016/11/08	Julia McGovern



Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

## TEST SUMMARY

**Maxxam ID:** DJN916  
**Sample ID:** SW-DUP2  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738067	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738070	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738074	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738015	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO3)		4732313	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736732	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4740054	N/A	2016/11/09	Bryon Angevine
Metals Water Total MS	CICP/MS	4738394	2016/11/08	2016/11/08	Mike Leblanc
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736497	N/A	2016/11/08	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738078	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738077	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4732314	N/A	2016/11/09	Automated Statchk
pH	AT	4738014	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738076	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/10	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/10	Automated Statchk
Reactive Silica	KONE	4738072	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738071	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740037	N/A	2016/11/09	Soraya Merchant
Total Suspended Solids	BAL	4733407	2016/11/04	2016/11/09	Megan MacMillan
Turbidity	TURB	4738100	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJN917  
**Sample ID:** P1A  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738067	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738070	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738074	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738011	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO3)		4732313	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736732	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Total MS	CICP/MS	4738394	2016/11/08	2016/11/08	Mike Leblanc
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736496	N/A	2016/11/09	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738078	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738077	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4732314	N/A	2016/11/09	Automated Statchk

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
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## TEST SUMMARY

**Maxxam ID:** DJN917  
**Sample ID:** P1A  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	4738010	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738076	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738072	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738071	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740037	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738096	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJN918  
**Sample ID:** P1B  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738067	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738070	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738074	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738013	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO3)		4732313	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736732	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Total MS	CICP/MS	4738394	2016/11/08	2016/11/08	Mike Leblanc
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736496	N/A	2016/11/09	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738078	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738077	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4732314	N/A	2016/11/09	Automated Statchk
pH	AT	4738012	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738076	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738072	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738071	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740037	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738096	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJN932  
**Sample ID:** P2B  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

## TEST SUMMARY

**Maxxam ID:** DJN932  
**Sample ID:** P2B  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	KONE	4738067	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738070	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738074	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738015	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4732313	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736732	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Total MS	CICP/MS	4738394	2016/11/08	2016/11/08	Mike Leblanc
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736493	N/A	2016/11/08	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738078	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738077	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4732314	N/A	2016/11/09	Automated Statchk
pH	AT	4738014	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738076	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738072	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738071	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740037	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738100	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJN933  
**Sample ID:** P3  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738067	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738070	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738074	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738017	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4732313	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736732	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Total MS	CICP/MS	4738394	2016/11/08	2016/11/08	Mike Leblanc
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736494	N/A	2016/11/08	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738078	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738077	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4732314	N/A	2016/11/09	Automated Statchk
pH	AT	4738016	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738076	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/09	Automated Statchk

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

## TEST SUMMARY

**Maxxam ID:** DJN933  
**Sample ID:** P3  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738072	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738071	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740037	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738093	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJN934  
**Sample ID:** BACK2  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738067	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738070	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738074	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738011	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO3)		4732313	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736738	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4738315	N/A	2016/11/08	Mike Leblanc
Metals Water Total MS	CICP/MS	4738394	2016/11/08	2016/11/08	Mike Leblanc
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736496	N/A	2016/11/09	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738078	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738077	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4732314	N/A	2016/11/09	Automated Statchk
pH	AT	4738010	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738076	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738072	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738071	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740256	N/A	2016/11/09	Soraya Merchant
Total Suspended Solids	BAL	4736265	2016/11/07	2016/11/07	Leslie Power
Turbidity	TURB	4738093	N/A	2016/11/08	Julia McGovern

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

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## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	4.3°C
Package 2	6.0°C
Package 3	5.3°C

Sample DJN876 [SW1] : RCap Ion Balance acceptable. Low ionic strength sample.

Sample DJN877 [SW2] : RCap Ion Balance acceptable. Low ionic strength sample.

Sample DJN879 [SW4] : Poor RCap Ion Balance due to sample matrix.

Sample DJN882 [SW7] : RCap Ion Balance acceptable. Low ionic strength sample.

Sample DJN910 [SW11] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample DJN911 [SW13] : RCap Ion Balance acceptable. Low ionic strength sample.

Sample DJN912 [SW14] : Poor RCap Ion Balance due to sample matrix.

Sample DJN914 [SW16] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample DJN916 [SW-DUP2] : RCap Ion Balance acceptable. Low ionic strength sample.

Sample DJN917 [P1A] : Poor RCap Ion Balance due to sample matrix.

Sample DJN918 [P1B] : Poor RCap Ion Balance due to sample matrix. Excess cations due to presence of turbidity.

Sample DJN932 [P2B] : Poor RCap Ion Balance due to sample matrix. Excess cations due to presence of turbidity.

Sample DJN933 [P3] : Poor RCap Ion Balance due to sample matrix. Excess cations due to presence of turbidity.

**Results relate only to the items tested.**

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### QUALITY ASSURANCE REPORT

QA/QC				Date		%		
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
4733407	MM9	QC Standard	Total Suspended Solids	2016/11/09		94	%	80 - 120
4733407	MM9	Method Blank	Total Suspended Solids	2016/11/09	<1.0		mg/L	
4736265	LPW	QC Standard	Total Suspended Solids	2016/11/07		97	%	80 - 120
4736265	LPW	Method Blank	Total Suspended Solids	2016/11/07	<1.0		mg/L	
4736265	LPW	RPD - Sample/Sample Dup	Total Suspended Solids	2016/11/07	6.3		%	25
4736492	MCN	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2016/11/08		100	%	80 - 120
4736492	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2016/11/08		103	%	80 - 120
4736492	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2016/11/08	<0.050		mg/L	
4736492	MCN	RPD - Sample/Sample Dup	Nitrogen (Ammonia Nitrogen)	2016/11/08	NC		%	20
4736493	MCN	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2016/11/08		97	%	80 - 120
4736493	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2016/11/08		103	%	80 - 120
4736493	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2016/11/08	<0.050		mg/L	
4736493	MCN	RPD - Sample/Sample Dup	Nitrogen (Ammonia Nitrogen)	2016/11/08	NC		%	20
4736494	MCN	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2016/11/08		NC	%	80 - 120
4736494	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2016/11/08		104	%	80 - 120
4736494	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2016/11/08	<0.050		mg/L	
4736494	MCN	RPD - Sample/Sample Dup	Nitrogen (Ammonia Nitrogen)	2016/11/08	0.64		%	20
4736496	MCN	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2016/11/09		104	%	80 - 120
4736496	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2016/11/08		102	%	80 - 120
4736496	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2016/11/08	<0.050		mg/L	
4736496	MCN	RPD - Sample/Sample Dup	Nitrogen (Ammonia Nitrogen)	2016/11/09	NC		%	20
4736497	MCN	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2016/11/09		104	%	80 - 120
4736497	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2016/11/09		106	%	80 - 120
4736497	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2016/11/09	<0.050		mg/L	
4736497	MCN	RPD - Sample/Sample Dup	Nitrogen (Ammonia Nitrogen)	2016/11/09	NC		%	20
4736732	ARS	Matrix Spike(DJN881)	Total Mercury (Hg)	2016/11/08		106	%	80 - 120
4736732	ARS	Spiked Blank	Total Mercury (Hg)	2016/11/08		105	%	80 - 120
4736732	ARS	Method Blank	Total Mercury (Hg)	2016/11/08	<0.013		ug/L	
4736732	ARS	RPD - Sample/Sample Dup	Total Mercury (Hg)	2016/11/08	NC		%	20
4736738	ARS	Matrix Spike	Total Mercury (Hg)	2016/11/08		103	%	80 - 120
4736738	ARS	Spiked Blank	Total Mercury (Hg)	2016/11/08		107	%	80 - 120
4736738	ARS	Method Blank	Total Mercury (Hg)	2016/11/08	<0.013		ug/L	
4736738	ARS	RPD - Sample/Sample Dup	Total Mercury (Hg)	2016/11/08	NC		%	20
4738010	JMV	QC Standard	pH	2016/11/08		100	%	97 - 103
4738010	JMV	RPD - Sample/Sample Dup	pH	2016/11/08	1.0		%	N/A
4738011	JMV	Spiked Blank	Conductivity	2016/11/08		100	%	80 - 120
4738011	JMV	Method Blank	Conductivity	2016/11/08	1.6, RDL=1.0		uS/cm	
4738011	JMV	RPD - Sample/Sample Dup	Conductivity	2016/11/08	0.0018		%	25
4738012	JMV	QC Standard	pH	2016/11/08		100	%	97 - 103
4738012	JMV	RPD - Sample/Sample Dup	pH	2016/11/08	1.6		%	N/A
4738013	JMV	Spiked Blank	Conductivity	2016/11/08		100	%	80 - 120
4738013	JMV	Method Blank	Conductivity	2016/11/08	1.4, RDL=1.0		uS/cm	
4738013	JMV	RPD - Sample/Sample Dup	Conductivity	2016/11/08	0.089		%	25
4738014	JMV	QC Standard	pH	2016/11/08		100	%	97 - 103
4738014	JMV	RPD - Sample/Sample Dup	pH	2016/11/08	1.5		%	N/A
4738015	JMV	Spiked Blank	Conductivity	2016/11/08		100	%	80 - 120
4738015	JMV	Method Blank	Conductivity	2016/11/08	1.7, RDL=1.0		uS/cm	
4738015	JMV	RPD - Sample/Sample Dup	Conductivity	2016/11/08	0.77		%	25
4738016	JMV	QC Standard	pH	2016/11/08		100	%	97 - 103
4738016	JMV	RPD - Sample/Sample Dup	pH	2016/11/08	0.36		%	N/A



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4738017	JMV		Spiked Blank	Conductivity	2016/11/08		100	%	80 - 120
4738017	JMV		Method Blank	Conductivity	2016/11/08	1.3, RDL=1.0		uS/cm	
4738017	JMV		RPD - Sample/Sample Dup	Conductivity	2016/11/08	0.66		%	25
4738055	NRG		Matrix Spike(DJN877)	Total Alkalinity (Total as CaCO3)	2016/11/08		101	%	80 - 120
4738055	NRG		Spiked Blank	Total Alkalinity (Total as CaCO3)	2016/11/08		107	%	80 - 120
4738055	NRG		Method Blank	Total Alkalinity (Total as CaCO3)	2016/11/08	<5.0		mg/L	
4738055	NRG		RPD - Sample/Sample Dup	Total Alkalinity (Total as CaCO3)	2016/11/08	NC		%	25
4738056	NRG		Matrix Spike(DJN877)	Dissolved Chloride (Cl)	2016/11/08		NC	%	80 - 120
4738056	NRG		QC Standard	Dissolved Chloride (Cl)	2016/11/08		104	%	80 - 120
4738056	NRG		Spiked Blank	Dissolved Chloride (Cl)	2016/11/08		106	%	80 - 120
4738056	NRG		Method Blank	Dissolved Chloride (Cl)	2016/11/08	<1.0		mg/L	
4738056	NRG		RPD - Sample/Sample Dup	Dissolved Chloride (Cl)	2016/11/08	3.7		%	25
4738057	NRG		Matrix Spike(DJN877)	Dissolved Sulphate (SO4)	2016/11/08		NC	%	80 - 120
4738057	NRG		Spiked Blank	Dissolved Sulphate (SO4)	2016/11/08		103	%	80 - 120
4738057	NRG		Method Blank	Dissolved Sulphate (SO4)	2016/11/08	<2.0		mg/L	
4738057	NRG		RPD - Sample/Sample Dup	Dissolved Sulphate (SO4)	2016/11/08	2.6		%	25
4738058	NRG		Matrix Spike(DJN877)	Reactive Silica (SiO2)	2016/11/08		NC	%	80 - 120
4738058	NRG		Spiked Blank	Reactive Silica (SiO2)	2016/11/08		99	%	80 - 120
4738058	NRG		Method Blank	Reactive Silica (SiO2)	2016/11/08	<0.50		mg/L	
4738058	NRG		RPD - Sample/Sample Dup	Reactive Silica (SiO2)	2016/11/08	0.63		%	25
4738059	NRG		Spiked Blank	Colour	2016/11/08		97	%	80 - 120
4738059	NRG		Method Blank	Colour	2016/11/08	<5.0		TCU	
4738059	NRG		RPD - Sample/Sample Dup	Colour	2016/11/08	NC		%	20
4738060	NRG		Matrix Spike(DJN877)	Orthophosphate (P)	2016/11/08		82	%	80 - 120
4738060	NRG		Spiked Blank	Orthophosphate (P)	2016/11/08		98	%	80 - 120
4738060	NRG		Method Blank	Orthophosphate (P)	2016/11/08	<0.010		mg/L	
4738060	NRG		RPD - Sample/Sample Dup	Orthophosphate (P)	2016/11/08	NC		%	25
4738061	NRG		Matrix Spike(DJN877)	Nitrate + Nitrite (N)	2016/11/09		101	%	80 - 120
4738061	NRG		Spiked Blank	Nitrate + Nitrite (N)	2016/11/09		97	%	80 - 120
4738061	NRG		Method Blank	Nitrate + Nitrite (N)	2016/11/09	<0.050		mg/L	
4738061	NRG		RPD - Sample/Sample Dup	Nitrate + Nitrite (N)	2016/11/09	NC		%	25
4738062	NRG		Matrix Spike(DJN877)	Nitrite (N)	2016/11/09		72 (1)	%	80 - 120
4738062	NRG		Spiked Blank	Nitrite (N)	2016/11/09		94	%	80 - 120
4738062	NRG		Method Blank	Nitrite (N)	2016/11/09	<0.010		mg/L	
4738062	NRG		RPD - Sample/Sample Dup	Nitrite (N)	2016/11/09	NC		%	25
4738067	NRG		Matrix Spike	Total Alkalinity (Total as CaCO3)	2016/11/08		NC	%	80 - 120
4738067	NRG		Spiked Blank	Total Alkalinity (Total as CaCO3)	2016/11/08		107	%	80 - 120
4738067	NRG		Method Blank	Total Alkalinity (Total as CaCO3)	2016/11/08	<5.0		mg/L	
4738067	NRG		RPD - Sample/Sample Dup	Total Alkalinity (Total as CaCO3)	2016/11/08	1.5		%	25
4738070	NRG		Matrix Spike	Dissolved Chloride (Cl)	2016/11/08		NC	%	80 - 120
4738070	NRG		QC Standard	Dissolved Chloride (Cl)	2016/11/08		105	%	80 - 120
4738070	NRG		Spiked Blank	Dissolved Chloride (Cl)	2016/11/08		98	%	80 - 120
4738070	NRG		Method Blank	Dissolved Chloride (Cl)	2016/11/08	<1.0		mg/L	
4738070	NRG		RPD - Sample/Sample Dup	Dissolved Chloride (Cl)	2016/11/08	6.3		%	25
4738071	NRG		Matrix Spike	Dissolved Sulphate (SO4)	2016/11/08		NC	%	80 - 120
4738071	NRG		Spiked Blank	Dissolved Sulphate (SO4)	2016/11/08		102	%	80 - 120
4738071	NRG		Method Blank	Dissolved Sulphate (SO4)	2016/11/08	<2.0		mg/L	
4738071	NRG		RPD - Sample/Sample Dup	Dissolved Sulphate (SO4)	2016/11/08	5.8		%	25
4738072	NRG		Matrix Spike	Reactive Silica (SiO2)	2016/11/08		NC	%	80 - 120
4738072	NRG		Spiked Blank	Reactive Silica (SiO2)	2016/11/08		100	%	80 - 120
4738072	NRG		Method Blank	Reactive Silica (SiO2)	2016/11/08	<0.50		mg/L	
4738072	NRG		RPD - Sample/Sample Dup	Reactive Silica (SiO2)	2016/11/08	1.1		%	25

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4738074	NRG		Spiked Blank	Colour	2016/11/08		93	%	80 - 120
4738074	NRG		Method Blank	Colour	2016/11/08	<5.0		TCU	
4738074	NRG		RPD - Sample/Sample Dup	Colour	2016/11/08	NC		%	20
4738076	NRG		Matrix Spike	Orthophosphate (P)	2016/11/08		93	%	80 - 120
4738076	NRG		Spiked Blank	Orthophosphate (P)	2016/11/08		100	%	80 - 120
4738076	NRG		Method Blank	Orthophosphate (P)	2016/11/08	<0.010		mg/L	
4738076	NRG		RPD - Sample/Sample Dup	Orthophosphate (P)	2016/11/08	NC		%	25
4738077	NRG		Matrix Spike	Nitrite (N)	2016/11/09		91	%	80 - 120
4738077	NRG		Spiked Blank	Nitrite (N)	2016/11/09		92	%	80 - 120
4738077	NRG		Method Blank	Nitrite (N)	2016/11/09	<0.010		mg/L	
4738077	NRG		RPD - Sample/Sample Dup	Nitrite (N)	2016/11/09	NC		%	25
4738078	NRG		Matrix Spike	Nitrate + Nitrite (N)	2016/11/09		NC	%	80 - 120
4738078	NRG		Spiked Blank	Nitrate + Nitrite (N)	2016/11/09		95	%	80 - 120
4738078	NRG		Method Blank	Nitrate + Nitrite (N)	2016/11/09	<0.050		mg/L	
4738078	NRG		RPD - Sample/Sample Dup	Nitrate + Nitrite (N)	2016/11/09	0.21		%	25
4738092	JMV		QC Standard	Turbidity	2016/11/08		102	%	80 - 120
4738092	JMV		Spiked Blank	Turbidity	2016/11/08		94	%	80 - 120
4738092	JMV		Method Blank	Turbidity	2016/11/08	<0.10		NTU	
4738092	JMV		RPD - Sample/Sample Dup	Turbidity	2016/11/08	2.1		%	20
4738093	JMV		QC Standard	Turbidity	2016/11/08		101	%	80 - 120
4738093	JMV		Spiked Blank	Turbidity	2016/11/08		95	%	80 - 120
4738093	JMV		Method Blank	Turbidity	2016/11/08	<0.10		NTU	
4738093	JMV		RPD - Sample/Sample Dup	Turbidity	2016/11/08	NC		%	20
4738096	JMV		QC Standard	Turbidity	2016/11/08		101	%	80 - 120
4738096	JMV		Spiked Blank	Turbidity	2016/11/08		95	%	80 - 120
4738096	JMV		Method Blank	Turbidity	2016/11/08	<0.10		NTU	
4738096	JMV		RPD - Sample/Sample Dup	Turbidity	2016/11/08	1.3		%	20
4738100	JMV		QC Standard	Turbidity	2016/11/08		101	%	80 - 120
4738100	JMV		Spiked Blank	Turbidity	2016/11/08		95	%	80 - 120
4738100	JMV		Method Blank	Turbidity	2016/11/08	<0.10		NTU	
4738100	JMV		RPD - Sample/Sample Dup	Turbidity	2016/11/08	NC		%	20
4738302	MLB		Matrix Spike(DJN912)	Dissolved Aluminum (Al)	2016/11/08		102	%	80 - 120
				Dissolved Antimony (Sb)	2016/11/08		98	%	80 - 120
				Dissolved Arsenic (As)	2016/11/08		97	%	80 - 120
				Dissolved Barium (Ba)	2016/11/08		97	%	80 - 120
				Dissolved Beryllium (Be)	2016/11/08		95	%	80 - 120
				Dissolved Bismuth (Bi)	2016/11/08		99	%	80 - 120
				Dissolved Boron (B)	2016/11/08		95	%	80 - 120
				Dissolved Cadmium (Cd)	2016/11/08		96	%	80 - 120
				Dissolved Calcium (Ca)	2016/11/08		99	%	80 - 120
				Dissolved Chromium (Cr)	2016/11/08		96	%	80 - 120
				Dissolved Cobalt (Co)	2016/11/08		97	%	80 - 120
				Dissolved Copper (Cu)	2016/11/08		94	%	80 - 120
				Dissolved Iron (Fe)	2016/11/08		98	%	80 - 120
				Dissolved Lead (Pb)	2016/11/08		96	%	80 - 120
				Dissolved Magnesium (Mg)	2016/11/08		100	%	80 - 120
				Dissolved Manganese (Mn)	2016/11/08		100	%	80 - 120
				Dissolved Molybdenum (Mo)	2016/11/08		101	%	80 - 120
				Dissolved Nickel (Ni)	2016/11/08		96	%	80 - 120
				Dissolved Phosphorus (P)	2016/11/08		103	%	80 - 120
				Dissolved Potassium (K)	2016/11/08		100	%	80 - 120
				Dissolved Selenium (Se)	2016/11/08		100	%	80 - 120
				Dissolved Silver (Ag)	2016/11/08		98	%	80 - 120

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QA/QC				Date		%		
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4738302	MLB	Spiked Blank	Dissolved Sodium (Na)	2016/11/08		NC	%	80 - 120
			Dissolved Strontium (Sr)	2016/11/08		NC	%	80 - 120
			Dissolved Thallium (Tl)	2016/11/08		99	%	80 - 120
			Dissolved Tin (Sn)	2016/11/08		103	%	80 - 120
			Dissolved Titanium (Ti)	2016/11/08		97	%	80 - 120
			Dissolved Uranium (U)	2016/11/08		101	%	80 - 120
			Dissolved Vanadium (V)	2016/11/08		98	%	80 - 120
			Dissolved Zinc (Zn)	2016/11/08		99	%	80 - 120
			Dissolved Aluminum (Al)	2016/11/08		103	%	80 - 120
			Dissolved Antimony (Sb)	2016/11/08		99	%	80 - 120
			Dissolved Arsenic (As)	2016/11/08		98	%	80 - 120
			Dissolved Barium (Ba)	2016/11/08		98	%	80 - 120
			Dissolved Beryllium (Be)	2016/11/08		97	%	80 - 120
			Dissolved Bismuth (Bi)	2016/11/08		101	%	80 - 120
			Dissolved Boron (B)	2016/11/08		97	%	80 - 120
			Dissolved Cadmium (Cd)	2016/11/08		98	%	80 - 120
			Dissolved Calcium (Ca)	2016/11/08		99	%	80 - 120
			Dissolved Chromium (Cr)	2016/11/08		97	%	80 - 120
			Dissolved Cobalt (Co)	2016/11/08		97	%	80 - 120
			Dissolved Copper (Cu)	2016/11/08		96	%	80 - 120
			Dissolved Iron (Fe)	2016/11/08		97	%	80 - 120
			Dissolved Lead (Pb)	2016/11/08		98	%	80 - 120
			Dissolved Magnesium (Mg)	2016/11/08		102	%	80 - 120
			Dissolved Manganese (Mn)	2016/11/08		100	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/11/08		100	%	80 - 120
			Dissolved Nickel (Ni)	2016/11/08		99	%	80 - 120
			Dissolved Phosphorus (P)	2016/11/08		104	%	80 - 120
			Dissolved Potassium (K)	2016/11/08		102	%	80 - 120
			Dissolved Selenium (Se)	2016/11/08		99	%	80 - 120
			Dissolved Silver (Ag)	2016/11/08		98	%	80 - 120
			Dissolved Sodium (Na)	2016/11/08		98	%	80 - 120
			Dissolved Strontium (Sr)	2016/11/08		99	%	80 - 120
			Dissolved Thallium (Tl)	2016/11/08		101	%	80 - 120
			Dissolved Tin (Sn)	2016/11/08		100	%	80 - 120
			Dissolved Titanium (Ti)	2016/11/08		101	%	80 - 120
			Dissolved Uranium (U)	2016/11/08		102	%	80 - 120
			Dissolved Vanadium (V)	2016/11/08		98	%	80 - 120
			Dissolved Zinc (Zn)	2016/11/08		100	%	80 - 120
4738302	MLB	Method Blank	Dissolved Aluminum (Al)	2016/11/08	<5.0		ug/L	
			Dissolved Antimony (Sb)	2016/11/08	<1.0		ug/L	
			Dissolved Arsenic (As)	2016/11/08	<1.0		ug/L	
			Dissolved Barium (Ba)	2016/11/08	<1.0		ug/L	
			Dissolved Beryllium (Be)	2016/11/08	<1.0		ug/L	
			Dissolved Bismuth (Bi)	2016/11/08	<2.0		ug/L	
			Dissolved Boron (B)	2016/11/08	<50		ug/L	
			Dissolved Cadmium (Cd)	2016/11/08	<0.010		ug/L	
			Dissolved Calcium (Ca)	2016/11/08	<100		ug/L	
			Dissolved Chromium (Cr)	2016/11/08	<1.0		ug/L	
			Dissolved Cobalt (Co)	2016/11/08	<0.40		ug/L	
			Dissolved Copper (Cu)	2016/11/08	<2.0		ug/L	
			Dissolved Iron (Fe)	2016/11/08	<50		ug/L	
			Dissolved Lead (Pb)	2016/11/08	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2016/11/08	<100		ug/L	

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Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
4738302	MLB	RPD - Sample/Sample Dup	Dissolved Manganese (Mn)	2016/11/08	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2016/11/08	<2.0		ug/L	
			Dissolved Nickel (Ni)	2016/11/08	<2.0		ug/L	
			Dissolved Phosphorus (P)	2016/11/08	<100		ug/L	
			Dissolved Potassium (K)	2016/11/08	<100		ug/L	
			Dissolved Selenium (Se)	2016/11/08	<1.0		ug/L	
			Dissolved Silver (Ag)	2016/11/08	<0.10		ug/L	
			Dissolved Sodium (Na)	2016/11/08	<100		ug/L	
			Dissolved Strontium (Sr)	2016/11/08	<2.0		ug/L	
			Dissolved Thallium (Tl)	2016/11/08	<0.10		ug/L	
			Dissolved Tin (Sn)	2016/11/08	<2.0		ug/L	
			Dissolved Titanium (Ti)	2016/11/08	<2.0		ug/L	
			Dissolved Uranium (U)	2016/11/08	<0.10		ug/L	
			Dissolved Vanadium (V)	2016/11/08	<2.0		ug/L	
			Dissolved Zinc (Zn)	2016/11/08	<5.0		ug/L	
			Dissolved Aluminum (Al)	2016/11/08	0.44		%	20
			Dissolved Antimony (Sb)	2016/11/08	NC		%	20
			Dissolved Arsenic (As)	2016/11/08	NC		%	20
			Dissolved Barium (Ba)	2016/11/08	1.9		%	20
			Dissolved Beryllium (Be)	2016/11/08	NC		%	20
			Dissolved Bismuth (Bi)	2016/11/08	NC		%	20
			Dissolved Boron (B)	2016/11/08	NC		%	20
			Dissolved Cadmium (Cd)	2016/11/08	1.3		%	20
			Dissolved Calcium (Ca)	2016/11/08	2.1		%	20
			Dissolved Chromium (Cr)	2016/11/08	NC		%	20
			Dissolved Cobalt (Co)	2016/11/08	NC		%	20
			Dissolved Copper (Cu)	2016/11/08	NC		%	20
			Dissolved Iron (Fe)	2016/11/08	NC		%	20
			Dissolved Lead (Pb)	2016/11/08	NC		%	20
			Dissolved Magnesium (Mg)	2016/11/08	0.14		%	20
			Dissolved Manganese (Mn)	2016/11/08	2.0		%	20
			Dissolved Molybdenum (Mo)	2016/11/08	NC		%	20
			Dissolved Nickel (Ni)	2016/11/08	NC		%	20
			Dissolved Phosphorus (P)	2016/11/08	NC		%	20
			Dissolved Potassium (K)	2016/11/08	4.7		%	20
			Dissolved Selenium (Se)	2016/11/08	NC		%	20
			Dissolved Silver (Ag)	2016/11/08	NC		%	20
			Dissolved Sodium (Na)	2016/11/08	0.21		%	20
			Dissolved Strontium (Sr)	2016/11/08	2.4		%	20
			Dissolved Thallium (Tl)	2016/11/08	NC		%	20
			Dissolved Tin (Sn)	2016/11/08	NC		%	20
			Dissolved Titanium (Ti)	2016/11/08	NC		%	20
			Dissolved Uranium (U)	2016/11/08	NC		%	20
			Dissolved Vanadium (V)	2016/11/08	NC		%	20
			Dissolved Zinc (Zn)	2016/11/08	NC		%	20
4738315	MLB	Matrix Spike	Dissolved Aluminum (Al)	2016/11/08		103	%	80 - 120
			Dissolved Antimony (Sb)	2016/11/08		97	%	80 - 120
			Dissolved Arsenic (As)	2016/11/08		95	%	80 - 120
			Dissolved Barium (Ba)	2016/11/08		95	%	80 - 120
			Dissolved Beryllium (Be)	2016/11/08		93	%	80 - 120
			Dissolved Bismuth (Bi)	2016/11/08		98	%	80 - 120
			Dissolved Boron (B)	2016/11/08		94	%	80 - 120
			Dissolved Cadmium (Cd)	2016/11/08		97	%	80 - 120

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QA/QC				Date		%		
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
4738315	MLB	Spiked Blank	Dissolved Calcium (Ca)	2016/11/08		NC	%	80 - 120
			Dissolved Chromium (Cr)	2016/11/08		95	%	80 - 120
			Dissolved Cobalt (Co)	2016/11/08		95	%	80 - 120
			Dissolved Copper (Cu)	2016/11/08		93	%	80 - 120
			Dissolved Iron (Fe)	2016/11/08		98	%	80 - 120
			Dissolved Lead (Pb)	2016/11/08		96	%	80 - 120
			Dissolved Magnesium (Mg)	2016/11/08		102	%	80 - 120
			Dissolved Manganese (Mn)	2016/11/08		NC	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/11/08		100	%	80 - 120
			Dissolved Nickel (Ni)	2016/11/08		95	%	80 - 120
			Dissolved Phosphorus (P)	2016/11/08		106	%	80 - 120
			Dissolved Potassium (K)	2016/11/08		103	%	80 - 120
			Dissolved Selenium (Se)	2016/11/08		100	%	80 - 120
			Dissolved Silver (Ag)	2016/11/08		92	%	80 - 120
			Dissolved Sodium (Na)	2016/11/08		98	%	80 - 120
			Dissolved Strontium (Sr)	2016/11/08		NC	%	80 - 120
			Dissolved Thallium (Tl)	2016/11/08		100	%	80 - 120
			Dissolved Tin (Sn)	2016/11/08		103	%	80 - 120
			Dissolved Titanium (Ti)	2016/11/08		100	%	80 - 120
			Dissolved Uranium (U)	2016/11/08		101	%	80 - 120
			Dissolved Vanadium (V)	2016/11/08		96	%	80 - 120
			Dissolved Zinc (Zn)	2016/11/08		NC	%	80 - 120
			Dissolved Aluminum (Al)	2016/11/08		107	%	80 - 120
			Dissolved Antimony (Sb)	2016/11/08		97	%	80 - 120
			Dissolved Arsenic (As)	2016/11/08		97	%	80 - 120
			Dissolved Barium (Ba)	2016/11/08		97	%	80 - 120
			Dissolved Beryllium (Be)	2016/11/08		96	%	80 - 120
			Dissolved Bismuth (Bi)	2016/11/08		99	%	80 - 120
			Dissolved Boron (B)	2016/11/08		96	%	80 - 120
			Dissolved Cadmium (Cd)	2016/11/08		100	%	80 - 120
			Dissolved Calcium (Ca)	2016/11/08		103	%	80 - 120
			Dissolved Chromium (Cr)	2016/11/08		98	%	80 - 120
			Dissolved Cobalt (Co)	2016/11/08		98	%	80 - 120
			Dissolved Copper (Cu)	2016/11/08		96	%	80 - 120
			Dissolved Iron (Fe)	2016/11/08		101	%	80 - 120
			Dissolved Lead (Pb)	2016/11/08		98	%	80 - 120
			Dissolved Magnesium (Mg)	2016/11/08		105	%	80 - 120
			Dissolved Manganese (Mn)	2016/11/08		100	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/11/08		99	%	80 - 120
			Dissolved Nickel (Ni)	2016/11/08		99	%	80 - 120
			Dissolved Phosphorus (P)	2016/11/08		105	%	80 - 120
			Dissolved Potassium (K)	2016/11/08		104	%	80 - 120
			Dissolved Selenium (Se)	2016/11/08		98	%	80 - 120
			Dissolved Silver (Ag)	2016/11/08		97	%	80 - 120
			Dissolved Sodium (Na)	2016/11/08		101	%	80 - 120
			Dissolved Strontium (Sr)	2016/11/08		99	%	80 - 120
			Dissolved Thallium (Tl)	2016/11/08		100	%	80 - 120
			Dissolved Tin (Sn)	2016/11/08		100	%	80 - 120
			Dissolved Titanium (Ti)	2016/11/08		104	%	80 - 120
			Dissolved Uranium (U)	2016/11/08		101	%	80 - 120
			Dissolved Vanadium (V)	2016/11/08		99	%	80 - 120
			Dissolved Zinc (Zn)	2016/11/08		99	%	80 - 120
4738315	MLB	Method Blank	Dissolved Aluminum (Al)	2016/11/08	<5.0		ug/L	



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QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
				Dissolved Antimony (Sb)	2016/11/08	<1.0		ug/L	
				Dissolved Arsenic (As)	2016/11/08	<1.0		ug/L	
				Dissolved Barium (Ba)	2016/11/08	<1.0		ug/L	
				Dissolved Beryllium (Be)	2016/11/08	<1.0		ug/L	
				Dissolved Bismuth (Bi)	2016/11/08	<2.0		ug/L	
				Dissolved Boron (B)	2016/11/08	<50		ug/L	
				Dissolved Cadmium (Cd)	2016/11/08	0.017, RDL=0.010		ug/L	
				Dissolved Calcium (Ca)	2016/11/08	<100		ug/L	
				Dissolved Chromium (Cr)	2016/11/08	<1.0		ug/L	
				Dissolved Cobalt (Co)	2016/11/08	<0.40		ug/L	
				Dissolved Copper (Cu)	2016/11/08	<2.0		ug/L	
				Dissolved Iron (Fe)	2016/11/08	<50		ug/L	
				Dissolved Lead (Pb)	2016/11/08	<0.50		ug/L	
				Dissolved Magnesium (Mg)	2016/11/08	<100		ug/L	
				Dissolved Manganese (Mn)	2016/11/08	<2.0		ug/L	
				Dissolved Molybdenum (Mo)	2016/11/08	<2.0		ug/L	
				Dissolved Nickel (Ni)	2016/11/08	<2.0		ug/L	
				Dissolved Phosphorus (P)	2016/11/08	<100		ug/L	
				Dissolved Potassium (K)	2016/11/08	<100		ug/L	
				Dissolved Selenium (Se)	2016/11/08	<1.0		ug/L	
				Dissolved Silver (Ag)	2016/11/08	<0.10		ug/L	
				Dissolved Sodium (Na)	2016/11/08	<100		ug/L	
				Dissolved Strontium (Sr)	2016/11/08	<2.0		ug/L	
				Dissolved Thallium (Tl)	2016/11/08	<0.10		ug/L	
				Dissolved Tin (Sn)	2016/11/08	<2.0		ug/L	
				Dissolved Titanium (Ti)	2016/11/08	<2.0		ug/L	
				Dissolved Uranium (U)	2016/11/08	<0.10		ug/L	
				Dissolved Vanadium (V)	2016/11/08	<2.0		ug/L	
				Dissolved Zinc (Zn)	2016/11/08	<5.0		ug/L	
4738315	MLB	RPD - Sample/Sample Dup		Dissolved Aluminum (Al)	2016/11/08	0.31		%	20
				Dissolved Antimony (Sb)	2016/11/08	NC		%	20
				Dissolved Arsenic (As)	2016/11/08	NC		%	20
				Dissolved Barium (Ba)	2016/11/08	NC		%	20
				Dissolved Beryllium (Be)	2016/11/08	NC		%	20
				Dissolved Bismuth (Bi)	2016/11/08	NC		%	20
				Dissolved Boron (B)	2016/11/08	NC		%	20
				Dissolved Cadmium (Cd)	2016/11/08	0.49		%	20
				Dissolved Calcium (Ca)	2016/11/08	1.3		%	20
				Dissolved Chromium (Cr)	2016/11/08	NC		%	20
				Dissolved Cobalt (Co)	2016/11/08	NC		%	20
				Dissolved Copper (Cu)	2016/11/08	NC		%	20
				Dissolved Iron (Fe)	2016/11/08	NC		%	20
				Dissolved Lead (Pb)	2016/11/08	NC		%	20
				Dissolved Magnesium (Mg)	2016/11/08	1.1		%	20
				Dissolved Manganese (Mn)	2016/11/08	3.7		%	20
				Dissolved Molybdenum (Mo)	2016/11/08	NC		%	20
				Dissolved Nickel (Ni)	2016/11/08	NC		%	20
				Dissolved Phosphorus (P)	2016/11/08	NC		%	20
				Dissolved Potassium (K)	2016/11/08	2.6		%	20
				Dissolved Selenium (Se)	2016/11/08	NC		%	20
				Dissolved Silver (Ag)	2016/11/08	NC		%	20
				Dissolved Sodium (Na)	2016/11/08	2.3		%	20



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QA/QC			Date		%		UNITS	QC Limits
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery		
4738356	BAN	Matrix Spike	Dissolved Strontium (Sr)	2016/11/08	2.6		%	20
			Dissolved Thallium (Tl)	2016/11/08	NC		%	20
			Dissolved Tin (Sn)	2016/11/08	NC		%	20
			Dissolved Titanium (Ti)	2016/11/08	NC		%	20
			Dissolved Uranium (U)	2016/11/08	2.4		%	20
			Dissolved Vanadium (V)	2016/11/08	NC		%	20
			Dissolved Zinc (Zn)	2016/11/08	1.5		%	20
			Total Aluminum (Al)	2016/11/08		106	%	80 - 120
			Total Antimony (Sb)	2016/11/08		102	%	80 - 120
			Total Arsenic (As)	2016/11/08		97	%	80 - 120
			Total Barium (Ba)	2016/11/08		99	%	80 - 120
			Total Beryllium (Be)	2016/11/08		97	%	80 - 120
			Total Bismuth (Bi)	2016/11/08		103	%	80 - 120
			Total Boron (B)	2016/11/08		100	%	80 - 120
			Total Cadmium (Cd)	2016/11/08		97	%	80 - 120
			Total Calcium (Ca)	2016/11/08		104	%	80 - 120
			Total Chromium (Cr)	2016/11/08		97	%	80 - 120
			Total Cobalt (Co)	2016/11/08		97	%	80 - 120
			Total Copper (Cu)	2016/11/08		94	%	80 - 120
			Total Iron (Fe)	2016/11/08		104	%	80 - 120
			Total Lead (Pb)	2016/11/08		98	%	80 - 120
			Total Magnesium (Mg)	2016/11/08		107	%	80 - 120
			Total Manganese (Mn)	2016/11/08		100	%	80 - 120
			Total Molybdenum (Mo)	2016/11/08		103	%	80 - 120
			Total Nickel (Ni)	2016/11/08		97	%	80 - 120
			Total Phosphorus (P)	2016/11/08		104	%	80 - 120
			Total Potassium (K)	2016/11/08		106	%	80 - 120
			Total Selenium (Se)	2016/11/08		98	%	80 - 120
			Total Silver (Ag)	2016/11/08		98	%	80 - 120
			Total Sodium (Na)	2016/11/08		101	%	80 - 120
			Total Strontium (Sr)	2016/11/08		100	%	80 - 120
			Total Thallium (Tl)	2016/11/08		103	%	80 - 120
			Total Tin (Sn)	2016/11/08		105	%	80 - 120
			Total Titanium (Ti)	2016/11/08		101	%	80 - 120
			Total Uranium (U)	2016/11/08		104	%	80 - 120
			Total Vanadium (V)	2016/11/08		98	%	80 - 120
			Total Zinc (Zn)	2016/11/08		96	%	80 - 120
4738356	BAN	Spiked Blank	Total Aluminum (Al)	2016/11/08		106	%	80 - 120
			Total Antimony (Sb)	2016/11/08		102	%	80 - 120
			Total Arsenic (As)	2016/11/08		97	%	80 - 120
			Total Barium (Ba)	2016/11/08		97	%	80 - 120
			Total Beryllium (Be)	2016/11/08		98	%	80 - 120
			Total Bismuth (Bi)	2016/11/08		104	%	80 - 120
			Total Boron (B)	2016/11/08		99	%	80 - 120
			Total Cadmium (Cd)	2016/11/08		98	%	80 - 120
			Total Calcium (Ca)	2016/11/08		102	%	80 - 120
			Total Chromium (Cr)	2016/11/08		99	%	80 - 120
			Total Cobalt (Co)	2016/11/08		98	%	80 - 120
			Total Copper (Cu)	2016/11/08		97	%	80 - 120
			Total Iron (Fe)	2016/11/08		100	%	80 - 120
			Total Lead (Pb)	2016/11/08		101	%	80 - 120
			Total Magnesium (Mg)	2016/11/08		105	%	80 - 120
			Total Manganese (Mn)	2016/11/08		103	%	80 - 120

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QA/QC				Date		%		
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
4738356	BAN	Method Blank	Total Molybdenum (Mo)	2016/11/08		100	%	80 - 120
			Total Nickel (Ni)	2016/11/08		98	%	80 - 120
			Total Phosphorus (P)	2016/11/08		103	%	80 - 120
			Total Potassium (K)	2016/11/08		102	%	80 - 120
			Total Selenium (Se)	2016/11/08		99	%	80 - 120
			Total Silver (Ag)	2016/11/08		99	%	80 - 120
			Total Sodium (Na)	2016/11/08		100	%	80 - 120
			Total Strontium (Sr)	2016/11/08		104	%	80 - 120
			Total Thallium (Tl)	2016/11/08		102	%	80 - 120
			Total Tin (Sn)	2016/11/08		105	%	80 - 120
			Total Titanium (Ti)	2016/11/08		104	%	80 - 120
			Total Uranium (U)	2016/11/08		106	%	80 - 120
			Total Vanadium (V)	2016/11/08		100	%	80 - 120
			Total Zinc (Zn)	2016/11/08		98	%	80 - 120
			Total Aluminum (Al)	2016/11/08	6.4, RDL=5.0		ug/L	
			Total Antimony (Sb)	2016/11/08	<1.0		ug/L	
			Total Arsenic (As)	2016/11/08	<1.0		ug/L	
			Total Barium (Ba)	2016/11/08	<1.0		ug/L	
			Total Beryllium (Be)	2016/11/08	<1.0		ug/L	
			Total Bismuth (Bi)	2016/11/08	<2.0		ug/L	
			Total Boron (B)	2016/11/08	<50		ug/L	
			Total Cadmium (Cd)	2016/11/08	<0.010		ug/L	
			Total Calcium (Ca)	2016/11/08	<100		ug/L	
			Total Chromium (Cr)	2016/11/08	<1.0		ug/L	
			Total Cobalt (Co)	2016/11/08	<0.40		ug/L	
			Total Copper (Cu)	2016/11/08	<2.0		ug/L	
			Total Iron (Fe)	2016/11/08	<50		ug/L	
			Total Lead (Pb)	2016/11/08	<0.50		ug/L	
			Total Magnesium (Mg)	2016/11/08	<100		ug/L	
			Total Manganese (Mn)	2016/11/08	<2.0		ug/L	
			Total Molybdenum (Mo)	2016/11/08	<2.0		ug/L	
			Total Nickel (Ni)	2016/11/08	<2.0		ug/L	
			Total Phosphorus (P)	2016/11/08	<100		ug/L	
			Total Potassium (K)	2016/11/08	<100		ug/L	
			Total Selenium (Se)	2016/11/08	<1.0		ug/L	
			Total Silver (Ag)	2016/11/08	<0.10		ug/L	
			Total Sodium (Na)	2016/11/08	<100		ug/L	
			Total Strontium (Sr)	2016/11/08	<2.0		ug/L	
			Total Thallium (Tl)	2016/11/08	<0.10		ug/L	
			Total Tin (Sn)	2016/11/08	<2.0		ug/L	
			Total Titanium (Ti)	2016/11/08	<2.0		ug/L	
			Total Uranium (U)	2016/11/08	<0.10		ug/L	
			Total Vanadium (V)	2016/11/08	<2.0		ug/L	
			Total Zinc (Zn)	2016/11/08	<5.0		ug/L	
4738356	BAN	RPD - Sample/Sample Dup	Total Aluminum (Al)	2016/11/08	NC		%	20
			Total Antimony (Sb)	2016/11/08	NC		%	20
			Total Arsenic (As)	2016/11/08	NC		%	20
			Total Barium (Ba)	2016/11/08	NC		%	20
			Total Beryllium (Be)	2016/11/08	NC		%	20
			Total Bismuth (Bi)	2016/11/08	NC		%	20
			Total Boron (B)	2016/11/08	NC		%	20
			Total Cadmium (Cd)	2016/11/08	NC		%	20

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QA/QC				Date		%		
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
			Total Calcium (Ca)	2016/11/08	2.3		%	20
			Total Chromium (Cr)	2016/11/08	NC		%	20
			Total Cobalt (Co)	2016/11/08	NC		%	20
			Total Copper (Cu)	2016/11/08	1.9		%	20
			Total Iron (Fe)	2016/11/08	NC		%	20
			Total Lead (Pb)	2016/11/08	NC		%	20
			Total Magnesium (Mg)	2016/11/08	1.0		%	20
			Total Manganese (Mn)	2016/11/08	NC		%	20
			Total Molybdenum (Mo)	2016/11/08	NC		%	20
			Total Nickel (Ni)	2016/11/08	NC		%	20
			Total Phosphorus (P)	2016/11/08	NC		%	20
			Total Potassium (K)	2016/11/08	2.4		%	20
			Total Selenium (Se)	2016/11/08	NC		%	20
			Total Silver (Ag)	2016/11/08	NC		%	20
			Total Sodium (Na)	2016/11/08	1.9		%	20
			Total Strontium (Sr)	2016/11/08	1.4		%	20
			Total Thallium (Tl)	2016/11/08	NC		%	20
			Total Tin (Sn)	2016/11/08	NC		%	20
			Total Titanium (Ti)	2016/11/08	NC		%	20
			Total Uranium (U)	2016/11/08	1.4		%	20
			Total Vanadium (V)	2016/11/08	NC		%	20
			Total Zinc (Zn)	2016/11/08	1.3		%	20
4738394	MLB	Matrix Spike	Total Aluminum (Al)	2016/11/09		NC	%	80 - 120
			Total Antimony (Sb)	2016/11/09		107	%	80 - 120
			Total Arsenic (As)	2016/11/09		104	%	80 - 120
			Total Barium (Ba)	2016/11/09		NC	%	80 - 120
			Total Beryllium (Be)	2016/11/09		103	%	80 - 120
			Total Bismuth (Bi)	2016/11/09		102	%	80 - 120
			Total Boron (B)	2016/11/09		102	%	80 - 120
			Total Cadmium (Cd)	2016/11/09		103	%	80 - 120
			Total Calcium (Ca)	2016/11/09		NC	%	80 - 120
			Total Chromium (Cr)	2016/11/09		104	%	80 - 120
			Total Cobalt (Co)	2016/11/09		99	%	80 - 120
			Total Copper (Cu)	2016/11/09		97	%	80 - 120
			Total Iron (Fe)	2016/11/09		NC	%	80 - 120
			Total Lead (Pb)	2016/11/09		102	%	80 - 120
			Total Magnesium (Mg)	2016/11/09		NC	%	80 - 120
			Total Manganese (Mn)	2016/11/09		NC	%	80 - 120
			Total Molybdenum (Mo)	2016/11/09		107	%	80 - 120
			Total Nickel (Ni)	2016/11/09		99	%	80 - 120
			Total Phosphorus (P)	2016/11/09		106	%	80 - 120
			Total Potassium (K)	2016/11/09		NC	%	80 - 120
			Total Selenium (Se)	2016/11/09		105	%	80 - 120
			Total Silver (Ag)	2016/11/09		104	%	80 - 120
			Total Sodium (Na)	2016/11/09		NC	%	80 - 120
			Total Strontium (Sr)	2016/11/09		NC	%	80 - 120
			Total Thallium (Tl)	2016/11/09		103	%	80 - 120
			Total Tin (Sn)	2016/11/09		110	%	80 - 120
			Total Titanium (Ti)	2016/11/09		110	%	80 - 120
			Total Uranium (U)	2016/11/09		112	%	80 - 120
			Total Vanadium (V)	2016/11/09		106	%	80 - 120
			Total Zinc (Zn)	2016/11/09		98	%	80 - 120
4738394	MLB	Spiked Blank	Total Aluminum (Al)	2016/11/08		108	%	80 - 120

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QA/QC				Date		%		
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
			Total Antimony (Sb)	2016/11/08		105	%	80 - 120
			Total Arsenic (As)	2016/11/08		98	%	80 - 120
			Total Barium (Ba)	2016/11/08		99	%	80 - 120
			Total Beryllium (Be)	2016/11/08		100	%	80 - 120
			Total Bismuth (Bi)	2016/11/08		104	%	80 - 120
			Total Boron (B)	2016/11/08		102	%	80 - 120
			Total Cadmium (Cd)	2016/11/08		100	%	80 - 120
			Total Calcium (Ca)	2016/11/08		104	%	80 - 120
			Total Chromium (Cr)	2016/11/08		98	%	80 - 120
			Total Cobalt (Co)	2016/11/08		99	%	80 - 120
			Total Copper (Cu)	2016/11/08		97	%	80 - 120
			Total Iron (Fe)	2016/11/08		102	%	80 - 120
			Total Lead (Pb)	2016/11/08		101	%	80 - 120
			Total Magnesium (Mg)	2016/11/08		106	%	80 - 120
			Total Manganese (Mn)	2016/11/08		103	%	80 - 120
			Total Molybdenum (Mo)	2016/11/08		102	%	80 - 120
			Total Nickel (Ni)	2016/11/08		99	%	80 - 120
			Total Phosphorus (P)	2016/11/08		105	%	80 - 120
			Total Potassium (K)	2016/11/08		106	%	80 - 120
			Total Selenium (Se)	2016/11/08		101	%	80 - 120
			Total Silver (Ag)	2016/11/08		100	%	80 - 120
			Total Sodium (Na)	2016/11/08		102	%	80 - 120
			Total Strontium (Sr)	2016/11/08		102	%	80 - 120
			Total Thallium (Tl)	2016/11/08		104	%	80 - 120
			Total Tin (Sn)	2016/11/08		106	%	80 - 120
			Total Titanium (Ti)	2016/11/08		101	%	80 - 120
			Total Uranium (U)	2016/11/08		107	%	80 - 120
			Total Vanadium (V)	2016/11/08		101	%	80 - 120
			Total Zinc (Zn)	2016/11/08		99	%	80 - 120
4738394	MLB	Method Blank	Total Aluminum (Al)	2016/11/08	6.1, RDL=5.0		ug/L	
			Total Antimony (Sb)	2016/11/08	<1.0		ug/L	
			Total Arsenic (As)	2016/11/08	<1.0		ug/L	
			Total Barium (Ba)	2016/11/08	<1.0		ug/L	
			Total Beryllium (Be)	2016/11/08	<1.0		ug/L	
			Total Bismuth (Bi)	2016/11/08	<2.0		ug/L	
			Total Boron (B)	2016/11/08	<50		ug/L	
			Total Cadmium (Cd)	2016/11/08	<0.010		ug/L	
			Total Calcium (Ca)	2016/11/08	<100		ug/L	
			Total Chromium (Cr)	2016/11/08	<1.0		ug/L	
			Total Cobalt (Co)	2016/11/08	<0.40		ug/L	
			Total Copper (Cu)	2016/11/08	<2.0		ug/L	
			Total Iron (Fe)	2016/11/08	<50		ug/L	
			Total Lead (Pb)	2016/11/08	<0.50		ug/L	
			Total Magnesium (Mg)	2016/11/08	<100		ug/L	
			Total Manganese (Mn)	2016/11/08	<2.0		ug/L	
			Total Molybdenum (Mo)	2016/11/08	<2.0		ug/L	
			Total Nickel (Ni)	2016/11/08	<2.0		ug/L	
			Total Phosphorus (P)	2016/11/08	<100		ug/L	
			Total Potassium (K)	2016/11/08	<100		ug/L	
			Total Selenium (Se)	2016/11/08	<1.0		ug/L	
			Total Silver (Ag)	2016/11/08	<0.10		ug/L	
			Total Sodium (Na)	2016/11/08	<100		ug/L	

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QA/QC				Date		%		
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
			Total Strontium (Sr)	2016/11/08	<2.0		ug/L	
			Total Thallium (Tl)	2016/11/08	<0.10		ug/L	
			Total Tin (Sn)	2016/11/08	<2.0		ug/L	
			Total Titanium (Ti)	2016/11/08	<2.0		ug/L	
			Total Uranium (U)	2016/11/08	<0.10		ug/L	
			Total Vanadium (V)	2016/11/08	<2.0		ug/L	
			Total Zinc (Zn)	2016/11/08	<5.0		ug/L	
4738394	MLB	RPD - Sample/Sample Dup	Total Lead (Pb)	2016/11/09	NC		%	20
4739997	BAN	Matrix Spike	Total Aluminum (Al)	2016/11/10		NC	%	80 - 120
			Total Antimony (Sb)	2016/11/10		101	%	80 - 120
			Total Arsenic (As)	2016/11/10		99	%	80 - 120
			Total Barium (Ba)	2016/11/10		95	%	80 - 120
			Total Beryllium (Be)	2016/11/10		96	%	80 - 120
			Total Bismuth (Bi)	2016/11/10		101	%	80 - 120
			Total Boron (B)	2016/11/10		102	%	80 - 120
			Total Cadmium (Cd)	2016/11/10		99	%	80 - 120
			Total Calcium (Ca)	2016/11/10		100	%	80 - 120
			Total Chromium (Cr)	2016/11/10		98	%	80 - 120
			Total Cobalt (Co)	2016/11/10		100	%	80 - 120
			Total Copper (Cu)	2016/11/10		97	%	80 - 120
			Total Iron (Fe)	2016/11/10		NC	%	80 - 120
			Total Lead (Pb)	2016/11/10		97	%	80 - 120
			Total Magnesium (Mg)	2016/11/10		102	%	80 - 120
			Total Manganese (Mn)	2016/11/10		NC	%	80 - 120
			Total Molybdenum (Mo)	2016/11/10		100	%	80 - 120
			Total Nickel (Ni)	2016/11/10		100	%	80 - 120
			Total Phosphorus (P)	2016/11/10		97	%	80 - 120
			Total Potassium (K)	2016/11/10		98	%	80 - 120
			Total Selenium (Se)	2016/11/10		99	%	80 - 120
			Total Silver (Ag)	2016/11/10		99	%	80 - 120
			Total Sodium (Na)	2016/11/10		103	%	80 - 120
			Total Strontium (Sr)	2016/11/10		100	%	80 - 120
			Total Thallium (Tl)	2016/11/10		100	%	80 - 120
			Total Tin (Sn)	2016/11/10		102	%	80 - 120
			Total Titanium (Ti)	2016/11/10		103	%	80 - 120
			Total Uranium (U)	2016/11/10		104	%	80 - 120
			Total Vanadium (V)	2016/11/10		99	%	80 - 120
			Total Zinc (Zn)	2016/11/10		99	%	80 - 120
4739997	BAN	Spiked Blank	Total Aluminum (Al)	2016/11/10		92	%	80 - 120
			Total Antimony (Sb)	2016/11/10		99	%	80 - 120
			Total Arsenic (As)	2016/11/10		92	%	80 - 120
			Total Barium (Ba)	2016/11/10		91	%	80 - 120
			Total Beryllium (Be)	2016/11/10		91	%	80 - 120
			Total Bismuth (Bi)	2016/11/10		102	%	80 - 120
			Total Boron (B)	2016/11/10		103	%	80 - 120
			Total Cadmium (Cd)	2016/11/10		92	%	80 - 120
			Total Calcium (Ca)	2016/11/10		90	%	80 - 120
			Total Chromium (Cr)	2016/11/10		92	%	80 - 120
			Total Cobalt (Co)	2016/11/10		93	%	80 - 120
			Total Copper (Cu)	2016/11/10		91	%	80 - 120
			Total Iron (Fe)	2016/11/10		90	%	80 - 120
			Total Lead (Pb)	2016/11/10		92	%	80 - 120
			Total Magnesium (Mg)	2016/11/10		91	%	80 - 120

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QA/QC				Date		%		
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
4739997	BAN	Method Blank	Total Manganese (Mn)	2016/11/10		94	%	80 - 120
			Total Molybdenum (Mo)	2016/11/10		100	%	80 - 120
			Total Nickel (Ni)	2016/11/10		94	%	80 - 120
			Total Phosphorus (P)	2016/11/10		89	%	80 - 120
			Total Potassium (K)	2016/11/10		90	%	80 - 120
			Total Selenium (Se)	2016/11/10		92	%	80 - 120
			Total Silver (Ag)	2016/11/10		91	%	80 - 120
			Total Sodium (Na)	2016/11/10		92	%	80 - 120
			Total Strontium (Sr)	2016/11/10		93	%	80 - 120
			Total Thallium (Tl)	2016/11/10		101	%	80 - 120
			Total Tin (Sn)	2016/11/10		103	%	80 - 120
			Total Titanium (Ti)	2016/11/10		94	%	80 - 120
			Total Uranium (U)	2016/11/10		98	%	80 - 120
			Total Vanadium (V)	2016/11/10		93	%	80 - 120
			Total Zinc (Zn)	2016/11/10		97	%	80 - 120
			Total Aluminum (Al)	2016/11/10	5.0, RDL=5.0		ug/L	
			Total Antimony (Sb)	2016/11/10	<1.0		ug/L	
			Total Arsenic (As)	2016/11/10	<1.0		ug/L	
			Total Barium (Ba)	2016/11/10	<1.0		ug/L	
			Total Beryllium (Be)	2016/11/10	<1.0		ug/L	
			Total Bismuth (Bi)	2016/11/10	<2.0		ug/L	
			Total Boron (B)	2016/11/10	<50		ug/L	
			Total Cadmium (Cd)	2016/11/10	<0.010		ug/L	
			Total Calcium (Ca)	2016/11/10	<100		ug/L	
			Total Chromium (Cr)	2016/11/10	<1.0		ug/L	
			Total Cobalt (Co)	2016/11/10	<0.40		ug/L	
			Total Copper (Cu)	2016/11/10	<2.0		ug/L	
			Total Iron (Fe)	2016/11/10	<50		ug/L	
			Total Lead (Pb)	2016/11/10	<0.50		ug/L	
			Total Magnesium (Mg)	2016/11/10	<100		ug/L	
			Total Manganese (Mn)	2016/11/10	<2.0		ug/L	
			Total Molybdenum (Mo)	2016/11/10	<2.0		ug/L	
			Total Nickel (Ni)	2016/11/10	<2.0		ug/L	
			Total Phosphorus (P)	2016/11/10	<100		ug/L	
			Total Potassium (K)	2016/11/10	<100		ug/L	
			Total Selenium (Se)	2016/11/10	<1.0		ug/L	
			Total Silver (Ag)	2016/11/10	<0.10		ug/L	
			Total Sodium (Na)	2016/11/10	<100		ug/L	
			Total Strontium (Sr)	2016/11/10	<2.0		ug/L	
			Total Thallium (Tl)	2016/11/10	<0.10		ug/L	
			Total Tin (Sn)	2016/11/10	<2.0		ug/L	
			Total Titanium (Ti)	2016/11/10	<2.0		ug/L	
			Total Uranium (U)	2016/11/10	<0.10		ug/L	
			Total Vanadium (V)	2016/11/10	<2.0		ug/L	
			Total Zinc (Zn)	2016/11/10	<5.0		ug/L	
4739997	BAN	RPD - Sample/Sample Dup	Total Aluminum (Al)	2016/11/10	2.4		%	20
			Total Antimony (Sb)	2016/11/10	NC		%	20
			Total Arsenic (As)	2016/11/10	NC		%	20
			Total Barium (Ba)	2016/11/10	4.2		%	20
			Total Beryllium (Be)	2016/11/10	NC		%	20
			Total Bismuth (Bi)	2016/11/10	NC		%	20
			Total Boron (B)	2016/11/10	NC		%	20



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QA/QC				Date		%		
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
			Total Cadmium (Cd)	2016/11/10	NC		%	20
			Total Calcium (Ca)	2016/11/10	3.4		%	20
			Total Chromium (Cr)	2016/11/10	NC		%	20
			Total Cobalt (Co)	2016/11/10	NC		%	20
			Total Copper (Cu)	2016/11/10	NC		%	20
			Total Iron (Fe)	2016/11/10	NC		%	20
			Total Lead (Pb)	2016/11/10	NC		%	20
			Total Magnesium (Mg)	2016/11/10	3.3		%	20
			Total Manganese (Mn)	2016/11/10	NC		%	20
			Total Molybdenum (Mo)	2016/11/10	NC		%	20
			Total Nickel (Ni)	2016/11/10	NC		%	20
			Total Phosphorus (P)	2016/11/10	NC		%	20
			Total Potassium (K)	2016/11/10	1.5		%	20
			Total Selenium (Se)	2016/11/10	NC		%	20
			Total Silver (Ag)	2016/11/10	NC		%	20
			Total Sodium (Na)	2016/11/10	2.1		%	20
			Total Strontium (Sr)	2016/11/10	1.1		%	20
			Total Thallium (Tl)	2016/11/10	NC		%	20
			Total Tin (Sn)	2016/11/10	NC		%	20
			Total Titanium (Ti)	2016/11/10	NC		%	20
			Total Uranium (U)	2016/11/10	NC		%	20
			Total Vanadium (V)	2016/11/10	NC		%	20
			Total Zinc (Zn)	2016/11/10	NC		%	20
4740037	SMT	Matrix Spike	Total Organic Carbon (C)	2016/11/09		97	%	80 - 120
4740037	SMT	Spiked Blank	Total Organic Carbon (C)	2016/11/09		98	%	80 - 120
4740037	SMT	Method Blank	Total Organic Carbon (C)	2016/11/09	<0.50		mg/L	
4740037	SMT	RPD - Sample/Sample Dup	Total Organic Carbon (C)	2016/11/09	2.3		%	20
4740054	BAN	Matrix Spike	Dissolved Aluminum (Al)	2016/11/10		103	%	80 - 120
			Dissolved Antimony (Sb)	2016/11/10		102	%	80 - 120
			Dissolved Arsenic (As)	2016/11/10		97	%	80 - 120
			Dissolved Barium (Ba)	2016/11/10		96	%	80 - 120
			Dissolved Beryllium (Be)	2016/11/10		100	%	80 - 120
			Dissolved Bismuth (Bi)	2016/11/10		100	%	80 - 120
			Dissolved Boron (B)	2016/11/10		102	%	80 - 120
			Dissolved Cadmium (Cd)	2016/11/10		99	%	80 - 120
			Dissolved Calcium (Ca)	2016/11/10		103	%	80 - 120
			Dissolved Chromium (Cr)	2016/11/10		97	%	80 - 120
			Dissolved Cobalt (Co)	2016/11/10		98	%	80 - 120
			Dissolved Copper (Cu)	2016/11/10		95	%	80 - 120
			Dissolved Iron (Fe)	2016/11/10		99	%	80 - 120
			Dissolved Lead (Pb)	2016/11/10		98	%	80 - 120
			Dissolved Magnesium (Mg)	2016/11/10		102	%	80 - 120
			Dissolved Manganese (Mn)	2016/11/10		100	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/11/10		102	%	80 - 120
			Dissolved Nickel (Ni)	2016/11/10		97	%	80 - 120
			Dissolved Phosphorus (P)	2016/11/10		104	%	80 - 120
			Dissolved Potassium (K)	2016/11/10		102	%	80 - 120
			Dissolved Selenium (Se)	2016/11/10		100	%	80 - 120
			Dissolved Silver (Ag)	2016/11/10		98	%	80 - 120
			Dissolved Sodium (Na)	2016/11/10		99	%	80 - 120
			Dissolved Strontium (Sr)	2016/11/10		101	%	80 - 120
			Dissolved Thallium (Tl)	2016/11/10		101	%	80 - 120
			Dissolved Tin (Sn)	2016/11/10		103	%	80 - 120

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QA/QC				Date		%		
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
4740054	BAN	Spiked Blank	Dissolved Titanium (Ti)	2016/11/10		103	%	80 - 120
			Dissolved Uranium (U)	2016/11/10		101	%	80 - 120
			Dissolved Vanadium (V)	2016/11/10		100	%	80 - 120
			Dissolved Zinc (Zn)	2016/11/10		99	%	80 - 120
			Dissolved Aluminum (Al)	2016/11/09		105	%	80 - 120
			Dissolved Antimony (Sb)	2016/11/09		97	%	80 - 120
			Dissolved Arsenic (As)	2016/11/09		96	%	80 - 120
			Dissolved Barium (Ba)	2016/11/09		100	%	80 - 120
			Dissolved Beryllium (Be)	2016/11/09		103	%	80 - 120
			Dissolved Bismuth (Bi)	2016/11/09		103	%	80 - 120
			Dissolved Boron (B)	2016/11/09		101	%	80 - 120
			Dissolved Cadmium (Cd)	2016/11/09		97	%	80 - 120
			Dissolved Calcium (Ca)	2016/11/09		101	%	80 - 120
			Dissolved Chromium (Cr)	2016/11/09		97	%	80 - 120
			Dissolved Cobalt (Co)	2016/11/09		97	%	80 - 120
			Dissolved Copper (Cu)	2016/11/09		94	%	80 - 120
			Dissolved Iron (Fe)	2016/11/09		99	%	80 - 120
			Dissolved Lead (Pb)	2016/11/09		100	%	80 - 120
			Dissolved Magnesium (Mg)	2016/11/09		100	%	80 - 120
			Dissolved Manganese (Mn)	2016/11/09		98	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/11/09		98	%	80 - 120
			Dissolved Nickel (Ni)	2016/11/09		96	%	80 - 120
			Dissolved Phosphorus (P)	2016/11/09		106	%	80 - 120
			Dissolved Potassium (K)	2016/11/09		106	%	80 - 120
			Dissolved Selenium (Se)	2016/11/09		96	%	80 - 120
			Dissolved Silver (Ag)	2016/11/09		93	%	80 - 120
			Dissolved Sodium (Na)	2016/11/09		97	%	80 - 120
			Dissolved Strontium (Sr)	2016/11/09		100	%	80 - 120
			Dissolved Thallium (Tl)	2016/11/09		103	%	80 - 120
			Dissolved Tin (Sn)	2016/11/09		102	%	80 - 120
			Dissolved Titanium (Ti)	2016/11/09		100	%	80 - 120
			Dissolved Uranium (U)	2016/11/09		103	%	80 - 120
			Dissolved Vanadium (V)	2016/11/09		96	%	80 - 120
			Dissolved Zinc (Zn)	2016/11/09		97	%	80 - 120
4740054	BAN	Method Blank	Dissolved Aluminum (Al)	2016/11/09	<5.0		ug/L	
			Dissolved Antimony (Sb)	2016/11/09	<1.0		ug/L	
			Dissolved Arsenic (As)	2016/11/09	<1.0		ug/L	
			Dissolved Barium (Ba)	2016/11/09	<1.0		ug/L	
			Dissolved Beryllium (Be)	2016/11/09	<1.0		ug/L	
			Dissolved Bismuth (Bi)	2016/11/09	<2.0		ug/L	
			Dissolved Boron (B)	2016/11/09	<50		ug/L	
			Dissolved Cadmium (Cd)	2016/11/09	<0.010		ug/L	
			Dissolved Calcium (Ca)	2016/11/09	<100		ug/L	
			Dissolved Chromium (Cr)	2016/11/09	<1.0		ug/L	
			Dissolved Cobalt (Co)	2016/11/09	<0.40		ug/L	
			Dissolved Copper (Cu)	2016/11/09	<2.0		ug/L	
			Dissolved Iron (Fe)	2016/11/09	<50		ug/L	
			Dissolved Lead (Pb)	2016/11/09	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2016/11/09	<100		ug/L	
			Dissolved Manganese (Mn)	2016/11/09	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2016/11/09	<2.0		ug/L	
			Dissolved Nickel (Ni)	2016/11/09	<2.0		ug/L	
			Dissolved Phosphorus (P)	2016/11/09	<100		ug/L	

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QA/QC				Date		%		
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
4740054	BAN	RPD - Sample/Sample Dup	Dissolved Potassium (K)	2016/11/09	<100		ug/L	
			Dissolved Selenium (Se)	2016/11/09	<1.0		ug/L	
			Dissolved Silver (Ag)	2016/11/09	<0.10		ug/L	
			Dissolved Sodium (Na)	2016/11/09	<100		ug/L	
			Dissolved Strontium (Sr)	2016/11/09	<2.0		ug/L	
			Dissolved Thallium (Tl)	2016/11/09	<0.10		ug/L	
			Dissolved Tin (Sn)	2016/11/09	<2.0		ug/L	
			Dissolved Titanium (Ti)	2016/11/09	<2.0		ug/L	
			Dissolved Uranium (U)	2016/11/09	<0.10		ug/L	
			Dissolved Vanadium (V)	2016/11/09	<2.0		ug/L	
			Dissolved Zinc (Zn)	2016/11/09	<5.0		ug/L	
			Dissolved Aluminum (Al)	2016/11/10	NC		%	20
			Dissolved Antimony (Sb)	2016/11/10	NC		%	20
			Dissolved Arsenic (As)	2016/11/10	NC		%	20
			Dissolved Barium (Ba)	2016/11/10	NC		%	20
			Dissolved Beryllium (Be)	2016/11/10	NC		%	20
			Dissolved Boron (B)	2016/11/10	NC		%	20
			Dissolved Cadmium (Cd)	2016/11/10	NC		%	20
			Dissolved Chromium (Cr)	2016/11/10	NC		%	20
			Dissolved Cobalt (Co)	2016/11/10	NC		%	20
			Dissolved Copper (Cu)	2016/11/10	NC		%	20
			Dissolved Iron (Fe)	2016/11/10	NC		%	20
			Dissolved Lead (Pb)	2016/11/10	NC		%	20
			Dissolved Manganese (Mn)	2016/11/10	NC		%	20
			Dissolved Molybdenum (Mo)	2016/11/10	NC		%	20
			Dissolved Nickel (Ni)	2016/11/10	NC		%	20
			Dissolved Selenium (Se)	2016/11/10	NC		%	20
			Dissolved Silver (Ag)	2016/11/10	NC		%	20
			Dissolved Strontium (Sr)	2016/11/10	NC		%	20
			Dissolved Thallium (Tl)	2016/11/10	NC		%	20
			Dissolved Tin (Sn)	2016/11/10	NC		%	20
			Dissolved Uranium (U)	2016/11/10	NC		%	20
			Dissolved Vanadium (V)	2016/11/10	NC		%	20
			Dissolved Zinc (Zn)	2016/11/10	NC		%	20
4740256	SMT	Matrix Spike	Total Organic Carbon (C)	2016/11/09		88	%	80 - 120
4740256	SMT	Spiked Blank	Total Organic Carbon (C)	2016/11/09		99	%	80 - 120
4740256	SMT	Method Blank	Total Organic Carbon (C)	2016/11/09	<0.50		mg/L	

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC				Date		%		
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
4740256	SMT	RPD - Sample/Sample Dup	Total Organic Carbon (C)	2016/11/09	2.3		%	20
<p>N/A = Not Applicable</p> <p>Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.</p> <p>QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.</p> <p>Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.</p> <p>Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.</p> <p>NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).</p> <p>NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples &lt; 5x RDL).</p> <p>(1) Poor Matrix Spike recovery due to sample matrix, recovery confirmed with repeat analysis.</p>								

Maxxam Job #: B6N8707  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Kevin MacDonald, Inorganics Supervisor

---

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



**INVOICE TO:**  
 Company Name: #41009 Englobe Corp.  
 Accounts Payable  
 97 Troop Ave  
 Dartmouth NS B3B 2A7  
 Phone: (902) 468-6486 Fax: (902) 468-4919  
 Email: Dartmouth.AP@englobecorp.com

**Report Information**  
 Company Name: Aven Cole/Lisa L.  
 Contact Name: Aven Cole/Lisa L.  
 Address: (902) 468-6486 Fax: (902) 468-4919  
 Phone: Aven Cole@englobecorp.com  
 Email: Aven Cole@englobecorp.com

**Project Information**  
 Location #: B61795  
 P.O. #: A 08392  
 Project #: P-0010903-0-00-205  
 Project Name: LAKE GEORGE  
 Site #: 11  
 Sampled By:

**Laboratory Use Only**  
 Bottle Order #: BGN 8707  
 Project Manager: Avery Witrow  
 Chain of Custody Record:

Regulatory Criteria				Special Instructions				ANALYSIS REQUESTED (PLEASE BE SPECIFIC)				Turnaround Time (TAT) Required			
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered & Preserved	Lab Filtration Required	RCAP-MS Total Metals in Water	Mercury - Total (CVAA,LL)	Total Suspended Solids	Dissolved Metals (as rec'd)	# of Bottles	Comments / Hazards / Other Required Analysis	Time Required	Job Specific Rush TAT (if applies to entire submission)	Time Required
1	SW1	10/31/16	14h20	SW	X	X	X	X	X	X	7				
2	SW2	10/31/16	16h45	SW	X	X	X	X	X	X	7				
3	SW3	11/1/16	8h40	SW	X	X	X	X	X	X	7				
4	SW4	10/31/16	14h30	SW	X	X	X	X			4				
5	SW5	11/1/16	8h45	SW	X	X	X	X			4				
6	SW6	10/31/16	15h00	SW	X	X	X	X			4				
7	SW7	10/31/16	16h50	SW	X	X	X	X			4				
8	SW8						X	X						DRY	2016 NOV 2 15:45
9	SW9	10/31/16	16h50	SW	X	X	X	X	X		5			DRY	
10	SW10						X	X							

**RECEIVED BY:** (Signature/Print) *[Signature]* **DATE:** (YY/MM/DD) 16/11/16 **TIME:** 15h40

**RELINQUISHED BY:** (Signature/Print) *[Signature]* **DATE:** (YY/MM/DD) 16/11/16 **TIME:** 17h05

Temperature (°C) on Receipt: 34.4  
 Custody Seal Intact on Cooler? ☐ Yes ☒ No  
 Write Maxam: 114.5

\* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.



**Maxxam**  
Maxxam Analytica International Corporation  
200 Bluewater Road, Bedford, Nova Scotia Canada B4B 1G9  
Tel: (902) 420-0203 Toll-free 800-563-6266 Fax: (902) 420-9512 www.maxxam.ca

**Chain Of Custody Record**  
Page 2 of 3

**Report Information**

Company Name: Englobe Corp.  
 Contact Name: Accounts Payable  
 Address: 97 Troop Ave  
Dartmouth NS B3B 2A7  
 Phone: (902) 468-6486 Fax: (902) 468-4919  
 Email: Dartmouth.AP@englobecorp.com

**Company Name:** Aven Cole/Lisa L  
**Contact Name:** Aven Cole/Lisa L  
**Address:** (902) 468-6486 Fax: (902) 468-4919  
Aven Cole@englobecorp.com

**Project Information**

Quotation #: B61795  
 P.O. #: A 06392  
 Project #: P-0010903-0-00-205  
 Project Name: LAKE GEORGE  
 Site #: LL  
 Sampled By: LL

**Laboratory Use Only**

Maxxam Job #: B6N 8707  
 Bottle Order #: 883336  
 Chain Of Custody Record: Project Manager  
 Avery Wilrow

**Regulatory Details**

Regulatory Division: Regulatory Division

Special Instructions: Specify Matrix: Surface/Groundwater/Aquifer/Surface Effluent/Seawater  
Potable/Nonpotable/Treated/Solid/Sludge/Metal

**ANALYSIS REQUESTED (PLEASE BE SPECIFIC)**

Regular (Standard) TAT: 1  
 (will be applied if Rush TAT is not specified)  
 Standard TAT = 5 \* Working days for most tests  
 Please note: Standard TAT for certain tests such as BOD and Dissolved Phosphorus are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission): 1  
 Date Required: 2016 NOV 2 15:45

#	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)				# of Bottles	Comments / Hazards / Other Required Analysis	
						Lab Filtration Required	RCAP-MS Total Metals in Water	Mercury - Total (CVAA LL)	Total Suspended Solids			Dissolved Metals (as rec'd)
1		SW11	11/1/16	9h25	SW	X	X	X	X	X	4	
2		SW12					X	X	X	X		DRY
3		SW13	10/31/16	16h15	SW	X	X	X	X	X	5	
4		SW14	10/31/16	14h45	SW	X	X	X	X	X	7	LAB FILTER
5		SW15	10/31/16	15h15	SW	X	X	X	X	X	4	
6		SW16	11/2/16	9h45	SW	X	X	X	X	X	4	
7		SW-DUP1	10/31/16		SW	X	X	X	X	X	5	
8		SW-DUP2	11/1/16		SW	X	X	X	X	X	6	
9		P1A	11/1/16	10h15	SW	X	X	X	X	X	5	
10		P1B	11/1/16	9h50	SW	X	X	X	X	X	5	

**RELINQUISHED BY: (Signature/Print)**  
Lisa Anderson  
 Date: (YYMMDD) 16/11/16 Time: 15h45

**RECEIVED BY: (Signature/Print)**  
Maxxam  
 Date: (YYMMDD) 16/11/16 Time: 15h45

**Relinquished By:** Lisa Anderson  
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 Date: 16/11/16 Time: 1



Maxxam Analytics International Corporation  
200 Bluewater Road, Bedford, Nova Scotia Canada B4B 1G9

Maxxam Analytics International Corporation  
200 Bluewater Road, Bedford, Nova Scotia Canada B4B 1G9

# Chain Of Custody Record

Page 3 of 3

INVOICE TO:				Report Information				Project Information				Laboratory Use Only			
Company Name #41009 Englobe Corp.		Contact Name Accounts Payable		Company Name Aven Cole/Lisa L.		Quotation # B61796		Project # A 06392		Maxxam Job # B6N 8707		Bottle Order # 583336			
Address 97 Troop Ave		Address Dartmouth NS B3B 2A7		Address (902) 468-6486		Project # P-0010903-0-00-205		Project Name LAKE GEORGE		Chain Of Custody Record		Project Manager			
Phone (902) 468-6486		Fax (902) 468-4919		Phone (902) 468-6486		Fax (902) 468-4919		Site #		Barcode C658336-03-01		Avery Weibrow			
Email Dartmouth.AP@englobecorp.com		Email Aven.Cole@englobecorp.com		Email Aven.Cole@englobecorp.com		Email Aven.Cole@englobecorp.com		Sampled By JL		Turnaround Time (TAT) Required:		Please provide advance notice for rush projects			
Regulatory Criteria Special Instructions Samples MUST BE KEPT COOL, i.e. (10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM Spills: Methy. Surface/Groundwater/Sewage/Industrial/Surfacewater Potential Non-potable/Industrial/Surfacewater				ANALYSIS REQUESTED (PLEASE BE SPECIFIC)								Regular (Standard) TAT: (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dissolved Metals are > 5 days - contact your Project Manager for details. Job Specific Rush TAT (if applies to entire submission) Daily Required: <input type="checkbox"/> Time Required: <input type="checkbox"/>			
				Please provide advance notice for rush projects								Comments / Hazards / Other Required Analysis			
1	Sample Barcode Label SID#23312	Sample (Location) Identification P2A	Date Sampled 11/1/16	Time Sampled 10h45	Matrix SW	Field Filtered & Preserved	Lab Filtration Required	RCAP-MS Total Metals in Water	Mercury - Total (CVAA,LL)	Total Suspended Solids	Dissolved Metals (as rec'd)	# of Bottles 4	DRY		
2	SID#23313	P2B	11/1/16	10h45	SW	X	X	X	X	X	X	4	Amber 100 missing Green kit		
3	SID#23314	P3	11/1/16	10h55	SW	X	X	X	X	X	X	4	Amber 100 missing Green kit		
4	SID#23315	BACK1				X	X	X	X	X	X		DRY		
5	SID#23316	BACK2	11/1/16	13h35	SW	X	X	X	X	X	X	6			
6															
7															
8															
9															
10															

RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	Lab Use Only	
16/1/16		13h40		Temperature (°C) on Receipt	Custody Seal Intact on Cooler?
				<input type="checkbox"/> 54.4/7.6/1.8	<input type="checkbox"/> Yes <input type="checkbox"/> No
				White Maxxam	Yellow Chain

7.45

2016 NOV 2 15:45

Maxxam Analytics International Corporation via Maxxam Analytics

Your P.O. #: A 06392  
Your Project #: P-0010903-0-00-205  
Site#: LAKE GEORGE  
Your C.O.C. #: 583333-01-01

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

**Report Date: 2016/11/14**  
Report #: R4246335  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B6N8782**

**Received: 2016/11/02, 15:45**

Sample Matrix: Water  
# Samples Received: 18

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Carbonate, Bicarbonate and Hydroxide	7	N/A	2016/11/04	N/A	SM 22 4500-CO2 D
Carbonate, Bicarbonate and Hydroxide	11	N/A	2016/11/08	N/A	SM 22 4500-CO2 D
Alkalinity	18	N/A	2016/11/08	ATL SOP 00013	EPA 310.2 R1974 m
Chloride	18	N/A	2016/11/08	ATL SOP 00014	SM 22 4500-Cl- E m
Colour	18	N/A	2016/11/08	ATL SOP 00020	SM 22 2120C m
Conductance - water	17	N/A	2016/11/08	ATL SOP 00004	SM 22 2510B m
Conductance - water	1	N/A	2016/11/09	ATL SOP 00004	SM 22 2510B m
Hardness (calculated as CaCO3)	17	N/A	2016/11/09	ATL SOP 00048	SM 22 2340 B
Hardness (calculated as CaCO3)	1	N/A	2016/11/10	ATL SOP 00048	SM 22 2340 B
Mercury - Total (CVAA,LL)	18	2016/11/07	2016/11/08	ATL SOP 00026	EPA 245.1 R3 m
Metals Water Diss. MS (1)	12	N/A	2016/11/08	ATL SOP 00058	EPA 6020A R1 m
Metals Water Diss. MS (as rec'd)	4	N/A	2016/11/08	ATL SOP 00058	EPA 6020A R1 m
Metals Water Diss. MS (as rec'd)	2	N/A	2016/11/09	ATL SOP 00058	EPA 6020A R1 m
Metals Water Total MS	1	2016/11/08	2016/11/08	ATL SOP 00058	EPA 6020A R1 m
Metals Water Total MS	6	2016/11/08	2016/11/09	ATL SOP 00058	EPA 6020A R1 m
Metals Water Total MS	10	2016/11/09	2016/11/10	ATL SOP 00058	EPA 6020A R1 m
Metals Water Total MS	1	2016/11/09	2016/11/11	ATL SOP 00058	EPA 6020A R1 m
Ion Balance (% Difference)	17	N/A	2016/11/09	N/A	Auto Calc.
Ion Balance (% Difference)	1	N/A	2016/11/10	N/A	Auto Calc.
Anion and Cation Sum	17	N/A	2016/11/09	N/A	Auto Calc.
Anion and Cation Sum	1	N/A	2016/11/10	N/A	Auto Calc.
Nitrogen Ammonia - water	7	N/A	2016/11/08	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen Ammonia - water	11	N/A	2016/11/09	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite	18	N/A	2016/11/09	ATL SOP 00016	USGS SOPINCF0452.2 m
Nitrogen - Nitrite	18	N/A	2016/11/09	ATL SOP 00017	SM 22 4500-NO2- B m
Nitrogen - Nitrate (as N)	18	N/A	2016/11/09	ATL SOP 00018	ASTM D3867-16
pH (2)	17	N/A	2016/11/08	ATL SOP 00003	SM 22 4500-H+ B m
pH (2)	1	N/A	2016/11/09	ATL SOP 00003	SM 22 4500-H+ B m
Phosphorus - ortho	18	N/A	2016/11/08	ATL SOP 00021	EPA 365.2 m
Sat. pH and Langelier Index (@ 20C)	16	N/A	2016/11/09	ATL SOP 00049	Auto Calc.



Your P.O. #: A 06392  
Your Project #: P-0010903-0-00-205  
Site#: LAKE GEORGE  
Your C.O.C. #: 583333-01-01

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

**Report Date: 2016/11/14**

Report #: R4246335

Version: 1 - Final

## **CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B6N8782**

**Received: 2016/11/02, 15:45**

Sample Matrix: Water  
# Samples Received: 18

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Sat. pH and Langelier Index (@ 20C)	2	N/A	2016/11/10	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	16	N/A	2016/11/09	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	2	N/A	2016/11/10	ATL SOP 00049	Auto Calc.
Reactive Silica	18	N/A	2016/11/08	ATL SOP 00022	EPA 366.0 m
Sulphate	18	N/A	2016/11/08	ATL SOP 00023	ASTMD516-11 m
Total Dissolved Solids (TDS calc)	17	N/A	2016/11/09	N/A	Auto Calc.
Total Dissolved Solids (TDS calc)	1	N/A	2016/11/10	N/A	Auto Calc.
Organic carbon - Total (TOC) (3)	18	N/A	2016/11/09	ATL SOP 00037	SM 22 5310C m
Turbidity	18	N/A	2016/11/08	ATL SOP 00011	EPA 180.1 R2 m

**Remarks:**

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported: unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods. Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Sample filtered in laboratory prior to analysis for dissolved metals.

(2) The APHA Standard Method require pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.

(3) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Your P.O. #: A 06392  
Your Project #: P-0010903-0-00-205  
Site#: LAKE GEORGE  
Your C.O.C. #: 583333-01-01

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

**Report Date: 2016/11/14**

Report #: R4246335

Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B6N8782**

**Received: 2016/11/02, 15:45**

Encryption Key



Maxxam  
14 Nov 2016 16:15:16

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Avery Withrow, Project Manager

Email: AWithrow@maxxam.ca

Phone# (902)420-0203 Ext:233

=====

This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

Maxxam ID		DJO099			DJO101	DJO101			
Sampling Date		2016/11/01 12:00			2016/11/01 11:40	2016/11/01 11:40			
COC Number		583333-01-01			583333-01-01	583333-01-01			
	UNITS	MW1S	RDL	QC Batch	MW2S	MW2S Lab-Dup	RDL	QC Batch	MDL
<b>Calculated Parameters</b>									
Anion Sum	me/L	5.86	N/A	4731145	3.48		N/A	4731145	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	270	1.0	4731142	99		1.0	4731142	0.20
Calculated TDS	mg/L	310	1.0	4731150	200		1.0	4731150	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4731142	<1.0		1.0	4731142	0.20
Cation Sum	me/L	4.77	N/A	4731145	3.14		N/A	4731145	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	210	1.0	4731970	120		1.0	4731970	1.0
Ion Balance (% Difference)	%	10.3	N/A	4731144	5.14		N/A	4731144	N/A
Langelier Index (@ 20C)	N/A	-0.859		4731148	-1.04			4731148	
Langelier Index (@ 4C)	N/A	-1.11		4731149	-1.29			4731149	
Nitrate (N)	mg/L	<0.050	0.050	4731895	2.9		0.050	4731895	N/A
Saturation pH (@ 20C)	N/A	7.29		4731148	7.82			4731148	
Saturation pH (@ 4C)	N/A	7.53		4731149	8.07			4731149	
<b>Inorganics</b>									
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	270	25	4738067	99	98	5.0	4738067	N/A
Dissolved Chloride (Cl)	mg/L	13	1.0	4738070	32	34	1.0	4738070	N/A
Colour	TCU	15	5.0	4738074	8.3	6.9	5.0	4738074	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4738078	2.9	2.9	0.050	4738078	N/A
Nitrite (N)	mg/L	<0.010	0.010	4738077	<0.010	<0.010	0.010	4738077	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	0.96	0.050	4736492	0.11		0.050	4736496	N/A
Total Organic Carbon (C)	mg/L	63 (1)	50	4740256	<250 (1)		250	4740256	N/A
Orthophosphate (P)	mg/L	0.024	0.010	4738076	0.014	0.014	0.010	4738076	N/A
pH	pH	6.43	N/A	4738012	6.79		N/A	4740002	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	28	1.0	4738072	7.8	7.7	0.50	4738072	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	<2.0	2.0	4738071	18	17	2.0	4738071	N/A
Turbidity	NTU	>1000	1.0	4738100	>1000		1.0	4738093	0.10
Conductivity	uS/cm	500	1.0	4738013	340		1.0	4740003	N/A
<b>Metals</b>									
Dissolved Aluminum (Al)	ug/L	14	5.0	4738302	14		5.0	4738302	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	4738302	<1.0		1.0	4738302	N/A
Dissolved Arsenic (As)	ug/L	1.4	1.0	4738302	<1.0		1.0	4738302	N/A
Dissolved Barium (Ba)	ug/L	43	1.0	4738302	28		1.0	4738302	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Reporting limit was increased due to turbidity.									



Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

**ATL RCAP-MS DISSOLVED (LABFIL) IN W**

Maxxam ID		DJO099			DJO101	DJO101			
Sampling Date		2016/11/01 12:00			2016/11/01 11:40	2016/11/01 11:40			
COC Number		583333-01-01			583333-01-01	583333-01-01			
	UNITS	MW1S	RDL	QC Batch	MW2S	MW2S Lab-Dup	RDL	QC Batch	MDL
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	4738302	<1.0		1.0	4738302	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	4738302	<2.0		2.0	4738302	N/A
Dissolved Boron (B)	ug/L	<50	50	4738302	350		50	4738302	N/A
Dissolved Cadmium (Cd)	ug/L	0.20	0.010	4738302	0.056		0.010	4738302	N/A
Dissolved Calcium (Ca)	ug/L	50000	100	4738302	37000		100	4738302	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	4738302	<1.0		1.0	4738302	N/A
Dissolved Cobalt (Co)	ug/L	25	0.40	4738302	2.4		0.40	4738302	N/A
Dissolved Copper (Cu)	ug/L	23	2.0	4738302	5.4		2.0	4738302	N/A
Dissolved Iron (Fe)	ug/L	68	50	4738302	<50		50	4738302	N/A
Dissolved Lead (Pb)	ug/L	<0.50	0.50	4738302	<0.50		0.50	4738302	N/A
Dissolved Magnesium (Mg)	ug/L	21000	100	4738302	6200		100	4738302	N/A
Dissolved Manganese (Mn)	ug/L	14000	2.0	4738302	1100		2.0	4738302	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	4738302	<2.0		2.0	4738302	N/A
Dissolved Nickel (Ni)	ug/L	14	2.0	4738302	3.5		2.0	4738302	N/A
Dissolved Phosphorus (P)	ug/L	<100	100	4738302	<100		100	4738302	N/A
Dissolved Potassium (K)	ug/L	5200	100	4738302	9800		100	4738302	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	4738302	<1.0		1.0	4738302	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	4738302	<0.10		0.10	4738302	N/A
Dissolved Sodium (Na)	ug/L	7600	100	4738302	12000		100	4738302	N/A
Dissolved Strontium (Sr)	ug/L	390	2.0	4738302	150		2.0	4738302	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	4738302	<0.10		0.10	4738302	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	4738302	<2.0		2.0	4738302	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	2.0	4738302	<2.0		2.0	4738302	N/A
Dissolved Uranium (U)	ug/L	0.91	0.10	4738302	0.12		0.10	4738302	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	4738302	<2.0		2.0	4738302	N/A
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	4738302	<5.0		5.0	4738302	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

Maxxam ID		DJO103			DJO105			DJO107			
Sampling Date		2016/11/01 10:30			2016/11/01 12:35			2016/11/01 12:05			
COC Number		583333-01-01			583333-01-01			583333-01-01			
	UNITS	MW3S	RDL	QC Batch	MW4S	RDL	QC Batch	MW5S	RDL	QC Batch	MDL
<b>Calculated Parameters</b>											
Anion Sum	me/L	7.80	N/A	4731145	0.880	N/A	4731145	3.08	N/A	4732173	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	370	1.0	4731142	14	1.0	4731142	120	1.0	4732171	0.20
Calculated TDS	mg/L	380	1.0	4731150	62	1.0	4731150	210	1.0	4732181	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4731142	<1.0	1.0	4731142	<1.0	1.0	4732171	0.20
Cation Sum	me/L	6.35	N/A	4731145	0.760	N/A	4731145	3.91	N/A	4732173	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	290	1.0	4731970	25	1.0	4731970	110	1.0	4731970	1.0
Ion Balance (% Difference)	%	10.3	N/A	4731144	7.32	N/A	4731144	11.9	N/A	4732172	N/A
Langelier Index (@ 20C)	N/A	-0.117		4731148	-3.60		4731148	-1.70		4732179	
Langelier Index (@ 4C)	N/A	-0.366		4731149	-3.85		4731149	-1.95		4732180	
Nitrate (N)	mg/L	<0.050	0.050	4731895	0.31	0.050	4731895	<0.050	0.050	4731895	N/A
Saturation pH (@ 20C)	N/A	7.08		4731148	9.37		4731148	7.82		4732179	
Saturation pH (@ 4C)	N/A	7.33		4731149	9.62		4731149	8.07		4732180	
<b>Inorganics</b>											
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	370	25	4738067	14	5.0	4738082	120	25	4738082	N/A
Dissolved Chloride (Cl)	mg/L	14	1.0	4738070	13	1.0	4738083	22	1.0	4738083	N/A
Colour	TCU	6.9	5.0	4738074	<5.0	5.0	4738087	590	150	4738087	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4738078	0.31	0.050	4738090	<0.050	0.050	4738090	N/A
Nitrite (N)	mg/L	<0.010	0.010	4738077	<0.010	0.010	4738091	<0.010	0.010	4738091	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	0.099	0.050	4736496	0.17	0.050	4736496	2.8	0.25	4736496	N/A
Total Organic Carbon (C)	mg/L	<50 (1)	50	4740256	<250 (1)	250	4740256	57 (1)	5.0	4740256	N/A
Orthophosphate (P)	mg/L	0.026	0.010	4738076	0.015	0.010	4738088	0.095	0.010	4738088	N/A
pH	pH	6.96	N/A	4738016	5.77	N/A	4738014	6.12	N/A	4738014	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	20	0.50	4738072	12	0.50	4738086	30	1.0	4738086	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	3.7	2.0	4738071	10	2.0	4738085	<2.0	2.0	4738085	N/A
Turbidity	NTU	>1000	1.0	4738107	>1000	1.0	4738100	430	1.0	4738100	0.10
Conductivity	uS/cm	620	1.0	4738017	99	1.0	4738015	320	1.0	4738015	N/A
<b>Metals</b>											
Dissolved Aluminum (Al)	ug/L	6.4	5.0	4738302	28	5.0	4738302	440	5.0	4738302	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	4738302	<1.0	1.0	4738302	<1.0	1.0	4738302	N/A
Dissolved Arsenic (As)	ug/L	<1.0	1.0	4738302	<1.0	1.0	4738302	13	1.0	4738302	N/A
Dissolved Barium (Ba)	ug/L	17	1.0	4738302	13	1.0	4738302	78	1.0	4738302	N/A
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	4738302	<1.0	1.0	4738302	<1.0	1.0	4738302	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Reporting limit was increased due to turbidity.											

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

**ATL RCAP-MS DISSOLVED (LABFILT) IN W**

Maxxam ID		DJO103			DJO105			DJO107			
Sampling Date		2016/11/01 10:30			2016/11/01 12:35			2016/11/01 12:05			
COC Number		583333-01-01			583333-01-01			583333-01-01			
	UNITS	MW3S	RDL	QC Batch	MW4S	RDL	QC Batch	MW5S	RDL	QC Batch	MDL
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	4738302	<2.0	2.0	4738302	<2.0	2.0	4738302	N/A
Dissolved Boron (B)	ug/L	<50	50	4738302	<50	50	4738302	<50	50	4738302	N/A
Dissolved Cadmium (Cd)	ug/L	0.25	0.010	4738302	0.065	0.010	4738302	0.060	0.010	4738302	N/A
Dissolved Calcium (Ca)	ug/L	62000	100	4738302	6500	100	4738302	31000	100	4738302	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	4738302	<1.0	1.0	4738302	2.0	1.0	4738302	N/A
Dissolved Cobalt (Co)	ug/L	5.3	0.40	4738302	6.4	0.40	4738302	8.0	0.40	4738302	N/A
Dissolved Copper (Cu)	ug/L	5.4	2.0	4738302	<2.0	2.0	4738302	7.1	2.0	4738302	N/A
Dissolved Iron (Fe)	ug/L	<50	50	4738302	<50	50	4738302	17000	50	4738302	N/A
Dissolved Lead (Pb)	ug/L	<0.50	0.50	4738302	<0.50	0.50	4738302	1.9	0.50	4738302	N/A
Dissolved Magnesium (Mg)	ug/L	32000	100	4738302	2200	100	4738302	7500	100	4738302	N/A
Dissolved Manganese (Mn)	ug/L	8700	2.0	4738302	1800	2.0	4738302	1400	2.0	4738302	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	4738302	<2.0	2.0	4738302	<2.0	2.0	4738302	N/A
Dissolved Nickel (Ni)	ug/L	8.0	2.0	4738302	4.4	2.0	4738302	9.5	2.0	4738302	N/A
Dissolved Phosphorus (P)	ug/L	<100	100	4738302	<100	100	4738302	130	100	4738302	N/A
Dissolved Potassium (K)	ug/L	3600	100	4738302	1800	100	4738302	13000	100	4738302	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	4738302	<1.0	1.0	4738302	<1.0	1.0	4738302	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	4738302	<0.10	0.10	4738302	<0.10	0.10	4738302	N/A
Dissolved Sodium (Na)	ug/L	12000	100	4738302	4400	100	4738302	14000	100	4738302	N/A
Dissolved Strontium (Sr)	ug/L	390	2.0	4738302	38	2.0	4738302	140	2.0	4738302	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	4738302	<0.10	0.10	4738302	<0.10	0.10	4738302	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	4738302	<2.0	2.0	4738302	<2.0	2.0	4738302	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	2.0	4738302	<2.0	2.0	4738302	7.2	2.0	4738302	N/A
Dissolved Uranium (U)	ug/L	0.89	0.10	4738302	<0.10	0.10	4738302	0.18	0.10	4738302	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	4738302	<2.0	2.0	4738302	2.6	2.0	4738302	N/A
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	4738302	<5.0	5.0	4738302	59	5.0	4738302	N/A
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
N/A = Not Applicable											

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

Maxxam ID		DJO108	DJO108			DJO109			
Sampling Date		2016/11/01 11:10	2016/11/01 11:10			2016/11/01 11:15			
COC Number		583333-01-01	583333-01-01			583333-01-01			
	UNITS	MW6S	MW6S Lab-Dup	RDL	QC Batch	MW6D	RDL	QC Batch	MDL
<b>Calculated Parameters</b>									
Anion Sum	me/L	15.2		N/A	4732173	1.92	N/A	4732173	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	680		1.0	4732171	63	1.0	4732171	0.20
Calculated TDS	mg/L	740		1.0	4732181	120	1.0	4732181	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0		1.0	4732171	<1.0	1.0	4732171	0.20
Cation Sum	me/L	13.7		N/A	4732173	1.67	N/A	4732173	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	600		1.0	4731970	28	1.0	4731970	1.0
Ion Balance (% Difference)	%	5.23		N/A	4732172	6.96	N/A	4732172	N/A
Langelier Index (@ 20C)	N/A	0.489			4732179	-1.25		4732179	
Langelier Index (@ 4C)	N/A	0.242			4732180	-1.50		4732180	
Nitrate (N)	mg/L	<0.050		0.050	4731895	<0.050	0.050	4731895	N/A
Saturation pH (@ 20C)	N/A	6.51			4732179	8.67		4732179	
Saturation pH (@ 4C)	N/A	6.76			4732180	8.92		4732180	
<b>Inorganics</b>									
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	690	670	75	4738082	63	5.0	4738082	N/A
Dissolved Chloride (Cl)	mg/L	44	42	1.0	4738083	15	1.0	4738083	N/A
Colour	TCU	11	10	5.0	4738087	<5.0	5.0	4738087	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	<0.050	0.050	4738090	<0.050	0.050	4738090	N/A
Nitrite (N)	mg/L	<0.010	<0.010	0.010	4738091	<0.010	0.010	4738091	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	1.5		0.050	4736494	0.20	0.050	4736496	N/A
Total Organic Carbon (C)	mg/L	42 (1)		2.5	4740256	<25 (2)	25	4740256	N/A
Orthophosphate (P)	mg/L	0.031	0.036	0.010	4738088	0.019	0.010	4738088	N/A
pH	pH	7.00		N/A	4738016	7.42	N/A	4738012	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	29	29	1.0	4738086	21	0.50	4738086	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	13	12	2.0	4738085	11	2.0	4738085	N/A
Turbidity	NTU	>1000		1.0	4738100	>1000	1.0	4738100	0.10
Conductivity	uS/cm	1200		1.0	4738017	180	1.0	4738013	N/A
<b>Metals</b>									
Dissolved Aluminum (Al)	ug/L	8.6		5.0	4738302	5.6	5.0	4738302	N/A
Dissolved Antimony (Sb)	ug/L	<1.0		1.0	4738302	<1.0	1.0	4738302	N/A
Dissolved Arsenic (As)	ug/L	3.9		1.0	4738302	<1.0	1.0	4738302	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Analysis performed on decanted sample due to sediment content. (2) Reporting limit was increased due to turbidity.									

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

Maxxam ID		DJO108	DJO108			DJO109			
Sampling Date		2016/11/01 11:10	2016/11/01 11:10			2016/11/01 11:15			
COC Number		583333-01-01	583333-01-01			583333-01-01			
	UNITS	MW6S	MW6S Lab-Dup	RDL	QC Batch	MW6D	RDL	QC Batch	MDL
Dissolved Barium (Ba)	ug/L	53		1.0	4738302	2.1	1.0	4738302	N/A
Dissolved Beryllium (Be)	ug/L	<1.0		1.0	4738302	<1.0	1.0	4738302	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0		2.0	4738302	<2.0	2.0	4738302	N/A
Dissolved Boron (B)	ug/L	<50		50	4738302	<50	50	4738302	N/A
Dissolved Cadmium (Cd)	ug/L	0.061		0.010	4738302	0.032	0.010	4738302	N/A
Dissolved Calcium (Ca)	ug/L	150000		100	4738302	7700	100	4738302	N/A
Dissolved Chromium (Cr)	ug/L	<1.0		1.0	4738302	<1.0	1.0	4738302	N/A
Dissolved Cobalt (Co)	ug/L	2.7		0.40	4738302	<0.40	0.40	4738302	N/A
Dissolved Copper (Cu)	ug/L	<2.0		2.0	4738302	<2.0	2.0	4738302	N/A
Dissolved Iron (Fe)	ug/L	77		50	4738302	<50	50	4738302	N/A
Dissolved Lead (Pb)	ug/L	<0.50		0.50	4738302	<0.50	0.50	4738302	N/A
Dissolved Magnesium (Mg)	ug/L	57000		100	4738302	2100	100	4738302	N/A
Dissolved Manganese (Mn)	ug/L	2900		2.0	4738302	32	2.0	4738302	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0		2.0	4738302	2.9	2.0	4738302	N/A
Dissolved Nickel (Ni)	ug/L	4.1		2.0	4738302	<2.0	2.0	4738302	N/A
Dissolved Phosphorus (P)	ug/L	<100		100	4738302	<100	100	4738302	N/A
Dissolved Potassium (K)	ug/L	5600		100	4738302	370	100	4738302	N/A
Dissolved Selenium (Se)	ug/L	<1.0		1.0	4738302	<1.0	1.0	4738302	N/A
Dissolved Silver (Ag)	ug/L	<0.10		0.10	4738302	<0.10	0.10	4738302	N/A
Dissolved Sodium (Na)	ug/L	33000		100	4738302	25000	100	4738302	N/A
Dissolved Strontium (Sr)	ug/L	470		2.0	4738302	34	2.0	4738302	N/A
Dissolved Thallium (Tl)	ug/L	<0.10		0.10	4738302	<0.10	0.10	4738302	N/A
Dissolved Tin (Sn)	ug/L	<2.0		2.0	4738302	<2.0	2.0	4738302	N/A
Dissolved Titanium (Ti)	ug/L	<2.0		2.0	4738302	<2.0	2.0	4738302	N/A
Dissolved Uranium (U)	ug/L	8.3		0.10	4738302	0.25	0.10	4738302	N/A
Dissolved Vanadium (V)	ug/L	<2.0		2.0	4738302	<2.0	2.0	4738302	N/A
Dissolved Zinc (Zn)	ug/L	<5.0		5.0	4738302	<5.0	5.0	4738302	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable									

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

Maxxam ID		DJO110		DJO111			DJO113			
Sampling Date		2016/11/01 11:15		2016/11/01 10:00			2016/11/01 12:10			
COC Number		583333-01-01		583333-01-01			583333-01-01			
	UNITS	MW7	QC Batch	MW8	RDL	QC Batch	MW10	RDL	QC Batch	MDL
<b>Calculated Parameters</b>										
Anion Sum	me/L	2.87	4732173	3.96	N/A	4732173	6.21	N/A	4732173	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	120	4732171	160	1.0	4732171	96	1.0	4732171	0.20
Calculated TDS	mg/L	160	4732181	220	1.0	4732181	400	1.0	4732181	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	4732171	<1.0	1.0	4732171	<1.0	1.0	4732171	0.20
Cation Sum	me/L	2.69	4732173	3.65	N/A	4732173	6.06	N/A	4732173	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	100	4731970	140	1.0	4731970	120	1.0	4731970	1.0
Ion Balance (% Difference)	%	3.24	4732172	4.07	N/A	4732172	1.22	N/A	4732172	N/A
Langelier Index (@ 20C)	N/A	-0.218	4732179	-0.651		4732179	-1.18		4732179	
Langelier Index (@ 4C)	N/A	-0.468	4732180	-0.901		4732180	-1.43		4732180	
Nitrate (N)	mg/L	0.091	4731895	<0.050	0.050	4731895	0.39	0.050	4731895	N/A
Saturation pH (@ 20C)	N/A	7.85	4732179	7.57		4732179	7.87		4732179	
Saturation pH (@ 4C)	N/A	8.10	4732180	7.82		4732180	8.12		4732180	
<b>Inorganics</b>										
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	120	4738082	160	25	4738082	96	10	4738082	N/A
Dissolved Chloride (Cl)	mg/L	13	4738083	22	1.0	4738083	90	1.0	4738083	N/A
Colour	TCU	<5.0	4738087	<5.0	5.0	4738087	210	25	4738087	N/A
Nitrate + Nitrite (N)	mg/L	0.091	4738090	<0.050	0.050	4738090	0.39	0.050	4738090	N/A
Nitrite (N)	mg/L	<0.010	4738091	<0.010	0.010	4738091	<0.010	0.010	4738091	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	0.16	4736496	0.086	0.050	4736494	0.59	0.050	4736497	N/A
Total Organic Carbon (C)	mg/L	<50 (1)	4740256	<50 (1)	50	4740256	32 (1)	5.0	4740256	N/A
Orthophosphate (P)	mg/L	0.058	4738088	0.034	0.010	4738088	0.030	0.010	4738088	N/A
pH	pH	7.64	4738016	6.92	N/A	4738014	6.69	N/A	4738016	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	21	4738086	25	0.50	4738086	13	0.50	4738086	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	8.0	4738085	5.5	2.0	4738085	84	10	4738085	N/A
Turbidity	NTU	>1000	4738092	>1000	1.0	4738100	>1000	1.0	4738100	0.10
Conductivity	uS/cm	270	4738017	360	1.0	4738015	670	1.0	4738017	N/A
<b>Metals</b>										
Dissolved Aluminum (Al)	ug/L	5.8	4738302	<5.0	5.0	4738302	300	5.0	4738302	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	4738302	<1.0	1.0	4738302	<1.0	1.0	4738302	N/A
Dissolved Arsenic (As)	ug/L	2.4	4738302	<1.0	1.0	4738302	4.6	1.0	4738302	N/A
Dissolved Barium (Ba)	ug/L	12	4738302	24	1.0	4738302	110	1.0	4738302	N/A
Dissolved Beryllium (Be)	ug/L	<1.0	4738302	<1.0	1.0	4738302	<1.0	1.0	4738302	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Reporting limit was increased due to turbidity.										



Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

Maxxam ID		DJO110		DJO111			DJO113			
Sampling Date		2016/11/01 11:15		2016/11/01 10:00			2016/11/01 12:10			
COC Number		583333-01-01		583333-01-01			583333-01-01			
	UNITS	MW7	QC Batch	MW8	RDL	QC Batch	MW10	RDL	QC Batch	MDL
Dissolved Bismuth (Bi)	ug/L	<2.0	4738302	<2.0	2.0	4738302	<2.0	2.0	4738302	N/A
Dissolved Boron (B)	ug/L	<50	4738302	<50	50	4738302	130	50	4738302	N/A
Dissolved Cadmium (Cd)	ug/L	0.015	4738302	0.066	0.010	4738302	0.18	0.010	4738302	N/A
Dissolved Calcium (Ca)	ug/L	29000	4738302	41000	100	4738302	39000	100	4738302	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	4738302	<1.0	1.0	4738302	1.7	1.0	4738302	N/A
Dissolved Cobalt (Co)	ug/L	<0.40	4738302	3.8	0.40	4738302	14	0.40	4738302	N/A
Dissolved Copper (Cu)	ug/L	<2.0	4738302	<2.0	2.0	4738302	42	2.0	4738302	N/A
Dissolved Iron (Fe)	ug/L	<50	4738302	<50	50	4738302	1300	50	4738302	N/A
Dissolved Lead (Pb)	ug/L	<0.50	4738302	<0.50	0.50	4738302	1.1	0.50	4738302	N/A
Dissolved Magnesium (Mg)	ug/L	7900	4738302	8800	100	4738302	6100	100	4738302	N/A
Dissolved Manganese (Mn)	ug/L	170	4738302	1000	2.0	4738302	4300	2.0	4738302	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	4738302	<2.0	2.0	4738302	<2.0	2.0	4738302	N/A
Dissolved Nickel (Ni)	ug/L	<2.0	4738302	3.5	2.0	4738302	7.7	2.0	4738302	N/A
Dissolved Phosphorus (P)	ug/L	<100	4738302	<100	100	4738302	<100	100	4738302	N/A
Dissolved Potassium (K)	ug/L	3400	4738302	2500	100	4738302	41000	100	4738302	N/A
Dissolved Selenium (Se)	ug/L	<1.0	4738302	<1.0	1.0	4738302	<1.0	1.0	4738302	N/A
Dissolved Silver (Ag)	ug/L	<0.10	4738302	<0.10	0.10	4738302	<0.10	0.10	4738302	N/A
Dissolved Sodium (Na)	ug/L	12000	4738302	18000	100	4738302	57000	100	4738302	N/A
Dissolved Strontium (Sr)	ug/L	96	4738302	160	2.0	4738302	160	2.0	4738302	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	4738302	<0.10	0.10	4738302	0.12	0.10	4738302	N/A
Dissolved Tin (Sn)	ug/L	<2.0	4738302	<2.0	2.0	4738302	<2.0	2.0	4738302	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	4738302	<2.0	2.0	4738302	7.7	2.0	4738302	N/A
Dissolved Uranium (U)	ug/L	0.69	4738302	0.22	0.10	4738302	0.60	0.10	4738302	N/A
Dissolved Vanadium (V)	ug/L	<2.0	4738302	<2.0	2.0	4738302	<2.0	2.0	4738302	N/A
Dissolved Zinc (Zn)	ug/L	<5.0	4738302	<5.0	5.0	4738302	47	5.0	4738302	N/A
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
N/A = Not Applicable										

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

Maxxam ID		DJO113			DJO114			DJO115			
Sampling Date		2016/11/01 12:10			2016/11/01 12:15			2016/11/01 11:25			
COC Number		583333-01-01			583333-01-01			583333-01-01			
	UNITS	MW10 Lab-Dup	RDL	QC Batch	MW11	RDL	QC Batch	MW12	RDL	QC Batch	MDL

#### Calculated Parameters

Anion Sum	me/L		N/A	4732173	1.15	N/A	4732173	1.18	N/A	4732173	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L		1.0	4732171	30	1.0	4732171	7.5	1.0	4732171	0.20
Calculated TDS	mg/L		1.0	4732181	81	1.0	4732181	85	1.0	4732181	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L		1.0	4732171	<1.0	1.0	4732171	<1.0	1.0	4732171	0.20
Cation Sum	me/L		N/A	4732173	1.05	N/A	4732173	1.14	N/A	4732173	N/A
Hardness (CaCO <sub>3</sub> )	mg/L		1.0	4731970	27	1.0	4731970	21	1.0	4731970	1.0
Ion Balance (% Difference)	%		N/A	4732172	4.55	N/A	4732172	1.72	N/A	4732172	N/A
Langelier Index (@ 20C)	N/A			4732179	-3.00		4732179	-4.47		4732179	
Langelier Index (@ 4C)	N/A			4732180	-3.26		4732180	-4.72		4732180	
Nitrate (N)	mg/L		0.050	4731895	0.36	0.050	4731895	<0.050	0.050	4731895	N/A
Saturation pH (@ 20C)	N/A			4732179	9.08		4732179	9.73		4732179	
Saturation pH (@ 4C)	N/A			4732180	9.33		4732180	9.98		4732180	

#### Inorganics

Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L		10	4738082	30	5.0	4738082	7.5	5.0	4738082	N/A
Dissolved Chloride (Cl)	mg/L		1.0	4738083	8.0	1.0	4738083	34	1.0	4738083	N/A
Colour	TCU		25	4738087	<5.0	5.0	4738087	5.3	5.0	4738087	N/A
Nitrate + Nitrite (N)	mg/L		0.050	4738090	0.36	0.050	4738090	<0.050	0.050	4738090	N/A
Nitrite (N)	mg/L		0.010	4738091	<0.010	0.010	4738091	<0.010	0.010	4738091	N/A
Nitrogen (Ammonia Nitrogen)	mg/L		0.050	4736497	<0.050	0.050	4736494	2.7	0.25	4736497	N/A
Total Organic Carbon (C)	mg/L		5.0	4740256	<50 (1)	50	4740256	<50 (1)	50	4740256	N/A
Orthophosphate (P)	mg/L		0.010	4738088	0.027	0.010	4738088	0.016	0.010	4738088	N/A
pH	pH		N/A	4738016	6.08	N/A	4738016	5.26	N/A	4738016	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L		0.50	4738086	17	0.50	4738086	17	0.50	4738086	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L		10	4738085	14	2.0	4738085	2.9	2.0	4738085	N/A
Turbidity	NTU	>1000	1.0	4738100	>1000	1.0	4738092	>1000	1.0	4738092	0.10
Conductivity	uS/cm		1.0	4738017	120	1.0	4738017	160	1.0	4738017	N/A

#### Metals

Dissolved Aluminum (Al)	ug/L		5.0	4738302	30	5.0	4738302	74	5.0	4738302	N/A
Dissolved Antimony (Sb)	ug/L		1.0	4738302	<1.0	1.0	4738302	<1.0	1.0	4738302	N/A
Dissolved Arsenic (As)	ug/L		1.0	4738302	<1.0	1.0	4738302	1.2	1.0	4738302	N/A
Dissolved Barium (Ba)	ug/L		1.0	4738302	7.7	1.0	4738302	49	1.0	4738302	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable

(1) Reporting limit was increased due to turbidity.

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

**ATL RCAP-MS DISSOLVED (LABFILT) IN W**

Maxxam ID		DJO113			DJO114			DJO115			
Sampling Date		2016/11/01 12:10			2016/11/01 12:15			2016/11/01 11:25			
COC Number		583333-01-01			583333-01-01			583333-01-01			
	UNITS	MW10 Lab-Dup	RDL	QC Batch	MW11	RDL	QC Batch	MW12	RDL	QC Batch	MDL
Dissolved Beryllium (Be)	ug/L		1.0	4738302	<1.0	1.0	4738302	<1.0	1.0	4738302	N/A
Dissolved Bismuth (Bi)	ug/L		2.0	4738302	<2.0	2.0	4738302	<2.0	2.0	4738302	N/A
Dissolved Boron (B)	ug/L		50	4738302	<50	50	4738302	<50	50	4738302	N/A
Dissolved Cadmium (Cd)	ug/L		0.010	4738302	0.050	0.010	4738302	0.24	0.010	4738302	N/A
Dissolved Calcium (Ca)	ug/L		100	4738302	5900	100	4738302	5400	100	4738302	N/A
Dissolved Chromium (Cr)	ug/L		1.0	4738302	<1.0	1.0	4738302	<1.0	1.0	4738302	N/A
Dissolved Cobalt (Co)	ug/L		0.40	4738302	0.93	0.40	4738302	31	0.40	4738302	N/A
Dissolved Copper (Cu)	ug/L		2.0	4738302	<2.0	2.0	4738302	33	2.0	4738302	N/A
Dissolved Iron (Fe)	ug/L		50	4738302	<50	50	4738302	82	50	4738302	N/A
Dissolved Lead (Pb)	ug/L		0.50	4738302	<0.50	0.50	4738302	<0.50	0.50	4738302	N/A
Dissolved Magnesium (Mg)	ug/L		100	4738302	3100	100	4738302	1800	100	4738302	N/A
Dissolved Manganese (Mn)	ug/L		2.0	4738302	970	2.0	4738302	1300	2.0	4738302	N/A
Dissolved Molybdenum (Mo)	ug/L		2.0	4738302	<2.0	2.0	4738302	<2.0	2.0	4738302	N/A
Dissolved Nickel (Ni)	ug/L		2.0	4738302	<2.0	2.0	4738302	15	2.0	4738302	N/A
Dissolved Phosphorus (P)	ug/L		100	4738302	<100	100	4738302	<100	100	4738302	N/A
Dissolved Potassium (K)	ug/L		100	4738302	810	100	4738302	4500	100	4738302	N/A
Dissolved Selenium (Se)	ug/L		1.0	4738302	<1.0	1.0	4738302	<1.0	1.0	4738302	N/A
Dissolved Silver (Ag)	ug/L		0.10	4738302	<0.10	0.10	4738302	<0.10	0.10	4738302	N/A
Dissolved Sodium (Na)	ug/L		100	4738302	11000	100	4738302	9400	100	4738302	N/A
Dissolved Strontium (Sr)	ug/L		2.0	4738302	45	2.0	4738302	50	2.0	4738302	N/A
Dissolved Thallium (Tl)	ug/L		0.10	4738302	<0.10	0.10	4738302	<0.10	0.10	4738302	N/A
Dissolved Tin (Sn)	ug/L		2.0	4738302	<2.0	2.0	4738302	<2.0	2.0	4738302	N/A
Dissolved Titanium (Ti)	ug/L		2.0	4738302	<2.0	2.0	4738302	<2.0	2.0	4738302	N/A
Dissolved Uranium (U)	ug/L		0.10	4738302	<0.10	0.10	4738302	0.30	0.10	4738302	N/A
Dissolved Vanadium (V)	ug/L		2.0	4738302	<2.0	2.0	4738302	<2.0	2.0	4738302	N/A
Dissolved Zinc (Zn)	ug/L		5.0	4738302	<5.0	5.0	4738302	110	5.0	4738302	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable											

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

### AT. RCAP-MS DISSOLVED (FIELDILT) IN W

Maxxam ID		DJO100	DJO100			DJO102			
Sampling Date		2016/11/01 12:00	2016/11/01 12:00			2016/11/01 11:35			
COC Number		583333-01-01	583333-01-01			583333-01-01			
	UNITS	MW1D	MW1D Lab-Dup	RDL	QC Batch	MW2D	RDL	QC Batch	MDL
<b>Calculated Parameters</b>									
Anion Sum	me/L	12.4		N/A	4731145	2.96	N/A	4731145	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	600		1.0	4731142	120	1.0	4731142	0.20
Calculated TDS	mg/L	620		1.0	4731150	170	1.0	4731150	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	1.2		1.0	4731142	<1.0	1.0	4731142	0.20
Cation Sum	me/L	11.7		N/A	4731145	2.80	N/A	4731145	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	500		1.0	4731970	110	1.0	4731970	1.0
Ion Balance (% Difference)	%	3.19		N/A	4731144	2.78	N/A	4731144	N/A
Langelier Index (@ 20C)	N/A	0.706			4731148	-0.166		4731148	
Langelier Index (@ 4C)	N/A	0.458			4731149	-0.416		4731149	
Nitrate (N)	mg/L	<0.050		0.050	4731895	<0.050	0.050	4731895	N/A
Saturation pH (@ 20C)	N/A	6.63			4731148	7.89		4731148	
Saturation pH (@ 4C)	N/A	6.88			4731149	8.14		4731149	
<b>Inorganics</b>									
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	600		50	4738067	120	25	4738067	N/A
Dissolved Chloride (Cl)	mg/L	13		1.0	4738070	11	1.0	4738070	N/A
Colour	TCU	<5.0		5.0	4738074	7.0	5.0	4738074	N/A
Nitrate + Nitrite (N)	mg/L	<0.050		0.050	4738078	<0.050	0.050	4738078	N/A
Nitrite (N)	mg/L	<0.010		0.010	4738077	0.013	0.010	4738077	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	0.062		0.050	4736494	<0.050	0.050	4736493	N/A
Total Organic Carbon (C)	mg/L	2.8	2.8	0.50	4740256	<5.0 (1)	5.0	4740256	N/A
Orthophosphate (P)	mg/L	0.028		0.010	4738076	0.041	0.010	4738076	N/A
pH	pH	7.34		N/A	4738012	7.73	N/A	4738012	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	28		1.0	4738072	19	0.50	4738072	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	6.2		2.0	4738071	13	2.0	4738071	N/A
Turbidity	NTU	27		0.10	4738100	>1000	1.0	4738096	0.10
Conductivity	uS/cm	970		1.0	4738013	260	1.0	4738013	N/A
<b>Metals</b>									
Dissolved Aluminum (Al)	ug/L	<5.0		5.0	4738315	5.1	5.0	4738315	N/A
Dissolved Antimony (Sb)	ug/L	<1.0		1.0	4738315	<1.0	1.0	4738315	N/A
Dissolved Arsenic (As)	ug/L	7.6		1.0	4738315	6.9	1.0	4738315	N/A
Dissolved Barium (Ba)	ug/L	290		1.0	4738315	31	1.0	4738315	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Reporting limit was increased due to turbidity.									

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

### AT. RCAP-MS DISSOLVED (FIELDILT) IN W

Maxxam ID		DJO100	DJO100			DJO102			
Sampling Date		2016/11/01 12:00	2016/11/01 12:00			2016/11/01 11:35			
COC Number		583333-01-01	583333-01-01			583333-01-01			
	UNITS	MW1D	MW1D Lab-Dup	RDL	QC Batch	MW2D	RDL	QC Batch	MDL
Dissolved Beryllium (Be)	ug/L	<1.0		1.0	4738315	<1.0	1.0	4738315	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0		2.0	4738315	<2.0	2.0	4738315	N/A
Dissolved Boron (B)	ug/L	<50		50	4738315	1100	50	4738315	N/A
Dissolved Cadmium (Cd)	ug/L	<0.010		0.010	4738315	<0.010	0.010	4738315	N/A
Dissolved Calcium (Ca)	ug/L	120000		100	4738315	26000	100	4738315	N/A
Dissolved Chromium (Cr)	ug/L	<1.0		1.0	4738315	<1.0	1.0	4738315	N/A
Dissolved Cobalt (Co)	ug/L	0.75		0.40	4738315	<0.40	0.40	4738315	N/A
Dissolved Copper (Cu)	ug/L	<2.0		2.0	4738315	<2.0	2.0	4738315	N/A
Dissolved Iron (Fe)	ug/L	720		50	4738315	<50	50	4738315	N/A
Dissolved Lead (Pb)	ug/L	<0.50		0.50	4738315	<0.50	0.50	4738315	N/A
Dissolved Magnesium (Mg)	ug/L	47000		100	4738315	11000	100	4738315	N/A
Dissolved Manganese (Mn)	ug/L	750		2.0	4738315	61	2.0	4738315	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0		2.0	4738315	<2.0	2.0	4738315	N/A
Dissolved Nickel (Ni)	ug/L	2.7		2.0	4738315	3.7	2.0	4738315	N/A
Dissolved Phosphorus (P)	ug/L	<100		100	4738315	<100	100	4738315	N/A
Dissolved Potassium (K)	ug/L	11000		100	4738315	3000	100	4738315	N/A
Dissolved Selenium (Se)	ug/L	<1.0		1.0	4738315	<1.0	1.0	4738315	N/A
Dissolved Silver (Ag)	ug/L	<0.10		0.10	4738315	<0.10	0.10	4738315	N/A
Dissolved Sodium (Na)	ug/L	33000		100	4738315	12000	100	4738315	N/A
Dissolved Strontium (Sr)	ug/L	470		2.0	4738315	160	2.0	4738315	N/A
Dissolved Thallium (Tl)	ug/L	<0.10		0.10	4738315	<0.10	0.10	4738315	N/A
Dissolved Tin (Sn)	ug/L	<2.0		2.0	4738315	<2.0	2.0	4738315	N/A
Dissolved Titanium (Ti)	ug/L	<2.0		2.0	4738315	<2.0	2.0	4738315	N/A
Dissolved Uranium (U)	ug/L	4.1		0.10	4738315	0.78	0.10	4738315	N/A
Dissolved Vanadium (V)	ug/L	<2.0		2.0	4738315	<2.0	2.0	4738315	N/A
Dissolved Zinc (Zn)	ug/L	6.8		5.0	4738315	<5.0	5.0	4738315	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable									

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

### AT. RCAP-MS DISSOLVED (FIELDFIL) IN W

Maxxam ID		DJO104			DJO106		DJO112			
Sampling Date		2016/11/01 10:45			2016/11/01 12:30		2016/11/01 10:15			
COC Number		583333-01-01			583333-01-01		583333-01-01			
	UNITS	MW3D	RDL	QC Batch	MW4D	QC Batch	MW9	RDL	QC Batch	MDL
<b>Calculated Parameters</b>										
Anion Sum	me/L	4.74	N/A	4731145	0.900	4732173	1.81	N/A	4732173	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	200	1.0	4731142	17	4732171	34	1.0	4732171	0.20
Calculated TDS	mg/L	260	1.0	4731150	65	4732181	110	1.0	4732181	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4731142	<1.0	4732171	<1.0	1.0	4732171	0.20
Cation Sum	me/L	4.49	N/A	4731145	0.780	4732173	1.66	N/A	4732173	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	170	1.0	4731970	20	4731970	53	1.0	4731970	1.0
Ion Balance (% Difference)	%	2.71	N/A	4731144	7.14	4732172	4.32	N/A	4732172	N/A
Langelier Index (@ 20C)	N/A	-0.589		4731148	-3.24	4732179	-2.54		4732179	
Langelier Index (@ 4C)	N/A	-0.839		4731149	-3.49	4732180	-2.79		4732180	
Nitrate (N)	mg/L	<0.050	0.050	4731895	0.078	4731895	<0.050	0.050	4731895	N/A
Saturation pH (@ 20C)	N/A	7.46		4731148	9.41	4732179	8.74		4732179	
Saturation pH (@ 4C)	N/A	7.71		4731149	9.66	4732180	8.99		4732180	
<b>Inorganics</b>										
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	200	25	4738082	17	4738082	34	5.0	4738082	N/A
Dissolved Chloride (Cl)	mg/L	18	1.0	4738083	8.1	4738083	25	1.0	4738083	N/A
Colour	TCU	28	5.0	4738087	8.7	4738087	<5.0	5.0	4738087	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4738090	0.078	4738090	<0.050	0.050	4738090	N/A
Nitrite (N)	mg/L	<0.010	0.010	4738091	<0.010	4738091	<0.010	0.010	4738091	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	0.11	0.050	4736496	<0.050	4736496	<0.050	0.050	4736496	N/A
Total Organic Carbon (C)	mg/L	<5.0 (1)	5.0	4740256	0.70	4740256	2.6	0.50	4740256	N/A
Orthophosphate (P)	mg/L	0.021	0.010	4738088	0.014	4738088	0.016	0.010	4738088	N/A
pH	pH	6.87	N/A	4738010	6.18	4738016	6.20	N/A	4738014	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	26	1.0	4738086	14	4738086	13	0.50	4738086	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	7.1	2.0	4738085	16	4738085	20	2.0	4738085	N/A
Turbidity	NTU	200	1.0	4738096	140	4738093	630	1.0	4738100	0.10
Conductivity	uS/cm	420	1.0	4738011	90	4738017	190	1.0	4738015	N/A
<b>Metals</b>										
Dissolved Aluminum (Al)	ug/L	6.0	5.0	4740054	33	4740054	23	5.0	4738315	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	4740054	<1.0	4740054	<1.0	1.0	4738315	N/A
Dissolved Arsenic (As)	ug/L	9.4	1.0	4740054	1.5	4740054	<1.0	1.0	4738315	N/A
Dissolved Barium (Ba)	ug/L	23	1.0	4740054	10	4740054	21	1.0	4738315	N/A
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	4740054	<1.0	4740054	<1.0	1.0	4738315	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Reporting limit was increased due to turbidity.										



Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

### AT. RCAP-MS DISSOLVED (FIELDILT) IN W

Maxxam ID		DJO104			DJO106		DJO112			
Sampling Date		2016/11/01 10:45			2016/11/01 12:30		2016/11/01 10:15			
COC Number		583333-01-01			583333-01-01		583333-01-01			
	UNITS	MW3D	RDL	QC Batch	MW4D	QC Batch	MW9	RDL	QC Batch	MDL
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	4740054	<2.0	4740054	<2.0	2.0	4738315	N/A
Dissolved Boron (B)	ug/L	<50	50	4740054	<50	4740054	<50	50	4738315	N/A
Dissolved Cadmium (Cd)	ug/L	<0.010	0.010	4740054	0.043	4740054	0.14	0.010	4738315	N/A
Dissolved Calcium (Ca)	ug/L	43000	100	4740054	4900	4740054	12000	100	4738315	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	4740054	<1.0	4740054	<1.0	1.0	4738315	N/A
Dissolved Cobalt (Co)	ug/L	5.5	0.40	4740054	3.9	4740054	11	0.40	4738315	N/A
Dissolved Copper (Cu)	ug/L	<2.0	2.0	4740054	<2.0	4740054	<2.0	2.0	4738315	N/A
Dissolved Iron (Fe)	ug/L	1100	50	4740054	450	4740054	<50	50	4738315	N/A
Dissolved Lead (Pb)	ug/L	<0.50	0.50	4740054	<0.50	4740054	<0.50	0.50	4738315	N/A
Dissolved Magnesium (Mg)	ug/L	15000	100	4740054	1900	4740054	5500	100	4738315	N/A
Dissolved Manganese (Mn)	ug/L	520	2.0	4740054	390	4740054	1700	2.0	4738315	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	4740054	<2.0	4740054	<2.0	2.0	4738315	N/A
Dissolved Nickel (Ni)	ug/L	8.7	2.0	4740054	3.6	4740054	6.6	2.0	4738315	N/A
Dissolved Phosphorus (P)	ug/L	<100	100	4740054	<100	4740054	<100	100	4738315	N/A
Dissolved Potassium (K)	ug/L	4000	100	4740054	910	4740054	1100	100	4738315	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	4740054	<1.0	4740054	<1.0	1.0	4738315	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	4740054	<0.10	4740054	<0.10	0.10	4738315	N/A
Dissolved Sodium (Na)	ug/L	21000	100	4740054	7800	4740054	13000	100	4738315	N/A
Dissolved Strontium (Sr)	ug/L	220	2.0	4740054	37	4740054	70	2.0	4738315	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	4740054	<0.10	4740054	<0.10	0.10	4738315	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	4740054	<2.0	4740054	<2.0	2.0	4738315	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	2.0	4740054	<2.0	4740054	<2.0	2.0	4738315	N/A
Dissolved Uranium (U)	ug/L	0.42	0.10	4740054	<0.10	4740054	<0.10	0.10	4738315	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	4740054	<2.0	4740054	<2.0	2.0	4738315	N/A
Dissolved Zinc (Zn)	ug/L	9.6	5.0	4740054	5.9	4740054	5.3	5.0	4738315	N/A
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
N/A = Not Applicable										

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

### AT. RCAP-MS DISSOLVED (FIELDFIL) IN W

Maxxam ID		DJO116	DJO116			
Sampling Date		2016/11/01	2016/11/01			
COC Number		583333-01-01	583333-01-01			
	UNITS	MW-DUP	MW-DUP Lab-Dup	RDL	QC Batch	MDL
<b>Calculated Parameters</b>						
Anion Sum	me/L	2.86		N/A	4732173	N/A
Bicarb. Alkalinity (calc. as CaCO3)	mg/L	110		1.0	4732171	0.20
Calculated TDS	mg/L	160		1.0	4732181	0.20
Carb. Alkalinity (calc. as CaCO3)	mg/L	<1.0		1.0	4732171	0.20
Cation Sum	me/L	2.81		N/A	4732173	N/A
Hardness (CaCO3)	mg/L	110		1.0	4731970	1.0
Ion Balance (% Difference)	%	0.880		N/A	4732172	N/A
Langelier Index (@ 20C)	N/A	-0.0380			4732179	
Langelier Index (@ 4C)	N/A	-0.288			4732180	
Nitrate (N)	mg/L	<0.050		0.050	4731895	N/A
Saturation pH (@ 20C)	N/A	7.90			4732179	
Saturation pH (@ 4C)	N/A	8.15			4732180	
<b>Inorganics</b>						
Total Alkalinity (Total as CaCO3)	mg/L	110		25	4738082	N/A
Dissolved Chloride (Cl)	mg/L	10		1.0	4738083	N/A
Colour	TCU	<5.0		5.0	4738087	N/A
Nitrate + Nitrite (N)	mg/L	<0.050		0.050	4738090	N/A
Nitrite (N)	mg/L	<0.010		0.010	4738091	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	0.097		0.050	4736496	N/A
Total Organic Carbon (C)	mg/L	<25 (1)		25	4740256	N/A
Orthophosphate (P)	mg/L	0.039		0.010	4738088	N/A
pH	pH	7.86		N/A	4738012	N/A
Reactive Silica (SiO2)	mg/L	19		0.50	4738086	N/A
Dissolved Sulphate (SO4)	mg/L	13		2.0	4738085	N/A
Turbidity	NTU	>1000	>1000	1.0	4738093	0.10
Conductivity	uS/cm	270		1.0	4738013	N/A
<b>Metals</b>						
Dissolved Aluminum (Al)	ug/L	5.4		5.0	4738315	N/A
Dissolved Antimony (Sb)	ug/L	<1.0		1.0	4738315	N/A
Dissolved Arsenic (As)	ug/L	6.6		1.0	4738315	N/A
Dissolved Barium (Ba)	ug/L	31		1.0	4738315	N/A
Dissolved Beryllium (Be)	ug/L	<1.0		1.0	4738315	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate (1) Reporting limit was increased due to turbidity.						

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

### AT. RCAP-MS DISSOLVED (FIELDFIL) IN W

Maxxam ID		DJO116	DJO116			
Sampling Date		2016/11/01	2016/11/01			
COC Number		583333-01-01	583333-01-01			
	UNITS	MW-DUP	MW-DUP Lab-Dup	RDL	QC Batch	MDL
Dissolved Bismuth (Bi)	ug/L	<2.0		2.0	4738315	N/A
Dissolved Boron (B)	ug/L	1100		50	4738315	N/A
Dissolved Cadmium (Cd)	ug/L	<0.010		0.010	4738315	N/A
Dissolved Calcium (Ca)	ug/L	26000		100	4738315	N/A
Dissolved Chromium (Cr)	ug/L	<1.0		1.0	4738315	N/A
Dissolved Cobalt (Co)	ug/L	<0.40		0.40	4738315	N/A
Dissolved Copper (Cu)	ug/L	<2.0		2.0	4738315	N/A
Dissolved Iron (Fe)	ug/L	<50		50	4738315	N/A
Dissolved Lead (Pb)	ug/L	<0.50		0.50	4738315	N/A
Dissolved Magnesium (Mg)	ug/L	11000		100	4738315	N/A
Dissolved Manganese (Mn)	ug/L	61		2.0	4738315	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0		2.0	4738315	N/A
Dissolved Nickel (Ni)	ug/L	3.5		2.0	4738315	N/A
Dissolved Phosphorus (P)	ug/L	<100		100	4738315	N/A
Dissolved Potassium (K)	ug/L	3000		100	4738315	N/A
Dissolved Selenium (Se)	ug/L	<1.0		1.0	4738315	N/A
Dissolved Silver (Ag)	ug/L	<0.10		0.10	4738315	N/A
Dissolved Sodium (Na)	ug/L	12000		100	4738315	N/A
Dissolved Strontium (Sr)	ug/L	160		2.0	4738315	N/A
Dissolved Thallium (Tl)	ug/L	<0.10		0.10	4738315	N/A
Dissolved Tin (Sn)	ug/L	<2.0		2.0	4738315	N/A
Dissolved Titanium (Ti)	ug/L	<2.0		2.0	4738315	N/A
Dissolved Uranium (U)	ug/L	0.80		0.10	4738315	N/A
Dissolved Vanadium (V)	ug/L	<2.0		2.0	4738315	N/A
Dissolved Zinc (Zn)	ug/L	<5.0		5.0	4738315	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate						

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

### MERCURY BY COLD VAPOUR AA (WATER)

Maxxam ID		DJO099	DJO100	DJO100	DJO101	DJO102	DJO103			
Sampling Date		2016/11/01 12:00	2016/11/01 12:00	2016/11/01 12:00	2016/11/01 11:40	2016/11/01 11:35	2016/11/01 10:30			
COC Number		583333-01-01	583333-01-01	583333-01-01	583333-01-01	583333-01-01	583333-01-01			
	UNITS	MW1S	MW1D	MW1D Lab-Dup	MW2S	MW2D	MW3S	RDL	QC Batch	MDL

#### Metals

Total Mercury (Hg)	ug/L	<0.013	<0.013	<0.013	0.035	<0.013	<0.013	0.013	4736738	N/A
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RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch  
Lab-Dup = Laboratory Initiated Duplicate  
N/A = Not Applicable

Maxxam ID		DJO104	DJO105	DJO106	DJO107	DJO108	DJO109			
Sampling Date		2016/11/01 10:45	2016/11/01 12:35	2016/11/01 12:30	2016/11/01 12:05	2016/11/01 11:10	2016/11/01 11:15			
COC Number		583333-01-01	583333-01-01	583333-01-01	583333-01-01	583333-01-01	583333-01-01			
	UNITS	MW3D	MW4S	MW4D	MW5S	MW6S	MW6D	RDL	QC Batch	MDL

#### Metals

Total Mercury (Hg)	ug/L	<0.013	0.065	<0.013	<0.013	0.077	<0.013	0.013	4736738	N/A
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RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch  
N/A = Not Applicable

Maxxam ID		DJO110	DJO111	DJO112	DJO113	DJO114	DJO115			
Sampling Date		2016/11/01 11:15	2016/11/01 10:00	2016/11/01 10:15	2016/11/01 12:10	2016/11/01 12:15	2016/11/01 11:25			
COC Number		583333-01-01	583333-01-01	583333-01-01	583333-01-01	583333-01-01	583333-01-01			
	UNITS	MW7	MW8	MW9	MW10	MW11	MW12	RDL	QC Batch	MDL

#### Metals

Total Mercury (Hg)	ug/L	0.028	0.042	<0.013	<0.013	0.83	0.020	0.013	4736738	N/A
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RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch  
N/A = Not Applicable

Maxxam ID		DJO116			
Sampling Date		2016/11/01			
COC Number		583333-01-01			
	UNITS	MW-DUP	RDL	QC Batch	MDL
<b>Metals</b>					
Total Mercury (Hg)	ug/L	<0.013	0.013	4736738	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable					

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

### ELEMENTS BY ICP/MS (WATER)

<b>Maxxam ID</b>		DJO099	DJO100	DJO100		DJO101		DJO102			
<b>Sampling Date</b>		2016/11/01 12:00	2016/11/01 12:00	2016/11/01 12:00		2016/11/01 11:40		2016/11/01 11:35			
<b>COC Number</b>		583333-01-01	583333-01-01	583333-01-01		583333-01-01		583333-01-01			
	<b>UNITS</b>	<b>MW1S</b>	<b>MW1D</b>	<b>MW1D Lab-Dup</b>	<b>RDL</b>	<b>MW2S</b>	<b>RDL</b>	<b>MW2D</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Metals

Total Lead (Pb)	ug/L	66	<0.50	<0.50	0.50	330	5.0	1.8	0.50	4738394	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable

<b>Maxxam ID</b>		DJO103	DJO104		DJO105			DJO106			
<b>Sampling Date</b>		2016/11/01 10:30	2016/11/01 10:45		2016/11/01 12:35			2016/11/01 12:30			
<b>COC Number</b>		583333-01-01	583333-01-01		583333-01-01			583333-01-01			
	<b>UNITS</b>	<b>MW3S</b>	<b>MW3D</b>	<b>RDL</b>	<b>MW4S</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MW4D</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Metals

Total Lead (Pb)	ug/L	73	2.4	0.50	290	5.0	4738394	0.50	0.50	4739997	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

<b>Maxxam ID</b>		DJO107		DJO108		DJO109		DJO110	DJO111			
<b>Sampling Date</b>		2016/11/01 12:05		2016/11/01 11:10		2016/11/01 11:15		2016/11/01 11:15	2016/11/01 10:00			
<b>COC Number</b>		583333-01-01		583333-01-01		583333-01-01		583333-01-01	583333-01-01			
	<b>UNITS</b>	<b>MW5S</b>	<b>RDL</b>	<b>MW6S</b>	<b>RDL</b>	<b>MW6D</b>	<b>RDL</b>	<b>MW7</b>	<b>MW8</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Metals

Total Lead (Pb)	ug/L	2.5	0.50	97	5.0	39	0.50	220	120	5.0	4739997	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

<b>Maxxam ID</b>		DJO112	DJO113		DJO114		DJO115				
<b>Sampling Date</b>		2016/11/01 10:15	2016/11/01 12:10		2016/11/01 12:15		2016/11/01 11:25				
<b>COC Number</b>		583333-01-01	583333-01-01		583333-01-01		583333-01-01				
	<b>UNITS</b>	<b>MW9</b>	<b>MW10</b>	<b>QC Batch</b>	<b>MW11</b>	<b>QC Batch</b>	<b>MW12</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>	

#### Metals

Total Lead (Pb)	ug/L	<0.50	23	4739997	100	4742388	38	0.50	4739997	N/A	
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

### ELEMENTS BY ICP/MS (WATER)

Maxxam ID		DJO116			
Sampling Date		2016/11/01			
COC Number		583333-01-01			
	UNITS	MW-DUP	RDL	QC Batch	MDL
<b>Metals</b>					
Total Lead (Pb)	ug/L	3.5	0.50	4739997	N/A
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
N/A = Not Applicable					



Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DJO099  
**Sample ID:** MW1S  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4731142	N/A	2016/11/04	Automated Statchk
Alkalinity	KONE	4738067	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738070	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738074	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738013	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4731970	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736738	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4738302	N/A	2016/11/08	Mike Leblanc
Metals Water Total MS	CICP/MS	4738394	2016/11/08	2016/11/08	Mike Leblanc
Ion Balance (% Difference)	CALC	4731144	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4731145	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736492	N/A	2016/11/08	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738078	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738077	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk
pH	AT	4738012	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738076	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4731148	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4731149	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738072	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738071	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4731150	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740256	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738100	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJO100  
**Sample ID:** MW1D  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4731142	N/A	2016/11/04	Automated Statchk
Alkalinity	KONE	4738067	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738070	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738074	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738013	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4731970	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736738	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4738315	N/A	2016/11/08	Mike Leblanc
Metals Water Total MS	CICP/MS	4738394	2016/11/08	2016/11/09	Mike Leblanc
Ion Balance (% Difference)	CALC	4731144	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4731145	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736494	N/A	2016/11/08	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738078	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738077	N/A	2016/11/09	Nancy Rogers

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DJO100  
**Sample ID:** MW1D  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk
pH	AT	4738012	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738076	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4731148	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4731149	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738072	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738071	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4731150	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740256	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738100	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJO100 Dup  
**Sample ID:** MW1D  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury - Total (CVAA,LL)	CV/AA	4736738	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Total MS	CICP/MS	4738394	2016/11/08	2016/11/09	Mike Leblanc
Organic carbon - Total (TOC)	TECH	4740256	N/A	2016/11/09	Soraya Merchant

**Maxxam ID:** DJO101  
**Sample ID:** MW2S  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4731142	N/A	2016/11/04	Automated Statchk
Alkalinity	KONE	4738067	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738070	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738074	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4740003	N/A	2016/11/09	Julia McGovern
Hardness (calculated as CaCO3)		4731970	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736738	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4738302	N/A	2016/11/08	Mike Leblanc
Metals Water Total MS	CICP/MS	4738394	2016/11/08	2016/11/09	Mike Leblanc
Ion Balance (% Difference)	CALC	4731144	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4731145	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736496	N/A	2016/11/09	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738078	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738077	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk
pH	AT	4740002	N/A	2016/11/09	Julia McGovern
Phosphorus - ortho	KONE	4738076	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4731148	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4731149	N/A	2016/11/09	Automated Statchk

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DJO101  
**Sample ID:** MW2S  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Reactive Silica	KONE	4738072	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738071	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4731150	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740256	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738093	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJO101 Dup  
**Sample ID:** MW2S  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	KONE	4738067	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738070	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738074	N/A	2016/11/08	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4738078	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738077	N/A	2016/11/09	Nancy Rogers
Phosphorus - ortho	KONE	4738076	N/A	2016/11/08	Nancy Rogers
Reactive Silica	KONE	4738072	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738071	N/A	2016/11/08	Nancy Rogers

**Maxxam ID:** DJO102  
**Sample ID:** MW2D  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4731142	N/A	2016/11/04	Automated Statchk
Alkalinity	KONE	4738067	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738070	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738074	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738013	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO3)		4731970	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736738	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4738315	N/A	2016/11/08	Mike Leblanc
Metals Water Total MS	CICP/MS	4738394	2016/11/08	2016/11/09	Mike Leblanc
Ion Balance (% Difference)	CALC	4731144	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4731145	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736493	N/A	2016/11/08	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738078	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738077	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk
pH	AT	4738012	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738076	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4731148	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4731149	N/A	2016/11/09	Automated Statchk

Maxxam Job #: B6N8782  
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Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DJO102  
**Sample ID:** MW2D  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Reactive Silica	KONE	4738072	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738071	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4731150	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740256	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738096	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJO103  
**Sample ID:** MW3S  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4731142	N/A	2016/11/04	Automated Statchk
Alkalinity	KONE	4738067	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738070	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738074	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738017	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO3)		4731970	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736738	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4738302	N/A	2016/11/08	Mike Leblanc
Metals Water Total MS	CICP/MS	4738394	2016/11/08	2016/11/09	Mike Leblanc
Ion Balance (% Difference)	CALC	4731144	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4731145	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736496	N/A	2016/11/09	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738078	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738077	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk
pH	AT	4738016	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738076	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4731148	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4731149	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738072	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738071	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4731150	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740256	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738107	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJO104  
**Sample ID:** MW3D  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4731142	N/A	2016/11/04	Automated Statchk
Alkalinity	KONE	4738082	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738083	N/A	2016/11/08	Nancy Rogers

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## TEST SUMMARY

**Maxxam ID:** DJO104  
**Sample ID:** MW3D  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Colour	KONE	4738087	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738011	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4731970	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736738	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4740054	N/A	2016/11/09	Bryon Angevine
Metals Water Total MS	CICP/MS	4738394	2016/11/08	2016/11/09	Mike Leblanc
Ion Balance (% Difference)	CALC	4731144	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4731145	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736496	N/A	2016/11/09	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738090	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738091	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk
pH	AT	4738010	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738088	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4731148	N/A	2016/11/10	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4731149	N/A	2016/11/10	Automated Statchk
Reactive Silica	KONE	4738086	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738085	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4731150	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740256	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738096	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJO105  
**Sample ID:** MW4S  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4731142	N/A	2016/11/04	Automated Statchk
Alkalinity	KONE	4738082	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738083	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738087	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738015	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4731970	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736738	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4738302	N/A	2016/11/08	Mike Leblanc
Metals Water Total MS	CICP/MS	4738394	2016/11/08	2016/11/09	Mike Leblanc
Ion Balance (% Difference)	CALC	4731144	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4731145	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736496	N/A	2016/11/09	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738090	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738091	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk
pH	AT	4738014	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738088	N/A	2016/11/08	Nancy Rogers

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Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DJO105  
**Sample ID:** MW4S  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Sat. pH and Langelier Index (@ 20C)	CALC	4731148	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4731149	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738086	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738085	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4731150	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740256	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738100	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJO106  
**Sample ID:** MW4D  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738082	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738083	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738087	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738017	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO3)		4731970	N/A	2016/11/10	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736738	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4740054	N/A	2016/11/09	Bryon Angevine
Metals Water Total MS	CICP/MS	4739997	2016/11/09	2016/11/10	Bryon Angevine
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/10	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/10	Automated Statchk
Nitrogen Ammonia - water	KONE	4736496	N/A	2016/11/09	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738090	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738091	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk
pH	AT	4738016	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738088	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/10	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/10	Automated Statchk
Reactive Silica	KONE	4738086	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738085	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/10	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740256	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738093	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJO107  
**Sample ID:** MW5S  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk



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## TEST SUMMARY

**Maxxam ID:** DJO107  
**Sample ID:** MW55  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	KONE	4738082	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738083	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738087	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738015	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4731970	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736738	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4738302	N/A	2016/11/08	Mike Leblanc
Metals Water Total MS	CICP/MS	4739997	2016/11/09	2016/11/10	Bryon Angevine
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736496	N/A	2016/11/09	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738090	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738091	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk
pH	AT	4738014	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738088	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738086	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738085	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740256	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738100	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJO108  
**Sample ID:** MW6S  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738082	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738083	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738087	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738017	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4731970	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736738	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4738302	N/A	2016/11/08	Mike Leblanc
Metals Water Total MS	CICP/MS	4739997	2016/11/09	2016/11/10	Bryon Angevine
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736494	N/A	2016/11/08	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738090	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738091	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk

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## TEST SUMMARY

**Maxxam ID:** DJO108  
**Sample ID:** MW6S  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	4738016	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738088	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738086	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738085	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740256	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738100	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJO108 Dup  
**Sample ID:** MW6S  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	KONE	4738082	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738083	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738087	N/A	2016/11/08	Nancy Rogers
Nitrogen - Nitrate + Nitrite	KONE	4738090	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738091	N/A	2016/11/09	Nancy Rogers
Phosphorus - ortho	KONE	4738088	N/A	2016/11/08	Nancy Rogers
Reactive Silica	KONE	4738086	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738085	N/A	2016/11/08	Nancy Rogers

**Maxxam ID:** DJO109  
**Sample ID:** MW6D  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738082	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738083	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738087	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738013	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO3)		4731970	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736738	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4738302	N/A	2016/11/08	Mike Leblanc
Metals Water Total MS	CICP/MS	4739997	2016/11/09	2016/11/10	Bryon Angevine
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736496	N/A	2016/11/09	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738090	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738091	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk

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## TEST SUMMARY

**Maxxam ID:** DJO109  
**Sample ID:** MW6D  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	4738012	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738088	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738086	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738085	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740256	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738100	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJO110  
**Sample ID:** MW7  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738082	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738083	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738087	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738017	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO3)		4731970	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736738	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4738302	N/A	2016/11/08	Mike Leblanc
Metals Water Total MS	CICP/MS	4739997	2016/11/09	2016/11/10	Bryon Angevine
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736496	N/A	2016/11/09	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738090	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738091	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk
pH	AT	4738016	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738088	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738086	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738085	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740256	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738092	N/A	2016/11/08	Julia McGovern

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DJO111  
**Sample ID:** MW8  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738082	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738083	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738087	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738015	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4731970	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736738	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4738302	N/A	2016/11/08	Mike Leblanc
Metals Water Total MS	CICP/MS	4739997	2016/11/09	2016/11/10	Bryon Angevine
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736494	N/A	2016/11/08	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738090	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738091	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk
pH	AT	4738014	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738088	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738086	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738085	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740256	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738100	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJO112  
**Sample ID:** MW9  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738082	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738083	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738087	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738015	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4731970	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736738	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4738315	N/A	2016/11/08	Mike Leblanc
Metals Water Total MS	CICP/MS	4739997	2016/11/09	2016/11/10	Bryon Angevine
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736496	N/A	2016/11/09	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738090	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738091	N/A	2016/11/09	Nancy Rogers

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DJO112  
**Sample ID:** MW9  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk
pH	AT	4738014	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738088	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738086	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738085	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740256	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738100	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJO113  
**Sample ID:** MW10  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738082	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738083	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738087	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738017	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO3)		4731970	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736738	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4738302	N/A	2016/11/08	Mike Leblanc
Metals Water Total MS	CICP/MS	4739997	2016/11/09	2016/11/10	Bryon Angevine
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736497	N/A	2016/11/09	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738090	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738091	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk
pH	AT	4738016	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738088	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738086	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738085	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740256	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738100	N/A	2016/11/08	Julia McGovern

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DJO113 Dup  
**Sample ID:** MW10  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Turbidity	TURB	4738100	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJO114  
**Sample ID:** MW11  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738082	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738083	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738087	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738017	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4731970	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736738	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4738302	N/A	2016/11/08	Mike Leblanc
Metals Water Total MS	CICP/MS	4742388	2016/11/09	2016/11/11	Bryon Angevine
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736494	N/A	2016/11/08	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738090	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738091	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk
pH	AT	4738016	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738088	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738086	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738085	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740256	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738092	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJO115  
**Sample ID:** MW12  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738082	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738083	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738087	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738017	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4731970	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736738	2016/11/07	2016/11/08	Arlene Rossiter



Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DJO115  
**Sample ID:** MW12  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Water Diss. MS	CICP/MS	4738302	N/A	2016/11/08	Mike Leblanc
Metals Water Total MS	CICP/MS	4739997	2016/11/09	2016/11/10	Bryon Angevine
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736497	N/A	2016/11/08	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738090	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738091	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk
pH	AT	4738016	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738088	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738086	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738085	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740256	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738092	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJO116  
**Sample ID:** MW-DUP  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738082	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738083	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738087	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738013	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO3)		4731970	N/A	2016/11/09	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4736738	2016/11/07	2016/11/08	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4738315	N/A	2016/11/08	Mike Leblanc
Metals Water Total MS	CICP/MS	4739997	2016/11/09	2016/11/10	Bryon Angevine
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/09	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/09	Automated Statchk
Nitrogen Ammonia - water	KONE	4736496	N/A	2016/11/09	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738090	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738091	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk
pH	AT	4738012	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738088	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/09	Automated Statchk
Reactive Silica	KONE	4738086	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738085	N/A	2016/11/08	Nancy Rogers

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DJO116  
**Sample ID:** MW-DUP  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740256	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738093	N/A	2016/11/08	Julia McGovern

**Maxxam ID:** DJO116 Dup  
**Sample ID:** MW-DUP  
**Matrix:** Water

**Collected:** 2016/11/01  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Turbidity	TURB	4738093	N/A	2016/11/08	Julia McGovern

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	4.3°C
Package 2	6.0°C

Sample DJO099 [MW1S] : Poor RCap Ion Balance due to sample matrix. Cation sum does not include contribution from manganese.

Sample DJO101 [MW2S] : Elevated reporting limits for trace metals due to sample matrix.

Poor RCap Ion Balance due to sample matrix. Cation sum does not include contribution from manganese.

Sample DJO103 [MW3S] : Poor RCap Ion Balance due to sample matrix. Cation sum does not include contribution from manganese.

Sample DJO105 [MW4S] : Elevated reporting limits for trace metals due to sample matrix. RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample DJO106 [MW4D] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample DJO107 [MW5S] : Poor RCap Ion Balance due to sample matrix. Possibly due to fine particulate matter.

Sample DJO108 [MW6S] : Elevated reporting limits for trace metals due to sample matrix.

Poor RCap Ion Balance due to sample matrix. Cation sum does not include contribution from Mn.

Sample DJO109 [MW6D] : Poor RCap Ion Balance due to sample matrix.

Sample DJO110 [MW7] : Elevated reporting limits for trace metals due to sample matrix.

Sample DJO111 [MW8] : Elevated reporting limits for trace metals due to sample matrix.

**Results relate only to the items tested.**

Maxxam Job #: B6N8782  
Report Date: 2016/11/14

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

### QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4736492	MCN	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2016/11/08		100	%	80 - 120
4736492	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2016/11/08		103	%	80 - 120
4736492	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2016/11/08	<0.050		mg/L	
4736492	MCN	RPD - Sample/Sample Dup	Nitrogen (Ammonia Nitrogen)	2016/11/08	NC		%	20
4736493	MCN	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2016/11/08		97	%	80 - 120
4736493	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2016/11/08		103	%	80 - 120
4736493	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2016/11/08	<0.050		mg/L	
4736493	MCN	RPD - Sample/Sample Dup	Nitrogen (Ammonia Nitrogen)	2016/11/08	NC		%	20
4736494	MCN	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2016/11/08		NC	%	80 - 120
4736494	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2016/11/08		104	%	80 - 120
4736494	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2016/11/08	<0.050		mg/L	
4736494	MCN	RPD - Sample/Sample Dup	Nitrogen (Ammonia Nitrogen)	2016/11/08	0.64		%	20
4736496	MCN	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2016/11/09		104	%	80 - 120
4736496	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2016/11/08		102	%	80 - 120
4736496	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2016/11/08	<0.050		mg/L	
4736496	MCN	RPD - Sample/Sample Dup	Nitrogen (Ammonia Nitrogen)	2016/11/09	NC		%	20
4736497	MCN	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2016/11/09		104	%	80 - 120
4736497	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2016/11/09		106	%	80 - 120
4736497	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2016/11/09	<0.050		mg/L	
4736497	MCN	RPD - Sample/Sample Dup	Nitrogen (Ammonia Nitrogen)	2016/11/09	NC		%	20
4736738	ARS	Matrix Spike(DJO104)	Total Mercury (Hg)	2016/11/08		103	%	80 - 120
4736738	ARS	Spiked Blank	Total Mercury (Hg)	2016/11/08		107	%	80 - 120
4736738	ARS	Method Blank	Total Mercury (Hg)	2016/11/08	<0.013		ug/L	
4736738	ARS	RPD - Sample/Sample Dup	Total Mercury (Hg)	2016/11/08	NC		%	20
4738010	JMV	QC Standard	pH	2016/11/08		100	%	97 - 103
4738010	JMV	RPD - Sample/Sample Dup	pH	2016/11/08	1.0		%	N/A
4738011	JMV	Spiked Blank	Conductivity	2016/11/08		100	%	80 - 120
4738011	JMV	Method Blank	Conductivity	2016/11/08	1.6, RDL=1.0		uS/cm	
4738011	JMV	RPD - Sample/Sample Dup	Conductivity	2016/11/08	0.0018		%	25
4738012	JMV	QC Standard	pH	2016/11/08		100	%	97 - 103
4738012	JMV	RPD - Sample/Sample Dup	pH	2016/11/08	1.6		%	N/A
4738013	JMV	Spiked Blank	Conductivity	2016/11/08		100	%	80 - 120
4738013	JMV	Method Blank	Conductivity	2016/11/08	1.4, RDL=1.0		uS/cm	
4738013	JMV	RPD - Sample/Sample Dup	Conductivity	2016/11/08	0.089		%	25
4738014	JMV	QC Standard	pH	2016/11/08		100	%	97 - 103
4738014	JMV	RPD - Sample/Sample Dup	pH	2016/11/08	1.5		%	N/A
4738015	JMV	Spiked Blank	Conductivity	2016/11/08		100	%	80 - 120
4738015	JMV	Method Blank	Conductivity	2016/11/08	1.7, RDL=1.0		uS/cm	
4738015	JMV	RPD - Sample/Sample Dup	Conductivity	2016/11/08	0.77		%	25
4738016	JMV	QC Standard	pH	2016/11/08		100	%	97 - 103
4738016	JMV	RPD - Sample/Sample Dup	pH	2016/11/08	0.36		%	N/A
4738017	JMV	Spiked Blank	Conductivity	2016/11/08		100	%	80 - 120
4738017	JMV	Method Blank	Conductivity	2016/11/08	1.3, RDL=1.0		uS/cm	
4738017	JMV	RPD - Sample/Sample Dup	Conductivity	2016/11/08	0.66		%	25
4738067	NRG	Matrix Spike(DJO101)	Total Alkalinity (Total as CaCO3)	2016/11/08		NC	%	80 - 120
4738067	NRG	Spiked Blank	Total Alkalinity (Total as CaCO3)	2016/11/08		107	%	80 - 120
4738067	NRG	Method Blank	Total Alkalinity (Total as CaCO3)	2016/11/08	<5.0		mg/L	
4738067	NRG	RPD - Sample/Sample Dup	Total Alkalinity (Total as CaCO3)	2016/11/08	1.5		%	25

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4738070	NRG	Matrix Spike(DJO101)	Dissolved Chloride (Cl)	2016/11/08		NC	%	80 - 120
4738070	NRG	QC Standard	Dissolved Chloride (Cl)	2016/11/08		105	%	80 - 120
4738070	NRG	Spiked Blank	Dissolved Chloride (Cl)	2016/11/08		98	%	80 - 120
4738070	NRG	Method Blank	Dissolved Chloride (Cl)	2016/11/08	<1.0		mg/L	
4738070	NRG	RPD - Sample/Sample Dup	Dissolved Chloride (Cl)	2016/11/08	6.3		%	25
4738071	NRG	Matrix Spike(DJO101)	Dissolved Sulphate (SO4)	2016/11/08		NC	%	80 - 120
4738071	NRG	Spiked Blank	Dissolved Sulphate (SO4)	2016/11/08		102	%	80 - 120
4738071	NRG	Method Blank	Dissolved Sulphate (SO4)	2016/11/08	<2.0		mg/L	
4738071	NRG	RPD - Sample/Sample Dup	Dissolved Sulphate (SO4)	2016/11/08	5.8		%	25
4738072	NRG	Matrix Spike(DJO101)	Reactive Silica (SiO2)	2016/11/08		NC	%	80 - 120
4738072	NRG	Spiked Blank	Reactive Silica (SiO2)	2016/11/08		100	%	80 - 120
4738072	NRG	Method Blank	Reactive Silica (SiO2)	2016/11/08	<0.50		mg/L	
4738072	NRG	RPD - Sample/Sample Dup	Reactive Silica (SiO2)	2016/11/08	1.1		%	25
4738074	NRG	Spiked Blank	Colour	2016/11/08		93	%	80 - 120
4738074	NRG	Method Blank	Colour	2016/11/08	<5.0		TCU	
4738074	NRG	RPD - Sample/Sample Dup	Colour	2016/11/08	NC		%	20
4738076	NRG	Matrix Spike(DJO101)	Orthophosphate (P)	2016/11/08		93	%	80 - 120
4738076	NRG	Spiked Blank	Orthophosphate (P)	2016/11/08		100	%	80 - 120
4738076	NRG	Method Blank	Orthophosphate (P)	2016/11/08	<0.010		mg/L	
4738076	NRG	RPD - Sample/Sample Dup	Orthophosphate (P)	2016/11/08	NC		%	25
4738077	NRG	Matrix Spike(DJO101)	Nitrite (N)	2016/11/09		91	%	80 - 120
4738077	NRG	Spiked Blank	Nitrite (N)	2016/11/09		92	%	80 - 120
4738077	NRG	Method Blank	Nitrite (N)	2016/11/09	<0.010		mg/L	
4738077	NRG	RPD - Sample/Sample Dup	Nitrite (N)	2016/11/09	NC		%	25
4738078	NRG	Matrix Spike(DJO101)	Nitrate + Nitrite (N)	2016/11/09		NC	%	80 - 120
4738078	NRG	Spiked Blank	Nitrate + Nitrite (N)	2016/11/09		95	%	80 - 120
4738078	NRG	Method Blank	Nitrate + Nitrite (N)	2016/11/09	<0.050		mg/L	
4738078	NRG	RPD - Sample/Sample Dup	Nitrate + Nitrite (N)	2016/11/09	0.21		%	25
4738082	NRG	Matrix Spike(DJO108)	Total Alkalinity (Total as CaCO3)	2016/11/08		NC	%	80 - 120
4738082	NRG	Spiked Blank	Total Alkalinity (Total as CaCO3)	2016/11/08		107	%	80 - 120
4738082	NRG	Method Blank	Total Alkalinity (Total as CaCO3)	2016/11/08	<5.0		mg/L	
4738082	NRG	RPD - Sample/Sample Dup	Total Alkalinity (Total as CaCO3)	2016/11/08	2.0		%	25
4738083	NRG	Matrix Spike(DJO108)	Dissolved Chloride (Cl)	2016/11/08		NC	%	80 - 120
4738083	NRG	QC Standard	Dissolved Chloride (Cl)	2016/11/08		105	%	80 - 120
4738083	NRG	Spiked Blank	Dissolved Chloride (Cl)	2016/11/08		105	%	80 - 120
4738083	NRG	Method Blank	Dissolved Chloride (Cl)	2016/11/08	1.1, RDL=1.0		mg/L	
4738083	NRG	RPD - Sample/Sample Dup	Dissolved Chloride (Cl)	2016/11/08	2.8		%	25
4738085	NRG	Matrix Spike(DJO108)	Dissolved Sulphate (SO4)	2016/11/08		NC	%	80 - 120
4738085	NRG	Spiked Blank	Dissolved Sulphate (SO4)	2016/11/08		105	%	80 - 120
4738085	NRG	Method Blank	Dissolved Sulphate (SO4)	2016/11/08	<2.0		mg/L	
4738085	NRG	RPD - Sample/Sample Dup	Dissolved Sulphate (SO4)	2016/11/08	7.0		%	25
4738086	NRG	Matrix Spike(DJO108)	Reactive Silica (SiO2)	2016/11/08		NC	%	80 - 120
4738086	NRG	Spiked Blank	Reactive Silica (SiO2)	2016/11/08		100	%	80 - 120
4738086	NRG	Method Blank	Reactive Silica (SiO2)	2016/11/08	<0.50		mg/L	
4738086	NRG	RPD - Sample/Sample Dup	Reactive Silica (SiO2)	2016/11/08	1.7		%	25
4738087	NRG	Spiked Blank	Colour	2016/11/08		109	%	80 - 120
4738087	NRG	Method Blank	Colour	2016/11/08	<5.0		TCU	
4738087	NRG	RPD - Sample/Sample Dup	Colour	2016/11/08	NC		%	20
4738088	NRG	Matrix Spike(DJO108)	Orthophosphate (P)	2016/11/08		82	%	80 - 120
4738088	NRG	Spiked Blank	Orthophosphate (P)	2016/11/08		97	%	80 - 120
4738088	NRG	Method Blank	Orthophosphate (P)	2016/11/08	<0.010		mg/L	

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4738088	NRG	RPD - Sample/Sample Dup	Orthophosphate (P)		2016/11/08	NC		%	25
4738090	NRG	Matrix Spike(DJO108)	Nitrate + Nitrite (N)		2016/11/09		101	%	80 - 120
4738090	NRG	Spiked Blank	Nitrate + Nitrite (N)		2016/11/09		102	%	80 - 120
4738090	NRG	Method Blank	Nitrate + Nitrite (N)		2016/11/09	<0.050		mg/L	
4738090	NRG	RPD - Sample/Sample Dup	Nitrate + Nitrite (N)		2016/11/09	NC		%	25
4738091	NRG	Matrix Spike(DJO108)	Nitrite (N)		2016/11/09		91	%	80 - 120
4738091	NRG	Spiked Blank	Nitrite (N)		2016/11/09		91	%	80 - 120
4738091	NRG	Method Blank	Nitrite (N)		2016/11/09	<0.010		mg/L	
4738091	NRG	RPD - Sample/Sample Dup	Nitrite (N)		2016/11/09	NC		%	25
4738092	JMV	QC Standard	Turbidity		2016/11/08		102	%	80 - 120
4738092	JMV	Spiked Blank	Turbidity		2016/11/08		94	%	80 - 120
4738092	JMV	Method Blank	Turbidity		2016/11/08	<0.10		NTU	
4738092	JMV	RPD - Sample/Sample Dup	Turbidity		2016/11/08	2.1		%	20
4738093	JMV	QC Standard	Turbidity		2016/11/08		101	%	80 - 120
4738093	JMV	Spiked Blank	Turbidity		2016/11/08		95	%	80 - 120
4738093	JMV	Method Blank	Turbidity		2016/11/08	<0.10		NTU	
4738093	JMV	RPD - Sample/Sample Dup	Turbidity		2016/11/08	NC		%	20
4738096	JMV	QC Standard	Turbidity		2016/11/08		101	%	80 - 120
4738096	JMV	Spiked Blank	Turbidity		2016/11/08		95	%	80 - 120
4738096	JMV	Method Blank	Turbidity		2016/11/08	<0.10		NTU	
4738096	JMV	RPD - Sample/Sample Dup	Turbidity		2016/11/08	1.3		%	20
4738100	JMV	QC Standard	Turbidity		2016/11/08		101	%	80 - 120
4738100	JMV	Spiked Blank	Turbidity		2016/11/08		95	%	80 - 120
4738100	JMV	Method Blank	Turbidity		2016/11/08	<0.10		NTU	
4738100	JMV	RPD - Sample/Sample Dup	Turbidity		2016/11/08	NC		%	20
4738107	JMV	QC Standard	Turbidity		2016/11/08		101	%	80 - 120
4738107	JMV	Spiked Blank	Turbidity		2016/11/08		94	%	80 - 120
4738107	JMV	Method Blank	Turbidity		2016/11/08	<0.10		NTU	
4738107	JMV	RPD - Sample/Sample Dup	Turbidity		2016/11/08	NC		%	20
4738302	MLB	Matrix Spike	Dissolved Aluminum (Al)		2016/11/08		102	%	80 - 120
			Dissolved Antimony (Sb)		2016/11/08		98	%	80 - 120
			Dissolved Arsenic (As)		2016/11/08		97	%	80 - 120
			Dissolved Barium (Ba)		2016/11/08		97	%	80 - 120
			Dissolved Beryllium (Be)		2016/11/08		95	%	80 - 120
			Dissolved Bismuth (Bi)		2016/11/08		99	%	80 - 120
			Dissolved Boron (B)		2016/11/08		95	%	80 - 120
			Dissolved Cadmium (Cd)		2016/11/08		96	%	80 - 120
			Dissolved Calcium (Ca)		2016/11/08		99	%	80 - 120
			Dissolved Chromium (Cr)		2016/11/08		96	%	80 - 120
			Dissolved Cobalt (Co)		2016/11/08		97	%	80 - 120
			Dissolved Copper (Cu)		2016/11/08		94	%	80 - 120
			Dissolved Iron (Fe)		2016/11/08		98	%	80 - 120
			Dissolved Lead (Pb)		2016/11/08		96	%	80 - 120
			Dissolved Magnesium (Mg)		2016/11/08		100	%	80 - 120
			Dissolved Manganese (Mn)		2016/11/08		100	%	80 - 120
			Dissolved Molybdenum (Mo)		2016/11/08		101	%	80 - 120
			Dissolved Nickel (Ni)		2016/11/08		96	%	80 - 120
			Dissolved Phosphorus (P)		2016/11/08		103	%	80 - 120
			Dissolved Potassium (K)		2016/11/08		100	%	80 - 120
			Dissolved Selenium (Se)		2016/11/08		100	%	80 - 120
			Dissolved Silver (Ag)		2016/11/08		98	%	80 - 120
			Dissolved Sodium (Na)		2016/11/08		NC	%	80 - 120



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Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
4738302	MLB	Spiked Blank	Dissolved Strontium (Sr)	2016/11/08		NC	%	80 - 120
			Dissolved Thallium (Tl)	2016/11/08		99	%	80 - 120
			Dissolved Tin (Sn)	2016/11/08		103	%	80 - 120
			Dissolved Titanium (Ti)	2016/11/08		97	%	80 - 120
			Dissolved Uranium (U)	2016/11/08		101	%	80 - 120
			Dissolved Vanadium (V)	2016/11/08		98	%	80 - 120
			Dissolved Zinc (Zn)	2016/11/08		99	%	80 - 120
			Dissolved Aluminum (Al)	2016/11/08		103	%	80 - 120
			Dissolved Antimony (Sb)	2016/11/08		99	%	80 - 120
			Dissolved Arsenic (As)	2016/11/08		98	%	80 - 120
			Dissolved Barium (Ba)	2016/11/08		98	%	80 - 120
			Dissolved Beryllium (Be)	2016/11/08		97	%	80 - 120
			Dissolved Bismuth (Bi)	2016/11/08		101	%	80 - 120
			Dissolved Boron (B)	2016/11/08		97	%	80 - 120
			Dissolved Cadmium (Cd)	2016/11/08		98	%	80 - 120
			Dissolved Calcium (Ca)	2016/11/08		99	%	80 - 120
			Dissolved Chromium (Cr)	2016/11/08		97	%	80 - 120
			Dissolved Cobalt (Co)	2016/11/08		97	%	80 - 120
			Dissolved Copper (Cu)	2016/11/08		96	%	80 - 120
			Dissolved Iron (Fe)	2016/11/08		97	%	80 - 120
			Dissolved Lead (Pb)	2016/11/08		98	%	80 - 120
			Dissolved Magnesium (Mg)	2016/11/08		102	%	80 - 120
			Dissolved Manganese (Mn)	2016/11/08		100	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/11/08		100	%	80 - 120
			Dissolved Nickel (Ni)	2016/11/08		99	%	80 - 120
			Dissolved Phosphorus (P)	2016/11/08		104	%	80 - 120
			Dissolved Potassium (K)	2016/11/08		102	%	80 - 120
			Dissolved Selenium (Se)	2016/11/08		99	%	80 - 120
			Dissolved Silver (Ag)	2016/11/08		98	%	80 - 120
			Dissolved Sodium (Na)	2016/11/08		98	%	80 - 120
			Dissolved Strontium (Sr)	2016/11/08		99	%	80 - 120
			Dissolved Thallium (Tl)	2016/11/08		101	%	80 - 120
			Dissolved Tin (Sn)	2016/11/08		100	%	80 - 120
			Dissolved Titanium (Ti)	2016/11/08		101	%	80 - 120
			Dissolved Uranium (U)	2016/11/08		102	%	80 - 120
			Dissolved Vanadium (V)	2016/11/08		98	%	80 - 120
			Dissolved Zinc (Zn)	2016/11/08		100	%	80 - 120
4738302	MLB	Method Blank	Dissolved Aluminum (Al)	2016/11/08	<5.0		ug/L	
			Dissolved Antimony (Sb)	2016/11/08	<1.0		ug/L	
			Dissolved Arsenic (As)	2016/11/08	<1.0		ug/L	
			Dissolved Barium (Ba)	2016/11/08	<1.0		ug/L	
			Dissolved Beryllium (Be)	2016/11/08	<1.0		ug/L	
			Dissolved Bismuth (Bi)	2016/11/08	<2.0		ug/L	
			Dissolved Boron (B)	2016/11/08	<50		ug/L	
			Dissolved Cadmium (Cd)	2016/11/08	<0.010		ug/L	
			Dissolved Calcium (Ca)	2016/11/08	<100		ug/L	
			Dissolved Chromium (Cr)	2016/11/08	<1.0		ug/L	
			Dissolved Cobalt (Co)	2016/11/08	<0.40		ug/L	
			Dissolved Copper (Cu)	2016/11/08	<2.0		ug/L	
			Dissolved Iron (Fe)	2016/11/08	<50		ug/L	
			Dissolved Lead (Pb)	2016/11/08	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2016/11/08	<100		ug/L	

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				Dissolved Manganese (Mn)	2016/11/08	<2.0		ug/L	
				Dissolved Molybdenum (Mo)	2016/11/08	<2.0		ug/L	
				Dissolved Nickel (Ni)	2016/11/08	<2.0		ug/L	
				Dissolved Phosphorus (P)	2016/11/08	<100		ug/L	
				Dissolved Potassium (K)	2016/11/08	<100		ug/L	
				Dissolved Selenium (Se)	2016/11/08	<1.0		ug/L	
				Dissolved Silver (Ag)	2016/11/08	<0.10		ug/L	
				Dissolved Sodium (Na)	2016/11/08	<100		ug/L	
				Dissolved Strontium (Sr)	2016/11/08	<2.0		ug/L	
				Dissolved Thallium (Tl)	2016/11/08	<0.10		ug/L	
				Dissolved Tin (Sn)	2016/11/08	<2.0		ug/L	
				Dissolved Titanium (Ti)	2016/11/08	<2.0		ug/L	
				Dissolved Uranium (U)	2016/11/08	<0.10		ug/L	
				Dissolved Vanadium (V)	2016/11/08	<2.0		ug/L	
				Dissolved Zinc (Zn)	2016/11/08	<5.0		ug/L	
4738302	MLB		RPD - Sample/Sample Dup	Dissolved Aluminum (Al)	2016/11/08	0.44		%	20
				Dissolved Antimony (Sb)	2016/11/08	NC		%	20
				Dissolved Arsenic (As)	2016/11/08	NC		%	20
				Dissolved Barium (Ba)	2016/11/08	1.9		%	20
				Dissolved Beryllium (Be)	2016/11/08	NC		%	20
				Dissolved Bismuth (Bi)	2016/11/08	NC		%	20
				Dissolved Boron (B)	2016/11/08	NC		%	20
				Dissolved Cadmium (Cd)	2016/11/08	1.3		%	20
				Dissolved Calcium (Ca)	2016/11/08	2.1		%	20
				Dissolved Chromium (Cr)	2016/11/08	NC		%	20
				Dissolved Cobalt (Co)	2016/11/08	NC		%	20
				Dissolved Copper (Cu)	2016/11/08	NC		%	20
				Dissolved Iron (Fe)	2016/11/08	NC		%	20
				Dissolved Lead (Pb)	2016/11/08	NC		%	20
				Dissolved Magnesium (Mg)	2016/11/08	0.14		%	20
				Dissolved Manganese (Mn)	2016/11/08	2.0		%	20
				Dissolved Molybdenum (Mo)	2016/11/08	NC		%	20
				Dissolved Nickel (Ni)	2016/11/08	NC		%	20
				Dissolved Phosphorus (P)	2016/11/08	NC		%	20
				Dissolved Potassium (K)	2016/11/08	4.7		%	20
				Dissolved Selenium (Se)	2016/11/08	NC		%	20
				Dissolved Silver (Ag)	2016/11/08	NC		%	20
				Dissolved Sodium (Na)	2016/11/08	0.21		%	20
				Dissolved Strontium (Sr)	2016/11/08	2.4		%	20
				Dissolved Thallium (Tl)	2016/11/08	NC		%	20
				Dissolved Tin (Sn)	2016/11/08	NC		%	20
				Dissolved Titanium (Ti)	2016/11/08	NC		%	20
				Dissolved Uranium (U)	2016/11/08	NC		%	20
				Dissolved Vanadium (V)	2016/11/08	NC		%	20
				Dissolved Zinc (Zn)	2016/11/08	NC		%	20
4738315	MLB		Matrix Spike	Dissolved Aluminum (Al)	2016/11/08		103	%	80 - 120
				Dissolved Antimony (Sb)	2016/11/08		97	%	80 - 120
				Dissolved Arsenic (As)	2016/11/08		95	%	80 - 120
				Dissolved Barium (Ba)	2016/11/08		95	%	80 - 120
				Dissolved Beryllium (Be)	2016/11/08		93	%	80 - 120
				Dissolved Bismuth (Bi)	2016/11/08		98	%	80 - 120
				Dissolved Boron (B)	2016/11/08		94	%	80 - 120

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Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
4738315	MLB	Spiked Blank	Dissolved Cadmium (Cd)	2016/11/08		97	%	80 - 120
			Dissolved Calcium (Ca)	2016/11/08		NC	%	80 - 120
			Dissolved Chromium (Cr)	2016/11/08		95	%	80 - 120
			Dissolved Cobalt (Co)	2016/11/08		95	%	80 - 120
			Dissolved Copper (Cu)	2016/11/08		93	%	80 - 120
			Dissolved Iron (Fe)	2016/11/08		98	%	80 - 120
			Dissolved Lead (Pb)	2016/11/08		96	%	80 - 120
			Dissolved Magnesium (Mg)	2016/11/08		102	%	80 - 120
			Dissolved Manganese (Mn)	2016/11/08		NC	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/11/08		100	%	80 - 120
			Dissolved Nickel (Ni)	2016/11/08		95	%	80 - 120
			Dissolved Phosphorus (P)	2016/11/08		106	%	80 - 120
			Dissolved Potassium (K)	2016/11/08		103	%	80 - 120
			Dissolved Selenium (Se)	2016/11/08		100	%	80 - 120
			Dissolved Silver (Ag)	2016/11/08		92	%	80 - 120
			Dissolved Sodium (Na)	2016/11/08		98	%	80 - 120
			Dissolved Strontium (Sr)	2016/11/08		NC	%	80 - 120
			Dissolved Thallium (Tl)	2016/11/08		100	%	80 - 120
			Dissolved Tin (Sn)	2016/11/08		103	%	80 - 120
			Dissolved Titanium (Ti)	2016/11/08		100	%	80 - 120
			Dissolved Uranium (U)	2016/11/08		101	%	80 - 120
			Dissolved Vanadium (V)	2016/11/08		96	%	80 - 120
			Dissolved Zinc (Zn)	2016/11/08		NC	%	80 - 120
			Dissolved Aluminum (Al)	2016/11/08		107	%	80 - 120
			Dissolved Antimony (Sb)	2016/11/08		97	%	80 - 120
			Dissolved Arsenic (As)	2016/11/08		97	%	80 - 120
			Dissolved Barium (Ba)	2016/11/08		97	%	80 - 120
			Dissolved Beryllium (Be)	2016/11/08		96	%	80 - 120
			Dissolved Bismuth (Bi)	2016/11/08		99	%	80 - 120
			Dissolved Boron (B)	2016/11/08		96	%	80 - 120
			Dissolved Cadmium (Cd)	2016/11/08		100	%	80 - 120
			Dissolved Calcium (Ca)	2016/11/08		103	%	80 - 120
			Dissolved Chromium (Cr)	2016/11/08		98	%	80 - 120
			Dissolved Cobalt (Co)	2016/11/08		98	%	80 - 120
			Dissolved Copper (Cu)	2016/11/08		96	%	80 - 120
			Dissolved Iron (Fe)	2016/11/08		101	%	80 - 120
			Dissolved Lead (Pb)	2016/11/08		98	%	80 - 120
			Dissolved Magnesium (Mg)	2016/11/08		105	%	80 - 120
			Dissolved Manganese (Mn)	2016/11/08		100	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/11/08		99	%	80 - 120
			Dissolved Nickel (Ni)	2016/11/08		99	%	80 - 120
			Dissolved Phosphorus (P)	2016/11/08		105	%	80 - 120
			Dissolved Potassium (K)	2016/11/08		104	%	80 - 120
			Dissolved Selenium (Se)	2016/11/08		98	%	80 - 120
			Dissolved Silver (Ag)	2016/11/08		97	%	80 - 120
			Dissolved Sodium (Na)	2016/11/08		101	%	80 - 120
			Dissolved Strontium (Sr)	2016/11/08		99	%	80 - 120
			Dissolved Thallium (Tl)	2016/11/08		100	%	80 - 120
			Dissolved Tin (Sn)	2016/11/08		100	%	80 - 120
			Dissolved Titanium (Ti)	2016/11/08		104	%	80 - 120
			Dissolved Uranium (U)	2016/11/08		101	%	80 - 120
			Dissolved Vanadium (V)	2016/11/08		99	%	80 - 120

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Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: AS

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4738315	MLB	Method Blank	Dissolved Zinc (Zn)	2016/11/08		99	%	80 - 120
			Dissolved Aluminum (Al)	2016/11/08	<5.0		ug/L	
			Dissolved Antimony (Sb)	2016/11/08	<1.0		ug/L	
			Dissolved Arsenic (As)	2016/11/08	<1.0		ug/L	
			Dissolved Barium (Ba)	2016/11/08	<1.0		ug/L	
			Dissolved Beryllium (Be)	2016/11/08	<1.0		ug/L	
			Dissolved Bismuth (Bi)	2016/11/08	<2.0		ug/L	
			Dissolved Boron (B)	2016/11/08	<50		ug/L	
			Dissolved Cadmium (Cd)	2016/11/08	0.017, RDL=0.010		ug/L	
			Dissolved Calcium (Ca)	2016/11/08	<100		ug/L	
			Dissolved Chromium (Cr)	2016/11/08	<1.0		ug/L	
			Dissolved Cobalt (Co)	2016/11/08	<0.40		ug/L	
			Dissolved Copper (Cu)	2016/11/08	<2.0		ug/L	
			Dissolved Iron (Fe)	2016/11/08	<50		ug/L	
			Dissolved Lead (Pb)	2016/11/08	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2016/11/08	<100		ug/L	
			Dissolved Manganese (Mn)	2016/11/08	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2016/11/08	<2.0		ug/L	
			Dissolved Nickel (Ni)	2016/11/08	<2.0		ug/L	
			Dissolved Phosphorus (P)	2016/11/08	<100		ug/L	
			Dissolved Potassium (K)	2016/11/08	<100		ug/L	
			Dissolved Selenium (Se)	2016/11/08	<1.0		ug/L	
			Dissolved Silver (Ag)	2016/11/08	<0.10		ug/L	
			Dissolved Sodium (Na)	2016/11/08	<100		ug/L	
			Dissolved Strontium (Sr)	2016/11/08	<2.0		ug/L	
			Dissolved Thallium (Tl)	2016/11/08	<0.10		ug/L	
			Dissolved Tin (Sn)	2016/11/08	<2.0		ug/L	
			Dissolved Titanium (Ti)	2016/11/08	<2.0		ug/L	
			Dissolved Uranium (U)	2016/11/08	<0.10		ug/L	
			Dissolved Vanadium (V)	2016/11/08	<2.0		ug/L	
			Dissolved Zinc (Zn)	2016/11/08	<5.0		ug/L	
4738315	MLB	RPD - Sample/Sample Dup	Dissolved Aluminum (Al)	2016/11/08	0.31		%	20
			Dissolved Antimony (Sb)	2016/11/08	NC		%	20
			Dissolved Arsenic (As)	2016/11/08	NC		%	20
			Dissolved Barium (Ba)	2016/11/08	NC		%	20
			Dissolved Beryllium (Be)	2016/11/08	NC		%	20
			Dissolved Bismuth (Bi)	2016/11/08	NC		%	20
			Dissolved Boron (B)	2016/11/08	NC		%	20
			Dissolved Cadmium (Cd)	2016/11/08	0.49		%	20
			Dissolved Calcium (Ca)	2016/11/08	1.3		%	20
			Dissolved Chromium (Cr)	2016/11/08	NC		%	20
			Dissolved Cobalt (Co)	2016/11/08	NC		%	20
			Dissolved Copper (Cu)	2016/11/08	NC		%	20
			Dissolved Iron (Fe)	2016/11/08	NC		%	20
			Dissolved Lead (Pb)	2016/11/08	NC		%	20
			Dissolved Magnesium (Mg)	2016/11/08	1.1		%	20
			Dissolved Manganese (Mn)	2016/11/08	3.7		%	20
			Dissolved Molybdenum (Mo)	2016/11/08	NC		%	20
			Dissolved Nickel (Ni)	2016/11/08	NC		%	20
			Dissolved Phosphorus (P)	2016/11/08	NC		%	20
			Dissolved Potassium (K)	2016/11/08	2.6		%	20

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Englobe Corp.  
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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Dissolved Selenium (Se)	2016/11/08	NC		%	20
			Dissolved Silver (Ag)	2016/11/08	NC		%	20
			Dissolved Sodium (Na)	2016/11/08	2.3		%	20
			Dissolved Strontium (Sr)	2016/11/08	2.6		%	20
			Dissolved Thallium (Tl)	2016/11/08	NC		%	20
			Dissolved Tin (Sn)	2016/11/08	NC		%	20
			Dissolved Titanium (Ti)	2016/11/08	NC		%	20
			Dissolved Uranium (U)	2016/11/08	2.4		%	20
			Dissolved Vanadium (V)	2016/11/08	NC		%	20
			Dissolved Zinc (Zn)	2016/11/08	1.5		%	20
4738394	MLB	Matrix Spike(DJO100)	Total Lead (Pb)	2016/11/09		102	%	80 - 120
4738394	MLB	Spiked Blank	Total Lead (Pb)	2016/11/08		101	%	80 - 120
4738394	MLB	Method Blank	Total Lead (Pb)	2016/11/08	<0.50		ug/L	
4738394	MLB	RPD - Sample/Sample Dup	Total Lead (Pb)	2016/11/09	NC		%	20
4739997	BAN	Matrix Spike(DJO106)	Total Lead (Pb)	2016/11/10		97	%	80 - 120
4739997	BAN	Spiked Blank	Total Lead (Pb)	2016/11/10		92	%	80 - 120
4739997	BAN	Method Blank	Total Lead (Pb)	2016/11/10	<0.50		ug/L	
4739997	BAN	RPD - Sample/Sample Dup	Total Lead (Pb)	2016/11/10	NC		%	20
4740002	JMV	QC Standard	pH	2016/11/09		100	%	97 - 103
4740002	JMV	RPD - Sample/Sample Dup	pH	2016/11/09	1.6		%	N/A
4740003	JMV	Spiked Blank	Conductivity	2016/11/09		101	%	80 - 120
4740003	JMV	Method Blank	Conductivity	2016/11/09	1.5, RDL=1.0		uS/cm	
4740003	JMV	RPD - Sample/Sample Dup	Conductivity	2016/11/09	0.79		%	25
4740054	BAN	Matrix Spike	Dissolved Aluminum (Al)	2016/11/10		103	%	80 - 120
			Dissolved Antimony (Sb)	2016/11/10		102	%	80 - 120
			Dissolved Arsenic (As)	2016/11/10		97	%	80 - 120
			Dissolved Barium (Ba)	2016/11/10		96	%	80 - 120
			Dissolved Beryllium (Be)	2016/11/10		100	%	80 - 120
			Dissolved Bismuth (Bi)	2016/11/10		100	%	80 - 120
			Dissolved Boron (B)	2016/11/10		102	%	80 - 120
			Dissolved Cadmium (Cd)	2016/11/10		99	%	80 - 120
			Dissolved Calcium (Ca)	2016/11/10		103	%	80 - 120
			Dissolved Chromium (Cr)	2016/11/10		97	%	80 - 120
			Dissolved Cobalt (Co)	2016/11/10		98	%	80 - 120
			Dissolved Copper (Cu)	2016/11/10		95	%	80 - 120
			Dissolved Iron (Fe)	2016/11/10		99	%	80 - 120
			Dissolved Lead (Pb)	2016/11/10		98	%	80 - 120
			Dissolved Magnesium (Mg)	2016/11/10		102	%	80 - 120
			Dissolved Manganese (Mn)	2016/11/10		100	%	80 - 120
			Dissolved Molybdenum (Mo)	2016/11/10		102	%	80 - 120
			Dissolved Nickel (Ni)	2016/11/10		97	%	80 - 120
			Dissolved Phosphorus (P)	2016/11/10		104	%	80 - 120
			Dissolved Potassium (K)	2016/11/10		102	%	80 - 120
			Dissolved Selenium (Se)	2016/11/10		100	%	80 - 120
			Dissolved Silver (Ag)	2016/11/10		98	%	80 - 120
			Dissolved Sodium (Na)	2016/11/10		99	%	80 - 120
			Dissolved Strontium (Sr)	2016/11/10		101	%	80 - 120
			Dissolved Thallium (Tl)	2016/11/10		101	%	80 - 120
			Dissolved Tin (Sn)	2016/11/10		103	%	80 - 120
			Dissolved Titanium (Ti)	2016/11/10		103	%	80 - 120
			Dissolved Uranium (U)	2016/11/10		101	%	80 - 120



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Englobe Corp.  
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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4740054	BAN	Spiked Blank		Dissolved Vanadium (V)	2016/11/10		100	%	80 - 120
				Dissolved Zinc (Zn)	2016/11/10		99	%	80 - 120
				Dissolved Aluminum (Al)	2016/11/09		105	%	80 - 120
				Dissolved Antimony (Sb)	2016/11/09		97	%	80 - 120
				Dissolved Arsenic (As)	2016/11/09		96	%	80 - 120
				Dissolved Barium (Ba)	2016/11/09		100	%	80 - 120
				Dissolved Beryllium (Be)	2016/11/09		103	%	80 - 120
				Dissolved Bismuth (Bi)	2016/11/09		103	%	80 - 120
				Dissolved Boron (B)	2016/11/09		101	%	80 - 120
				Dissolved Cadmium (Cd)	2016/11/09		97	%	80 - 120
				Dissolved Calcium (Ca)	2016/11/09		101	%	80 - 120
				Dissolved Chromium (Cr)	2016/11/09		97	%	80 - 120
				Dissolved Cobalt (Co)	2016/11/09		97	%	80 - 120
				Dissolved Copper (Cu)	2016/11/09		94	%	80 - 120
				Dissolved Iron (Fe)	2016/11/09		99	%	80 - 120
				Dissolved Lead (Pb)	2016/11/09		100	%	80 - 120
				Dissolved Magnesium (Mg)	2016/11/09		100	%	80 - 120
				Dissolved Manganese (Mn)	2016/11/09		98	%	80 - 120
				Dissolved Molybdenum (Mo)	2016/11/09		98	%	80 - 120
				Dissolved Nickel (Ni)	2016/11/09		96	%	80 - 120
				Dissolved Phosphorus (P)	2016/11/09		106	%	80 - 120
				Dissolved Potassium (K)	2016/11/09		106	%	80 - 120
				Dissolved Selenium (Se)	2016/11/09		96	%	80 - 120
				Dissolved Silver (Ag)	2016/11/09		93	%	80 - 120
				Dissolved Sodium (Na)	2016/11/09		97	%	80 - 120
				Dissolved Strontium (Sr)	2016/11/09		100	%	80 - 120
				Dissolved Thallium (Tl)	2016/11/09		103	%	80 - 120
				Dissolved Tin (Sn)	2016/11/09		102	%	80 - 120
				Dissolved Titanium (Ti)	2016/11/09		100	%	80 - 120
				Dissolved Uranium (U)	2016/11/09		103	%	80 - 120
				Dissolved Vanadium (V)	2016/11/09		96	%	80 - 120
				Dissolved Zinc (Zn)	2016/11/09		97	%	80 - 120
4740054	BAN	Method Blank		Dissolved Aluminum (Al)	2016/11/09	<5.0		ug/L	
				Dissolved Antimony (Sb)	2016/11/09	<1.0		ug/L	
				Dissolved Arsenic (As)	2016/11/09	<1.0		ug/L	
				Dissolved Barium (Ba)	2016/11/09	<1.0		ug/L	
				Dissolved Beryllium (Be)	2016/11/09	<1.0		ug/L	
				Dissolved Bismuth (Bi)	2016/11/09	<2.0		ug/L	
				Dissolved Boron (B)	2016/11/09	<50		ug/L	
				Dissolved Cadmium (Cd)	2016/11/09	<0.010		ug/L	
				Dissolved Calcium (Ca)	2016/11/09	<100		ug/L	
				Dissolved Chromium (Cr)	2016/11/09	<1.0		ug/L	
				Dissolved Cobalt (Co)	2016/11/09	<0.40		ug/L	
				Dissolved Copper (Cu)	2016/11/09	<2.0		ug/L	
				Dissolved Iron (Fe)	2016/11/09	<50		ug/L	
				Dissolved Lead (Pb)	2016/11/09	<0.50		ug/L	
				Dissolved Magnesium (Mg)	2016/11/09	<100		ug/L	
				Dissolved Manganese (Mn)	2016/11/09	<2.0		ug/L	
				Dissolved Molybdenum (Mo)	2016/11/09	<2.0		ug/L	
				Dissolved Nickel (Ni)	2016/11/09	<2.0		ug/L	
				Dissolved Phosphorus (P)	2016/11/09	<100		ug/L	
				Dissolved Potassium (K)	2016/11/09	<100		ug/L	



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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC				Date		%		
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Selenium (Se)	2016/11/09	<1.0		ug/L	
			Dissolved Silver (Ag)	2016/11/09	<0.10		ug/L	
			Dissolved Sodium (Na)	2016/11/09	<100		ug/L	
			Dissolved Strontium (Sr)	2016/11/09	<2.0		ug/L	
			Dissolved Thallium (Tl)	2016/11/09	<0.10		ug/L	
			Dissolved Tin (Sn)	2016/11/09	<2.0		ug/L	
			Dissolved Titanium (Ti)	2016/11/09	<2.0		ug/L	
			Dissolved Uranium (U)	2016/11/09	<0.10		ug/L	
			Dissolved Vanadium (V)	2016/11/09	<2.0		ug/L	
			Dissolved Zinc (Zn)	2016/11/09	<5.0		ug/L	
4740054	BAN	RPD - Sample/Sample Dup	Dissolved Aluminum (Al)	2016/11/10	NC		%	20
			Dissolved Antimony (Sb)	2016/11/10	NC		%	20
			Dissolved Arsenic (As)	2016/11/10	NC		%	20
			Dissolved Barium (Ba)	2016/11/10	NC		%	20
			Dissolved Beryllium (Be)	2016/11/10	NC		%	20
			Dissolved Boron (B)	2016/11/10	NC		%	20
			Dissolved Cadmium (Cd)	2016/11/10	NC		%	20
			Dissolved Chromium (Cr)	2016/11/10	NC		%	20
			Dissolved Cobalt (Co)	2016/11/10	NC		%	20
			Dissolved Copper (Cu)	2016/11/10	NC		%	20
			Dissolved Iron (Fe)	2016/11/10	NC		%	20
			Dissolved Lead (Pb)	2016/11/10	NC		%	20
			Dissolved Manganese (Mn)	2016/11/10	NC		%	20
			Dissolved Molybdenum (Mo)	2016/11/10	NC		%	20
			Dissolved Nickel (Ni)	2016/11/10	NC		%	20
			Dissolved Selenium (Se)	2016/11/10	NC		%	20
			Dissolved Silver (Ag)	2016/11/10	NC		%	20
			Dissolved Strontium (Sr)	2016/11/10	NC		%	20
			Dissolved Thallium (Tl)	2016/11/10	NC		%	20
			Dissolved Tin (Sn)	2016/11/10	NC		%	20
			Dissolved Uranium (U)	2016/11/10	NC		%	20
			Dissolved Vanadium (V)	2016/11/10	NC		%	20
			Dissolved Zinc (Zn)	2016/11/10	NC		%	20
4740256	SMT	Matrix Spike	Total Organic Carbon (C)	2016/11/09		88	%	80 - 120
4740256	SMT	Spiked Blank	Total Organic Carbon (C)	2016/11/09		99	%	80 - 120
4740256	SMT	Method Blank	Total Organic Carbon (C)	2016/11/09	<0.50		mg/L	
4740256	SMT	RPD - Sample/Sample Dup	Total Organic Carbon (C)	2016/11/09	2.3		%	20
4742388	BAN	Matrix Spike	Total Lead (Pb)	2016/11/11		99	%	80 - 120
4742388	BAN	Spiked Blank	Total Lead (Pb)	2016/11/11		112	%	80 - 120
4742388	BAN	Method Blank	Total Lead (Pb)	2016/11/11	<0.50		ug/L	

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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC				Date		%		
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
4742388	BAN	RPD - Sample/Sample Dup	Total Lead (Pb)	2016/11/11	NC		%	20
<p>N/A = Not Applicable</p> <p>Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.</p> <p>QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.</p> <p>Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.</p> <p>Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.</p> <p>NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).</p> <p>NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples &lt; 5x RDL).</p>								

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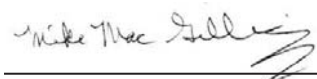
Englobe Corp.  
Client Project #: P-0010903-0-00-205  
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### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Kevin MacDonald, Inorganics Supervisor



Mike MacGillivray, Scientific Specialist (Inorganics)

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

**Maxxam**  
200 Bluewater Road, Bedford, Nova Scotia Canada B4B 1G9 Tel: (902) 420-0203 Toll-free 800-593-6265 Fax: (902) 420-0812 www.maxxam.ca

**INVOICE TO:**

Company Name: #41009 Englobe Corp.  
Contact Name: Accounts Payable  
Address: 97 Troop Ave  
Dartmouth NS B3B 2A7  
Phone: (902) 468-6486 Fax: (902) 468-4919  
Email: Dartmouth.AP@englobecorp.com

**Report Information**

Company Name: Aven Cole/Lisa L  
Contact Name: Aven Cole/Lisa L  
Address: (902) 468-6486 Fax: (902) 468-4919  
Email: Aven.Cole@englobecorp.com

**Chain Of Custody Record**

Project Information: Quotation # B61795, P.O. # A 06392, Project # P-0010903-0-00-205, Project Name LAKE GEORGE, Sampled By AS/LL

Laboratory Use Only: Maxxam Job # B6N8782, Bottle Order #: 553333, Chain Of Custody Record, Project Manager, Avery Wierow

**Regulatory Criteria**

Special Instructions: \*\* Specify Matrix: Surface/Ground Water/Soil/Sediment/Sludge/Solid/Portable/Non-portable/Tissue/Soil/Sediment/Sludge

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM									
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered & Preserved	Lab Filtration Required	RCAP-MS Dissolved (Field Filtr.) in W	Mercury - Total (CVAA,LL)	Total Lead
1 SID#326284	MW6D	11/1/16	11h15	GW			X	X	X
2 SID#326285	MW7		11h15				X	X	X
3 SID#326286	MW8		10h00				X	X	X
4 SID#326287	MW9		10h15				X	X	X
5 SID#326288	MW10		12h10				X	X	X
6 SID#326289	MW11		12h15				X	X	X
7 SID#326290	MW12		11h25				X	X	X
8 SID#326291	MW-DUP						X	X	X
9									
10									

**RECEIVED BY: (Signature/Print)** *[Signature]* **Time** 15h40 **Date: (YY/MM/DD)** 16/11/2

**RELINQUISHED BY: (Signature/Print)** *[Signature]* **Time** 15h40 **Date: (YY/MM/DD)** 16/11/2

**Lab Use Only**

Temperature (°C) on Receipt: 34.4 / 7.65  
Custody Seal Intact on Cooler? ☒ Yes ☐ No  
Time Sampled: ☐ Time Received: ☐  
Turnaround Time (TAT) Required: ☐ Rush TAT (if applies to entire submission)  
Job Specific Rush TAT (if applies to entire submission)  
Date Required: ☐  
Comments / Hazards / Other Required Analysis: ☐  
# of Bottles: ☐  
Regular (Standard) TAT: ☒ (will be applied if Rush TAT is not specified)  
Standard TAT = 5-7 Working days for most tests.  
Please note: Standard TAT for certain tests such as BOD and Chemical Oxygen Demand are > 7 days - contact your Project Manager for details.  
2016 NOV 2 15:45

**IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.**

Maxxam Analytics International Corporation c/o Maxxam Analytics



**maxxam**  
Maxxam Analytics International Corporation  
200 Bluewater Road, Bedford, Nova Scotia Canada B4B 1G9 Tel: (902) 420-4203 Toll-free 800-563-6266 Fax: (902) 420-4612 www.maxxam.ca

**INVOICE TO:**

Company Name: #41009: Englobe Corp.  
Contact Name: Accounts Payable  
Address: 97 Troop Ave  
Dartmouth NS B3B 2A7  
Phone: (902) 468-5486 Fax: (902) 468-4919  
Email: Dartmouth AP@englobecorp.com

**Report Information**

Company Name: Aven Cole/Lisa L.  
Contact Name: Aven Cole/Lisa L.  
Address: (902) 468-5486 Fax: (902) 468-4919  
Email: Aven.Cole@englobecorp.com

**Chain Of Custody Record**

Project Information

Qualification # BB1785  
P.O. # A 06392  
Project # P-0010903-0-00-205  
Project Name LAKE GEORGE  
Site # AS/LL  
Scripted By

Laboratory Use Only

Maxxam Job # B6N8782  
Barcode: 583333  
Chain Of Custody Record  
Barcode: 06583333-01-01  
Project Manager  
Barcode: 06583333-01-01  
Avery Withrow

**Regulatory Criteria**

Regulatory Criteria: Surface Groundwater/Sewage Effluent/Sewerage  
Potable/Non-potable/Tissue/Soil/Sediment/Metal

**Special Instructions**

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required: ☒ Regular (Standard) TAT: (will be applied if Rush TAT is not specified)  
Standard TAT = 5-7 Working days for most tests.  
Please note: Standard TAT for certain tests such as BOD and Dissolved Oxygen are > 5 days - contact your Project Manager for details.  
☐ Job Specific Rush TAT (if applies to entire submission)  
Date Required:

Comments / Hazards / Other Required Analysis

Sample Barcodes Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtration Required	Lab Filtration Required	RCAP-MS Dissolved (Field Filtr.) in W	Mercury - Total (CVAA,LL)	Total Lead
1	MW1S	11/11/16	12h00	GW	X	X	X	X	X
2	MW1D		12h00		X	X	X	X	X
3	MW2S		11h40		X	X	X	X	X
4	MW2D		11h35		X	X	X	X	X
5	MW3S		10h30		X	X	X	X	X
6	MW3D		10h45		X	X	X	X	X
7	MW4S		12h35		X	X	X	X	X
8	MW4D		12h30		X	X	X	X	X
9	MW5S		12h05		X	X	X	X	X
10	MW6S		11h10		X	X	X	X	X

**RECEIVED BY: (Signature/Print)** *[Signature]* **DATE: (YY/MM/DD)** 16/11/16 **TIME: (HH:MM)** 15h40

**RELINQUISHED BY: (Signature/Print)** *[Signature]* **DATE: (YY/MM/DD)** 16/11/16 **TIME: (HH:MM)** 15h40

**TEMPERATURE (°C) ON RECEIPT** 5.4, 4.7, 16.5

**CUSTODY SEAL INTACT ON COOLER?** ☐ Yes ☒ No

**Yellow Check** 14.5

Your P.O. #: A 06392  
Your Project #: P-0010903-0-00-205  
Site#: LAKE GEORGE  
Your C.O.C. #: 583338-01-01

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

**Report Date: 2016/11/10**

Report #: R4242492

Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B6N8892**

**Received: 2016/11/02, 15:45**

Sample Matrix: Water  
# Samples Received: 1

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Carbonate, Bicarbonate and Hydroxide	1	N/A	2016/11/08	N/A	SM 22 4500-CO2 D
Alkalinity	1	N/A	2016/11/08	ATL SOP 00013	EPA 310.2 R1974 m
Chloride	1	N/A	2016/11/08	ATL SOP 00014	SM 22 4500-Cl- E m
Colour	1	N/A	2016/11/08	ATL SOP 00020	SM 22 2120C m
Conductance - water	1	N/A	2016/11/08	ATL SOP 00004	SM 22 2510B m
Hardness (calculated as CaCO3)	1	N/A	2016/11/10	ATL SOP 00048	SM 22 2340 B
Metals Water Total MS	1	2016/11/09	2016/11/10	ATL SOP 00058	EPA 6020A R1 m
Ion Balance (% Difference)	1	N/A	2016/11/10	N/A	Auto Calc.
Anion and Cation Sum	1	N/A	2016/11/10	N/A	Auto Calc.
Nitrogen Ammonia - water	1	N/A	2016/11/08	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite	1	N/A	2016/11/09	ATL SOP 00016	USGS SOPINCF0452.2 m
Nitrogen - Nitrite	1	N/A	2016/11/09	ATL SOP 00017	SM 22 4500-NO2- B m
Nitrogen - Nitrate (as N)	1	N/A	2016/11/09	ATL SOP 00018	ASTM D3867-16
pH (1)	1	N/A	2016/11/08	ATL SOP 00003	SM 22 4500-H+ B m
Phosphorus - ortho	1	N/A	2016/11/08	ATL SOP 00021	EPA 365.2 m
Sat. pH and Langelier Index (@ 20C)	1	N/A	2016/11/10	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	1	N/A	2016/11/10	ATL SOP 00049	Auto Calc.
Reactive Silica	1	N/A	2016/11/08	ATL SOP 00022	EPA 366.0 m
Sulphate	1	N/A	2016/11/08	ATL SOP 00023	ASTMD516-11 m
Total Dissolved Solids (TDS calc)	1	N/A	2016/11/10	N/A	Auto Calc.
Organic carbon - Total (TOC) (2)	1	N/A	2016/11/09	ATL SOP 00037	SM 22 5310C m
Turbidity	1	N/A	2016/11/08	ATL SOP 00011	EPA 180.1 R2 m

**Remarks:**

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported: unless indicated otherwise, associated sample data are not blank corrected.



Your P.O. #: A 06392  
Your Project #: P-0010903-0-00-205  
Site#: LAKE GEORGE  
Your C.O.C. #: 583338-01-01

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

**Report Date: 2016/11/10**

Report #: R4242492

Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B6N8892**

**Received: 2016/11/02, 15:45**

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods. Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The APHA Standard Method require pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.

(2) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Encryption Key



Maxxam  
10 Nov 2016 16:18:30 -04:00

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Avery Withrow, Project Manager

Email: AWithrow@maxxam.ca

Phone# (902)420-0203 Ext:233

=====

This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B6N8892  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: LL

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

<b>Maxxam ID</b>		DJO603			
<b>Sampling Date</b>		2016/10/31 14:00			
<b>COC Number</b>		583338-01-01			
	<b>UNITS</b>	<b>PW8</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Calculated Parameters</b>					
Anion Sum	me/L	2.62	N/A	4732173	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	65	1.0	4732171	0.20
Calculated TDS	mg/L	160	1.0	4732181	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4732171	0.20
Cation Sum	me/L	2.53	N/A	4732173	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	84	1.0	4731970	1.0
Ion Balance (% Difference)	%	1.75	N/A	4732172	N/A
Langelier Index (@ 20C)	N/A	-0.720		4732179	
Langelier Index (@ 4C)	N/A	-0.970		4732180	
Nitrate (N)	mg/L	<0.050	0.050	4731895	N/A
Saturation pH (@ 20C)	N/A	8.16		4732179	
Saturation pH (@ 4C)	N/A	8.41		4732180	
<b>Inorganics</b>					
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	65	5.0	4738082	N/A
Dissolved Chloride (Cl)	mg/L	40	1.0	4738083	N/A
Colour	TCU	<5.0	5.0	4738087	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4738090	N/A
Nitrite (N)	mg/L	<0.010	0.010	4738091	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	0.052	0.050	4736497	N/A
Total Organic Carbon (C)	mg/L	0.54	0.50	4740256	N/A
Orthophosphate (P)	mg/L	0.020	0.010	4738088	N/A
pH	pH	7.44	N/A	4738012	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	22	0.50	4738086	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	9.3	2.0	4738085	N/A
Turbidity	NTU	14	0.10	4738096	0.10
Conductivity	uS/cm	270	1.0	4738013	N/A
<b>Metals</b>					
Total Aluminum (Al)	ug/L	6.7	5.0	4739997	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4739997	N/A
Total Arsenic (As)	ug/L	1.8	1.0	4739997	N/A
Total Barium (Ba)	ug/L	17	1.0	4739997	N/A
Total Beryllium (Be)	ug/L	<1.0	1.0	4739997	N/A
Total Bismuth (Bi)	ug/L	<2.0	2.0	4739997	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable					

Maxxam Job #: B6N8892  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: LL

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

<b>Maxxam ID</b>		DJO603			
<b>Sampling Date</b>		2016/10/31 14:00			
<b>COC Number</b>		583338-01-01			
	<b>UNITS</b>	<b>PW8</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
Total Boron (B)	ug/L	<50	50	4739997	N/A
Total Cadmium (Cd)	ug/L	<0.010	0.010	4739997	N/A
Total Calcium (Ca)	ug/L	25000	100	4739997	N/A
Total Chromium (Cr)	ug/L	<1.0	1.0	4739997	N/A
Total Cobalt (Co)	ug/L	<0.40	0.40	4739997	N/A
Total Copper (Cu)	ug/L	<2.0	2.0	4739997	N/A
Total Iron (Fe)	ug/L	1600	50	4739997	N/A
Total Lead (Pb)	ug/L	<0.50	0.50	4739997	N/A
Total Magnesium (Mg)	ug/L	5400	100	4739997	N/A
Total Manganese (Mn)	ug/L	280	2.0	4739997	N/A
Total Molybdenum (Mo)	ug/L	<2.0	2.0	4739997	N/A
Total Nickel (Ni)	ug/L	<2.0	2.0	4739997	N/A
Total Phosphorus (P)	ug/L	<100	100	4739997	N/A
Total Potassium (K)	ug/L	1600	100	4739997	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	4739997	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	4739997	N/A
Total Sodium (Na)	ug/L	17000	100	4739997	N/A
Total Strontium (Sr)	ug/L	150	2.0	4739997	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4739997	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	4739997	N/A
Total Titanium (Ti)	ug/L	<2.0	2.0	4739997	N/A
Total Uranium (U)	ug/L	<0.10	0.10	4739997	N/A
Total Vanadium (V)	ug/L	<2.0	2.0	4739997	N/A
Total Zinc (Zn)	ug/L	<5.0	5.0	4739997	N/A
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
N/A = Not Applicable					

Maxxam Job #: B6N8892  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** DJO603  
**Sample ID:** PW8  
**Matrix:** Water

**Collected:** 2016/10/31  
**Shipped:**  
**Received:** 2016/11/02

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4732171	N/A	2016/11/08	Automated Statchk
Alkalinity	KONE	4738082	N/A	2016/11/08	Nancy Rogers
Chloride	KONE	4738083	N/A	2016/11/08	Nancy Rogers
Colour	KONE	4738087	N/A	2016/11/08	Nancy Rogers
Conductance - water	AT	4738013	N/A	2016/11/08	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4731970	N/A	2016/11/10	Automated Statchk
Metals Water Total MS	CICP/MS	4739997	2016/11/09	2016/11/10	Bryon Angevine
Ion Balance (% Difference)	CALC	4732172	N/A	2016/11/10	Automated Statchk
Anion and Cation Sum	CALC	4732173	N/A	2016/11/10	Automated Statchk
Nitrogen Ammonia - water	KONE	4736497	N/A	2016/11/08	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4738090	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrite	KONE	4738091	N/A	2016/11/09	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4731895	N/A	2016/11/09	Automated Statchk
pH	AT	4738012	N/A	2016/11/08	Julia McGovern
Phosphorus - ortho	KONE	4738088	N/A	2016/11/08	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4732179	N/A	2016/11/10	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4732180	N/A	2016/11/10	Automated Statchk
Reactive Silica	KONE	4738086	N/A	2016/11/08	Nancy Rogers
Sulphate	KONE	4738085	N/A	2016/11/08	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4732181	N/A	2016/11/10	Automated Statchk
Organic carbon - Total (TOC)	TECH	4740256	N/A	2016/11/09	Soraya Merchant
Turbidity	TURB	4738096	N/A	2016/11/08	Julia McGovern

Maxxam Job #: B6N8892  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: LL

### GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	4.3°C
Package 2	6.0°C
Package 3	5.3°C

**Results relate only to the items tested.**

Maxxam Job #: B6N8892  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4736497	MCN	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2016/11/09		104	%	80 - 120
4736497	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2016/11/09		106	%	80 - 120
4736497	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2016/11/09	<0.050		mg/L	
4736497	MCN	RPD - Sample/Sample Dup	Nitrogen (Ammonia Nitrogen)	2016/11/09	NC		%	20
4738012	JMV	QC Standard	pH	2016/11/08		100	%	97 - 103
4738012	JMV	RPD - Sample/Sample Dup	pH	2016/11/08	1.6		%	N/A
4738013	JMV	Spiked Blank	Conductivity	2016/11/08		100	%	80 - 120
4738013	JMV	Method Blank	Conductivity	2016/11/08	1.4, RDL=1.0		uS/cm	
4738013	JMV	RPD - Sample/Sample Dup	Conductivity	2016/11/08	0.089		%	25
4738082	NRG	Matrix Spike	Total Alkalinity (Total as CaCO3)	2016/11/08		NC	%	80 - 120
4738082	NRG	Spiked Blank	Total Alkalinity (Total as CaCO3)	2016/11/08		107	%	80 - 120
4738082	NRG	Method Blank	Total Alkalinity (Total as CaCO3)	2016/11/08	<5.0		mg/L	
4738082	NRG	RPD - Sample/Sample Dup	Total Alkalinity (Total as CaCO3)	2016/11/08	2.0		%	25
4738083	NRG	Matrix Spike	Dissolved Chloride (Cl)	2016/11/08		NC	%	80 - 120
4738083	NRG	QC Standard	Dissolved Chloride (Cl)	2016/11/08		105	%	80 - 120
4738083	NRG	Spiked Blank	Dissolved Chloride (Cl)	2016/11/08		105	%	80 - 120
4738083	NRG	Method Blank	Dissolved Chloride (Cl)	2016/11/08	1.1, RDL=1.0		mg/L	
4738083	NRG	RPD - Sample/Sample Dup	Dissolved Chloride (Cl)	2016/11/08	2.8		%	25
4738085	NRG	Matrix Spike	Dissolved Sulphate (SO4)	2016/11/08		NC	%	80 - 120
4738085	NRG	Spiked Blank	Dissolved Sulphate (SO4)	2016/11/08		105	%	80 - 120
4738085	NRG	Method Blank	Dissolved Sulphate (SO4)	2016/11/08	<2.0		mg/L	
4738085	NRG	RPD - Sample/Sample Dup	Dissolved Sulphate (SO4)	2016/11/08	7.0		%	25
4738086	NRG	Matrix Spike	Reactive Silica (SiO2)	2016/11/08		NC	%	80 - 120
4738086	NRG	Spiked Blank	Reactive Silica (SiO2)	2016/11/08		100	%	80 - 120
4738086	NRG	Method Blank	Reactive Silica (SiO2)	2016/11/08	<0.50		mg/L	
4738086	NRG	RPD - Sample/Sample Dup	Reactive Silica (SiO2)	2016/11/08	1.7		%	25
4738087	NRG	Spiked Blank	Colour	2016/11/08		109	%	80 - 120
4738087	NRG	Method Blank	Colour	2016/11/08	<5.0		TCU	
4738087	NRG	RPD - Sample/Sample Dup	Colour	2016/11/08	NC		%	20
4738088	NRG	Matrix Spike	Orthophosphate (P)	2016/11/08		82	%	80 - 120
4738088	NRG	Spiked Blank	Orthophosphate (P)	2016/11/08		97	%	80 - 120
4738088	NRG	Method Blank	Orthophosphate (P)	2016/11/08	<0.010		mg/L	
4738088	NRG	RPD - Sample/Sample Dup	Orthophosphate (P)	2016/11/08	NC		%	25
4738090	NRG	Matrix Spike	Nitrate + Nitrite (N)	2016/11/09		101	%	80 - 120
4738090	NRG	Spiked Blank	Nitrate + Nitrite (N)	2016/11/09		102	%	80 - 120
4738090	NRG	Method Blank	Nitrate + Nitrite (N)	2016/11/09	<0.050		mg/L	
4738090	NRG	RPD - Sample/Sample Dup	Nitrate + Nitrite (N)	2016/11/09	NC		%	25
4738091	NRG	Matrix Spike	Nitrite (N)	2016/11/09		91	%	80 - 120
4738091	NRG	Spiked Blank	Nitrite (N)	2016/11/09		91	%	80 - 120
4738091	NRG	Method Blank	Nitrite (N)	2016/11/09	<0.010		mg/L	
4738091	NRG	RPD - Sample/Sample Dup	Nitrite (N)	2016/11/09	NC		%	25
4738096	JMV	QC Standard	Turbidity	2016/11/08		101	%	80 - 120
4738096	JMV	Spiked Blank	Turbidity	2016/11/08		95	%	80 - 120
4738096	JMV	Method Blank	Turbidity	2016/11/08	<0.10		NTU	
4738096	JMV	RPD - Sample/Sample Dup	Turbidity	2016/11/08	1.3		%	20
4739997	BAN	Matrix Spike	Total Aluminum (Al)	2016/11/10		NC	%	80 - 120
			Total Antimony (Sb)	2016/11/10		101	%	80 - 120
			Total Arsenic (As)	2016/11/10		99	%	80 - 120
			Total Barium (Ba)	2016/11/10		95	%	80 - 120
			Total Beryllium (Be)	2016/11/10		96	%	80 - 120



Maxxam Job #: B6N8892  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC				Date		%		
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
4739997	BAN	Spiked Blank	Total Bismuth (Bi)	2016/11/10		101	%	80 - 120
			Total Boron (B)	2016/11/10		102	%	80 - 120
			Total Cadmium (Cd)	2016/11/10		99	%	80 - 120
			Total Calcium (Ca)	2016/11/10		100	%	80 - 120
			Total Chromium (Cr)	2016/11/10		98	%	80 - 120
			Total Cobalt (Co)	2016/11/10		100	%	80 - 120
			Total Copper (Cu)	2016/11/10		97	%	80 - 120
			Total Iron (Fe)	2016/11/10		NC	%	80 - 120
			Total Lead (Pb)	2016/11/10		97	%	80 - 120
			Total Magnesium (Mg)	2016/11/10		102	%	80 - 120
			Total Manganese (Mn)	2016/11/10		NC	%	80 - 120
			Total Molybdenum (Mo)	2016/11/10		100	%	80 - 120
			Total Nickel (Ni)	2016/11/10		100	%	80 - 120
			Total Phosphorus (P)	2016/11/10		97	%	80 - 120
			Total Potassium (K)	2016/11/10		98	%	80 - 120
			Total Selenium (Se)	2016/11/10		99	%	80 - 120
			Total Silver (Ag)	2016/11/10		99	%	80 - 120
			Total Sodium (Na)	2016/11/10		103	%	80 - 120
			Total Strontium (Sr)	2016/11/10		100	%	80 - 120
			Total Thallium (Tl)	2016/11/10		100	%	80 - 120
			Total Tin (Sn)	2016/11/10		102	%	80 - 120
			Total Titanium (Ti)	2016/11/10		103	%	80 - 120
			Total Uranium (U)	2016/11/10		104	%	80 - 120
			Total Vanadium (V)	2016/11/10		99	%	80 - 120
			Total Zinc (Zn)	2016/11/10		99	%	80 - 120
			Total Aluminum (Al)	2016/11/10		92	%	80 - 120
			Total Antimony (Sb)	2016/11/10		99	%	80 - 120
			Total Arsenic (As)	2016/11/10		92	%	80 - 120
			Total Barium (Ba)	2016/11/10		91	%	80 - 120
			Total Beryllium (Be)	2016/11/10		91	%	80 - 120
			Total Bismuth (Bi)	2016/11/10		102	%	80 - 120
			Total Boron (B)	2016/11/10		103	%	80 - 120
			Total Cadmium (Cd)	2016/11/10		92	%	80 - 120
			Total Calcium (Ca)	2016/11/10		90	%	80 - 120
			Total Chromium (Cr)	2016/11/10		92	%	80 - 120
			Total Cobalt (Co)	2016/11/10		93	%	80 - 120
			Total Copper (Cu)	2016/11/10		91	%	80 - 120
			Total Iron (Fe)	2016/11/10		90	%	80 - 120
			Total Lead (Pb)	2016/11/10		92	%	80 - 120
			Total Magnesium (Mg)	2016/11/10		91	%	80 - 120
			Total Manganese (Mn)	2016/11/10		94	%	80 - 120
			Total Molybdenum (Mo)	2016/11/10		100	%	80 - 120
			Total Nickel (Ni)	2016/11/10		94	%	80 - 120
			Total Phosphorus (P)	2016/11/10		89	%	80 - 120
			Total Potassium (K)	2016/11/10		90	%	80 - 120
			Total Selenium (Se)	2016/11/10		92	%	80 - 120
			Total Silver (Ag)	2016/11/10		91	%	80 - 120
			Total Sodium (Na)	2016/11/10		92	%	80 - 120
			Total Strontium (Sr)	2016/11/10		93	%	80 - 120
			Total Thallium (Tl)	2016/11/10		101	%	80 - 120
			Total Tin (Sn)	2016/11/10		103	%	80 - 120
			Total Titanium (Ti)	2016/11/10		94	%	80 - 120

Maxxam Job #: B6N8892  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4739997	BAN	Method Blank		Total Uranium (U)	2016/11/10		98	%	80 - 120
				Total Vanadium (V)	2016/11/10		93	%	80 - 120
				Total Zinc (Zn)	2016/11/10		97	%	80 - 120
				Total Aluminum (Al)	2016/11/10	5.0, RDL=5.0		ug/L	
				Total Antimony (Sb)	2016/11/10	<1.0		ug/L	
				Total Arsenic (As)	2016/11/10	<1.0		ug/L	
				Total Barium (Ba)	2016/11/10	<1.0		ug/L	
				Total Beryllium (Be)	2016/11/10	<1.0		ug/L	
				Total Bismuth (Bi)	2016/11/10	<2.0		ug/L	
				Total Boron (B)	2016/11/10	<50		ug/L	
				Total Cadmium (Cd)	2016/11/10	<0.010		ug/L	
				Total Calcium (Ca)	2016/11/10	<100		ug/L	
				Total Chromium (Cr)	2016/11/10	<1.0		ug/L	
				Total Cobalt (Co)	2016/11/10	<0.40		ug/L	
				Total Copper (Cu)	2016/11/10	<2.0		ug/L	
				Total Iron (Fe)	2016/11/10	<50		ug/L	
				Total Lead (Pb)	2016/11/10	<0.50		ug/L	
				Total Magnesium (Mg)	2016/11/10	<100		ug/L	
				Total Manganese (Mn)	2016/11/10	<2.0		ug/L	
				Total Molybdenum (Mo)	2016/11/10	<2.0		ug/L	
				Total Nickel (Ni)	2016/11/10	<2.0		ug/L	
				Total Phosphorus (P)	2016/11/10	<100		ug/L	
				Total Potassium (K)	2016/11/10	<100		ug/L	
				Total Selenium (Se)	2016/11/10	<1.0		ug/L	
				Total Silver (Ag)	2016/11/10	<0.10		ug/L	
				Total Sodium (Na)	2016/11/10	<100		ug/L	
				Total Strontium (Sr)	2016/11/10	<2.0		ug/L	
				Total Thallium (Tl)	2016/11/10	<0.10		ug/L	
				Total Tin (Sn)	2016/11/10	<2.0		ug/L	
				Total Titanium (Ti)	2016/11/10	<2.0		ug/L	
				Total Uranium (U)	2016/11/10	<0.10		ug/L	
				Total Vanadium (V)	2016/11/10	<2.0		ug/L	
				Total Zinc (Zn)	2016/11/10	<5.0		ug/L	
4739997	BAN	RPD - Sample/Sample Dup		Total Aluminum (Al)	2016/11/10	2.4		%	20
				Total Antimony (Sb)	2016/11/10	NC		%	20
				Total Arsenic (As)	2016/11/10	NC		%	20
				Total Barium (Ba)	2016/11/10	4.2		%	20
				Total Beryllium (Be)	2016/11/10	NC		%	20
				Total Bismuth (Bi)	2016/11/10	NC		%	20
				Total Boron (B)	2016/11/10	NC		%	20
				Total Cadmium (Cd)	2016/11/10	NC		%	20
				Total Calcium (Ca)	2016/11/10	3.4		%	20
				Total Chromium (Cr)	2016/11/10	NC		%	20
				Total Cobalt (Co)	2016/11/10	NC		%	20
				Total Copper (Cu)	2016/11/10	NC		%	20
				Total Iron (Fe)	2016/11/10	NC		%	20
				Total Lead (Pb)	2016/11/10	NC		%	20
				Total Magnesium (Mg)	2016/11/10	3.3		%	20
				Total Manganese (Mn)	2016/11/10	NC		%	20
				Total Molybdenum (Mo)	2016/11/10	NC		%	20
				Total Nickel (Ni)	2016/11/10	NC		%	20

Maxxam Job #: B6N8892  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Total Phosphorus (P)	2016/11/10	NC		%	20
			Total Potassium (K)	2016/11/10	1.5		%	20
			Total Selenium (Se)	2016/11/10	NC		%	20
			Total Silver (Ag)	2016/11/10	NC		%	20
			Total Sodium (Na)	2016/11/10	2.1		%	20
			Total Strontium (Sr)	2016/11/10	1.1		%	20
			Total Thallium (Tl)	2016/11/10	NC		%	20
			Total Tin (Sn)	2016/11/10	NC		%	20
			Total Titanium (Ti)	2016/11/10	NC		%	20
			Total Uranium (U)	2016/11/10	NC		%	20
			Total Vanadium (V)	2016/11/10	NC		%	20
			Total Zinc (Zn)	2016/11/10	NC		%	20
4740256	SMT	Matrix Spike(DJO603)	Total Organic Carbon (C)	2016/11/09		88	%	80 - 120
4740256	SMT	Spiked Blank	Total Organic Carbon (C)	2016/11/09		99	%	80 - 120
4740256	SMT	Method Blank	Total Organic Carbon (C)	2016/11/09	<0.50		mg/L	
4740256	SMT	RPD - Sample/Sample Dup	Total Organic Carbon (C)	2016/11/09	2.3		%	20

N/A = Not Applicable

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

Maxxam Job #: B6N8892  
Report Date: 2016/11/10

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Your P.O. #: A 06392  
Sampler Initials: LL

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Eric Dearman, Scientific Specialist

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Your P.O. #: A08303  
Your Project #: P-0010903  
Site Location: LAKE GEORGE  
Your C.O.C. #: 595821-01-01

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

**Report Date: 2017/02/08**

Report #: R4353140

Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B721851**

**Received: 2017/02/01, 11:56**

Sample Matrix: Water  
# Samples Received: 18

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Carbonate, Bicarbonate and Hydroxide	9	N/A	2017/02/03	N/A	SM 22 4500-CO2 D
Carbonate, Bicarbonate and Hydroxide	9	N/A	2017/02/06	N/A	SM 22 4500-CO2 D
Alkalinity	18	N/A	2017/02/06	ATL SOP 00013	EPA 310.2 R1974 m
Chloride	18	N/A	2017/02/06	ATL SOP 00014	SM 22 4500-Cl- E m
Colour	18	N/A	2017/02/06	ATL SOP 00020	SM 22 2120C m
Conductance - water	9	N/A	2017/02/03	ATL SOP 00004	SM 22 2510B m
Conductance - water	9	N/A	2017/02/06	ATL SOP 00004	SM 22 2510B m
Hardness (calculated as CaCO3)	15	N/A	2017/02/06	ATL SOP 00048	SM 22 2340 B
Hardness (calculated as CaCO3)	3	N/A	2017/02/07	ATL SOP 00048	SM 22 2340 B
Mercury - Total (CVAA,LL)	18	2017/02/03	2017/02/06	ATL SOP 00026	EPA 245.1 R3 m
Metals Water Diss. MS (1)	3	N/A	2017/02/04	ATL SOP 00058	EPA 6020A R1 m
Metals Water Diss. MS (1)	9	N/A	2017/02/06	ATL SOP 00058	EPA 6020A R1 m
Metals Water Diss. MS (as rec'd)	5	N/A	2017/02/04	ATL SOP 00058	EPA 6020A R1 m
Metals Water Diss. MS (as rec'd)	1	N/A	2017/02/06	ATL SOP 00058	EPA 6020A R1 m
Metals Water Total MS	14	2017/02/03	2017/02/03	ATL SOP 00058	EPA 6020A R1 m
Metals Water Total MS	4	2017/02/03	2017/02/06	ATL SOP 00058	EPA 6020A R1 m
Ion Balance (% Difference)	18	N/A	2017/02/07	N/A	Auto Calc.
Anion and Cation Sum	18	N/A	2017/02/07	N/A	Auto Calc.
Nitrogen Ammonia - water	18	N/A	2017/02/06	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite	18	N/A	2017/02/03	ATL SOP 00016	USGS SOPINCF0452.2 m
Nitrogen - Nitrite	18	N/A	2017/02/03	ATL SOP 00017	SM 22 4500-NO2- B m
Nitrogen - Nitrate (as N)	18	N/A	2017/02/07	ATL SOP 00018	ASTM D3867-16
pH (2)	9	N/A	2017/02/03	ATL SOP 00003	SM 22 4500-H+ B m
pH (2)	9	N/A	2017/02/06	ATL SOP 00003	SM 22 4500-H+ B m
Phosphorus - ortho	18	N/A	2017/02/06	ATL SOP 00021	EPA 365.2 m
Sat. pH and Langelier Index (@ 20C)	18	N/A	2017/02/07	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	18	N/A	2017/02/07	ATL SOP 00049	Auto Calc.
Reactive Silica	18	N/A	2017/02/06	ATL SOP 00022	EPA 366.0 m
Sulphate	18	N/A	2017/02/06	ATL SOP 00023	ASTMD516-11 m
Total Dissolved Solids (TDS calc)	18	N/A	2017/02/07	N/A	Auto Calc.



Your P.O. #: A08303  
Your Project #: P-0010903  
Site Location: LAKE GEORGE  
Your C.O.C. #: 595821-01-01

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

**Report Date: 2017/02/08**

Report #: R4353140

Version: 1 - Final

## **CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B721851**

**Received: 2017/02/01, 11:56**

Sample Matrix: Water  
# Samples Received: 18

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Organic carbon - Total (TOC) (3)	18	N/A	2017/02/03	ATL SOP 00037	SM 22 5310C m
Turbidity	17	N/A	2017/02/03	ATL SOP 00011	EPA 180.1 R2 m
Turbidity	1	N/A	2017/02/06	ATL SOP 00011	EPA 180.1 R2 m

**Remarks:**

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported: unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods. Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) Sample filtered in laboratory prior to analysis for dissolved metals.

(2) The APHA Standard Method require pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.

(3) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Your P.O. #: A08303  
Your Project #: P-0010903  
Site Location: LAKE GEORGE  
Your C.O.C. #: 595821-01-01

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

**Report Date: 2017/02/08**  
Report #: R4353140  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B721851**

**Received: 2017/02/01, 11:56**

Encryption Key



Maxxam  
08 Feb 2017 13:59:53

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Avery Withrow, Project Manager

Email: AWithrow@maxxam.ca

Phone# (902)420-0203 Ext:233

=====

This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

Maxxam ID		DVR754			DVR756	DVR756			
Sampling Date		2017/01/31 11:25			2017/01/31 10:55	2017/01/31 10:55			
COC Number		595821-01-01			595821-01-01	595821-01-01			
	UNITS	MW1S	RDL	QC Batch	MW2S	MW2S Lab-Dup	RDL	QC Batch	MDL
<b>Calculated Parameters</b>									
Anion Sum	me/L	2.57	N/A	4848533	3.91		N/A	4848533	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	96	1.0	4848529	130		1.0	4848529	0.20
Calculated TDS	mg/L	210	1.0	4848538	230		1.0	4848538	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4848529	<1.0		1.0	4848529	0.20
Cation Sum	me/L	4.47	N/A	4848533	3.96		N/A	4848533	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	98	1.0	4848531	120		1.0	4848531	1.0
Ion Balance (% Difference)	%	27.0	N/A	4848532	0.640		N/A	4848532	N/A
Langelier Index (@ 20C)	N/A	-1.60		4848536	-0.615			4848536	
Langelier Index (@ 4C)	N/A	-1.85		4848537	-0.864			4848537	
Nitrate (N)	mg/L	<0.050	0.050	4848534	0.43		0.050	4848534	N/A
Saturation pH (@ 20C)	N/A	8.06		4848536	7.63			4848536	
Saturation pH (@ 4C)	N/A	8.31		4848537	7.88			4848537	
<b>Inorganics</b>									
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	96	5.0	4849251	130		25	4849251	N/A
Dissolved Chloride (Cl)	mg/L	23	1.0	4849264	22		1.0	4849264	N/A
Colour	TCU	790	150	4849291	13		5.0	4849291	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4849305	0.43		0.050	4849305	N/A
Nitrite (N)	mg/L	<0.010	0.010	4849317	<0.010		0.010	4849317	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	2.7	0.25	4849175	0.089	0.088	0.050	4849175	N/A
Total Organic Carbon (C)	mg/L	56 (1)	50	4850918	11 (1)		5.0	4850918	N/A
Orthophosphate (P)	mg/L	0.015	0.010	4849294	0.013		0.010	4849294	N/A
pH	pH	6.47	N/A	4852494	7.02		N/A	4852494	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	15	0.50	4849271	7.2		0.50	4849271	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	<2.0	2.0	4849267	29		2.0	4849267	N/A
Turbidity	NTU	>1000	1.0	4852503	>1000		1.0	4850249	0.10
Conductivity	uS/cm	390	1.0	4852495	370		1.0	4852495	N/A
<b>Metals</b>									
Dissolved Aluminum (Al)	ug/L	39	5.0	4850616	70		5.0	4850616	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	4850616	<1.0		1.0	4850616	N/A
Dissolved Arsenic (As)	ug/L	<1.0	1.0	4850616	<1.0		1.0	4850616	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Reporting limit was increased due to turbidity.									

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

Maxxam ID		DVR754			DVR756	DVR756			
Sampling Date		2017/01/31 11:25			2017/01/31 10:55	2017/01/31 10:55			
COC Number		595821-01-01			595821-01-01	595821-01-01			
	UNITS	MW1S	RDL	QC Batch	MW2S	MW2S Lab-Dup	RDL	QC Batch	MDL
Dissolved Barium (Ba)	ug/L	42	1.0	4850616	40		1.0	4850616	N/A
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	4850616	<1.0		1.0	4850616	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	4850616	<2.0		2.0	4850616	N/A
Dissolved Boron (B)	ug/L	<50	50	4850616	210		50	4850616	N/A
Dissolved Cadmium (Cd)	ug/L	0.13	0.010	4850616	0.034		0.010	4850616	N/A
Dissolved Calcium (Ca)	ug/L	22000	100	4850616	44000		100	4850616	N/A
Dissolved Chromium (Cr)	ug/L	1.8	1.0	4850616	<1.0		1.0	4850616	N/A
Dissolved Cobalt (Co)	ug/L	53	0.40	4850616	1.5		0.40	4850616	N/A
Dissolved Copper (Cu)	ug/L	<2.0	2.0	4850616	10		2.0	4850616	N/A
Dissolved Iron (Fe)	ug/L	54000	50	4850616	71		50	4850616	N/A
Dissolved Lead (Pb)	ug/L	<0.50	0.50	4850616	<0.50		0.50	4850616	N/A
Dissolved Magnesium (Mg)	ug/L	10000	100	4850616	2200		100	4850616	N/A
Dissolved Manganese (Mn)	ug/L	9400	2.0	4850616	620		2.0	4850616	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	4850616	<2.0		2.0	4850616	N/A
Dissolved Nickel (Ni)	ug/L	11	2.0	4850616	<2.0		2.0	4850616	N/A
Dissolved Phosphorus (P)	ug/L	<100	100	4850616	<100		100	4850616	N/A
Dissolved Potassium (K)	ug/L	5100	100	4850616	15000		100	4850616	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	4850616	<1.0		1.0	4850616	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	4850616	<0.10		0.10	4850616	N/A
Dissolved Sodium (Na)	ug/L	6100	100	4850616	27000		100	4850616	N/A
Dissolved Strontium (Sr)	ug/L	240	2.0	4850616	130		2.0	4850616	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	4850616	<0.10		0.10	4850616	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	4850616	<2.0		2.0	4850616	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	2.0	4850616	<2.0		2.0	4850616	N/A
Dissolved Uranium (U)	ug/L	0.29	0.10	4850616	0.30		0.10	4850616	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	4850616	<2.0		2.0	4850616	N/A
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	4850616	<5.0		5.0	4850616	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

<b>Maxxam ID</b>		DVR758			DVR760			DVR762			
<b>Sampling Date</b>		2017/01/31 10:00			2017/01/31 11:55			2017/01/31 11:35			
<b>COC Number</b>		595821-01-01			595821-01-01			595821-01-01			
	<b>UNITS</b>	<b>MW3S</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MW4S</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MW5S</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Calculated Parameters

Anion Sum	me/L	5.00	N/A	4848533	1.48	N/A	4848533	2.78	N/A	4848533	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	200	1.0	4848529	17	1.0	4848529	120	1.0	4848529	0.20
Calculated TDS	mg/L	290	1.0	4848538	89	1.0	4848538	170	1.0	4848538	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4848529	<1.0	1.0	4848529	<1.0	1.0	4848529	0.20
Cation Sum	me/L	5.68	N/A	4848533	1.09	N/A	4848533	2.69	N/A	4848533	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	240	1.0	4848531	36	1.0	4848531	73	1.0	4848531	1.0
Ion Balance (% Difference)	%	6.37	N/A	4848532	15.2	N/A	4848532	1.65	N/A	4848532	N/A
Langelier Index (@ 20C)	N/A	-0.211		4848536	-3.29		4848536	-1.49		4848536	
Langelier Index (@ 4C)	N/A	-0.461		4848537	-3.54		4848537	-1.74		4848537	
Nitrate (N)	mg/L	<0.050	0.050	4848534	0.39	0.050	4848534	<0.050	0.050	4848534	N/A
Saturation pH (@ 20C)	N/A	7.38		4848536	9.14		4848536	8.00		4848536	
Saturation pH (@ 4C)	N/A	7.63		4848537	9.39		4848537	8.25		4848537	

#### Inorganics

Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	200	25	4849251	17	5.0	4849251	120	25	4849251	N/A
Dissolved Chloride (Cl)	mg/L	27	1.0	4849264	34	1.0	4849264	16	1.0	4849264	N/A
Colour	TCU	6.7	5.0	4849291	<5.0	5.0	4849291	310	50	4849291	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4849305	0.41	0.050	4849305	<0.050	0.050	4849305	N/A
Nitrite (N)	mg/L	<0.010	0.010	4849317	0.014	0.010	4849317	<0.010	0.010	4849317	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	0.56	0.050	4849175	0.37	0.050	4849175	1.1	0.050	4849175	N/A
Total Organic Carbon (C)	mg/L	<50 (1)	50	4850918	<50 (1)	50	4850918	25 (1)	5.0	4850918	N/A
Orthophosphate (P)	mg/L	0.020	0.010	4849294	0.011	0.010	4849294	0.071	0.010	4849294	N/A
pH	pH	7.17	N/A	4852494	5.85	N/A	4852494	6.51	N/A	4852494	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	22	0.50	4849271	6.7	0.50	4849271	25	1.0	4849271	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	15	2.0	4849267	7.5	2.0	4849267	<2.0	2.0	4849267	N/A
Turbidity	NTU	>1000	1.0	4850252	>1000	1.0	4850249	360	1.0	4850252	0.10
Conductivity	uS/cm	440	1.0	4852495	160	1.0	4852495	270	1.0	4852495	N/A

#### Metals

Dissolved Aluminum (Al)	ug/L	7.2	5.0	4850616	97	5.0	4850616	370	5.0	4850616	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	4850616	<1.0	1.0	4850616	<1.0	1.0	4850616	N/A
Dissolved Arsenic (As)	ug/L	<1.0	1.0	4850616	<1.0	1.0	4850616	4.7	1.0	4850616	N/A
Dissolved Barium (Ba)	ug/L	18	1.0	4850616	27	1.0	4850616	47	1.0	4850616	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) Reporting limit was increased due to turbidity.

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

Maxxam ID		DVR758			DVR760			DVR762			
Sampling Date		2017/01/31 10:00			2017/01/31 11:55			2017/01/31 11:35			
COC Number		595821-01-01			595821-01-01			595821-01-01			
	UNITS	MW3S	RDL	QC Batch	MW4S	RDL	QC Batch	MW5S	RDL	QC Batch	MDL
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	4850616	<1.0	1.0	4850616	<1.0	1.0	4850616	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	4850616	<2.0	2.0	4850616	<2.0	2.0	4850616	N/A
Dissolved Boron (B)	ug/L	<50	50	4850616	<50	50	4850616	<50	50	4850616	N/A
Dissolved Cadmium (Cd)	ug/L	0.11	0.010	4850616	0.18	0.010	4850616	0.013	0.010	4850616	N/A
Dissolved Calcium (Ca)	ug/L	55000	100	4850616	9300	100	4850616	20000	100	4850616	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	4850616	<1.0	1.0	4850616	1.2	1.0	4850616	N/A
Dissolved Cobalt (Co)	ug/L	7.1	0.40	4850616	33	0.40	4850616	4.6	0.40	4850616	N/A
Dissolved Copper (Cu)	ug/L	4.2	2.0	4850616	3.1	2.0	4850616	2.1	2.0	4850616	N/A
Dissolved Iron (Fe)	ug/L	<50	50	4850616	54	50	4850616	10000	50	4850616	N/A
Dissolved Lead (Pb)	ug/L	<0.50	0.50	4850616	<0.50	0.50	4850616	0.67	0.50	4850616	N/A
Dissolved Magnesium (Mg)	ug/L	26000	100	4850616	3100	100	4850616	5300	100	4850616	N/A
Dissolved Manganese (Mn)	ug/L	7900	2.0	4850616	7100	2.0	4850616	970	2.0	4850616	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	4850616	<2.0	2.0	4850616	<2.0	2.0	4850616	N/A
Dissolved Nickel (Ni)	ug/L	6.9	2.0	4850616	6.5	2.0	4850616	4.8	2.0	4850616	N/A
Dissolved Phosphorus (P)	ug/L	<100	100	4850616	<100	100	4850616	100	100	4850616	N/A
Dissolved Potassium (K)	ug/L	3900	100	4850616	1900	100	4850616	9700	100	4850616	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	4850616	<1.0	1.0	4850616	<1.0	1.0	4850616	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	4850616	<0.10	0.10	4850616	<0.10	0.10	4850616	N/A
Dissolved Sodium (Na)	ug/L	15000	100	4850616	6700	100	4850616	12000	100	4850616	N/A
Dissolved Strontium (Sr)	ug/L	350	2.0	4850616	35	2.0	4850616	94	2.0	4850616	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	4850616	<0.10	0.10	4850616	<0.10	0.10	4850616	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	4850616	<2.0	2.0	4850616	<2.0	2.0	4850616	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	2.0	4850616	<2.0	2.0	4850616	6.2	2.0	4850616	N/A
Dissolved Uranium (U)	ug/L	0.60	0.10	4850616	<0.10	0.10	4850616	<0.10	0.10	4850616	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	4850616	<2.0	2.0	4850616	<2.0	2.0	4850616	N/A
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	4850616	<5.0	5.0	4850616	36	5.0	4850616	N/A
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
N/A = Not Applicable											



Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

<b>Maxxam ID</b>		DVR763			DVR764			DVR765			
<b>Sampling Date</b>		2017/01/31 10:35			2017/01/31 10:35			2017/01/31 10:20			
<b>COC Number</b>		595821-01-01			595821-01-01			595821-01-01			
	<b>UNITS</b>	<b>MW6D</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MW6S</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MW7</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

<b>Calculated Parameters</b>											
Anion Sum	me/L	1.94	N/A	4848533	6.14	N/A	4848533	3.52	N/A	4848533	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	60	1.0	4848529	250	1.0	4848529	150	1.0	4848529	0.20
Calculated TDS	mg/L	120	1.0	4848538	400	1.0	4848538	190	1.0	4848538	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4848529	<1.0	1.0	4848529	<1.0	1.0	4848529	0.20
Cation Sum	me/L	1.70	N/A	4848533	8.88	N/A	4848533	3.02	N/A	4848533	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	37	1.0	4848531	290	1.0	4848531	120	1.0	4848531	1.0
Ion Balance (% Difference)	%	6.59	N/A	4848532	18.2	N/A	4848532	7.65	N/A	4848532	N/A
Langelier Index (@ 20C)	N/A	-1.13		4848536	-0.899		4848536	-0.336		4848536	
Langelier Index (@ 4C)	N/A	-1.38		4848537	-1.15		4848537	-0.586		4848537	
Nitrate (N)	mg/L	0.089	0.050	4848534	<0.050	0.050	4848534	0.15	0.050	4848534	N/A
Saturation pH (@ 20C)	N/A	8.56		4848536	7.20		4848536	7.72		4848536	
Saturation pH (@ 4C)	N/A	8.81		4848537	7.45		4848537	7.97		4848537	

<b>Inorganics</b>											
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	61	5.0	4849251	250	25	4849251	150	25	4849251	N/A
Dissolved Chloride (Cl)	mg/L	17	1.0	4849264	40	1.0	4849264	14	1.0	4849264	N/A
Colour	TCU	<5.0	5.0	4849291	170	25	4849291	5.3	5.0	4849291	N/A
Nitrate + Nitrite (N)	mg/L	0.089	0.050	4849305	<0.050	0.050	4849305	0.15	0.050	4849305	N/A
Nitrite (N)	mg/L	<0.010	0.010	4849317	<0.010	0.010	4849317	<0.010	0.010	4849317	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	0.13	0.050	4849175	4.8	0.25	4849179	0.065	0.050	4849179	N/A
Total Organic Carbon (C)	mg/L	<50 (1)	50	4850918	60 (1)	50	4850918	<5.0 (1)	5.0	4850918	N/A
Orthophosphate (P)	mg/L	0.018	0.010	4849294	0.024	0.010	4849294	0.031	0.010	4849294	N/A
pH	pH	7.43	N/A	4850239	6.31	N/A	4852494	7.38	N/A	4850239	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	22	0.50	4849271	29	1.0	4849271	21	0.50	4849271	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	11	2.0	4849267	<2.0	2.0	4849267	6.2	2.0	4849267	N/A
Turbidity	NTU	>1000	1.0	4850252	>1000	1.0	4850252	>1000	1.0	4850252	0.10
Conductivity	uS/cm	200	1.0	4850240	550	1.0	4852495	350	1.0	4850240	N/A

<b>Metals</b>											
Dissolved Aluminum (Al)	ug/L	<5.0	5.0	4850616	120	5.0	4850616	<5.0	5.0	4850616	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	4850616	<1.0	1.0	4850616	<1.0	1.0	4850616	N/A
Dissolved Arsenic (As)	ug/L	<1.0	1.0	4850616	7.4	1.0	4850616	1.7	1.0	4850616	N/A
Dissolved Barium (Ba)	ug/L	2.6	1.0	4850616	62	1.0	4850616	14	1.0	4850616	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) Reporting limit was increased due to turbidity.

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

Maxxam ID		DVR763			DVR764			DVR765			
Sampling Date		2017/01/31 10:35			2017/01/31 10:35			2017/01/31 10:20			
COC Number		595821-01-01			595821-01-01			595821-01-01			
	UNITS	MW6D	RDL	QC Batch	MW6S	RDL	QC Batch	MW7	RDL	QC Batch	MDL
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	4850616	<1.0	1.0	4850616	<1.0	1.0	4850616	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	4850616	<2.0	2.0	4850616	<2.0	2.0	4850616	N/A
Dissolved Boron (B)	ug/L	<50	50	4850616	<50	50	4850616	<50	50	4850616	N/A
Dissolved Cadmium (Cd)	ug/L	<0.010	0.010	4850616	0.11	0.010	4850616	0.021	0.010	4850616	N/A
Dissolved Calcium (Ca)	ug/L	10000	100	4850616	70000	100	4850616	31000	100	4850616	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	4850616	3.2	1.0	4850616	<1.0	1.0	4850616	N/A
Dissolved Cobalt (Co)	ug/L	<0.40	0.40	4850616	13	0.40	4850616	<0.40	0.40	4850616	N/A
Dissolved Copper (Cu)	ug/L	<2.0	2.0	4850616	<2.0	2.0	4850616	<2.0	2.0	4850616	N/A
Dissolved Iron (Fe)	ug/L	<50	50	4850616	39000	50	4850616	<50	50	4850616	N/A
Dissolved Lead (Pb)	ug/L	<0.50	0.50	4850616	<0.50	0.50	4850616	<0.50	0.50	4850616	N/A
Dissolved Magnesium (Mg)	ug/L	2600	100	4850616	27000	100	4850616	10000	100	4850616	N/A
Dissolved Manganese (Mn)	ug/L	38	2.0	4850616	5700	2.0	4850616	140	2.0	4850616	N/A
Dissolved Molybdenum (Mo)	ug/L	2.9	2.0	4850616	<2.0	2.0	4850616	<2.0	2.0	4850616	N/A
Dissolved Nickel (Ni)	ug/L	<2.0	2.0	4850616	10	2.0	4850616	<2.0	2.0	4850616	N/A
Dissolved Phosphorus (P)	ug/L	<100	100	4850616	<100	100	4850616	<100	100	4850616	N/A
Dissolved Potassium (K)	ug/L	570	100	4850616	6500	100	4850616	2600	100	4850616	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	4850616	<1.0	1.0	4850616	<1.0	1.0	4850616	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	4850616	<0.10	0.10	4850616	<0.10	0.10	4850616	N/A
Dissolved Sodium (Na)	ug/L	22000	100	4850616	29000	100	4850616	13000	100	4850616	N/A
Dissolved Strontium (Sr)	ug/L	44	2.0	4850616	330	2.0	4850616	110	2.0	4850616	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	4850616	<0.10	0.10	4850616	<0.10	0.10	4850616	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	4850616	<2.0	2.0	4850616	<2.0	2.0	4850616	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	2.0	4850616	3.1	2.0	4850616	<2.0	2.0	4850616	N/A
Dissolved Uranium (U)	ug/L	0.16	0.10	4850616	2.4	0.10	4850616	0.52	0.10	4850616	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	4850616	2.9	2.0	4850616	<2.0	2.0	4850616	N/A
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	4850616	6.6	5.0	4850616	<5.0	5.0	4850616	N/A
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
N/A = Not Applicable											

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

<b>Maxxam ID</b>		DVR767			DVR768			DVR769			
<b>Sampling Date</b>		2017/01/31 09:35			2017/01/31 11:40			2017/01/31 12:00			
<b>COC Number</b>		595821-01-01			595821-01-01			595821-01-01			
	<b>UNITS</b>	<b>MW9</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MW10</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MW11</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

<b>Calculated Parameters</b>											
Anion Sum	me/L	1.12	N/A	4848533	3.49	N/A	4848533	3.16	N/A	4848533	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	13	1.0	4848529	120	1.0	4848529	29	1.0	4848529	0.20
Calculated TDS	mg/L	70	1.0	4848538	220	1.0	4848538	190	1.0	4848538	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4848529	<1.0	1.0	4848529	<1.0	1.0	4848529	0.20
Cation Sum	me/L	0.900	N/A	4848533	3.70	N/A	4848533	2.63	N/A	4848533	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	23	1.0	4848531	71	1.0	4848531	100	1.0	4848531	1.0
Ion Balance (% Difference)	%	10.9	N/A	4848532	2.92	N/A	4848532	9.15	N/A	4848532	N/A
Langelier Index (@ 20C)	N/A	-3.63		4848536	-1.18		4848536	-2.46		4848536	
Langelier Index (@ 4C)	N/A	-3.88		4848537	-1.43		4848537	-2.71		4848537	
Nitrate (N)	mg/L	0.18	0.050	4848534	0.093	0.050	4848534	5.2	0.25	4848534	N/A
Saturation pH (@ 20C)	N/A	9.53		4848536	7.92		4848536	8.49		4848536	
Saturation pH (@ 4C)	N/A	9.78		4848537	8.17		4848537	8.74		4848537	

<b>Inorganics</b>											
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	13	5.0	4850350	120	25	4850350	29	5.0	4850350	N/A
Dissolved Chloride (Cl)	mg/L	20	1.0	4850359	26	1.0	4850359	73	1.0	4850359	N/A
Colour	TCU	<5.0	5.0	4850388	620	150	4850388	<5.0	5.0	4850388	N/A
Nitrate + Nitrite (N)	mg/L	0.18	0.050	4850394	0.093	0.050	4850394	5.2	0.25	4850394	N/A
Nitrite (N)	mg/L	<0.010	0.010	4850395	<0.010	0.010	4850395	<0.010	0.010	4850395	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	4849179	0.29	0.050	4849179	<0.050	0.050	4849179	N/A
Total Organic Carbon (C)	mg/L	<5.0 (1)	5.0	4850918	37 (1)	5.0	4850918	9.9 (1)	5.0	4850918	N/A
Orthophosphate (P)	mg/L	0.011	0.010	4850390	0.076	0.010	4850390	0.017	0.010	4850390	N/A
pH	pH	5.89	N/A	4850239	6.74	N/A	4852494	6.03	N/A	4850239	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	6.6	0.50	4850377	8.4	0.50	4850377	10	0.50	4850377	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	13	2.0	4850366	14	2.0	4850366	7.9	2.0	4850366	N/A
Turbidity	NTU	>1000	1.0	4850252	170	1.0	4850249	>1000	1.0	4850249	0.10
Conductivity	uS/cm	120	1.0	4850240	340	1.0	4852495	350	1.0	4850240	N/A

<b>Metals</b>											
Dissolved Aluminum (Al)	ug/L	77	5.0	4850616	730	5.0	4850616	68	5.0	4850616	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	4850616	<1.0	1.0	4850616	<1.0	1.0	4850616	N/A
Dissolved Arsenic (As)	ug/L	<1.0	1.0	4850616	11	1.0	4850616	<1.0	1.0	4850616	N/A
Dissolved Barium (Ba)	ug/L	20	1.0	4850616	46	1.0	4850616	23	1.0	4850616	N/A

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch  
N/A = Not Applicable  
(1) Reporting limit was increased due to turbidity.

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

Maxxam ID		DVR767			DVR768			DVR769			
Sampling Date		2017/01/31 09:35			2017/01/31 11:40			2017/01/31 12:00			
COC Number		595821-01-01			595821-01-01			595821-01-01			
	UNITS	MW9	RDL	QC Batch	MW10	RDL	QC Batch	MW11	RDL	QC Batch	MDL
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	4850616	<1.0	1.0	4850616	<1.0	1.0	4850616	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	4850616	<2.0	2.0	4850616	<2.0	2.0	4850616	N/A
Dissolved Boron (B)	ug/L	<50	50	4850616	<50	50	4850616	<50	50	4850616	N/A
Dissolved Cadmium (Cd)	ug/L	0.14	0.010	4850616	0.16	0.010	4850616	0.23	0.010	4850616	N/A
Dissolved Calcium (Ca)	ug/L	4800	100	4850616	24000	100	4850616	27000	100	4850616	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	4850616	2.1	1.0	4850616	<1.0	1.0	4850616	N/A
Dissolved Cobalt (Co)	ug/L	4.2	0.40	4850616	11	0.40	4850616	1.9	0.40	4850616	N/A
Dissolved Copper (Cu)	ug/L	<2.0	2.0	4850616	24	2.0	4850616	2.1	2.0	4850616	N/A
Dissolved Iron (Fe)	ug/L	<50	50	4850616	6700	50	4850616	<50	50	4850616	N/A
Dissolved Lead (Pb)	ug/L	<0.50	0.50	4850616	2.6	0.50	4850616	<0.50	0.50	4850616	N/A
Dissolved Magnesium (Mg)	ug/L	2800	100	4850616	2800	100	4850616	8600	100	4850616	N/A
Dissolved Manganese (Mn)	ug/L	3100	2.0	4850616	1600	2.0	4850616	8400	2.0	4850616	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	4850616	<2.0	2.0	4850616	<2.0	2.0	4850616	N/A
Dissolved Nickel (Ni)	ug/L	2.3	2.0	4850616	7.6	2.0	4850616	<2.0	2.0	4850616	N/A
Dissolved Phosphorus (P)	ug/L	<100	100	4850616	140	100	4850616	<100	100	4850616	N/A
Dissolved Potassium (K)	ug/L	1100	100	4850616	30000	100	4850616	930	100	4850616	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	4850616	<1.0	1.0	4850616	<1.0	1.0	4850616	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	4850616	<0.10	0.10	4850616	<0.10	0.10	4850616	N/A
Dissolved Sodium (Na)	ug/L	9300	100	4850616	29000	100	4850616	12000	100	4850616	N/A
Dissolved Strontium (Sr)	ug/L	27	2.0	4850616	83	2.0	4850616	74	2.0	4850616	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	4850616	<0.10	0.10	4850616	<0.10	0.10	4850616	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	4850616	<2.0	2.0	4850616	<2.0	2.0	4850616	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	2.0	4850616	23	2.0	4850616	<2.0	2.0	4850616	N/A
Dissolved Uranium (U)	ug/L	<0.10	0.10	4850616	0.55	0.10	4850616	<0.10	0.10	4850616	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	4850616	5.6	2.0	4850616	<2.0	2.0	4850616	N/A
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	4850616	110	5.0	4850616	5.4	5.0	4850616	N/A
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
N/A = Not Applicable											

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

<b>Maxxam ID</b>		DVR770			
<b>Sampling Date</b>		2017/01/31 10:45			
<b>COC Number</b>		595821-01-01			
	<b>UNITS</b>	<b>MW12</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Calculated Parameters</b>					
Anion Sum	me/L	1.04	N/A	4848533	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	13	1.0	4848529	0.20
Calculated TDS	mg/L	86	1.0	4848538	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4848529	0.20
Cation Sum	me/L	1.56	N/A	4848533	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	14	1.0	4848531	1.0
Ion Balance (% Difference)	%	20.0	N/A	4848532	N/A
Langelier Index (@ 20C)	N/A	-3.91		4848536	
Langelier Index (@ 4C)	N/A	-4.16		4848537	
Nitrate (N)	mg/L	<0.050	0.050	4848534	N/A
Saturation pH (@ 20C)	N/A	9.64		4848536	
Saturation pH (@ 4C)	N/A	9.89		4848537	
<b>Inorganics</b>					
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	13	5.0	4850350	N/A
Dissolved Chloride (Cl)	mg/L	15	1.0	4850359	N/A
Colour	TCU	<5.0	5.0	4850388	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4850394	N/A
Nitrite (N)	mg/L	<0.010	0.010	4850395	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	1.1	0.050	4849179	N/A
Total Organic Carbon (C)	mg/L	12 (1)	5.0	4850918	N/A
Orthophosphate (P)	mg/L	0.011	0.010	4850390	N/A
pH	pH	5.73	N/A	4850239	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	7.6	0.50	4850377	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	17	2.0	4850366	N/A
Turbidity	NTU	>1000	1.0	4850252	0.10
Conductivity	uS/cm	120	1.0	4850240	N/A
<b>Metals</b>					
Dissolved Aluminum (Al)	ug/L	51	5.0	4850616	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	4850616	N/A
Dissolved Arsenic (As)	ug/L	1.1	1.0	4850616	N/A
Dissolved Barium (Ba)	ug/L	26	1.0	4850616	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Reporting limit was increased due to turbidity.					

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

<b>Maxxam ID</b>		DVR770			
<b>Sampling Date</b>		2017/01/31 10:45			
<b>COC Number</b>		595821-01-01			
	<b>UNITS</b>	<b>MW12</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	4850616	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	4850616	N/A
Dissolved Boron (B)	ug/L	<50	50	4850616	N/A
Dissolved Cadmium (Cd)	ug/L	0.056	0.010	4850616	N/A
Dissolved Calcium (Ca)	ug/L	3800	100	4850616	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	4850616	N/A
Dissolved Cobalt (Co)	ug/L	12	0.40	4850616	N/A
Dissolved Copper (Cu)	ug/L	2.1	2.0	4850616	N/A
Dissolved Iron (Fe)	ug/L	15000	50	4850616	N/A
Dissolved Lead (Pb)	ug/L	<0.50	0.50	4850616	N/A
Dissolved Magnesium (Mg)	ug/L	1000	100	4850616	N/A
Dissolved Manganese (Mn)	ug/L	680	2.0	4850616	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	4850616	N/A
Dissolved Nickel (Ni)	ug/L	5.5	2.0	4850616	N/A
Dissolved Phosphorus (P)	ug/L	<100	100	4850616	N/A
Dissolved Potassium (K)	ug/L	2600	100	4850616	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	4850616	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	4850616	N/A
Dissolved Sodium (Na)	ug/L	14000	100	4850616	N/A
Dissolved Strontium (Sr)	ug/L	40	2.0	4850616	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	4850616	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	4850616	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	2.0	4850616	N/A
Dissolved Uranium (U)	ug/L	0.20	0.10	4850616	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	4850616	N/A
Dissolved Zinc (Zn)	ug/L	17	5.0	4850616	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable					



Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

### AT. RCAP-MS DISSOLVED (FIELDFIL) IN W

Maxxam ID		DVR755			DVR757	DVR757		DVR759			
Sampling Date		2017/01/31 11:25			2017/01/31 11:00	2017/01/31 11:00		2017/01/31 10:00			
COC Number		595821-01-01			595821-01-01	595821-01-01		595821-01-01			
	UNITS	MW1D	RDL	QC Batch	MW2D	MW2D Lab-Dup	RDL	MW3D	RDL	QC Batch	MDL

#### Calculated Parameters

Anion Sum	me/L	10.8	N/A	4848533	2.92		N/A	4.38	N/A	4848533	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	510	1.0	4848529	120		1.0	190	1.0	4848529	0.20
Calculated TDS	mg/L	550	1.0	4848538	170		1.0	230	1.0	4848538	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	1.2	1.0	4848529	<1.0		1.0	<1.0	1.0	4848529	0.20
Cation Sum	me/L	10.4	N/A	4848533	2.83		N/A	3.50	N/A	4848533	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	440	1.0	4848531	110		1.0	130	1.0	4848531	1.0
Ion Balance (% Difference)	%	1.80	N/A	4848532	1.57		N/A	11.2	N/A	4848532	N/A
Langelier Index (@ 20C)	N/A	0.682		4848536	-0.0450			-0.835		4848536	
Langelier Index (@ 4C)	N/A	0.434		4848537	-0.295			-1.08		4848537	
Nitrate (N)	mg/L	<0.050	0.050	4848534	<0.050		0.050	<0.050	0.050	4848534	N/A
Saturation pH (@ 20C)	N/A	6.72		4848536	7.89			7.65		4848536	
Saturation pH (@ 4C)	N/A	6.97		4848537	8.14			7.90		4848537	

#### Inorganics

Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	510	100	4849251	120		25	190	25	4849251	N/A
Dissolved Chloride (Cl)	mg/L	13	1.0	4849264	11		1.0	18	1.0	4849264	N/A
Colour	TCU	<5.0	5.0	4849291	<5.0		5.0	18	5.0	4849291	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4849305	<0.050		0.050	<0.050	0.050	4849305	N/A
Nitrite (N)	mg/L	<0.010	0.010	4849317	<0.010		0.010	<0.010	0.010	4849317	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	4849175	<0.050		0.050	<0.050	0.050	4849175	N/A
Total Organic Carbon (C)	mg/L	2.3	0.50	4850918	<5.0 (1)		5.0	1.6	0.50	4850918	N/A
Orthophosphate (P)	mg/L	0.025	0.010	4849294	0.040		0.010	0.024	0.010	4849294	N/A
pH	pH	7.40	N/A	4850239	7.85		N/A	6.82	N/A	4850239	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	29	1.0	4849271	20		0.50	27	1.0	4849271	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	6.0	2.0	4849267	12		2.0	6.3	2.0	4849267	N/A
Turbidity	NTU	88	0.10	4850249	>1000		1.0	200	1.0	4850252	0.10
Conductivity	uS/cm	950	1.0	4850240	290		1.0	420	1.0	4850240	N/A

#### Metals

Dissolved Aluminum (Al)	ug/L	<5.0	5.0	4850622	<5.0	<5.0	5.0	<5.0	5.0	4850625	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	4850622	<1.0	<1.0	1.0	<1.0	1.0	4850625	N/A
Dissolved Arsenic (As)	ug/L	5.3	1.0	4850622	9.7	9.6	1.0	2.2	1.0	4850625	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable

(1) Reporting limit was increased due to turbidity.

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

### AT. RCAP-MS DISSOLVED (FIELDILT) IN W

Maxxam ID		DVR755			DVR757	DVR757		DVR759			
Sampling Date		2017/01/31 11:25			2017/01/31 11:00	2017/01/31 11:00		2017/01/31 10:00			
COC Number		595821-01-01			595821-01-01	595821-01-01		595821-01-01			
	UNITS	MW1D	RDL	QC Batch	MW2D	MW2D Lab-Dup	RDL	MW3D	RDL	QC Batch	MDL
Dissolved Barium (Ba)	ug/L	290	1.0	4850622	39	39	1.0	13	1.0	4850625	N/A
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	4850622	<1.0	<1.0	1.0	<1.0	1.0	4850625	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	4850622	<2.0	<2.0	2.0	<2.0	2.0	4850625	N/A
Dissolved Boron (B)	ug/L	<50	50	4850622	970	970	50	<50	50	4850625	N/A
Dissolved Cadmium (Cd)	ug/L	<0.010	0.010	4850622	<0.010	<0.010	0.010	0.016	0.010	4850625	N/A
Dissolved Calcium (Ca)	ug/L	110000	100	4850622	26000	26000	100	30000	100	4850625	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	4850622	<1.0	<1.0	1.0	<1.0	1.0	4850625	N/A
Dissolved Cobalt (Co)	ug/L	0.70	0.40	4850622	<0.40	<0.40	0.40	3.4	0.40	4850625	N/A
Dissolved Copper (Cu)	ug/L	<2.0	2.0	4850622	<2.0	<2.0	2.0	<2.0	2.0	4850625	N/A
Dissolved Iron (Fe)	ug/L	<50	50	4850622	<50	<50	50	73	50	4850625	N/A
Dissolved Lead (Pb)	ug/L	<0.50	0.50	4850622	<0.50	<0.50	0.50	<0.50	0.50	4850625	N/A
Dissolved Magnesium (Mg)	ug/L	39000	100	4850622	11000	11000	100	13000	100	4850625	N/A
Dissolved Manganese (Mn)	ug/L	630	2.0	4850622	200	190	2.0	240	2.0	4850625	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	4850622	<2.0	<2.0	2.0	<2.0	2.0	4850625	N/A
Dissolved Nickel (Ni)	ug/L	3.0	2.0	4850622	2.4	2.3	2.0	7.6	2.0	4850625	N/A
Dissolved Phosphorus (P)	ug/L	<100	100	4850622	<100	<100	100	<100	100	4850625	N/A
Dissolved Potassium (K)	ug/L	11000	100	4850622	3000	3000	100	2800	100	4850625	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	4850622	<1.0	<1.0	1.0	<1.0	1.0	4850625	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	4850622	<0.10	<0.10	0.10	<0.10	0.10	4850625	N/A
Dissolved Sodium (Na)	ug/L	31000	100	4850622	12000	12000	100	21000	100	4850625	N/A
Dissolved Strontium (Sr)	ug/L	430	2.0	4850622	160	160	2.0	170	2.0	4850625	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	4850622	<0.10	<0.10	0.10	<0.10	0.10	4850625	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	4850622	<2.0	<2.0	2.0	<2.0	2.0	4850625	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	2.0	4850622	<2.0	<2.0	2.0	<2.0	2.0	4850625	N/A
Dissolved Uranium (U)	ug/L	3.8	0.10	4850622	1.1	1.1	0.10	0.16	0.10	4850625	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	4850622	<2.0	<2.0	2.0	<2.0	2.0	4850625	N/A
Dissolved Zinc (Zn)	ug/L	14	5.0	4850622	<5.0	<5.0	5.0	8.0	5.0	4850625	N/A

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch  
Lab-Dup = Laboratory Initiated Duplicate  
N/A = Not Applicable

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

### AT. RCAP-MS DISSOLVED (FIELDILT) IN W

Maxxam ID		DVR761			DVR766	DVR766			
Sampling Date		2017/01/31 11:55			2017/01/31 09:50	2017/01/31 09:50			
COC Number		595821-01-01			595821-01-01	595821-01-01			
	UNITS	MW4D	RDL	QC Batch	MW8	MW8 Lab-Dup	RDL	QC Batch	MDL
<b>Calculated Parameters</b>									
Anion Sum	me/L	1.31	N/A	4848533	2.61		N/A	4848533	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	16	1.0	4848529	110		1.0	4848529	0.20
Calculated TDS	mg/L	86	1.0	4848538	160		1.0	4848538	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4848529	<1.0		1.0	4848529	0.20
Cation Sum	me/L	1.16	N/A	4848533	2.69		N/A	4848533	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	34	1.0	4848531	95		1.0	4848531	1.0
Ion Balance (% Difference)	%	6.07	N/A	4848532	1.51		N/A	4848532	N/A
Langelier Index (@ 20C)	N/A	-2.86		4848536	-1.33			4848536	
Langelier Index (@ 4C)	N/A	-3.11		4848537	-1.58			4848537	
Nitrate (N)	mg/L	0.25	0.050	4848534	<0.050		0.050	4848534	N/A
Saturation pH (@ 20C)	N/A	9.19		4848536	7.93			4848536	
Saturation pH (@ 4C)	N/A	9.44		4848537	8.18			4848537	
<b>Inorganics</b>									
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	16	5.0	4849251	110	110	25	4850350	N/A
Dissolved Chloride (Cl)	mg/L	23	1.0	4849264	12	11	1.0	4850359	N/A
Colour	TCU	20	5.0	4849291	<5.0	<5.0	5.0	4850388	N/A
Nitrate + Nitrite (N)	mg/L	0.25	0.050	4849305	<0.050	<0.050	0.050	4850394	N/A
Nitrite (N)	mg/L	<0.010	0.010	4849317	<0.010	<0.010	0.010	4850395	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	4849175	<0.050		0.050	4849179	N/A
Total Organic Carbon (C)	mg/L	1.3	0.50	4850918	5.8 (1)		5.0	4850918	N/A
Orthophosphate (P)	mg/L	0.013	0.010	4849294	0.023	0.022	0.010	4850390	N/A
pH	pH	6.33	N/A	4850239	6.60		N/A	4852494	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	13	0.50	4849271	21	21	0.50	4850377	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	15	2.0	4849267	5.4	5.6	2.0	4850366	N/A
Turbidity	NTU	96	0.10	4850252	>1000		1.0	4850249	0.10
Conductivity	uS/cm	150	1.0	4850240	240		1.0	4852495	N/A
<b>Metals</b>									
Dissolved Aluminum (Al)	ug/L	36	5.0	4850625	5.1		5.0	4850625	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	4850625	<1.0		1.0	4850625	N/A
Dissolved Arsenic (As)	ug/L	<1.0	1.0	4850625	<1.0		1.0	4850625	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Reporting limit was increased due to turbidity.									

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

### AT. RCAP-MS DISSOLVED (FIELDILT) IN W

Maxxam ID		DVR761			DVR766	DVR766			
Sampling Date		2017/01/31 11:55			2017/01/31 09:50	2017/01/31 09:50			
COC Number		595821-01-01			595821-01-01	595821-01-01			
	UNITS	MW4D	RDL	QC Batch	MW8	MW8 Lab-Dup	RDL	QC Batch	MDL
Dissolved Barium (Ba)	ug/L	16	1.0	4850625	16		1.0	4850625	N/A
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	4850625	<1.0		1.0	4850625	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	4850625	<2.0		2.0	4850625	N/A
Dissolved Boron (B)	ug/L	<50	50	4850625	<50		50	4850625	N/A
Dissolved Cadmium (Cd)	ug/L	0.061	0.010	4850625	0.057		0.010	4850625	N/A
Dissolved Calcium (Ca)	ug/L	8400	100	4850625	25000		100	4850625	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	4850625	<1.0		1.0	4850625	N/A
Dissolved Cobalt (Co)	ug/L	3.5	0.40	4850625	4.3		0.40	4850625	N/A
Dissolved Copper (Cu)	ug/L	<2.0	2.0	4850625	<2.0		2.0	4850625	N/A
Dissolved Iron (Fe)	ug/L	380	50	4850625	<50		50	4850625	N/A
Dissolved Lead (Pb)	ug/L	<0.50	0.50	4850625	<0.50		0.50	4850625	N/A
Dissolved Magnesium (Mg)	ug/L	3200	100	4850625	7700		100	4850625	N/A
Dissolved Manganese (Mn)	ug/L	900	2.0	4850625	820		2.0	4850625	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	4850625	<2.0		2.0	4850625	N/A
Dissolved Nickel (Ni)	ug/L	3.6	2.0	4850625	5.1		2.0	4850625	N/A
Dissolved Phosphorus (P)	ug/L	<100	100	4850625	<100		100	4850625	N/A
Dissolved Potassium (K)	ug/L	990	100	4850625	1900		100	4850625	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	4850625	<1.0		1.0	4850625	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	4850625	<0.10		0.10	4850625	N/A
Dissolved Sodium (Na)	ug/L	10000	100	4850625	17000		100	4850625	N/A
Dissolved Strontium (Sr)	ug/L	69	2.0	4850625	140		2.0	4850625	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	4850625	<0.10		0.10	4850625	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	4850625	<2.0		2.0	4850625	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	2.0	4850625	<2.0		2.0	4850625	N/A
Dissolved Uranium (U)	ug/L	<0.10	0.10	4850625	<0.10		0.10	4850625	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	4850625	<2.0		2.0	4850625	N/A
Dissolved Zinc (Zn)	ug/L	5.4	5.0	4850625	5.1		5.0	4850625	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

### AT. RCAP-MS DISSOLVED (FIELDFILTR) IN W

<b>Maxxam ID</b>		DVR771			
<b>Sampling Date</b>		2017/01/31			
<b>COC Number</b>		595821-01-01			
	<b>UNITS</b>	<b>MW-DUP</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Calculated Parameters</b>					
Anion Sum	me/L	2.93	N/A	4848533	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	120	1.0	4848529	0.20
Calculated TDS	mg/L	170	1.0	4848538	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4848529	0.20
Cation Sum	me/L	2.82	N/A	4848533	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	110	1.0	4848531	1.0
Ion Balance (% Difference)	%	1.91	N/A	4848532	N/A
Langelier Index (@ 20C)	N/A	-0.0990		4848536	
Langelier Index (@ 4C)	N/A	-0.350		4848537	
Nitrate (N)	mg/L	0.069	0.050	4848534	N/A
Saturation pH (@ 20C)	N/A	7.90		4848536	
Saturation pH (@ 4C)	N/A	8.15		4848537	
<b>Inorganics</b>					
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	120	25	4850350	N/A
Dissolved Chloride (Cl)	mg/L	12	1.0	4850359	N/A
Colour	TCU	<5.0	5.0	4850388	N/A
Nitrate + Nitrite (N)	mg/L	0.080	0.050	4850394	N/A
Nitrite (N)	mg/L	0.011	0.010	4850395	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	4849179	N/A
Total Organic Carbon (C)	mg/L	<5.0 (1)	5.0	4850918	N/A
Orthophosphate (P)	mg/L	0.040	0.010	4850390	N/A
pH	pH	7.80	N/A	4852494	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	19	0.50	4850377	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	13	2.0	4850366	N/A
Turbidity	NTU	>1000	1.0	4850252	0.10
Conductivity	uS/cm	280	1.0	4852495	N/A
<b>Metals</b>					
Dissolved Aluminum (Al)	ug/L	5.5	5.0	4850625	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	4850625	N/A
Dissolved Arsenic (As)	ug/L	9.5	1.0	4850625	N/A
Dissolved Barium (Ba)	ug/L	38	1.0	4850625	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Reporting limit was increased due to turbidity.					

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

### AT. RCAP-MS DISSOLVED (FIELDILT) IN W

Maxxam ID		DVR771			
Sampling Date		2017/01/31			
COC Number		595821-01-01			
	UNITS	MW-DUP	RDL	QC Batch	MDL
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	4850625	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	4850625	N/A
Dissolved Boron (B)	ug/L	970	50	4850625	N/A
Dissolved Cadmium (Cd)	ug/L	<0.010	0.010	4850625	N/A
Dissolved Calcium (Ca)	ug/L	26000	100	4850625	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	4850625	N/A
Dissolved Cobalt (Co)	ug/L	<0.40	0.40	4850625	N/A
Dissolved Copper (Cu)	ug/L	<2.0	2.0	4850625	N/A
Dissolved Iron (Fe)	ug/L	<50	50	4850625	N/A
Dissolved Lead (Pb)	ug/L	<0.50	0.50	4850625	N/A
Dissolved Magnesium (Mg)	ug/L	11000	100	4850625	N/A
Dissolved Manganese (Mn)	ug/L	200	2.0	4850625	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	4850625	N/A
Dissolved Nickel (Ni)	ug/L	2.3	2.0	4850625	N/A
Dissolved Phosphorus (P)	ug/L	<100	100	4850625	N/A
Dissolved Potassium (K)	ug/L	3000	100	4850625	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	4850625	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	4850625	N/A
Dissolved Sodium (Na)	ug/L	12000	100	4850625	N/A
Dissolved Strontium (Sr)	ug/L	160	2.0	4850625	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	4850625	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	4850625	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	2.0	4850625	N/A
Dissolved Uranium (U)	ug/L	1.1	0.10	4850625	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	4850625	N/A
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	4850625	N/A
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
N/A = Not Applicable					



Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

### MERCURY BY COLD VAPOUR AA (WATER)

Maxxam ID		DVR754	DVR755	DVR755	DVR756	DVR757	DVR758			
Sampling Date		2017/01/31 11:25	2017/01/31 11:25	2017/01/31 11:25	2017/01/31 10:55	2017/01/31 11:00	2017/01/31 10:00			
COC Number		595821-01-01	595821-01-01	595821-01-01	595821-01-01	595821-01-01	595821-01-01			
	UNITS	MW1S	MW1D	MW1D Lab-Dup	MW2S	MW2D	MW3S	RDL	QC Batch	MDL

#### Metals

Total Mercury (Hg)	ug/L	0.013	<0.013	<0.013	<0.013	<0.013	0.022	0.013	4850858	N/A
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RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch  
Lab-Dup = Laboratory Initiated Duplicate  
N/A = Not Applicable

Maxxam ID		DVR759	DVR760	DVR761	DVR762	DVR763	DVR764			
Sampling Date		2017/01/31 10:00	2017/01/31 11:55	2017/01/31 11:55	2017/01/31 11:35	2017/01/31 10:35	2017/01/31 10:35			
COC Number		595821-01-01	595821-01-01	595821-01-01	595821-01-01	595821-01-01	595821-01-01			
	UNITS	MW3D	MW4S	MW4D	MW5S	MW6D	MW6S	RDL	QC Batch	MDL

#### Metals

Total Mercury (Hg)	ug/L	<0.013	0.062	0.015	<0.013	<0.013	0.050	0.013	4850858	N/A
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RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch  
N/A = Not Applicable

Maxxam ID		DVR765	DVR766	DVR767	DVR768	DVR769	DVR770			
Sampling Date		2017/01/31 10:20	2017/01/31 09:50	2017/01/31 09:35	2017/01/31 11:40	2017/01/31 12:00	2017/01/31 10:45			
COC Number		595821-01-01	595821-01-01	595821-01-01	595821-01-01	595821-01-01	595821-01-01			
	UNITS	MW7	MW8	MW9	MW10	MW11	MW12	RDL	QC Batch	MDL

#### Metals

Total Mercury (Hg)	ug/L	0.013	<0.013	<0.013	0.033	0.36	0.017	0.013	4850858	N/A
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RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch  
N/A = Not Applicable

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

### MERCURY BY COLD VAPOUR AA (WATER)

<b>Maxxam ID</b>		DVR771			
<b>Sampling Date</b>		2017/01/31			
<b>COC Number</b>		595821-01-01			
	<b>UNITS</b>	<b>MW-DUP</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Metals</b>					
Total Mercury (Hg)	ug/L	<0.013	0.013	4850869	N/A
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
N/A = Not Applicable					

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

### ELEMENTS BY ICP/MS (WATER)

<b>Maxxam ID</b>		DVR754			DVR755	DVR756	DVR757	DVR758			
<b>Sampling Date</b>		2017/01/31 11:25			2017/01/31 11:25	2017/01/31 10:55	2017/01/31 11:00	2017/01/31 10:00			
<b>COC Number</b>		595821-01-01			595821-01-01	595821-01-01	595821-01-01	595821-01-01			
	<b>UNITS</b>	<b>MW1S</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MW1D</b>	<b>MW2S</b>	<b>MW2D</b>	<b>MW3S</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

<b>Metals</b>											
Total Lead (Pb)	ug/L	120	5.0	4850234	0.75	17	3.9	34	0.50	4850231	N/A
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
N/A = Not Applicable											

<b>Maxxam ID</b>		DVR759			DVR760		DVR761		DVR762		
<b>Sampling Date</b>		2017/01/31 10:00			2017/01/31 11:55		2017/01/31 11:55		2017/01/31 11:35		
<b>COC Number</b>		595821-01-01			595821-01-01		595821-01-01		595821-01-01		
	<b>UNITS</b>	<b>MW3D</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MW4S</b>	<b>RDL</b>	<b>MW4D</b>	<b>QC Batch</b>	<b>MW5S</b>	<b>RDL</b>	<b>QC Batch</b>

<b>Metals</b>											
Total Lead (Pb)	ug/L	2.2	0.50	4850231	190	5.0	0.52	4850234	4.4	0.50	4850231
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
N/A = Not Applicable											

<b>Maxxam ID</b>		DVR763			DVR764		DVR765	DVR766			
<b>Sampling Date</b>		2017/01/31 10:35			2017/01/31 10:35		2017/01/31 10:20	2017/01/31 09:50			
<b>COC Number</b>		595821-01-01			595821-01-01		595821-01-01	595821-01-01			
	<b>UNITS</b>	<b>MW6D</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MW6S</b>	<b>RDL</b>	<b>MW7</b>	<b>MW8</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

<b>Metals</b>											
Total Lead (Pb)	ug/L	21	0.50	4850231	190	5.0	20	16	0.50	4850234	N/A
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
N/A = Not Applicable											

<b>Maxxam ID</b>		DVR767			DVR768	DVR769	DVR770				
<b>Sampling Date</b>		2017/01/31 09:35			2017/01/31 11:40	2017/01/31 12:00	2017/01/31 10:45				
<b>COC Number</b>		595821-01-01			595821-01-01	595821-01-01	595821-01-01				
	<b>UNITS</b>	<b>MW9</b>	<b>QC Batch</b>	<b>MW10</b>	<b>MW11</b>	<b>MW12</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>		

<b>Metals</b>											
Total Lead (Pb)	ug/L	0.58	4850234	5.0	40	36	0.50	4850231	N/A		
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
N/A = Not Applicable											

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

### ELEMENTS BY ICP/MS (WATER)

<b>Maxxam ID</b>		DVR771			
<b>Sampling Date</b>		2017/01/31			
<b>COC Number</b>		595821-01-01			
	<b>UNITS</b>	<b>MW-DUP</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Metals</b>					
Total Lead (Pb)	ug/L	4.8	0.50	4850234	N/A
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
N/A = Not Applicable					

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVR754  
**Sample ID:** MW1S  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/06	Automated Statchk
Alkalinity	KONE	4849251	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4849264	N/A	2017/02/06	Mary Clancey
Colour	KONE	4849291	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4852495	N/A	2017/02/06	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4848531	N/A	2017/02/07	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850858	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4850616	N/A	2017/02/06	Bryon Angevine
Metals Water Total MS	CICP/MS	4850234	2017/02/03	2017/02/06	Bryon Angevine
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849175	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4849305	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4849317	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4852494	N/A	2017/02/06	Julia McGovern
Phosphorus - ortho	KONE	4849294	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4849271	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4849267	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4850918	N/A	2017/02/03	Steven Smith
Turbidity	TURB	4852503	N/A	2017/02/06	Julia McGovern

**Maxxam ID:** DVR755  
**Sample ID:** MW1D  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4849251	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4849264	N/A	2017/02/06	Mary Clancey
Colour	KONE	4849291	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850240	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4848531	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850858	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4850622	N/A	2017/02/06	Bryon Angevine
Metals Water Total MS	CICP/MS	4850231	2017/02/03	2017/02/03	Bryon Angevine
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849175	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4849305	N/A	2017/02/03	Nancy Rogers

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVR755  
**Sample ID:** MW1D  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrite	KONE	4849317	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4850239	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4849294	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4849271	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4849267	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4850918	N/A	2017/02/03	Steven Smith
Turbidity	TURB	4850249	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVR755 Dup  
**Sample ID:** MW1D  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury - Total (CVAA,LL)	CV/AA	4850858	2017/02/03	2017/02/06	Arlene Rossiter

**Maxxam ID:** DVR756  
**Sample ID:** MW2S  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/06	Automated Statchk
Alkalinity	KONE	4849251	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4849264	N/A	2017/02/06	Mary Clancey
Colour	KONE	4849291	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4852495	N/A	2017/02/06	Julia McGovern
Hardness (calculated as CaCO3)		4848531	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850858	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4850616	N/A	2017/02/06	Bryon Angevine
Metals Water Total MS	CICP/MS	4850231	2017/02/03	2017/02/03	Bryon Angevine
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849175	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4849305	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4849317	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4852494	N/A	2017/02/06	Julia McGovern
Phosphorus - ortho	KONE	4849294	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk



Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVR756  
**Sample ID:** MW2S  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Reactive Silica	KONE	4849271	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4849267	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4850918	N/A	2017/02/03	Steven Smith
Turbidity	TURB	4850249	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVR756 Dup  
**Sample ID:** MW2S  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen Ammonia - water	KONE	4849175	N/A	2017/02/06	Mary Clancey

**Maxxam ID:** DVR757  
**Sample ID:** MW2D  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4849251	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4849264	N/A	2017/02/06	Mary Clancey
Colour	KONE	4849291	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850240	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO3)		4848531	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850858	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4850625	N/A	2017/02/04	Bryon Angevine
Metals Water Total MS	CICP/MS	4850231	2017/02/03	2017/02/03	Bryon Angevine
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849175	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4849305	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4849317	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4850239	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4849294	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4849271	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4849267	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4850918	N/A	2017/02/03	Steven Smith
Turbidity	TURB	4850252	N/A	2017/02/03	Julia McGovern

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVR757 Dup  
**Sample ID:** MW2D  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Water Diss. MS (as rec'd)	CICP/MS	4850625	N/A	2017/02/04	Bryon Angevine

**Maxxam ID:** DVR758  
**Sample ID:** MW3S  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/06	Automated Statchk
Alkalinity	KONE	4849251	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4849264	N/A	2017/02/06	Mary Clancey
Colour	KONE	4849291	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4852495	N/A	2017/02/06	Julia McGovern
Hardness (calculated as CaCO3)		4848531	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850858	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4850616	N/A	2017/02/06	Bryon Angevine
Metals Water Total MS	CICP/MS	4850231	2017/02/03	2017/02/03	Bryon Angevine
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849175	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4849305	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4849317	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4852494	N/A	2017/02/06	Julia McGovern
Phosphorus - ortho	KONE	4849294	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4849271	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4849267	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4850918	N/A	2017/02/03	Steven Smith
Turbidity	TURB	4850252	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVR759  
**Sample ID:** MW3D  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4849251	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4849264	N/A	2017/02/06	Mary Clancey
Colour	KONE	4849291	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850240	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO3)		4848531	N/A	2017/02/06	Automated Statchk

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVR759  
**Sample ID:** MW3D  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury - Total (CVAA,LL)	CV/AA	4850858	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4850625	N/A	2017/02/04	Bryon Angevine
Metals Water Total MS	CICP/MS	4850231	2017/02/03	2017/02/03	Bryon Angevine
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849175	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4849305	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4849317	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4850239	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4849294	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4849271	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4849267	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4850918	N/A	2017/02/03	Steven Smith
Turbidity	TURB	4850252	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVR760  
**Sample ID:** MW4S  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/06	Automated Statchk
Alkalinity	KONE	4849251	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4849264	N/A	2017/02/06	Mary Clancey
Colour	KONE	4849291	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4852495	N/A	2017/02/06	Julia McGovern
Hardness (calculated as CaCO3)		4848531	N/A	2017/02/07	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850858	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4850616	N/A	2017/02/06	Bryon Angevine
Metals Water Total MS	CICP/MS	4850234	2017/02/03	2017/02/06	Bryon Angevine
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849175	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4849305	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4849317	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4852494	N/A	2017/02/06	Julia McGovern
Phosphorus - ortho	KONE	4849294	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVR760  
**Sample ID:** MW4S  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Reactive Silica	KONE	4849271	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4849267	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4850918	N/A	2017/02/03	Steven Smith
Turbidity	TURB	4850249	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVR761  
**Sample ID:** MW4D  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4849251	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4849264	N/A	2017/02/06	Mary Clancey
Colour	KONE	4849291	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850240	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO3)		4848531	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850858	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4850625	N/A	2017/02/04	Bryon Angevine
Metals Water Total MS	CICP/MS	4850234	2017/02/03	2017/02/06	Bryon Angevine
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849175	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4849305	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4849317	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4850239	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4849294	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4849271	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4849267	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4850918	N/A	2017/02/03	Steven Smith
Turbidity	TURB	4850252	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVR762  
**Sample ID:** MW5S  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/06	Automated Statchk
Alkalinity	KONE	4849251	N/A	2017/02/06	Nancy Rogers

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVR762  
**Sample ID:** MW55  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride	KONE	4849264	N/A	2017/02/06	Mary Clancey
Colour	KONE	4849291	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4852495	N/A	2017/02/06	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4848531	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850858	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4850616	N/A	2017/02/06	Bryon Angevine
Metals Water Total MS	CICP/MS	4850231	2017/02/03	2017/02/03	Bryon Angevine
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849175	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4849305	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4849317	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4852494	N/A	2017/02/06	Julia McGovern
Phosphorus - ortho	KONE	4849294	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4849271	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4849267	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4850918	N/A	2017/02/03	Steven Smith
Turbidity	TURB	4850252	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVR763  
**Sample ID:** MW6D  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4849251	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4849264	N/A	2017/02/06	Mary Clancey
Colour	KONE	4849291	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850240	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4848531	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850858	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4850616	N/A	2017/02/06	Bryon Angevine
Metals Water Total MS	CICP/MS	4850231	2017/02/03	2017/02/03	Bryon Angevine
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849175	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4849305	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4849317	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVR763  
**Sample ID:** MW6D  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	4850239	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4849294	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4849271	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4849267	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4850918	N/A	2017/02/03	Steven Smith
Turbidity	TURB	4850252	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVR764  
**Sample ID:** MW6S  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/06	Automated Statchk
Alkalinity	KONE	4849251	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4849264	N/A	2017/02/06	Mary Clancey
Colour	KONE	4849291	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4852495	N/A	2017/02/06	Julia McGovern
Hardness (calculated as CaCO3)		4848531	N/A	2017/02/07	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850858	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4850616	N/A	2017/02/06	Bryon Angevine
Metals Water Total MS	CICP/MS	4850234	2017/02/03	2017/02/06	Bryon Angevine
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849179	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4849305	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4849317	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4852494	N/A	2017/02/06	Julia McGovern
Phosphorus - ortho	KONE	4849294	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4849271	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4849267	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4850918	N/A	2017/02/03	Steven Smith
Turbidity	TURB	4850252	N/A	2017/02/03	Julia McGovern



Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVR765  
**Sample ID:** MW7  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4849251	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4849264	N/A	2017/02/06	Mary Clancey
Colour	KONE	4849291	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850240	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4848531	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850858	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4850616	N/A	2017/02/06	Bryon Angevine
Metals Water Total MS	CICP/MS	4850234	2017/02/03	2017/02/03	Bryon Angevine
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849179	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4849305	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4849317	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4850239	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4849294	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4849271	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4849267	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4850918	N/A	2017/02/03	Steven Smith
Turbidity	TURB	4850252	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVR766  
**Sample ID:** MW8  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/06	Automated Statchk
Alkalinity	KONE	4850350	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850359	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850388	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4852495	N/A	2017/02/06	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4848531	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850858	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4850625	N/A	2017/02/04	Bryon Angevine
Metals Water Total MS	CICP/MS	4850234	2017/02/03	2017/02/03	Bryon Angevine
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849179	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850394	N/A	2017/02/03	Nancy Rogers

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVR766  
**Sample ID:** MW8  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrite	KONE	4850395	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4852494	N/A	2017/02/06	Julia McGovern
Phosphorus - ortho	KONE	4850390	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850377	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850366	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4850918	N/A	2017/02/03	Steven Smith
Turbidity	TURB	4850249	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVR766 Dup  
**Sample ID:** MW8  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	KONE	4850350	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850359	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850388	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850394	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850395	N/A	2017/02/03	Nancy Rogers
Phosphorus - ortho	KONE	4850390	N/A	2017/02/06	Nancy Rogers
Reactive Silica	KONE	4850377	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850366	N/A	2017/02/06	Mary Clancey

**Maxxam ID:** DVR767  
**Sample ID:** MW9  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850350	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850359	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850388	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850240	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO3)		4848531	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850858	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4850616	N/A	2017/02/04	Bryon Angevine
Metals Water Total MS	CICP/MS	4850234	2017/02/03	2017/02/03	Bryon Angevine
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849179	N/A	2017/02/06	Mary Clancey

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVR767  
**Sample ID:** MW9  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrate + Nitrite	KONE	4850394	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850395	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4850239	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850390	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850377	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850366	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4850918	N/A	2017/02/03	Steven Smith
Turbidity	TURB	4850252	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVR768  
**Sample ID:** MW10  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/06	Automated Statchk
Alkalinity	KONE	4850350	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850359	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850388	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4852495	N/A	2017/02/06	Julia McGovern
Hardness (calculated as CaCO3)		4848531	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850858	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4850616	N/A	2017/02/06	Bryon Angevine
Metals Water Total MS	CICP/MS	4850231	2017/02/03	2017/02/03	Bryon Angevine
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849179	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850394	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850395	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4852494	N/A	2017/02/06	Julia McGovern
Phosphorus - ortho	KONE	4850390	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850377	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850366	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4850918	N/A	2017/02/03	Steven Smith
Turbidity	TURB	4850249	N/A	2017/02/03	Julia McGovern

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVR769  
**Sample ID:** MW11  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850350	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850359	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850388	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850240	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4848531	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850858	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4850616	N/A	2017/02/04	Bryon Angevine
Metals Water Total MS	CICP/MS	4850231	2017/02/03	2017/02/03	Bryon Angevine
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849179	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850394	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850395	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4850239	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850390	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850377	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850366	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4850918	N/A	2017/02/03	Steven Smith
Turbidity	TURB	4850249	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVR770  
**Sample ID:** MW12  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850350	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850359	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850388	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850240	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4848531	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850858	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4850616	N/A	2017/02/04	Bryon Angevine
Metals Water Total MS	CICP/MS	4850231	2017/02/03	2017/02/03	Bryon Angevine
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849179	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850394	N/A	2017/02/03	Nancy Rogers

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Englobe Corp.  
Client Project #: P-0010903  
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Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVR770  
**Sample ID:** MW12  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrite	KONE	4850395	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4850239	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850390	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850377	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850366	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4850918	N/A	2017/02/03	Steven Smith
Turbidity	TURB	4850252	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVR771  
**Sample ID:** MW-DUP  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/06	Automated Statchk
Alkalinity	KONE	4850350	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850359	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850388	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4852495	N/A	2017/02/06	Julia McGovern
Hardness (calculated as CaCO3)		4848531	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850869	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4850625	N/A	2017/02/04	Bryon Angevine
Metals Water Total MS	CICP/MS	4850234	2017/02/03	2017/02/03	Bryon Angevine
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849179	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850394	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850395	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4852494	N/A	2017/02/06	Julia McGovern
Phosphorus - ortho	KONE	4850390	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850377	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850366	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4850918	N/A	2017/02/03	Steven Smith
Turbidity	TURB	4850252	N/A	2017/02/03	Julia McGovern

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## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.0°C
Package 2	3.0°C
Package 3	3.3°C
Package 4	5.3°C

Poor RCap Ion Balance due to sample matrix. Cation sum does not include contribution from manganese.

Sample DVR754 [MW1S] : Elevated reporting limits for trace metals due to sample matrix.

Poor RCap Ion Balance due to sample matrix. Possibly due to fine particulate matter.

Sample DVR758 [MW3S] : Poor RCap Ion Balance due to sample matrix. Possibly due to fine particulate matter.

Sample DVR759 [MW3D] : Poor RCap Ion Balance due to sample matrix.

Sample DVR760 [MW4S] : Elevated reporting limits for trace metals due to sample matrix. Cation sum does not include contribution from manganese.

Sample DVR761 [MW4D] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample DVR763 [MW6D] : Poor RCap Ion Balance due to sample matrix. Possibly due to fine particulate matter.

Sample DVR764 [MW6S] : Elevated reporting limits for trace metals due to sample matrix.

Poor RCap Ion Balance due to sample matrix. Possibly due to fine particulate matter.

Sample DVR765 [MW7] : Poor RCap Ion Balance due to sample matrix. Possibly due to fine particulate matter.

Sample DVR767 [MW9] : Poor RCap Ion Balance due to sample matrix. Possibly due to fine particulate matter.

Sample DVR770 [MW12] : Poor RCap Ion Balance due to sample matrix. Possibly due to fine particulate matter.

**Results relate only to the items tested.**



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### QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4849175	MCN	Matrix Spike(DVR756)	Nitrogen (Ammonia Nitrogen)	2017/02/06		100	%	80 - 120
4849175	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2017/02/06		107	%	80 - 120
4849175	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2017/02/06	<0.050		mg/L	
4849175	MCN	RPD - Sample/Sample Dup	Nitrogen (Ammonia Nitrogen)	2017/02/06	NC		%	20
4849179	MCN	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2017/02/06		104	%	80 - 120
4849179	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2017/02/06		106	%	80 - 120
4849179	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2017/02/06	<0.050		mg/L	
4849179	MCN	RPD - Sample/Sample Dup	Nitrogen (Ammonia Nitrogen)	2017/02/06	NC		%	20
4849251	NRG	Matrix Spike	Total Alkalinity (Total as CaCO <sub>3</sub> )	2017/02/06		107	%	80 - 120
4849251	NRG	Spiked Blank	Total Alkalinity (Total as CaCO <sub>3</sub> )	2017/02/06		108	%	80 - 120
4849251	NRG	Method Blank	Total Alkalinity (Total as CaCO <sub>3</sub> )	2017/02/06	<5.0		mg/L	
4849251	NRG	RPD - Sample/Sample Dup	Total Alkalinity (Total as CaCO <sub>3</sub> )	2017/02/06	NC		%	25
4849264	MCN	Matrix Spike	Dissolved Chloride (Cl)	2017/02/06		NC	%	80 - 120
4849264	MCN	QC Standard	Dissolved Chloride (Cl)	2017/02/06		110	%	80 - 120
4849264	MCN	Spiked Blank	Dissolved Chloride (Cl)	2017/02/06		103	%	80 - 120
4849264	MCN	Method Blank	Dissolved Chloride (Cl)	2017/02/06	<1.0		mg/L	
4849264	MCN	RPD - Sample/Sample Dup	Dissolved Chloride (Cl)	2017/02/06	1.0		%	25
4849267	MCN	Matrix Spike	Dissolved Sulphate (SO <sub>4</sub> )	2017/02/06		105	%	80 - 120
4849267	MCN	Spiked Blank	Dissolved Sulphate (SO <sub>4</sub> )	2017/02/06		98	%	80 - 120
4849267	MCN	Method Blank	Dissolved Sulphate (SO <sub>4</sub> )	2017/02/06	<2.0		mg/L	
4849267	MCN	RPD - Sample/Sample Dup	Dissolved Sulphate (SO <sub>4</sub> )	2017/02/06	NC		%	25
4849271	NRG	Matrix Spike	Reactive Silica (SiO <sub>2</sub> )	2017/02/06		99	%	80 - 120
4849271	NRG	Spiked Blank	Reactive Silica (SiO <sub>2</sub> )	2017/02/06		102	%	80 - 120
4849271	NRG	Method Blank	Reactive Silica (SiO <sub>2</sub> )	2017/02/06	<0.50		mg/L	
4849271	NRG	RPD - Sample/Sample Dup	Reactive Silica (SiO <sub>2</sub> )	2017/02/06	NC		%	25
4849291	MCN	Spiked Blank	Colour	2017/02/06		92	%	80 - 120
4849291	MCN	Method Blank	Colour	2017/02/06	<5.0		TCU	
4849291	MCN	RPD - Sample/Sample Dup	Colour	2017/02/06	NC		%	20
4849294	NRG	Matrix Spike	Orthophosphate (P)	2017/02/06		92	%	80 - 120
4849294	NRG	Spiked Blank	Orthophosphate (P)	2017/02/06		97	%	80 - 120
4849294	NRG	Method Blank	Orthophosphate (P)	2017/02/06	<0.010		mg/L	
4849294	NRG	RPD - Sample/Sample Dup	Orthophosphate (P)	2017/02/06	NC		%	25
4849305	NRG	Matrix Spike	Nitrate + Nitrite (N)	2017/02/03		96	%	80 - 120
4849305	NRG	Spiked Blank	Nitrate + Nitrite (N)	2017/02/03		97	%	80 - 120
4849305	NRG	Method Blank	Nitrate + Nitrite (N)	2017/02/03	0.079, RDL=0.050		mg/L	
4849305	NRG	RPD - Sample/Sample Dup	Nitrate + Nitrite (N)	2017/02/03	7.0		%	25
4849317	NRG	Matrix Spike	Nitrite (N)	2017/02/03		84	%	80 - 120
4849317	NRG	Spiked Blank	Nitrite (N)	2017/02/03		87	%	80 - 120
4849317	NRG	Method Blank	Nitrite (N)	2017/02/03	<0.010		mg/L	
4849317	NRG	RPD - Sample/Sample Dup	Nitrite (N)	2017/02/03	NC		%	25
4850231	BAN	Matrix Spike	Total Lead (Pb)	2017/02/03		93	%	80 - 120
4850231	BAN	Spiked Blank	Total Lead (Pb)	2017/02/03		93	%	80 - 120
4850231	BAN	Method Blank	Total Lead (Pb)	2017/02/03	<0.50		ug/L	
4850231	BAN	RPD - Sample/Sample Dup	Total Lead (Pb)	2017/02/03	NC		%	20
4850234	BAN	Matrix Spike	Total Lead (Pb)	2017/02/03		90	%	80 - 120
4850234	BAN	Spiked Blank	Total Lead (Pb)	2017/02/03		96	%	80 - 120
4850234	BAN	Method Blank	Total Lead (Pb)	2017/02/03	<0.50		ug/L	
4850234	BAN	RPD - Sample/Sample Dup	Total Lead (Pb)	2017/02/03	NC		%	20
4850239	JMV	QC Standard	pH	2017/02/03		101	%	97 - 103
4850239	JMV	RPD - Sample/Sample Dup	pH	2017/02/03	1.3		%	N/A

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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4850240	JMV	Spiked Blank	Conductivity	2017/02/03		103	%	80 - 120
4850240	JMV	Method Blank	Conductivity	2017/02/03	1.5, RDL=1.0		uS/cm	
4850240	JMV	RPD - Sample/Sample Dup	Conductivity	2017/02/03	0.0013		%	25
4850249	JMV	QC Standard	Turbidity	2017/02/03		97	%	80 - 120
4850249	JMV	Spiked Blank	Turbidity	2017/02/03		92	%	80 - 120
4850249	JMV	Method Blank	Turbidity	2017/02/03	<0.10		NTU	
4850249	JMV	RPD - Sample/Sample Dup	Turbidity	2017/02/03	NC		%	20
4850252	JMV	QC Standard	Turbidity	2017/02/03		97	%	80 - 120
4850252	JMV	Spiked Blank	Turbidity	2017/02/03		92	%	80 - 120
4850252	JMV	Method Blank	Turbidity	2017/02/03	<0.10		NTU	
4850252	JMV	RPD - Sample/Sample Dup	Turbidity	2017/02/03	NC		%	20
4850350	NRG	Matrix Spike(DVR766)	Total Alkalinity (Total as CaCO3)	2017/02/06		NC	%	80 - 120
4850350	NRG	Spiked Blank	Total Alkalinity (Total as CaCO3)	2017/02/06		109	%	80 - 120
4850350	NRG	Method Blank	Total Alkalinity (Total as CaCO3)	2017/02/06	<5.0		mg/L	
4850350	NRG	RPD - Sample/Sample Dup	Total Alkalinity (Total as CaCO3)	2017/02/06	NC		%	25
4850359	MCN	Matrix Spike(DVR766)	Dissolved Chloride (Cl)	2017/02/06		NC	%	80 - 120
4850359	MCN	QC Standard	Dissolved Chloride (Cl)	2017/02/06		108	%	80 - 120
4850359	MCN	Spiked Blank	Dissolved Chloride (Cl)	2017/02/06		106	%	80 - 120
4850359	MCN	Method Blank	Dissolved Chloride (Cl)	2017/02/06	<1.0		mg/L	
4850359	MCN	RPD - Sample/Sample Dup	Dissolved Chloride (Cl)	2017/02/06	6.0		%	25
4850366	MCN	Matrix Spike(DVR766)	Dissolved Sulphate (SO4)	2017/02/06		110	%	80 - 120
4850366	MCN	Spiked Blank	Dissolved Sulphate (SO4)	2017/02/06		100	%	80 - 120
4850366	MCN	Method Blank	Dissolved Sulphate (SO4)	2017/02/06	<2.0		mg/L	
4850366	MCN	RPD - Sample/Sample Dup	Dissolved Sulphate (SO4)	2017/02/06	NC		%	25
4850377	NRG	Matrix Spike(DVR766)	Reactive Silica (SiO2)	2017/02/06		NC	%	80 - 120
4850377	NRG	Spiked Blank	Reactive Silica (SiO2)	2017/02/06		104	%	80 - 120
4850377	NRG	Method Blank	Reactive Silica (SiO2)	2017/02/06	<0.50		mg/L	
4850377	NRG	RPD - Sample/Sample Dup	Reactive Silica (SiO2)	2017/02/06	0.47		%	25
4850388	MCN	Spiked Blank	Colour	2017/02/06		99	%	80 - 120
4850388	MCN	Method Blank	Colour	2017/02/06	<5.0		TCU	
4850388	MCN	RPD - Sample/Sample Dup	Colour	2017/02/06	NC		%	20
4850390	NRG	Matrix Spike(DVR766)	Orthophosphate (P)	2017/02/06		91	%	80 - 120
4850390	NRG	Spiked Blank	Orthophosphate (P)	2017/02/06		96	%	80 - 120
4850390	NRG	Method Blank	Orthophosphate (P)	2017/02/06	<0.010		mg/L	
4850390	NRG	RPD - Sample/Sample Dup	Orthophosphate (P)	2017/02/06	NC		%	25
4850394	NRG	Matrix Spike(DVR766)	Nitrate + Nitrite (N)	2017/02/03		92	%	80 - 120
4850394	NRG	Spiked Blank	Nitrate + Nitrite (N)	2017/02/03		100	%	80 - 120
4850394	NRG	Method Blank	Nitrate + Nitrite (N)	2017/02/03	<0.050		mg/L	
4850394	NRG	RPD - Sample/Sample Dup	Nitrate + Nitrite (N)	2017/02/03	NC		%	25
4850395	NRG	Matrix Spike(DVR766)	Nitrite (N)	2017/02/03		84	%	80 - 120
4850395	NRG	Spiked Blank	Nitrite (N)	2017/02/03		85	%	80 - 120
4850395	NRG	Method Blank	Nitrite (N)	2017/02/03	<0.010		mg/L	
4850395	NRG	RPD - Sample/Sample Dup	Nitrite (N)	2017/02/03	NC		%	25
4850616	BAN	Matrix Spike	Dissolved Aluminum (Al)	2017/02/06		105	%	80 - 120
			Dissolved Antimony (Sb)	2017/02/06		107	%	80 - 120
			Dissolved Arsenic (As)	2017/02/06		98	%	80 - 120
			Dissolved Barium (Ba)	2017/02/06		100	%	80 - 120
			Dissolved Beryllium (Be)	2017/02/06		101	%	80 - 120
			Dissolved Bismuth (Bi)	2017/02/06		107	%	80 - 120
			Dissolved Boron (B)	2017/02/06		98	%	80 - 120

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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4850616	BAN	Spiked Blank	Dissolved Cadmium (Cd)	2017/02/06		101	%	80 - 120
			Dissolved Calcium (Ca)	2017/02/06		96	%	80 - 120
			Dissolved Chromium (Cr)	2017/02/06		95	%	80 - 120
			Dissolved Cobalt (Co)	2017/02/06		98	%	80 - 120
			Dissolved Copper (Cu)	2017/02/06		96	%	80 - 120
			Dissolved Iron (Fe)	2017/02/06		102	%	80 - 120
			Dissolved Lead (Pb)	2017/02/06		101	%	80 - 120
			Dissolved Magnesium (Mg)	2017/02/06		103	%	80 - 120
			Dissolved Manganese (Mn)	2017/02/06		99	%	80 - 120
			Dissolved Molybdenum (Mo)	2017/02/06		102	%	80 - 120
			Dissolved Nickel (Ni)	2017/02/06		99	%	80 - 120
			Dissolved Phosphorus (P)	2017/02/06		105	%	80 - 120
			Dissolved Potassium (K)	2017/02/06		104	%	80 - 120
			Dissolved Selenium (Se)	2017/02/06		99	%	80 - 120
			Dissolved Silver (Ag)	2017/02/06		100	%	80 - 120
			Dissolved Sodium (Na)	2017/02/06		100	%	80 - 120
			Dissolved Strontium (Sr)	2017/02/06		101	%	80 - 120
			Dissolved Thallium (Tl)	2017/02/06		106	%	80 - 120
			Dissolved Tin (Sn)	2017/02/06		106	%	80 - 120
			Dissolved Titanium (Ti)	2017/02/06		101	%	80 - 120
			Dissolved Uranium (U)	2017/02/06		109	%	80 - 120
			Dissolved Vanadium (V)	2017/02/06		101	%	80 - 120
			Dissolved Zinc (Zn)	2017/02/06		101	%	80 - 120
			Dissolved Aluminum (Al)	2017/02/06		108	%	80 - 120
			Dissolved Antimony (Sb)	2017/02/06		103	%	80 - 120
			Dissolved Arsenic (As)	2017/02/06		96	%	80 - 120
			Dissolved Barium (Ba)	2017/02/06		99	%	80 - 120
			Dissolved Beryllium (Be)	2017/02/06		100	%	80 - 120
			Dissolved Bismuth (Bi)	2017/02/06		103	%	80 - 120
			Dissolved Boron (B)	2017/02/06		95	%	80 - 120
			Dissolved Cadmium (Cd)	2017/02/06		100	%	80 - 120
			Dissolved Calcium (Ca)	2017/02/06		98	%	80 - 120
			Dissolved Chromium (Cr)	2017/02/06		93	%	80 - 120
			Dissolved Cobalt (Co)	2017/02/06		95	%	80 - 120
			Dissolved Copper (Cu)	2017/02/06		94	%	80 - 120
			Dissolved Iron (Fe)	2017/02/06		103	%	80 - 120
			Dissolved Lead (Pb)	2017/02/06		100	%	80 - 120
			Dissolved Magnesium (Mg)	2017/02/06		104	%	80 - 120
			Dissolved Manganese (Mn)	2017/02/06		97	%	80 - 120
			Dissolved Molybdenum (Mo)	2017/02/06		98	%	80 - 120
			Dissolved Nickel (Ni)	2017/02/06		97	%	80 - 120
			Dissolved Phosphorus (P)	2017/02/06		109	%	80 - 120
			Dissolved Potassium (K)	2017/02/06		107	%	80 - 120
			Dissolved Selenium (Se)	2017/02/06		97	%	80 - 120
			Dissolved Silver (Ag)	2017/02/06		98	%	80 - 120
			Dissolved Sodium (Na)	2017/02/06		100	%	80 - 120
			Dissolved Strontium (Sr)	2017/02/06		101	%	80 - 120
			Dissolved Thallium (Tl)	2017/02/06		102	%	80 - 120
			Dissolved Tin (Sn)	2017/02/06		105	%	80 - 120
			Dissolved Titanium (Ti)	2017/02/06		100	%	80 - 120
			Dissolved Uranium (U)	2017/02/06		109	%	80 - 120

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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4850616	BAN	Method Blank		Dissolved Vanadium (V)	2017/02/06		99	%	80 - 120
				Dissolved Zinc (Zn)	2017/02/06		99	%	80 - 120
				Dissolved Aluminum (Al)	2017/02/06	<5.0		ug/L	
				Dissolved Antimony (Sb)	2017/02/06	<1.0		ug/L	
				Dissolved Arsenic (As)	2017/02/06	<1.0		ug/L	
				Dissolved Barium (Ba)	2017/02/06	<1.0		ug/L	
				Dissolved Beryllium (Be)	2017/02/06	<1.0		ug/L	
				Dissolved Bismuth (Bi)	2017/02/06	<2.0		ug/L	
				Dissolved Boron (B)	2017/02/06	<50		ug/L	
				Dissolved Cadmium (Cd)	2017/02/06	<0.010		ug/L	
				Dissolved Calcium (Ca)	2017/02/06	<100		ug/L	
				Dissolved Chromium (Cr)	2017/02/06	<1.0		ug/L	
				Dissolved Cobalt (Co)	2017/02/06	<0.40		ug/L	
				Dissolved Copper (Cu)	2017/02/06	<2.0		ug/L	
				Dissolved Iron (Fe)	2017/02/06	<50		ug/L	
				Dissolved Lead (Pb)	2017/02/06	<0.50		ug/L	
				Dissolved Magnesium (Mg)	2017/02/06	<100		ug/L	
				Dissolved Manganese (Mn)	2017/02/06	<2.0		ug/L	
				Dissolved Molybdenum (Mo)	2017/02/06	<2.0		ug/L	
				Dissolved Nickel (Ni)	2017/02/06	<2.0		ug/L	
				Dissolved Phosphorus (P)	2017/02/06	<100		ug/L	
				Dissolved Potassium (K)	2017/02/06	<100		ug/L	
				Dissolved Selenium (Se)	2017/02/06	<1.0		ug/L	
				Dissolved Silver (Ag)	2017/02/06	<0.10		ug/L	
				Dissolved Sodium (Na)	2017/02/06	<100		ug/L	
				Dissolved Strontium (Sr)	2017/02/06	<2.0		ug/L	
				Dissolved Thallium (Tl)	2017/02/06	<0.10		ug/L	
				Dissolved Tin (Sn)	2017/02/06	<2.0		ug/L	
				Dissolved Titanium (Ti)	2017/02/06	<2.0		ug/L	
				Dissolved Uranium (U)	2017/02/06	<0.10		ug/L	
				Dissolved Vanadium (V)	2017/02/06	<2.0		ug/L	
				Dissolved Zinc (Zn)	2017/02/06	<5.0		ug/L	
4850616	BAN	RPD - Sample/Sample Dup		Dissolved Aluminum (Al)	2017/02/06	NC		%	20
				Dissolved Antimony (Sb)	2017/02/06	NC		%	20
				Dissolved Arsenic (As)	2017/02/06	NC		%	20
				Dissolved Barium (Ba)	2017/02/06	NC		%	20
				Dissolved Beryllium (Be)	2017/02/06	NC		%	20
				Dissolved Bismuth (Bi)	2017/02/06	NC		%	20
				Dissolved Boron (B)	2017/02/06	NC		%	20
				Dissolved Cadmium (Cd)	2017/02/06	NC		%	20
				Dissolved Calcium (Ca)	2017/02/06	NC		%	20
				Dissolved Chromium (Cr)	2017/02/06	NC		%	20
				Dissolved Cobalt (Co)	2017/02/06	NC		%	20
				Dissolved Copper (Cu)	2017/02/06	NC		%	20
				Dissolved Iron (Fe)	2017/02/06	NC		%	20
				Dissolved Lead (Pb)	2017/02/06	NC		%	20
				Dissolved Magnesium (Mg)	2017/02/06	NC		%	20
				Dissolved Manganese (Mn)	2017/02/06	NC		%	20
				Dissolved Molybdenum (Mo)	2017/02/06	NC		%	20
				Dissolved Nickel (Ni)	2017/02/06	NC		%	20
				Dissolved Phosphorus (P)	2017/02/06	NC		%	20

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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
				Dissolved Potassium (K)	2017/02/06	NC		%	20
				Dissolved Selenium (Se)	2017/02/06	NC		%	20
				Dissolved Silver (Ag)	2017/02/06	NC		%	20
				Dissolved Sodium (Na)	2017/02/06	NC		%	20
				Dissolved Strontium (Sr)	2017/02/06	NC		%	20
				Dissolved Thallium (Tl)	2017/02/06	NC		%	20
				Dissolved Tin (Sn)	2017/02/06	NC		%	20
				Dissolved Titanium (Ti)	2017/02/06	NC		%	20
				Dissolved Uranium (U)	2017/02/06	NC		%	20
				Dissolved Vanadium (V)	2017/02/06	NC		%	20
				Dissolved Zinc (Zn)	2017/02/06	NC		%	20
4850622	BAN		Matrix Spike	Dissolved Aluminum (Al)	2017/02/06		113	%	80 - 120
				Dissolved Antimony (Sb)	2017/02/06		108	%	80 - 120
				Dissolved Arsenic (As)	2017/02/06		102	%	80 - 120
				Dissolved Barium (Ba)	2017/02/06		NC	%	80 - 120
				Dissolved Beryllium (Be)	2017/02/06		94	%	80 - 120
				Dissolved Bismuth (Bi)	2017/02/06		96	%	80 - 120
				Dissolved Boron (B)	2017/02/06		91	%	80 - 120
				Dissolved Cadmium (Cd)	2017/02/06		101	%	80 - 120
				Dissolved Calcium (Ca)	2017/02/06		NC	%	80 - 120
				Dissolved Chromium (Cr)	2017/02/06		97	%	80 - 120
				Dissolved Cobalt (Co)	2017/02/06		95	%	80 - 120
				Dissolved Copper (Cu)	2017/02/06		91	%	80 - 120
				Dissolved Iron (Fe)	2017/02/06		108	%	80 - 120
				Dissolved Lead (Pb)	2017/02/06		95	%	80 - 120
				Dissolved Magnesium (Mg)	2017/02/06		NC	%	80 - 120
				Dissolved Manganese (Mn)	2017/02/06		NC	%	80 - 120
				Dissolved Molybdenum (Mo)	2017/02/06		108	%	80 - 120
				Dissolved Nickel (Ni)	2017/02/06		95	%	80 - 120
				Dissolved Phosphorus (P)	2017/02/06		111	%	80 - 120
				Dissolved Potassium (K)	2017/02/06		NC	%	80 - 120
				Dissolved Selenium (Se)	2017/02/06		99	%	80 - 120
				Dissolved Silver (Ag)	2017/02/06		98	%	80 - 120
				Dissolved Sodium (Na)	2017/02/06		NC	%	80 - 120
				Dissolved Strontium (Sr)	2017/02/06		NC	%	80 - 120
				Dissolved Thallium (Tl)	2017/02/06		101	%	80 - 120
				Dissolved Tin (Sn)	2017/02/06		108	%	80 - 120
				Dissolved Titanium (Ti)	2017/02/06		104	%	80 - 120
				Dissolved Uranium (U)	2017/02/06		110	%	80 - 120
				Dissolved Vanadium (V)	2017/02/06		99	%	80 - 120
				Dissolved Zinc (Zn)	2017/02/06		97	%	80 - 120
4850622	BAN		Spiked Blank	Dissolved Aluminum (Al)	2017/02/06		119	%	80 - 120
				Dissolved Antimony (Sb)	2017/02/06		101	%	80 - 120
				Dissolved Arsenic (As)	2017/02/06		99	%	80 - 120
				Dissolved Barium (Ba)	2017/02/06		97	%	80 - 120
				Dissolved Beryllium (Be)	2017/02/06		92	%	80 - 120
				Dissolved Bismuth (Bi)	2017/02/06		104	%	80 - 120
				Dissolved Boron (B)	2017/02/06		93	%	80 - 120
				Dissolved Cadmium (Cd)	2017/02/06		102	%	80 - 120
				Dissolved Calcium (Ca)	2017/02/06		105	%	80 - 120
				Dissolved Chromium (Cr)	2017/02/06		98	%	80 - 120



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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC				Date		%		
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Cobalt (Co)	2017/02/06		99	%	80 - 120
			Dissolved Copper (Cu)	2017/02/06		98	%	80 - 120
			Dissolved Iron (Fe)	2017/02/06		113	%	80 - 120
			Dissolved Lead (Pb)	2017/02/06		100	%	80 - 120
			Dissolved Magnesium (Mg)	2017/02/06		115	%	80 - 120
			Dissolved Manganese (Mn)	2017/02/06		103	%	80 - 120
			Dissolved Molybdenum (Mo)	2017/02/06		101	%	80 - 120
			Dissolved Nickel (Ni)	2017/02/06		101	%	80 - 120
			Dissolved Phosphorus (P)	2017/02/06		116	%	80 - 120
			Dissolved Potassium (K)	2017/02/06		115	%	80 - 120
			Dissolved Selenium (Se)	2017/02/06		100	%	80 - 120
			Dissolved Silver (Ag)	2017/02/06		98	%	80 - 120
			Dissolved Sodium (Na)	2017/02/06		104	%	80 - 120
			Dissolved Strontium (Sr)	2017/02/06		103	%	80 - 120
			Dissolved Thallium (Tl)	2017/02/06		103	%	80 - 120
			Dissolved Tin (Sn)	2017/02/06		105	%	80 - 120
			Dissolved Titanium (Ti)	2017/02/06		100	%	80 - 120
			Dissolved Uranium (U)	2017/02/06		111	%	80 - 120
			Dissolved Vanadium (V)	2017/02/06		97	%	80 - 120
			Dissolved Zinc (Zn)	2017/02/06		103	%	80 - 120
4850622	BAN	Method Blank	Dissolved Aluminum (Al)	2017/02/06	<5.0		ug/L	
			Dissolved Antimony (Sb)	2017/02/06	<1.0		ug/L	
			Dissolved Arsenic (As)	2017/02/06	<1.0		ug/L	
			Dissolved Barium (Ba)	2017/02/06	<1.0		ug/L	
			Dissolved Beryllium (Be)	2017/02/06	<1.0		ug/L	
			Dissolved Bismuth (Bi)	2017/02/06	<2.0		ug/L	
			Dissolved Boron (B)	2017/02/06	<50		ug/L	
			Dissolved Cadmium (Cd)	2017/02/06	<0.010		ug/L	
			Dissolved Calcium (Ca)	2017/02/06	<100		ug/L	
			Dissolved Chromium (Cr)	2017/02/06	<1.0		ug/L	
			Dissolved Cobalt (Co)	2017/02/06	<0.40		ug/L	
			Dissolved Copper (Cu)	2017/02/06	<2.0		ug/L	
			Dissolved Iron (Fe)	2017/02/06	<50		ug/L	
			Dissolved Lead (Pb)	2017/02/06	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2017/02/06	<100		ug/L	
			Dissolved Manganese (Mn)	2017/02/06	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2017/02/06	<2.0		ug/L	
			Dissolved Nickel (Ni)	2017/02/06	<2.0		ug/L	
			Dissolved Phosphorus (P)	2017/02/06	<100		ug/L	
			Dissolved Potassium (K)	2017/02/06	<100		ug/L	
			Dissolved Selenium (Se)	2017/02/06	<1.0		ug/L	
			Dissolved Silver (Ag)	2017/02/06	<0.10		ug/L	
			Dissolved Sodium (Na)	2017/02/06	<100		ug/L	
			Dissolved Strontium (Sr)	2017/02/06	<2.0		ug/L	
			Dissolved Thallium (Tl)	2017/02/06	<0.10		ug/L	
			Dissolved Tin (Sn)	2017/02/06	<2.0		ug/L	
			Dissolved Titanium (Ti)	2017/02/06	<2.0		ug/L	
			Dissolved Uranium (U)	2017/02/06	<0.10		ug/L	
			Dissolved Vanadium (V)	2017/02/06	<2.0		ug/L	
			Dissolved Zinc (Zn)	2017/02/06	<5.0		ug/L	
4850622	BAN	RPD - Sample/Sample Dup	Dissolved Aluminum (Al)	2017/02/06	NC		%	20



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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Dissolved Antimony (Sb)	2017/02/06	NC		%	20
			Dissolved Arsenic (As)	2017/02/06	NC		%	20
			Dissolved Barium (Ba)	2017/02/06	0.47		%	20
			Dissolved Beryllium (Be)	2017/02/06	NC		%	20
			Dissolved Bismuth (Bi)	2017/02/06	NC		%	20
			Dissolved Boron (B)	2017/02/06	NC		%	20
			Dissolved Cadmium (Cd)	2017/02/06	12		%	20
			Dissolved Calcium (Ca)	2017/02/06	0.39		%	20
			Dissolved Chromium (Cr)	2017/02/06	NC		%	20
			Dissolved Cobalt (Co)	2017/02/06	2.2		%	20
			Dissolved Copper (Cu)	2017/02/06	NC		%	20
			Dissolved Iron (Fe)	2017/02/06	NC		%	20
			Dissolved Lead (Pb)	2017/02/06	NC		%	20
			Dissolved Magnesium (Mg)	2017/02/06	0.55		%	20
			Dissolved Manganese (Mn)	2017/02/06	2.5		%	20
			Dissolved Molybdenum (Mo)	2017/02/06	NC		%	20
			Dissolved Nickel (Ni)	2017/02/06	NC		%	20
			Dissolved Phosphorus (P)	2017/02/06	NC		%	20
			Dissolved Potassium (K)	2017/02/06	2.7		%	20
			Dissolved Selenium (Se)	2017/02/06	NC		%	20
			Dissolved Silver (Ag)	2017/02/06	NC		%	20
			Dissolved Sodium (Na)	2017/02/06	0.13		%	20
			Dissolved Strontium (Sr)	2017/02/06	0.43		%	20
			Dissolved Thallium (Tl)	2017/02/06	NC		%	20
			Dissolved Tin (Sn)	2017/02/06	NC		%	20
			Dissolved Titanium (Ti)	2017/02/06	NC		%	20
			Dissolved Uranium (U)	2017/02/06	1.7		%	20
			Dissolved Vanadium (V)	2017/02/06	NC		%	20
			Dissolved Zinc (Zn)	2017/02/06	NC		%	20
4850625	BAN	Matrix Spike(DVR757)	Dissolved Aluminum (Al)	2017/02/04		113	%	80 - 120
			Dissolved Antimony (Sb)	2017/02/04		110	%	80 - 120
			Dissolved Arsenic (As)	2017/02/04		103	%	80 - 120
			Dissolved Barium (Ba)	2017/02/04		97	%	80 - 120
			Dissolved Beryllium (Be)	2017/02/04		95	%	80 - 120
			Dissolved Bismuth (Bi)	2017/02/04		109	%	80 - 120
			Dissolved Boron (B)	2017/02/04		NC	%	80 - 120
			Dissolved Cadmium (Cd)	2017/02/04		106	%	80 - 120
			Dissolved Calcium (Ca)	2017/02/04		NC	%	80 - 120
			Dissolved Chromium (Cr)	2017/02/04		101	%	80 - 120
			Dissolved Cobalt (Co)	2017/02/04		102	%	80 - 120
			Dissolved Copper (Cu)	2017/02/04		102	%	80 - 120
			Dissolved Iron (Fe)	2017/02/04		112	%	80 - 120
			Dissolved Lead (Pb)	2017/02/04		102	%	80 - 120
			Dissolved Magnesium (Mg)	2017/02/04		NC	%	80 - 120
			Dissolved Manganese (Mn)	2017/02/04		NC	%	80 - 120
			Dissolved Molybdenum (Mo)	2017/02/04		107	%	80 - 120
			Dissolved Nickel (Ni)	2017/02/04		103	%	80 - 120
			Dissolved Phosphorus (P)	2017/02/04		111	%	80 - 120
			Dissolved Potassium (K)	2017/02/04		113	%	80 - 120
			Dissolved Selenium (Se)	2017/02/04		104	%	80 - 120
			Dissolved Silver (Ag)	2017/02/04		101	%	80 - 120

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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4850625	BAN	Spiked Blank	Dissolved Sodium (Na)	2017/02/04		105	%	80 - 120
			Dissolved Strontium (Sr)	2017/02/04		NC	%	80 - 120
			Dissolved Thallium (Tl)	2017/02/04		109	%	80 - 120
			Dissolved Tin (Sn)	2017/02/04		111	%	80 - 120
			Dissolved Titanium (Ti)	2017/02/04		101	%	80 - 120
			Dissolved Uranium (U)	2017/02/04		113	%	80 - 120
			Dissolved Vanadium (V)	2017/02/04		100	%	80 - 120
			Dissolved Zinc (Zn)	2017/02/04		108	%	80 - 120
			Dissolved Aluminum (Al)	2017/02/04		105	%	80 - 120
			Dissolved Antimony (Sb)	2017/02/04		99	%	80 - 120
			Dissolved Arsenic (As)	2017/02/04		96	%	80 - 120
			Dissolved Barium (Ba)	2017/02/04		93	%	80 - 120
			Dissolved Beryllium (Be)	2017/02/04		90	%	80 - 120
			Dissolved Bismuth (Bi)	2017/02/04		101	%	80 - 120
			Dissolved Boron (B)	2017/02/04		90	%	80 - 120
			Dissolved Cadmium (Cd)	2017/02/04		100	%	80 - 120
			Dissolved Calcium (Ca)	2017/02/04		96	%	80 - 120
			Dissolved Chromium (Cr)	2017/02/04		95	%	80 - 120
			Dissolved Cobalt (Co)	2017/02/04		96	%	80 - 120
			Dissolved Copper (Cu)	2017/02/04		96	%	80 - 120
			Dissolved Iron (Fe)	2017/02/04		103	%	80 - 120
			Dissolved Lead (Pb)	2017/02/04		97	%	80 - 120
			Dissolved Magnesium (Mg)	2017/02/04		103	%	80 - 120
			Dissolved Manganese (Mn)	2017/02/04		99	%	80 - 120
			Dissolved Molybdenum (Mo)	2017/02/04		98	%	80 - 120
			Dissolved Nickel (Ni)	2017/02/04		99	%	80 - 120
			Dissolved Phosphorus (P)	2017/02/04		105	%	80 - 120
			Dissolved Potassium (K)	2017/02/04		108	%	80 - 120
			Dissolved Selenium (Se)	2017/02/04		99	%	80 - 120
			Dissolved Silver (Ag)	2017/02/04		98	%	80 - 120
			Dissolved Sodium (Na)	2017/02/04		99	%	80 - 120
			Dissolved Strontium (Sr)	2017/02/04		98	%	80 - 120
			Dissolved Thallium (Tl)	2017/02/04		101	%	80 - 120
			Dissolved Tin (Sn)	2017/02/04		102	%	80 - 120
			Dissolved Titanium (Ti)	2017/02/04		99	%	80 - 120
			Dissolved Uranium (U)	2017/02/04		106	%	80 - 120
			Dissolved Vanadium (V)	2017/02/04		94	%	80 - 120
			Dissolved Zinc (Zn)	2017/02/04		101	%	80 - 120
4850625	BAN	Method Blank	Dissolved Aluminum (Al)	2017/02/04	<5.0		ug/L	
			Dissolved Antimony (Sb)	2017/02/04	<1.0		ug/L	
			Dissolved Arsenic (As)	2017/02/04	<1.0		ug/L	
			Dissolved Barium (Ba)	2017/02/04	<1.0		ug/L	
			Dissolved Beryllium (Be)	2017/02/04	<1.0		ug/L	
			Dissolved Bismuth (Bi)	2017/02/04	<2.0		ug/L	
			Dissolved Boron (B)	2017/02/04	<50		ug/L	
			Dissolved Cadmium (Cd)	2017/02/04	<0.010		ug/L	
			Dissolved Calcium (Ca)	2017/02/04	<100		ug/L	
			Dissolved Chromium (Cr)	2017/02/04	<1.0		ug/L	
			Dissolved Cobalt (Co)	2017/02/04	<0.40		ug/L	
			Dissolved Copper (Cu)	2017/02/04	<2.0		ug/L	
			Dissolved Iron (Fe)	2017/02/04	<50		ug/L	

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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4850625	BAN	RPD - Sample/Sample Dup	Dissolved Lead (Pb)	2017/02/04	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2017/02/04	<100		ug/L	
			Dissolved Manganese (Mn)	2017/02/04	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2017/02/04	<2.0		ug/L	
			Dissolved Nickel (Ni)	2017/02/04	<2.0		ug/L	
			Dissolved Phosphorus (P)	2017/02/04	<100		ug/L	
			Dissolved Potassium (K)	2017/02/04	<100		ug/L	
			Dissolved Selenium (Se)	2017/02/04	<1.0		ug/L	
			Dissolved Silver (Ag)	2017/02/04	<0.10		ug/L	
			Dissolved Sodium (Na)	2017/02/04	<100		ug/L	
			Dissolved Strontium (Sr)	2017/02/04	<2.0		ug/L	
			Dissolved Thallium (Tl)	2017/02/04	<0.10		ug/L	
			Dissolved Tin (Sn)	2017/02/04	<2.0		ug/L	
			Dissolved Titanium (Ti)	2017/02/04	<2.0		ug/L	
			Dissolved Uranium (U)	2017/02/04	<0.10		ug/L	
			Dissolved Vanadium (V)	2017/02/04	<2.0		ug/L	
			Dissolved Zinc (Zn)	2017/02/04	<5.0		ug/L	
			Dissolved Aluminum (Al)	2017/02/04	NC		%	20
			Dissolved Antimony (Sb)	2017/02/04	NC		%	20
			Dissolved Arsenic (As)	2017/02/04	1.6		%	20
			Dissolved Barium (Ba)	2017/02/04	1.2		%	20
			Dissolved Beryllium (Be)	2017/02/04	NC		%	20
			Dissolved Bismuth (Bi)	2017/02/04	NC		%	20
			Dissolved Boron (B)	2017/02/04	0.38		%	20
			Dissolved Cadmium (Cd)	2017/02/04	NC		%	20
			Dissolved Calcium (Ca)	2017/02/04	1.8		%	20
			Dissolved Chromium (Cr)	2017/02/04	NC		%	20
			Dissolved Cobalt (Co)	2017/02/04	NC		%	20
			Dissolved Copper (Cu)	2017/02/04	NC		%	20
			Dissolved Iron (Fe)	2017/02/04	NC		%	20
			Dissolved Lead (Pb)	2017/02/04	NC		%	20
			Dissolved Magnesium (Mg)	2017/02/04	2.7		%	20
			Dissolved Manganese (Mn)	2017/02/04	4.0		%	20
			Dissolved Molybdenum (Mo)	2017/02/04	NC		%	20
			Dissolved Nickel (Ni)	2017/02/04	NC		%	20
			Dissolved Phosphorus (P)	2017/02/04	NC		%	20
			Dissolved Potassium (K)	2017/02/04	0.31		%	20
			Dissolved Selenium (Se)	2017/02/04	NC		%	20
			Dissolved Silver (Ag)	2017/02/04	NC		%	20
			Dissolved Sodium (Na)	2017/02/04	2.7		%	20
			Dissolved Strontium (Sr)	2017/02/04	3.1		%	20
			Dissolved Thallium (Tl)	2017/02/04	NC		%	20
			Dissolved Tin (Sn)	2017/02/04	NC		%	20
			Dissolved Titanium (Ti)	2017/02/04	NC		%	20
			Dissolved Uranium (U)	2017/02/04	1.7		%	20
			Dissolved Vanadium (V)	2017/02/04	NC		%	20
			Dissolved Zinc (Zn)	2017/02/04	NC		%	20
4850858	ARS	Matrix Spike(DVR767)	Total Mercury (Hg)	2017/02/06		100	%	80 - 120
4850858	ARS	Spiked Blank	Total Mercury (Hg)	2017/02/06		107	%	80 - 120
4850858	ARS	Method Blank	Total Mercury (Hg)	2017/02/06	<0.013		ug/L	
4850858	ARS	RPD - Sample/Sample Dup	Total Mercury (Hg)	2017/02/06	NC		%	20

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4850869	ARS	Matrix Spike	Total Mercury (Hg)	2017/02/06		107	%	80 - 120
4850869	ARS	Spiked Blank	Total Mercury (Hg)	2017/02/06		106	%	80 - 120
4850869	ARS	Method Blank	Total Mercury (Hg)	2017/02/06	<0.013		ug/L	
4850869	ARS	RPD - Sample/Sample Dup	Total Mercury (Hg)	2017/02/06	NC		%	20
4850918	SSI	Matrix Spike	Total Organic Carbon (C)	2017/02/03		109	%	80 - 120
4850918	SSI	Spiked Blank	Total Organic Carbon (C)	2017/02/03		101	%	80 - 120
4850918	SSI	Method Blank	Total Organic Carbon (C)	2017/02/03	<0.50		mg/L	
4850918	SSI	RPD - Sample/Sample Dup	Total Organic Carbon (C)	2017/02/03	NC		%	20
4852494	JMV	QC Standard	pH	2017/02/06		100	%	97 - 103
4852494	JMV	RPD - Sample/Sample Dup	pH	2017/02/06	0.48		%	N/A
4852495	JMV	Spiked Blank	Conductivity	2017/02/06		101	%	80 - 120
4852495	JMV	Method Blank	Conductivity	2017/02/06	1.5, RDL=1.0		uS/cm	
4852495	JMV	RPD - Sample/Sample Dup	Conductivity	2017/02/06	1.7		%	25
4852503	JMV	QC Standard	Turbidity	2017/02/06		97	%	80 - 120
4852503	JMV	Spiked Blank	Turbidity	2017/02/06		92	%	80 - 120
4852503	JMV	Method Blank	Turbidity	2017/02/06	<0.10		NTU	
4852503	JMV	RPD - Sample/Sample Dup	Turbidity	2017/02/06	0.88		%	20

N/A = Not Applicable

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

Maxxam Job #: B721851  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08303  
Sampler Initials: AS

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).




Kevin MacDonald, Inorganics Supervisor

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.





**Maxxam**  
Maxxam Analytics International Corporation d/b/a Maxxam Analytics  
200 Bluewater Road, Bedford, Nova Scotia Canada B4B 1G9 Tel: (902) 420-0203 Toll-free: 800-563-9265 Fax: (902) 420-3512 www.maxxam.ca

**Chain Of Custody Record**

Page 1 of 2

**INVOICE TO:**

Company Name: #41009 Englobe Corp.  
 Contact Name: Accounts Payable  
 Address: 97 Troop Ave  
 Dartmouth NS B3B 2A7  
 Phone: (902) 468-6486 Fax: (902) 468-4919  
 Email: Dartmouth.AP@englobecorp.com

**Report Information**

Company Name: Aven Cole/Lisa L/Alexandra S.  
 Contact Name: Aven Cole  
 Address: (902) 468-5486 Fax: (902) 468-4919  
 Email: Aven.Cole@englobecorp.com

**Project Information**

Quotation #: B03657  
 P.O. #: P-0010903  
 Project Name: LAKE GEORGE  
 Site #: AS/LL

**Laboratory Use Only**

Maxxam Job #: B721851  
 Chain Of Custody Record: C459921-J1-J1  
 Project Manager: Avery Wilton

**Regulatory Criteria**

Special Instructions: \*\* Spach Matrix Surface Ground Tapwater/Sewage/Effluent/Sewage/Potable/Nonpotable/Treated Soil/Sludge/Mud

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered & Preserved	Lab Filtration Required	RCAP-MS Dissolved (Field Filtr.) in W	Mercury - Total (CVAA,LL)	Total Lead	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	Turnaround Time (TAT) Required
1	MW1S	3/11/17	11:25	Grw	X	X	X	X	X		
2	MW1D		11:25		X	X	X	X	X		
3	MW2S		10:55		X	X	X	X	X		
4	MW2D		11:00		X	X	X	X	X		
5	MW3S		10:00		X	X	X	X	X		
6	MW3D		10:00		X	X	X	X	X		
7	MW4S		11:55		X	X	X	X	X		
8	MW4D		11:55		X	X	X	X	X		
9	MW5S		11:35		X	X	X	X	X		
10	MW5D		10:35		X	X	X	X	X		

**RELINQUISHED BY:** (Signature/Print)

*[Signature]*

**RECEIVED BY:** (Signature/Print)

*[Signature]*

**Date:** (YY/MM/DD)

17/01/17

**Time:**

**Temperature (°C) on Receipt:**

4.1/16.1/2

**Time Spent:**

**Lab Use Only**

☐ Custody Seal Intact on Delivery

☐ Yes ☐ No

**White/Noxious**

☐ Yes ☐ No

**Signature:**

*[Signature]*

**Date:**

4/3/17



**Maxxam**  
Maxxam Analytics International Corporation of Canada  
200 Baywater Road, Bedford, Nova Scotia Canada B4B 1G9 Tel: (902) 420-0203 Toll-free: 800-563-6266 Fax: (902) 420-4612 www.maxxam.ca

**Chain Of Custody Record**

Page 2 of 2

**INVOICE TO:**

Company Name: #41009 Englobe Corp.  
 Contact Name: Accounts Payable  
 Address: 97 Troop Ave  
 Dartmouth NS B3B 2A7  
 Phone: (902) 468-6486 Fax: (902) 468-4919  
 Email: Dartmouth.AP@englobecorp.com

**Report Information**

Company Name: Aven Cole/Lisa L/Alexandra S.  
 Contact Name: Aven Cole/Lisa L/Alexandra S.  
 Address: (902) 468-5486 Fax: (902) 468-4919  
 Phone: Aven.Cole@englobecorp.com

**Project Information**

Qualification #: B63657  
 P.O. #: P-0010903  
 Project #: LAKE GEORGE  
 Project Name: AS/L/L  
 Sampled By: AS/L/L

**Laboratory Use Only**

Maxxam Job #: B721851  
 Chain Of Custody Record: 355211  
 Project Manager: Avery Whitrow  
 C695821-02-01

**Regulatory Criteria**

Regulatory Criteria: -- Specify Matrix, Surface Ground Water/Seawater/Effluent/Seawater  
 Potable/Nonpotable/Tissue/Soil/Sediment

**Special Instructions**

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM

**ANALYSIS REQUESTED (PLEASE BE SPECIFIC)**

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

#	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtration & Preservation				Lab Filtration Required	RCAP-MS Dissolved (Field Filtr.) in W	Mercury - Total (CVAA,LL)	Total Lead	Date Required	# of Bottles	Comments / Hazards / Other Required Analysis
						Field Filtration	Field Filtration	Field Filtration	Field Filtration							
1	S104328284	MW6 S	3/1/17	10:35	GW											
2	S104328285	MW7		10:20												Extra 200 mL Cor Filter
3	S104328286	MW8		9:50												Extra 200 mL Cor Filter
4	S104328287	MW9		9:35												Extra 200 mL Cor Filter
5	S104328288	MW10		11:40												
6	S104328289	MW11		12:00												
7	S104328290	MW12		10:45												
8	S104328291	MW-DUP														
9																
10																

**RELIQUISHED BY: (Signature/Print)**

*[Signature]*

**Date: (YYMMDD)**

17/12/11

**Time**

**RECEIVED BY: (Signature/Print)**

*[Signature]*

**Date: (YYMMDD)**

4/11/12

**Time**

**Temperature (°C) on Receipt**

4.1/11/12

**Temp Stable**

☒

**Temp Used and not submitted**

☐

**Temp Used and not submitted**

☐

**Temp Used and not submitted**

☐

**Temp Used and not submitted**

☐

**Custody Seal (Initialed) Cooler?**

☐

**Custody Seal (Initialed) Cooler?**

☐

**Custody Seal (Initialed) Cooler?**

☐

**Custody Seal (Initialed) Cooler?**

☐

**White Maxxam**

White Maxxam

**Yellow Chart**

Yellow Chart

**Signature**

*[Signature]*

**Date**

4/3/12

Your P.O. #: A08304  
Your Project #: P-0010903  
Site Location: LAKE GEORGE  
Your C.O.C. #: 595820-01-01

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

**Report Date: 2017/02/08**

Report #: R4353020

Version: 1 - Final

## **CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B721946**

**Received: 2017/02/01, 11:56**

Sample Matrix: Water  
# Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Carbonate, Bicarbonate and Hydroxide	2	N/A	2017/02/03	N/A	SM 22 4500-CO2 D
Alkalinity	2	N/A	2017/02/06	ATL SOP 00013	EPA 310.2 R1974 m
Chloride	2	N/A	2017/02/06	ATL SOP 00014	SM 22 4500-Cl- E m
Colour	2	N/A	2017/02/06	ATL SOP 00020	SM 22 2120C m
Conductance - water	2	N/A	2017/02/03	ATL SOP 00004	SM 22 2510B m
Hardness (calculated as CaCO3)	2	N/A	2017/02/06	ATL SOP 00048	SM 22 2340 B
Metals Water Total MS	3	2017/02/03	2017/02/03	ATL SOP 00058	EPA 6020A R1 m
Ion Balance (% Difference)	2	N/A	2017/02/07	N/A	Auto Calc.
Anion and Cation Sum	2	N/A	2017/02/07	N/A	Auto Calc.
Nitrogen Ammonia - water	2	N/A	2017/02/06	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite	2	N/A	2017/02/03	ATL SOP 00016	USGS SOPINCF0452.2 m
Nitrogen - Nitrite	2	N/A	2017/02/03	ATL SOP 00017	SM 22 4500-NO2- B m
Nitrogen - Nitrate (as N)	2	N/A	2017/02/07	ATL SOP 00018	ASTM D3867-16
pH (1)	2	N/A	2017/02/03	ATL SOP 00003	SM 22 4500-H+ B m
Phosphorus - ortho	2	N/A	2017/02/06	ATL SOP 00021	EPA 365.2 m
Sat. pH and Langelier Index (@ 20C)	2	N/A	2017/02/07	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	2	N/A	2017/02/07	ATL SOP 00049	Auto Calc.
Reactive Silica	2	N/A	2017/02/06	ATL SOP 00022	EPA 366.0 m
Sulphate	2	N/A	2017/02/06	ATL SOP 00023	ASTMD516-11 m
Total Dissolved Solids (TDS calc)	2	N/A	2017/02/07	N/A	Auto Calc.
Organic carbon - Total (TOC) (2)	2	N/A	2017/02/07	ATL SOP 00037	SM 22 5310C m
Turbidity	2	N/A	2017/02/03	ATL SOP 00011	EPA 180.1 R2 m

**Remarks:**

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported: unless indicated otherwise, associated sample data are not blank corrected.

Your P.O. #: A08304  
Your Project #: P-0010903  
Site Location: LAKE GEORGE  
Your C.O.C. #: 595820-01-01

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

**Report Date: 2017/02/08**

Report #: R4353020

Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B721946**

**Received: 2017/02/01, 11:56**

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods. Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The APHA Standard Method require pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.

(2) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Encryption Key



Maxxam  
08 Feb 2017 11:02:41

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Avery Withrow, Project Manager

Email: AWithrow@maxxam.ca

Phone# (902)420-0203 Ext:233

=====

This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B721946  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08304  
Sampler Initials: LL

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DVS374	DVS374		DVS376			
Sampling Date		2017/01/31 12:25	2017/01/31 12:25		2017/01/31 13:10			
COC Number		595820-01-01	595820-01-01		595820-01-01			
	UNITS	PW3	PW3 Lab-Dup	QC Batch	PW8	RDL	QC Batch	MDL
<b>Calculated Parameters</b>								
Anion Sum	me/L	2.51		4848533	2.60	N/A	4848533	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	8.8		4848529	69	1.0	4848529	0.20
Calculated TDS	mg/L	150		4848538	160	1.0	4848538	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0		4848529	<1.0	1.0	4848529	0.20
Cation Sum	me/L	2.25		4848533	2.61	N/A	4848533	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	21		4848531	84	1.0	4848531	1.0
Ion Balance (% Difference)	%	5.46		4848532	0.190	N/A	4848532	N/A
Langelier Index (@ 20C)	N/A	-3.31		4848536	-0.609		4848536	
Langelier Index (@ 4C)	N/A	-3.56		4848537	-0.859		4848537	
Nitrate (N)	mg/L	0.092		4848534	<0.050	0.050	4848534	N/A
Saturation pH (@ 20C)	N/A	9.62		4848536	8.14		4848536	
Saturation pH (@ 4C)	N/A	9.87		4848537	8.39		4848537	
<b>Inorganics</b>								
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	8.8		4850350	69	5.0	4850350	N/A
Dissolved Chloride (Cl)	mg/L	77		4850359	37	1.0	4850359	N/A
Colour	TCU	17		4850388	<5.0	5.0	4850388	N/A
Nitrate + Nitrite (N)	mg/L	0.092		4850394	<0.050	0.050	4850394	N/A
Nitrite (N)	mg/L	<0.010		4850395	<0.010	0.010	4850395	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050		4849179	0.050	0.050	4849179	N/A
Total Organic Carbon (C)	mg/L	0.61		4854231	0.72	0.50	4854231	N/A
Orthophosphate (P)	mg/L	<0.010		4850390	0.018	0.010	4850390	N/A
pH	pH	6.31		4850237	7.53	N/A	4850237	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	5.6		4850377	22	0.50	4850377	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	8.0		4850366	8.2	2.0	4850366	N/A
Turbidity	NTU	0.34	0.37	4850252	66	0.10	4850249	0.10
Conductivity	uS/cm	280		4850238	260	1.0	4850238	N/A
<b>Metals</b>								
Total Aluminum (Al)	ug/L	94		4850280	22	5.0	4850280	N/A
Total Antimony (Sb)	ug/L	<1.0		4850280	<1.0	1.0	4850280	N/A
Total Arsenic (As)	ug/L	<1.0		4850280	8.7	1.0	4850280	N/A
Total Barium (Ba)	ug/L	16		4850280	19	1.0	4850280	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable								

Maxxam Job #: B721946  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08304  
Sampler Initials: LL

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DVS374	DVS374		DVS376			
Sampling Date		2017/01/31 12:25	2017/01/31 12:25		2017/01/31 13:10			
COC Number		595820-01-01	595820-01-01		595820-01-01			
	UNITS	PW3	PW3 Lab-Dup	QC Batch	PW8	RDL	QC Batch	MDL
Total Beryllium (Be)	ug/L	<1.0		4850280	<1.0	1.0	4850280	N/A
Total Bismuth (Bi)	ug/L	<2.0		4850280	<2.0	2.0	4850280	N/A
Total Boron (B)	ug/L	<50		4850280	<50	50	4850280	N/A
Total Cadmium (Cd)	ug/L	0.054		4850280	<0.010	0.010	4850280	N/A
Total Calcium (Ca)	ug/L	6300		4850280	25000	100	4850280	N/A
Total Chromium (Cr)	ug/L	<1.0		4850280	<1.0	1.0	4850280	N/A
Total Cobalt (Co)	ug/L	<0.40		4850280	<0.40	0.40	4850280	N/A
Total Copper (Cu)	ug/L	5.2		4850280	5.3	2.0	4850280	N/A
Total Iron (Fe)	ug/L	530		4850280	6300	50	4850280	N/A
Total Lead (Pb)	ug/L	0.99		4850280	<0.50	0.50	4850280	N/A
Total Magnesium (Mg)	ug/L	1400		4850280	5200	100	4850280	N/A
Total Manganese (Mn)	ug/L	28		4850280	260	2.0	4850280	N/A
Total Molybdenum (Mo)	ug/L	<2.0		4850280	<2.0	2.0	4850280	N/A
Total Nickel (Ni)	ug/L	<2.0		4850280	<2.0	2.0	4850280	N/A
Total Phosphorus (P)	ug/L	<100		4850280	120	100	4850280	N/A
Total Potassium (K)	ug/L	740		4850280	1700	100	4850280	N/A
Total Selenium (Se)	ug/L	<1.0		4850280	<1.0	1.0	4850280	N/A
Total Silver (Ag)	ug/L	<0.10		4850280	<0.10	0.10	4850280	N/A
Total Sodium (Na)	ug/L	41000		4850280	15000	100	4850280	N/A
Total Strontium (Sr)	ug/L	32		4850280	160	2.0	4850280	N/A
Total Thallium (Tl)	ug/L	<0.10		4850280	<0.10	0.10	4850280	N/A
Total Tin (Sn)	ug/L	<2.0		4850280	<2.0	2.0	4850280	N/A
Total Titanium (Ti)	ug/L	<2.0		4850280	<2.0	2.0	4850280	N/A
Total Uranium (U)	ug/L	<0.10		4850280	0.15	0.10	4850280	N/A
Total Vanadium (V)	ug/L	<2.0		4850280	<2.0	2.0	4850280	N/A
Total Zinc (Zn)	ug/L	29		4850280	<5.0	5.0	4850280	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable								



Maxxam Job #: B721946  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08304  
Sampler Initials: LL

### ELEMENTS BY ICP/MS (WATER)

<b>Maxxam ID</b>		DVS375			
<b>Sampling Date</b>		2017/01/31 12:20			
<b>COC Number</b>		595820-01-01			
	<b>UNITS</b>	<b>PW3A</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Metals</b>					
Total Aluminum (Al)	ug/L	91	5.0	4850234	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4850234	N/A
Total Arsenic (As)	ug/L	<1.0	1.0	4850234	N/A
Total Barium (Ba)	ug/L	16	1.0	4850234	N/A
Total Beryllium (Be)	ug/L	<1.0	1.0	4850234	N/A
Total Bismuth (Bi)	ug/L	<2.0	2.0	4850234	N/A
Total Boron (B)	ug/L	<50	50	4850234	N/A
Total Cadmium (Cd)	ug/L	0.040	0.010	4850234	N/A
Total Calcium (Ca)	ug/L	6000	100	4850234	N/A
Total Chromium (Cr)	ug/L	<1.0	1.0	4850234	N/A
Total Cobalt (Co)	ug/L	<0.40	0.40	4850234	N/A
Total Copper (Cu)	ug/L	76	2.0	4850234	N/A
Total Iron (Fe)	ug/L	440	50	4850234	N/A
Total Lead (Pb)	ug/L	<0.50	0.50	4850234	N/A
Total Magnesium (Mg)	ug/L	1400	100	4850234	N/A
Total Manganese (Mn)	ug/L	27	2.0	4850234	N/A
Total Molybdenum (Mo)	ug/L	<2.0	2.0	4850234	N/A
Total Nickel (Ni)	ug/L	<2.0	2.0	4850234	N/A
Total Phosphorus (P)	ug/L	<100	100	4850234	N/A
Total Potassium (K)	ug/L	710	100	4850234	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	4850234	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	4850234	N/A
Total Sodium (Na)	ug/L	41000	100	4850234	N/A
Total Strontium (Sr)	ug/L	31	2.0	4850234	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4850234	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	4850234	N/A
Total Titanium (Ti)	ug/L	<2.0	2.0	4850234	N/A
Total Uranium (U)	ug/L	<0.10	0.10	4850234	N/A
Total Vanadium (V)	ug/L	<2.0	2.0	4850234	N/A
Total Zinc (Zn)	ug/L	12	5.0	4850234	N/A
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
N/A = Not Applicable					



Maxxam Job #: B721946  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08304  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** DVS374  
**Sample ID:** PW3  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850350	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850359	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850388	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850238	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4848531	N/A	2017/02/06	Automated Statchk
Metals Water Total MS	CICP/MS	4850280	2017/02/03	2017/02/03	Mike Leblanc
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849179	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850394	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850395	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4850237	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850390	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850377	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850366	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4854231	N/A	2017/02/07	Steven Smith
Turbidity	TURB	4850252	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVS374 Dup  
**Sample ID:** PW3  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Turbidity	TURB	4850252	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVS375  
**Sample ID:** PW3A  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Water Total MS	CICP/MS	4850234	2017/02/03	2017/02/03	Bryon Angevine

**Maxxam ID:** DVS376  
**Sample ID:** PW8  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850350	N/A	2017/02/06	Nancy Rogers

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## TEST SUMMARY

**Maxxam ID:** DVS376  
**Sample ID:** PW8  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Chloride	KONE	4850359	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850388	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850238	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4848531	N/A	2017/02/06	Automated Statchk
Metals Water Total MS	CICP/MS	4850280	2017/02/03	2017/02/03	Mike Leblanc
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849179	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850394	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850395	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4850237	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850390	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850377	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850366	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4854231	N/A	2017/02/07	Steven Smith
Turbidity	TURB	4850249	N/A	2017/02/03	Julia McGovern

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### GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.0°C
Package 2	3.0°C
Package 3	3.3°C
Package 4	5.3°C

Sample DVS374 [PW3] : Poor RCap Ion Balance due to sample matrix.

**Results relate only to the items tested.**

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### QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4849179	MCN	Matrix Spike	Nitrogen (Ammonia Nitrogen)	2017/02/06		104	%	80 - 120
4849179	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2017/02/06		106	%	80 - 120
4849179	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2017/02/06	<0.050		mg/L	
4849179	MCN	RPD - Sample/Sample Dup	Nitrogen (Ammonia Nitrogen)	2017/02/06	NC		%	20
4850234	BAN	Matrix Spike	Total Aluminum (Al)	2017/02/03		94	%	80 - 120
			Total Antimony (Sb)	2017/02/03		98	%	80 - 120
			Total Arsenic (As)	2017/02/03		91	%	80 - 120
			Total Barium (Ba)	2017/02/03		88	%	80 - 120
			Total Beryllium (Be)	2017/02/03		89	%	80 - 120
			Total Bismuth (Bi)	2017/02/03		99	%	80 - 120
			Total Boron (B)	2017/02/03		96	%	80 - 120
			Total Cadmium (Cd)	2017/02/03		93	%	80 - 120
			Total Calcium (Ca)	2017/02/03		98	%	80 - 120
			Total Chromium (Cr)	2017/02/03		90	%	80 - 120
			Total Cobalt (Co)	2017/02/03		92	%	80 - 120
			Total Copper (Cu)	2017/02/03		93	%	80 - 120
			Total Iron (Fe)	2017/02/03		95	%	80 - 120
			Total Lead (Pb)	2017/02/03		90	%	80 - 120
			Total Magnesium (Mg)	2017/02/03		98	%	80 - 120
			Total Manganese (Mn)	2017/02/03		91	%	80 - 120
			Total Molybdenum (Mo)	2017/02/03		102	%	80 - 120
			Total Nickel (Ni)	2017/02/03		92	%	80 - 120
			Total Phosphorus (P)	2017/02/03		99	%	80 - 120
			Total Potassium (K)	2017/02/03		103	%	80 - 120
			Total Selenium (Se)	2017/02/03		95	%	80 - 120
			Total Silver (Ag)	2017/02/03		93	%	80 - 120
			Total Sodium (Na)	2017/02/03		NC	%	80 - 120
			Total Strontium (Sr)	2017/02/03		90	%	80 - 120
			Total Thallium (Tl)	2017/02/03		99	%	80 - 120
			Total Tin (Sn)	2017/02/03		98	%	80 - 120
			Total Titanium (Ti)	2017/02/03		92	%	80 - 120
			Total Uranium (U)	2017/02/03		100	%	80 - 120
			Total Vanadium (V)	2017/02/03		90	%	80 - 120
			Total Zinc (Zn)	2017/02/03		98	%	80 - 120
4850234	BAN	Spiked Blank	Total Aluminum (Al)	2017/02/03		104	%	80 - 120
			Total Antimony (Sb)	2017/02/03		98	%	80 - 120
			Total Arsenic (As)	2017/02/03		97	%	80 - 120
			Total Barium (Ba)	2017/02/03		93	%	80 - 120
			Total Beryllium (Be)	2017/02/03		92	%	80 - 120
			Total Bismuth (Bi)	2017/02/03		100	%	80 - 120
			Total Boron (B)	2017/02/03		94	%	80 - 120
			Total Cadmium (Cd)	2017/02/03		99	%	80 - 120
			Total Calcium (Ca)	2017/02/03		99	%	80 - 120
			Total Chromium (Cr)	2017/02/03		98	%	80 - 120
			Total Cobalt (Co)	2017/02/03		98	%	80 - 120
			Total Copper (Cu)	2017/02/03		98	%	80 - 120
			Total Iron (Fe)	2017/02/03		100	%	80 - 120
			Total Lead (Pb)	2017/02/03		96	%	80 - 120
			Total Magnesium (Mg)	2017/02/03		102	%	80 - 120
			Total Manganese (Mn)	2017/02/03		100	%	80 - 120
			Total Molybdenum (Mo)	2017/02/03		99	%	80 - 120

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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4850234	BAN	Method Blank	Total Nickel (Ni)	2017/02/03		102	%	80 - 120
			Total Phosphorus (P)	2017/02/03		102	%	80 - 120
			Total Potassium (K)	2017/02/03		104	%	80 - 120
			Total Selenium (Se)	2017/02/03		99	%	80 - 120
			Total Silver (Ag)	2017/02/03		99	%	80 - 120
			Total Sodium (Na)	2017/02/03		99	%	80 - 120
			Total Strontium (Sr)	2017/02/03		99	%	80 - 120
			Total Thallium (Tl)	2017/02/03		99	%	80 - 120
			Total Tin (Sn)	2017/02/03		99	%	80 - 120
			Total Titanium (Ti)	2017/02/03		98	%	80 - 120
			Total Uranium (U)	2017/02/03		106	%	80 - 120
			Total Vanadium (V)	2017/02/03		96	%	80 - 120
			Total Zinc (Zn)	2017/02/03		100	%	80 - 120
			Total Aluminum (Al)	2017/02/03	5.2, RDL=5.0		ug/L	
			Total Antimony (Sb)	2017/02/03	<1.0		ug/L	
			Total Arsenic (As)	2017/02/03	<1.0		ug/L	
			Total Barium (Ba)	2017/02/03	<1.0		ug/L	
			Total Beryllium (Be)	2017/02/03	<1.0		ug/L	
			Total Bismuth (Bi)	2017/02/03	<2.0		ug/L	
			Total Boron (B)	2017/02/03	<50		ug/L	
			Total Cadmium (Cd)	2017/02/03	<0.010		ug/L	
			Total Calcium (Ca)	2017/02/03	<100		ug/L	
			Total Chromium (Cr)	2017/02/03	<1.0		ug/L	
			Total Cobalt (Co)	2017/02/03	<0.40		ug/L	
			Total Copper (Cu)	2017/02/03	<2.0		ug/L	
			Total Iron (Fe)	2017/02/03	<50		ug/L	
			Total Lead (Pb)	2017/02/03	<0.50		ug/L	
			Total Magnesium (Mg)	2017/02/03	<100		ug/L	
			Total Manganese (Mn)	2017/02/03	<2.0		ug/L	
			Total Molybdenum (Mo)	2017/02/03	<2.0		ug/L	
			Total Nickel (Ni)	2017/02/03	<2.0		ug/L	
			Total Phosphorus (P)	2017/02/03	<100		ug/L	
			Total Potassium (K)	2017/02/03	<100		ug/L	
			Total Selenium (Se)	2017/02/03	<1.0		ug/L	
			Total Silver (Ag)	2017/02/03	<0.10		ug/L	
			Total Sodium (Na)	2017/02/03	<100		ug/L	
			Total Strontium (Sr)	2017/02/03	<2.0		ug/L	
			Total Thallium (Tl)	2017/02/03	<0.10		ug/L	
			Total Tin (Sn)	2017/02/03	<2.0		ug/L	
			Total Titanium (Ti)	2017/02/03	<2.0		ug/L	
			Total Uranium (U)	2017/02/03	<0.10		ug/L	
			Total Vanadium (V)	2017/02/03	<2.0		ug/L	
			Total Zinc (Zn)	2017/02/03	<5.0		ug/L	
4850234	BAN	RPD - Sample/Sample Dup	Total Aluminum (Al)	2017/02/03	8.6		%	20
			Total Antimony (Sb)	2017/02/03	NC		%	20
			Total Arsenic (As)	2017/02/03	NC		%	20
			Total Barium (Ba)	2017/02/03	NC		%	20
			Total Beryllium (Be)	2017/02/03	NC		%	20
			Total Bismuth (Bi)	2017/02/03	NC		%	20
			Total Boron (B)	2017/02/03	NC		%	20

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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Total Cadmium (Cd)	2017/02/03	NC		%	20
			Total Calcium (Ca)	2017/02/03	1.8		%	20
			Total Chromium (Cr)	2017/02/03	NC		%	20
			Total Cobalt (Co)	2017/02/03	NC		%	20
			Total Copper (Cu)	2017/02/03	NC		%	20
			Total Iron (Fe)	2017/02/03	NC		%	20
			Total Lead (Pb)	2017/02/03	NC		%	20
			Total Magnesium (Mg)	2017/02/03	1.4		%	20
			Total Manganese (Mn)	2017/02/03	NC		%	20
			Total Molybdenum (Mo)	2017/02/03	NC		%	20
			Total Nickel (Ni)	2017/02/03	NC		%	20
			Total Phosphorus (P)	2017/02/03	NC		%	20
			Total Potassium (K)	2017/02/03	NC		%	20
			Total Selenium (Se)	2017/02/03	NC		%	20
			Total Silver (Ag)	2017/02/03	NC		%	20
			Total Sodium (Na)	2017/02/03	4.3		%	20
			Total Strontium (Sr)	2017/02/03	NC		%	20
			Total Thallium (Tl)	2017/02/03	NC		%	20
			Total Tin (Sn)	2017/02/03	NC		%	20
			Total Titanium (Ti)	2017/02/03	NC		%	20
			Total Uranium (U)	2017/02/03	NC		%	20
			Total Vanadium (V)	2017/02/03	NC		%	20
			Total Zinc (Zn)	2017/02/03	NC		%	20
4850237	JMV	QC Standard	pH	2017/02/03		100	%	97 - 103
4850237	JMV	RPD - Sample/Sample Dup	pH	2017/02/03	0.021		%	N/A
4850238	JMV	Spiked Blank	Conductivity	2017/02/03		103	%	80 - 120
4850238	JMV	Method Blank	Conductivity	2017/02/03	1.2, RDL=1.0		uS/cm	
4850238	JMV	RPD - Sample/Sample Dup	Conductivity	2017/02/03	0.0022		%	25
4850249	JMV	QC Standard	Turbidity	2017/02/03		97	%	80 - 120
4850249	JMV	Spiked Blank	Turbidity	2017/02/03		92	%	80 - 120
4850249	JMV	Method Blank	Turbidity	2017/02/03	<0.10		NTU	
4850249	JMV	RPD - Sample/Sample Dup	Turbidity	2017/02/03	NC		%	20
4850252	JMV	QC Standard	Turbidity	2017/02/03		97	%	80 - 120
4850252	JMV	Spiked Blank	Turbidity	2017/02/03		92	%	80 - 120
4850252	JMV	Method Blank	Turbidity	2017/02/03	<0.10		NTU	
4850252	JMV	RPD - Sample/Sample Dup	Turbidity	2017/02/03	NC		%	20
4850280	MLB	Matrix Spike	Total Aluminum (Al)	2017/02/03		99	%	80 - 120
			Total Antimony (Sb)	2017/02/03		98	%	80 - 120
			Total Arsenic (As)	2017/02/03		90	%	80 - 120
			Total Barium (Ba)	2017/02/03		89	%	80 - 120
			Total Beryllium (Be)	2017/02/03		86	%	80 - 120
			Total Bismuth (Bi)	2017/02/03		100	%	80 - 120
			Total Boron (B)	2017/02/03		92	%	80 - 120
			Total Cadmium (Cd)	2017/02/03		93	%	80 - 120
			Total Calcium (Ca)	2017/02/03		99	%	80 - 120
			Total Chromium (Cr)	2017/02/03		91	%	80 - 120
			Total Cobalt (Co)	2017/02/03		92	%	80 - 120
			Total Copper (Cu)	2017/02/03		92	%	80 - 120
			Total Iron (Fe)	2017/02/03		95	%	80 - 120
			Total Lead (Pb)	2017/02/03		90	%	80 - 120



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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4850280	MLB	Spiked Blank	Total Magnesium (Mg)	2017/02/03		99	%	80 - 120
			Total Manganese (Mn)	2017/02/03		NC	%	80 - 120
			Total Molybdenum (Mo)	2017/02/03		99	%	80 - 120
			Total Nickel (Ni)	2017/02/03		93	%	80 - 120
			Total Phosphorus (P)	2017/02/03		99	%	80 - 120
			Total Potassium (K)	2017/02/03		102	%	80 - 120
			Total Selenium (Se)	2017/02/03		94	%	80 - 120
			Total Silver (Ag)	2017/02/03		92	%	80 - 120
			Total Sodium (Na)	2017/02/03		95	%	80 - 120
			Total Strontium (Sr)	2017/02/03		90	%	80 - 120
			Total Thallium (Tl)	2017/02/03		100	%	80 - 120
			Total Tin (Sn)	2017/02/03		100	%	80 - 120
			Total Titanium (Ti)	2017/02/03		92	%	80 - 120
			Total Uranium (U)	2017/02/03		99	%	80 - 120
			Total Vanadium (V)	2017/02/03		91	%	80 - 120
			Total Zinc (Zn)	2017/02/03		97	%	80 - 120
			Total Aluminum (Al)	2017/02/03		102	%	80 - 120
			Total Antimony (Sb)	2017/02/03		101	%	80 - 120
			Total Arsenic (As)	2017/02/03		98	%	80 - 120
			Total Barium (Ba)	2017/02/03		95	%	80 - 120
			Total Beryllium (Be)	2017/02/03		93	%	80 - 120
			Total Bismuth (Bi)	2017/02/03		103	%	80 - 120
			Total Boron (B)	2017/02/03		95	%	80 - 120
			Total Cadmium (Cd)	2017/02/03		101	%	80 - 120
			Total Calcium (Ca)	2017/02/03		102	%	80 - 120
			Total Chromium (Cr)	2017/02/03		100	%	80 - 120
			Total Cobalt (Co)	2017/02/03		101	%	80 - 120
			Total Copper (Cu)	2017/02/03		100	%	80 - 120
			Total Iron (Fe)	2017/02/03		102	%	80 - 120
			Total Lead (Pb)	2017/02/03		98	%	80 - 120
			Total Magnesium (Mg)	2017/02/03		103	%	80 - 120
			Total Manganese (Mn)	2017/02/03		102	%	80 - 120
			Total Molybdenum (Mo)	2017/02/03		103	%	80 - 120
			Total Nickel (Ni)	2017/02/03		103	%	80 - 120
			Total Phosphorus (P)	2017/02/03		102	%	80 - 120
			Total Potassium (K)	2017/02/03		106	%	80 - 120
			Total Selenium (Se)	2017/02/03		100	%	80 - 120
			Total Silver (Ag)	2017/02/03		99	%	80 - 120
			Total Sodium (Na)	2017/02/03		100	%	80 - 120
			Total Strontium (Sr)	2017/02/03		101	%	80 - 120
			Total Thallium (Tl)	2017/02/03		102	%	80 - 120
			Total Tin (Sn)	2017/02/03		104	%	80 - 120
			Total Titanium (Ti)	2017/02/03		101	%	80 - 120
			Total Uranium (U)	2017/02/03		109	%	80 - 120
			Total Vanadium (V)	2017/02/03		98	%	80 - 120
			Total Zinc (Zn)	2017/02/03		102	%	80 - 120
4850280	MLB	Method Blank	Total Aluminum (Al)	2017/02/03	7.6, RDL=5.0		ug/L	
			Total Antimony (Sb)	2017/02/03	<1.0		ug/L	
			Total Arsenic (As)	2017/02/03	<1.0		ug/L	
			Total Barium (Ba)	2017/02/03	<1.0		ug/L	

Maxxam Job #: B721946  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08304  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Total Beryllium (Be)	2017/02/03	<1.0		ug/L	
			Total Bismuth (Bi)	2017/02/03	<2.0		ug/L	
			Total Boron (B)	2017/02/03	<50		ug/L	
			Total Cadmium (Cd)	2017/02/03	<0.010		ug/L	
			Total Calcium (Ca)	2017/02/03	<100		ug/L	
			Total Chromium (Cr)	2017/02/03	<1.0		ug/L	
			Total Cobalt (Co)	2017/02/03	<0.40		ug/L	
			Total Copper (Cu)	2017/02/03	<2.0		ug/L	
			Total Iron (Fe)	2017/02/03	<50		ug/L	
			Total Lead (Pb)	2017/02/03	<0.50		ug/L	
			Total Magnesium (Mg)	2017/02/03	<100		ug/L	
			Total Manganese (Mn)	2017/02/03	<2.0		ug/L	
			Total Molybdenum (Mo)	2017/02/03	<2.0		ug/L	
			Total Nickel (Ni)	2017/02/03	<2.0		ug/L	
			Total Phosphorus (P)	2017/02/03	<100		ug/L	
			Total Potassium (K)	2017/02/03	<100		ug/L	
			Total Selenium (Se)	2017/02/03	<1.0		ug/L	
			Total Silver (Ag)	2017/02/03	<0.10		ug/L	
			Total Sodium (Na)	2017/02/03	<100		ug/L	
			Total Strontium (Sr)	2017/02/03	<2.0		ug/L	
			Total Thallium (Tl)	2017/02/03	<0.10		ug/L	
			Total Tin (Sn)	2017/02/03	<2.0		ug/L	
			Total Titanium (Ti)	2017/02/03	<2.0		ug/L	
			Total Uranium (U)	2017/02/03	<0.10		ug/L	
			Total Vanadium (V)	2017/02/03	<2.0		ug/L	
			Total Zinc (Zn)	2017/02/03	<5.0		ug/L	
4850280	MLB	RPD - Sample/Sample Dup	Total Aluminum (Al)	2017/02/06	NC		%	20
			Total Antimony (Sb)	2017/02/06	NC		%	20
			Total Arsenic (As)	2017/02/06	NC		%	20
			Total Barium (Ba)	2017/02/06	NC		%	20
			Total Beryllium (Be)	2017/02/06	NC		%	20
			Total Bismuth (Bi)	2017/02/06	NC		%	20
			Total Boron (B)	2017/02/06	NC		%	20
			Total Cadmium (Cd)	2017/02/06	NC		%	20
			Total Calcium (Ca)	2017/02/06	NC		%	20
			Total Chromium (Cr)	2017/02/06	NC		%	20
			Total Cobalt (Co)	2017/02/06	NC		%	20
			Total Copper (Cu)	2017/02/06	NC		%	20
			Total Iron (Fe)	2017/02/06	NC		%	20
			Total Lead (Pb)	2017/02/06	NC		%	20
			Total Magnesium (Mg)	2017/02/06	NC		%	20
			Total Manganese (Mn)	2017/02/06	NC		%	20
			Total Molybdenum (Mo)	2017/02/06	NC		%	20
			Total Nickel (Ni)	2017/02/06	NC		%	20
			Total Phosphorus (P)	2017/02/06	NC		%	20
			Total Potassium (K)	2017/02/06	NC		%	20
			Total Selenium (Se)	2017/02/06	NC		%	20
			Total Silver (Ag)	2017/02/06	NC		%	20
			Total Sodium (Na)	2017/02/06	NC		%	20
			Total Strontium (Sr)	2017/02/06	NC		%	20
			Total Thallium (Tl)	2017/02/06	NC		%	20

Maxxam Job #: B721946  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08304  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Total Tin (Sn)	2017/02/06	NC		%	20
			Total Titanium (Ti)	2017/02/06	NC		%	20
			Total Uranium (U)	2017/02/06	NC		%	20
			Total Vanadium (V)	2017/02/06	NC		%	20
			Total Zinc (Zn)	2017/02/06	NC		%	20
4850350	NRG	Matrix Spike	Total Alkalinity (Total as CaCO <sub>3</sub> )	2017/02/06		NC	%	80 - 120
4850350	NRG	Spiked Blank	Total Alkalinity (Total as CaCO <sub>3</sub> )	2017/02/06		109	%	80 - 120
4850350	NRG	Method Blank	Total Alkalinity (Total as CaCO <sub>3</sub> )	2017/02/06	<5.0		mg/L	
4850350	NRG	RPD - Sample/Sample Dup	Total Alkalinity (Total as CaCO <sub>3</sub> )	2017/02/06	NC		%	25
4850359	MCN	Matrix Spike	Dissolved Chloride (Cl)	2017/02/06		NC	%	80 - 120
4850359	MCN	QC Standard	Dissolved Chloride (Cl)	2017/02/06		108	%	80 - 120
4850359	MCN	Spiked Blank	Dissolved Chloride (Cl)	2017/02/06		106	%	80 - 120
4850359	MCN	Method Blank	Dissolved Chloride (Cl)	2017/02/06	<1.0		mg/L	
4850359	MCN	RPD - Sample/Sample Dup	Dissolved Chloride (Cl)	2017/02/06	6.0		%	25
4850366	MCN	Matrix Spike	Dissolved Sulphate (SO <sub>4</sub> )	2017/02/06		110	%	80 - 120
4850366	MCN	Spiked Blank	Dissolved Sulphate (SO <sub>4</sub> )	2017/02/06		100	%	80 - 120
4850366	MCN	Method Blank	Dissolved Sulphate (SO <sub>4</sub> )	2017/02/06	<2.0		mg/L	
4850366	MCN	RPD - Sample/Sample Dup	Dissolved Sulphate (SO <sub>4</sub> )	2017/02/06	NC		%	25
4850377	NRG	Matrix Spike	Reactive Silica (SiO <sub>2</sub> )	2017/02/06		NC	%	80 - 120
4850377	NRG	Spiked Blank	Reactive Silica (SiO <sub>2</sub> )	2017/02/06		104	%	80 - 120
4850377	NRG	Method Blank	Reactive Silica (SiO <sub>2</sub> )	2017/02/06	<0.50		mg/L	
4850377	NRG	RPD - Sample/Sample Dup	Reactive Silica (SiO <sub>2</sub> )	2017/02/06	0.47		%	25
4850388	MCN	Spiked Blank	Colour	2017/02/06		99	%	80 - 120
4850388	MCN	Method Blank	Colour	2017/02/06	<5.0		TCU	
4850388	MCN	RPD - Sample/Sample Dup	Colour	2017/02/06	NC		%	20
4850390	NRG	Matrix Spike	Orthophosphate (P)	2017/02/06		91	%	80 - 120
4850390	NRG	Spiked Blank	Orthophosphate (P)	2017/02/06		96	%	80 - 120
4850390	NRG	Method Blank	Orthophosphate (P)	2017/02/06	<0.010		mg/L	
4850390	NRG	RPD - Sample/Sample Dup	Orthophosphate (P)	2017/02/06	NC		%	25
4850394	NRG	Matrix Spike	Nitrate + Nitrite (N)	2017/02/03		92	%	80 - 120
4850394	NRG	Spiked Blank	Nitrate + Nitrite (N)	2017/02/03		100	%	80 - 120
4850394	NRG	Method Blank	Nitrate + Nitrite (N)	2017/02/03	<0.050		mg/L	
4850394	NRG	RPD - Sample/Sample Dup	Nitrate + Nitrite (N)	2017/02/03	NC		%	25
4850395	NRG	Matrix Spike	Nitrite (N)	2017/02/03		84	%	80 - 120
4850395	NRG	Spiked Blank	Nitrite (N)	2017/02/03		85	%	80 - 120
4850395	NRG	Method Blank	Nitrite (N)	2017/02/03	<0.010		mg/L	
4850395	NRG	RPD - Sample/Sample Dup	Nitrite (N)	2017/02/03	NC		%	25
4854231	SSI	Matrix Spike	Total Organic Carbon (C)	2017/02/07		95	%	80 - 120
4854231	SSI	Spiked Blank	Total Organic Carbon (C)	2017/02/07		95	%	80 - 120
4854231	SSI	Method Blank	Total Organic Carbon (C)	2017/02/07	<0.50		mg/L	

Maxxam Job #: B721946  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08304  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC				Date		%		
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
4854231	SSI	RPD - Sample/Sample Dup	Total Organic Carbon (C)	2017/02/07	NC		%	20
<p>N/A = Not Applicable</p> <p>Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.</p> <p>QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.</p> <p>Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.</p> <p>Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.</p> <p>NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).</p> <p>NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples &lt; 5x RDL).</p>								

Maxxam Job #: B721946  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08304  
Sampler Initials: LL

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Eric Dearman, Scientific Specialist

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

# Maxxam

Maxxam Analytica International Corporation d/b/a Maxxam Analytics  
200 Bluewater Road, Bedford, Nova Scotia Canada B4B 1G8 Tel: (902) 420-0203 Toll-free 800-563-6266 Fax: (902) 420-0612 www.maxxam.ca

## Chain Of Custody Record

Page 1 of 1

**INVOICE TO:**

Company Name: #41009 Englobe Corp.  
 Contact Name: Accounts Payable  
 Address: 97 Troop Ave  
 Dartmouth NS B3B 2A7  
 Phone: (902) 468-6486 Fax: (902) 468-4919  
 Email: Dartmouth.AP@englobecorp.com

**Report Information**

Company Name: Aven Cole/Lisa L/Alexandra S.  
 Contact Name: Aven Cole/Lisa L/Alexandra S.  
 Address: (902) 468-6486 Fax: (902) 468-4919  
 Email: Aven.Cole@englobecorp.com

**Project Information**

Quotation #: B63657  
 P.O. #: P-0010903  
 Project #: LAKE GEORGE  
 Site #: L L

**Laboratory Use Only**

Maxxam Job #: B721946  
 Chain Of Custody Record: C65862G-01-01  
 Project Manager: Avery Winrow

**Regulatory Criteria**

\*\* Specify Matrix: Surface/Ground/Tapwater/Spewage/Effluent/Seawater  
 Potable/Nonpotable/Tissue/Soil/Sediment

**Special Instructions**

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

RCAP-MS Total Metals in Water

Field Filtration Required

Lab Filtration Required

RCAP-MS Total Metals in Water

TOTAL METALS

**Turnaround Time (TAT) Required:**

Regular (Standard) TAT: ☒   
 (will be applied if Rush TAT is not specified).  
 Standard TAT = 5-7 Working days for most tests.  
 Please refer Standard TAT for certain tests such as BOD and Dissolved Solids are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)  
 Date Required:   
 Time Required: ☐

**Comments / Hazards / Other Request Analysis**

Comments: 3, 1, 3

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtration Required	Lab Filtration Required	RCAP-MS Total Metals in Water	TOTAL METALS	ANALYSIS REQUESTED (PLEASE BE SPECIFIC)	Turnaround Time (TAT) Required
1	PW3	5/11/17	12h25	PW			X			
2	PW3A	12h20					X			
3	PW8	1310					X			
4										
5										
6										
7										
8										
9										
10										

**RELINQUISHED BY: (Signature/Print)**

*Lisa L. Aven*

**RECEIVED BY: (Signature/Print)**

*Alexandra S. Aven*

**Date: (YY/MM/DD)** 17/01

**Date: (YY/MM/DD)**

**Time**

**Time**

**Temperature (°C) on Receipt**

41.1/41.7

**Temperature (°C) on Delivery**

43.3/41.5

**Time-Sensitive**

☐ Yes ☒ No

**Custody Seal Intact on Delivery**

☐ Yes ☒ No

**UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.**

**IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.**



Your P.O. #: A08305  
Your Project #: P-0010903  
Site Location: LAKE GEORGE

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

Your C.O.C. #: 595824-01-01, 595824-02-01, 595824-03-01

**Report Date: 2017/02/08**

Report #: R4353067

Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B721953**

**Received: 2017/02/01, 11:56**

Sample Matrix: Water  
# Samples Received: 23

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Carbonate, Bicarbonate and Hydroxide	22	N/A	2017/02/03	N/A	SM 22 4500-CO2 D
Carbonate, Bicarbonate and Hydroxide	1	N/A	2017/02/06	N/A	SM 22 4500-CO2 D
Alkalinity	23	N/A	2017/02/06	ATL SOP 00013	EPA 310.2 R1974 m
Chloride	23	N/A	2017/02/06	ATL SOP 00014	SM 22 4500-Cl- E m
Colour	23	N/A	2017/02/06	ATL SOP 00020	SM 22 2120C m
Conductance - water	22	N/A	2017/02/03	ATL SOP 00004	SM 22 2510B m
Conductance - water	1	N/A	2017/02/06	ATL SOP 00004	SM 22 2510B m
Hardness (calculated as CaCO3)	13	N/A	2017/02/06	ATL SOP 00048	SM 22 2340 B
Hardness (calculated as CaCO3)	10	N/A	2017/02/07	ATL SOP 00048	SM 22 2340 B
Mercury - Total (CVAA,LL)	18	2017/02/03	2017/02/06	ATL SOP 00026	EPA 245.1 R3 m
Mercury - Total (CVAA,LL)	5	2017/02/06	2017/02/07	ATL SOP 00026	EPA 245.1 R3 m
Metals Water Diss. MS (as rec'd)	6	N/A	2017/02/04	ATL SOP 00058	EPA 6020A R1 m
Metals Water Total MS	10	2017/02/03	2017/02/03	ATL SOP 00058	EPA 6020A R1 m
Metals Water Total MS	13	2017/02/03	2017/02/06	ATL SOP 00058	EPA 6020A R1 m
Ion Balance (% Difference)	23	N/A	2017/02/07	N/A	Auto Calc.
Anion and Cation Sum	23	N/A	2017/02/07	N/A	Auto Calc.
Nitrogen Ammonia - water	23	N/A	2017/02/06	ATL SOP 00015	EPA 350.1 R2 m
Nitrogen - Nitrate + Nitrite	23	N/A	2017/02/03	ATL SOP 00016	USGS SOPINCF0452.2 m
Nitrogen - Nitrite	23	N/A	2017/02/03	ATL SOP 00017	SM 22 4500-NO2- B m
Nitrogen - Nitrate (as N)	23	N/A	2017/02/07	ATL SOP 00018	ASTM D3867-16
pH (1)	22	N/A	2017/02/03	ATL SOP 00003	SM 22 4500-H+ B m
pH (1)	1	N/A	2017/02/06	ATL SOP 00003	SM 22 4500-H+ B m
Phosphorus - ortho	23	N/A	2017/02/06	ATL SOP 00021	EPA 365.2 m
Sat. pH and Langelier Index (@ 20C)	23	N/A	2017/02/07	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	23	N/A	2017/02/07	ATL SOP 00049	Auto Calc.
Reactive Silica	23	N/A	2017/02/06	ATL SOP 00022	EPA 366.0 m
Sulphate	23	N/A	2017/02/06	ATL SOP 00023	ASTMD516-11 m
Total Dissolved Solids (TDS calc)	23	N/A	2017/02/07	N/A	Auto Calc.

Your P.O. #: A08305  
Your Project #: P-0010903  
Site Location: LAKE GEORGE

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

Your C.O.C. #: 595824-01-01, 595824-02-01, 595824-03-01

**Report Date: 2017/02/08**

Report #: R4353067

Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B721953**

**Received: 2017/02/01, 11:56**

Sample Matrix: Water  
# Samples Received: 23

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Organic carbon - Total (TOC) (2)	23	N/A	2017/02/07	ATL SOP 00037	SM 22 5310C m
Total Suspended Solids	1	2017/02/03	2017/02/07	ATL SOP 00007	SM 22 2540D m
Total Suspended Solids	5	2017/02/03	2017/02/08	ATL SOP 00007	SM 22 2540D m
Turbidity	23	N/A	2017/02/03	ATL SOP 00011	EPA 180.1 R2 m

**Remarks:**

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported: unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods. Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) The APHA Standard Method require pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.

(2) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Your P.O. #: A08305  
Your Project #: P-0010903  
Site Location: LAKE GEORGE

**Attention: Aven Cole**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

Your C.O.C. #: 595824-01-01, 595824-02-01, 595824-03-01

**Report Date: 2017/02/08**

Report #: R4353067

Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B721953**

**Received: 2017/02/01, 11:56**

Encryption Key



Maxxam  
08 Feb 2017 11:40:12

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Avery Withrow, Project Manager

Email: AWithrow@maxxam.ca

Phone# (902)420-0203 Ext:233

=====

This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

<b>Maxxam ID</b>		DVS397			DVS398			DVS399			
<b>Sampling Date</b>		2017/01/31 13:00			2017/01/30 09:25			2017/01/30 11:50			
<b>COC Number</b>		595824-01-01			595824-01-01			595824-01-01			
	<b>UNITS</b>	<b>SW1</b>	<b>RDL</b>	<b>QC Batch</b>	<b>SW2</b>	<b>RDL</b>	<b>QC Batch</b>	<b>SW3</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

<b>Calculated Parameters</b>											
Anion Sum	me/L	0.420	N/A	4848533	0.380	N/A	4848533	1.01	N/A	4848533	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4848529	<1.0	1.0	4848529	24	1.0	4848529	0.20
Calculated TDS	mg/L	35	1.0	4848538	30	1.0	4848538	70	1.0	4848538	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4848529	<1.0	1.0	4848529	<1.0	1.0	4848529	0.20
Cation Sum	me/L	0.620	N/A	4848533	0.530	N/A	4848533	1.20	N/A	4848533	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	3.9	1.0	4848531	7.2	1.0	4848531	24	1.0	4848531	1.0
Ion Balance (% Difference)	%	19.2	N/A	4848532	16.5	N/A	4848532	8.60	N/A	4848532	N/A
Langelier Index (@ 20C)	N/A	NC		4848536	NC		4848536	-2.62		4848536	
Langelier Index (@ 4C)	N/A	NC		4848537	NC		4848537	-2.87		4848537	
Nitrate (N)	mg/L	<0.050	0.050	4848534	<0.050	0.050	4848534	0.087	0.050	4848534	N/A
Saturation pH (@ 20C)	N/A	NC		4848536	NC		4848536	9.15		4848536	
Saturation pH (@ 4C)	N/A	NC		4848537	NC		4848537	9.40		4848537	

<b>Inorganics</b>											
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	<5.0	5.0	4850350	<5.0	5.0	4850350	24	5.0	4850350	N/A
Dissolved Chloride (Cl)	mg/L	15	1.0	4850359	13	1.0	4850359	16	1.0	4850359	N/A
Colour	TCU	400	100	4850388	180	25	4850388	330	100	4850388	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4850394	<0.050	0.050	4850394	0.087	0.050	4850394	N/A
Nitrite (N)	mg/L	<0.010	0.010	4850395	<0.010	0.010	4850395	<0.010	0.010	4850395	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	4849179	<0.050	0.050	4849179	0.091	0.050	4849179	N/A
Total Organic Carbon (C)	mg/L	19 (1)	5.0	4854231	12 (1)	5.0	4854231	18 (1)	5.0	4854231	N/A
Orthophosphate (P)	mg/L	0.017	0.010	4850390	0.013	0.010	4850390	0.026	0.010	4850390	N/A
pH	pH	5.05	N/A	4850237	5.08	N/A	4852494	6.53	N/A	4850237	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	4.7	0.50	4850377	4.4	0.50	4850377	7.8	0.50	4850377	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	<2.0	2.0	4850366	<2.0	2.0	4850366	2.8	2.0	4850366	N/A
Turbidity	NTU	1.8	0.10	4850250	1.6	0.10	4850252	5.3	0.10	4850250	0.10
Conductivity	uS/cm	75	1.0	4850238	65	1.0	4852495	110	1.0	4850238	N/A

<b>Metals</b>											
Total Aluminum (Al)	ug/L	580	5.0	4850280	440	5.0	4850280	810	5.0	4850280	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4850280	<1.0	1.0	4850280	<1.0	1.0	4850280	N/A
Total Arsenic (As)	ug/L	<1.0	1.0	4850280	<1.0	1.0	4850280	2.3	1.0	4850280	N/A
Total Barium (Ba)	ug/L	2.1	1.0	4850280	2.7	1.0	4850280	9.2	1.0	4850280	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) Elevated reporting limit due to sample matrix.

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DVS397			DVS398			DVS399			
Sampling Date		2017/01/31 13:00			2017/01/30 09:25			2017/01/30 11:50			
COC Number		595824-01-01			595824-01-01			595824-01-01			
	UNITS	SW1	RDL	QC Batch	SW2	RDL	QC Batch	SW3	RDL	QC Batch	MDL
Total Beryllium (Be)	ug/L	<1.0	1.0	4850280	<1.0	1.0	4850280	<1.0	1.0	4850280	N/A
Total Bismuth (Bi)	ug/L	<2.0	2.0	4850280	<2.0	2.0	4850280	<2.0	2.0	4850280	N/A
Total Boron (B)	ug/L	<50	50	4850280	<50	50	4850280	<50	50	4850280	N/A
Total Cadmium (Cd)	ug/L	0.036	0.010	4850280	0.026	0.010	4850280	0.041	0.010	4850280	N/A
Total Calcium (Ca)	ug/L	810	100	4850280	1300	100	4850280	6400	100	4850280	N/A
Total Chromium (Cr)	ug/L	1.1	1.0	4850280	<1.0	1.0	4850280	1.9	1.0	4850280	N/A
Total Cobalt (Co)	ug/L	<0.40	0.40	4850280	<0.40	0.40	4850280	0.78	0.40	4850280	N/A
Total Copper (Cu)	ug/L	<2.0	2.0	4850280	<2.0	2.0	4850280	3.8	2.0	4850280	N/A
Total Iron (Fe)	ug/L	590	50	4850280	370	50	4850280	2700	50	4850280	N/A
Total Lead (Pb)	ug/L	2.8	0.50	4850280	1.5	0.50	4850280	1.7	0.50	4850280	N/A
Total Magnesium (Mg)	ug/L	460	100	4850280	970	100	4850280	2000	100	4850280	N/A
Total Manganese (Mn)	ug/L	11	2.0	4850280	15	2.0	4850280	120	2.0	4850280	N/A
Total Molybdenum (Mo)	ug/L	<2.0	2.0	4850280	<2.0	2.0	4850280	<2.0	2.0	4850280	N/A
Total Nickel (Ni)	ug/L	<2.0	2.0	4850280	<2.0	2.0	4850280	3.1	2.0	4850280	N/A
Total Phosphorus (P)	ug/L	<100	100	4850280	<100	100	4850280	<100	100	4850280	N/A
Total Potassium (K)	ug/L	3900	100	4850280	1900	100	4850280	7100	100	4850280	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	4850280	<1.0	1.0	4850280	<1.0	1.0	4850280	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	4850280	<0.10	0.10	4850280	<0.10	0.10	4850280	N/A
Total Sodium (Na)	ug/L	9600	100	4850280	7600	100	4850280	11000	100	4850280	N/A
Total Strontium (Sr)	ug/L	5.6	2.0	4850280	8.7	2.0	4850280	29	2.0	4850280	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4850280	<0.10	0.10	4850280	<0.10	0.10	4850280	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	4850280	<2.0	2.0	4850280	<2.0	2.0	4850280	N/A
Total Titanium (Ti)	ug/L	11	2.0	4850280	5.1	2.0	4850280	15	2.0	4850280	N/A
Total Uranium (U)	ug/L	<0.10	0.10	4850280	<0.10	0.10	4850280	<0.10	0.10	4850280	N/A
Total Vanadium (V)	ug/L	<2.0	2.0	4850280	<2.0	2.0	4850280	<2.0	2.0	4850280	N/A
Total Zinc (Zn)	ug/L	<5.0	5.0	4850280	<5.0	5.0	4850280	36	5.0	4850280	N/A
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
N/A = Not Applicable											

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

<b>Maxxam ID</b>		DVS400			DVS401			DVS402			
<b>Sampling Date</b>		2017/01/31 13:30			2017/01/30 11:55			2017/01/31 13:37			
<b>COC Number</b>		595824-01-01			595824-01-01			595824-01-01			
	<b>UNITS</b>	<b>SW4</b>	<b>RDL</b>	<b>QC Batch</b>	<b>SW5</b>	<b>RDL</b>	<b>QC Batch</b>	<b>SW6</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

<b>Calculated Parameters</b>											
Anion Sum	me/L	0.870	N/A	4848533	0.830	N/A	4848533	1.05	N/A	4848533	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4848529	19	1.0	4848529	16	1.0	4848529	0.20
Calculated TDS	mg/L	60	1.0	4848538	59	1.0	4848538	70	1.0	4848538	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4848529	<1.0	1.0	4848529	<1.0	1.0	4848529	0.20
Cation Sum	me/L	1.05	N/A	4848533	1.05	N/A	4848533	1.22	N/A	4848533	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	11	1.0	4848531	21	1.0	4848531	21	1.0	4848531	1.0
Ion Balance (% Difference)	%	9.38	N/A	4848532	11.7	N/A	4848532	7.49	N/A	4848532	N/A
Langelier Index (@ 20C)	N/A	NC		4848536	-2.76		4848536	-2.46		4848536	
Langelier Index (@ 4C)	N/A	NC		4848537	-3.02		4848537	-2.71		4848537	
Nitrate (N)	mg/L	0.41	0.050	4848534	0.19	0.050	4848534	0.21	0.050	4848534	N/A
Saturation pH (@ 20C)	N/A	NC		4848536	9.32		4848536	9.39		4848536	
Saturation pH (@ 4C)	N/A	NC		4848537	9.57		4848537	9.64		4848537	

<b>Inorganics</b>											
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	<5.0	5.0	4850350	19	5.0	4850399	16	5.0	4850350	N/A
Dissolved Chloride (Cl)	mg/L	30	1.0	4850359	16	1.0	4850402	25	1.0	4850359	N/A
Colour	TCU	230	25	4850388	270	50	4850410	160	25	4850388	N/A
Nitrate + Nitrite (N)	mg/L	0.41	0.050	4850394	0.19	0.050	4850416	0.21	0.050	4850394	N/A
Nitrite (N)	mg/L	<0.010	0.010	4850395	<0.010	0.010	4850417	<0.010	0.010	4850395	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	4849179	<0.050	0.050	4849179	<0.050	0.050	4849179	N/A
Total Organic Carbon (C)	mg/L	11 (1)	5.0	4854231	22 (1)	5.0	4854231	14 (1)	5.0	4854231	N/A
Orthophosphate (P)	mg/L	0.013	0.010	4850390	0.020	0.010	4850415	0.018	0.010	4850390	N/A
pH	pH	5.82	N/A	4850241	6.55	N/A	4850237	6.93	N/A	4850237	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	4.7	0.50	4850377	7.1	0.50	4850406	6.4	0.50	4850377	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	<2.0	2.0	4850366	<2.0	2.0	4850405	<2.0	2.0	4850366	N/A
Turbidity	NTU	1.3	0.10	4850250	6.2	0.10	4850250	1.6	0.10	4850250	0.10
Conductivity	uS/cm	130	1.0	4850242	100	1.0	4850238	130	1.0	4850238	N/A

<b>Metals</b>											
Total Aluminum (Al)	ug/L	460	5.0	4850280	570	5.0	4850280	400	5.0	4850280	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4850280	<1.0	1.0	4850280	<1.0	1.0	4850280	N/A
Total Arsenic (As)	ug/L	<1.0	1.0	4850280	1.4	1.0	4850280	<1.0	1.0	4850280	N/A
Total Barium (Ba)	ug/L	3.8	1.0	4850280	6.6	1.0	4850280	5.7	1.0	4850280	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) Elevated reporting limit due to sample matrix.



Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DVS400			DVS401			DVS402			
Sampling Date		2017/01/31 13:30			2017/01/30 11:55			2017/01/31 13:37			
COC Number		595824-01-01			595824-01-01			595824-01-01			
	UNITS	SW4	RDL	QC Batch	SW5	RDL	QC Batch	SW6	RDL	QC Batch	MDL
Total Beryllium (Be)	ug/L	<1.0	1.0	4850280	<1.0	1.0	4850280	<1.0	1.0	4850280	N/A
Total Bismuth (Bi)	ug/L	<2.0	2.0	4850280	<2.0	2.0	4850280	<2.0	2.0	4850280	N/A
Total Boron (B)	ug/L	<50	50	4850280	<50	50	4850280	<50	50	4850280	N/A
Total Cadmium (Cd)	ug/L	0.023	0.010	4850280	0.030	0.010	4850280	0.019	0.010	4850280	N/A
Total Calcium (Ca)	ug/L	2500	100	4850280	5300	100	4850280	5300	100	4850280	N/A
Total Chromium (Cr)	ug/L	4.2	1.0	4850280	1.5	1.0	4850280	1.1	1.0	4850280	N/A
Total Cobalt (Co)	ug/L	<0.40	0.40	4850280	0.45	0.40	4850280	<0.40	0.40	4850280	N/A
Total Copper (Cu)	ug/L	2.2	2.0	4850280	3.4	2.0	4850280	3.1	2.0	4850280	N/A
Total Iron (Fe)	ug/L	660	50	4850280	1600	50	4850280	810	50	4850280	N/A
Total Lead (Pb)	ug/L	1.3	0.50	4850280	0.80	0.50	4850280	<0.50	0.50	4850280	N/A
Total Magnesium (Mg)	ug/L	1200	100	4850280	1800	100	4850280	1800	100	4850280	N/A
Total Manganese (Mn)	ug/L	15	2.0	4850280	46	2.0	4850280	11	2.0	4850280	N/A
Total Molybdenum (Mo)	ug/L	<2.0	2.0	4850280	<2.0	2.0	4850280	<2.0	2.0	4850280	N/A
Total Nickel (Ni)	ug/L	2.1	2.0	4850280	2.2	2.0	4850280	<2.0	2.0	4850280	N/A
Total Phosphorus (P)	ug/L	<100	100	4850280	<100	100	4850280	<100	100	4850280	N/A
Total Potassium (K)	ug/L	2700	100	4850280	5500	100	4850280	4500	100	4850280	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	4850280	<1.0	1.0	4850280	<1.0	1.0	4850280	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	4850280	<0.10	0.10	4850280	<0.10	0.10	4850280	N/A
Total Sodium (Na)	ug/L	17000	100	4850280	10000	100	4850280	15000	100	4850280	N/A
Total Strontium (Sr)	ug/L	16	2.0	4850280	26	2.0	4850280	27	2.0	4850280	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4850280	<0.10	0.10	4850280	<0.10	0.10	4850280	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	4850280	<2.0	2.0	4850280	<2.0	2.0	4850280	N/A
Total Titanium (Ti)	ug/L	6.5	2.0	4850280	11	2.0	4850280	6.4	2.0	4850280	N/A
Total Uranium (U)	ug/L	<0.10	0.10	4850280	<0.10	0.10	4850280	<0.10	0.10	4850280	N/A
Total Vanadium (V)	ug/L	<2.0	2.0	4850280	<2.0	2.0	4850280	<2.0	2.0	4850280	N/A
Total Zinc (Zn)	ug/L	<5.0	5.0	4850280	21	5.0	4850280	15	5.0	4850280	N/A
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
N/A = Not Applicable											

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DVS403		DVS404			DVS405			
Sampling Date		2017/01/30 09:10		2017/01/30 10:05			2017/01/30 10:10			
COC Number		595824-01-01		595824-01-01			595824-01-01			
	UNITS	SW7	QC Batch	SW8	RDL	QC Batch	SW9	RDL	QC Batch	MDL
<b>Calculated Parameters</b>										
Anion Sum	me/L	0.380	4848790	0.360	N/A	4848790	0.810	N/A	4848790	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	4848529	<1.0	1.0	4848529	25	1.0	4848786	0.20
Calculated TDS	mg/L	29	4848794	29	1.0	4848794	50	1.0	4848794	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	4848529	<1.0	1.0	4848529	<1.0	1.0	4848786	0.20
Cation Sum	me/L	0.510	4848790	0.640	N/A	4848790	0.940	N/A	4848790	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	7.0	4848788	15	1.0	4848788	20	1.0	4848788	1.0
Ion Balance (% Difference)	%	14.6	4848789	28.0	N/A	4848789	7.43	N/A	4848789	N/A
Langelier Index (@ 20C)	N/A	NC	4848536	NC		4848536	-2.11		4848792	
Langelier Index (@ 4C)	N/A	NC	4848537	NC		4848537	-2.36		4848793	
Nitrate (N)	mg/L	<0.050	4848791	<0.050	0.050	4848791	<0.050	0.050	4848791	N/A
Saturation pH (@ 20C)	N/A	NC	4848536	NC		4848536	9.16		4848792	
Saturation pH (@ 4C)	N/A	NC	4848537	NC		4848537	9.41		4848793	
<b>Inorganics</b>										
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	<5.0	4850350	<5.0	5.0	4850350	25	5.0	4850350	N/A
Dissolved Chloride (Cl)	mg/L	13	4850359	13	1.0	4850359	9.1	1.0	4850359	N/A
Colour	TCU	180	4850388	190	25	4850388	150	25	4850388	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	4850394	<0.050	0.050	4850394	<0.050	0.050	4850394	N/A
Nitrite (N)	mg/L	<0.010	4850395	<0.010	0.010	4850395	<0.010	0.010	4850395	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	4849179	<0.050	0.050	4849179	<0.050	0.050	4849179	N/A
Total Organic Carbon (C)	mg/L	13	4854231	19	0.50	4854231	18 (1)	5.0	4854231	N/A
Orthophosphate (P)	mg/L	0.011	4850390	0.012	0.010	4850390	0.040	0.010	4850390	N/A
pH	pH	5.54	4850237	5.58	N/A	4850237	7.05	N/A	4850241	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	4.5	4850377	2.4	0.50	4850377	1.1	0.50	4850377	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	<2.0	4850366	<2.0	2.0	4850366	2.1	2.0	4850366	N/A
Turbidity	NTU	1.1	4850249	2.5	0.10	4850250	13	0.10	4850250	0.10
Conductivity	uS/cm	64	4850238	66	1.0	4850238	94	1.0	4850242	N/A
<b>Metals</b>										
Total Aluminum (Al)	ug/L	380	4850280	850	5.0	4850497	760	5.0	4850497	N/A
Total Antimony (Sb)	ug/L	<1.0	4850280	<1.0	1.0	4850497	<1.0	1.0	4850497	N/A
Total Arsenic (As)	ug/L	<1.0	4850280	<1.0	1.0	4850497	1.9	1.0	4850497	N/A
Total Barium (Ba)	ug/L	2.3	4850280	6.0	1.0	4850497	5.5	1.0	4850497	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Elevated reporting limit due to sample matrix.										

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DVS403		DVS404			DVS405			
Sampling Date		2017/01/30 09:10		2017/01/30 10:05			2017/01/30 10:10			
COC Number		595824-01-01		595824-01-01			595824-01-01			
	UNITS	SW7	QC Batch	SW8	RDL	QC Batch	SW9	RDL	QC Batch	MDL
Total Beryllium (Be)	ug/L	<1.0	4850280	<1.0	1.0	4850497	<1.0	1.0	4850497	N/A
Total Bismuth (Bi)	ug/L	<2.0	4850280	<2.0	2.0	4850497	<2.0	2.0	4850497	N/A
Total Boron (B)	ug/L	<50	4850280	<50	50	4850497	<50	50	4850497	N/A
Total Cadmium (Cd)	ug/L	0.016	4850280	0.054	0.010	4850497	0.038	0.010	4850497	N/A
Total Calcium (Ca)	ug/L	1200	4850280	3600	100	4850497	5600	100	4850497	N/A
Total Chromium (Cr)	ug/L	<1.0	4850280	1.1	1.0	4850497	1.5	1.0	4850497	N/A
Total Cobalt (Co)	ug/L	<0.40	4850280	1.3	0.40	4850497	0.94	0.40	4850497	N/A
Total Copper (Cu)	ug/L	<2.0	4850280	<2.0	2.0	4850497	6.5	2.0	4850497	N/A
Total Iron (Fe)	ug/L	320	4850280	750	50	4850497	1300	50	4850497	N/A
Total Lead (Pb)	ug/L	1.1	4850280	0.62	0.50	4850497	1.3	0.50	4850497	N/A
Total Magnesium (Mg)	ug/L	970	4850280	1400	100	4850497	1500	100	4850497	N/A
Total Manganese (Mn)	ug/L	15	4850280	64	2.0	4850497	84	2.0	4850497	N/A
Total Molybdenum (Mo)	ug/L	<2.0	4850280	<2.0	2.0	4850497	<2.0	2.0	4850497	N/A
Total Nickel (Ni)	ug/L	<2.0	4850280	2.6	2.0	4850497	2.4	2.0	4850497	N/A
Total Phosphorus (P)	ug/L	<100	4850280	<100	100	4850497	150	100	4850497	N/A
Total Potassium (K)	ug/L	1600	4850280	670	100	4850497	6100	100	4850497	N/A
Total Selenium (Se)	ug/L	<1.0	4850280	<1.0	1.0	4850497	<1.0	1.0	4850497	N/A
Total Silver (Ag)	ug/L	<0.10	4850280	<0.10	0.10	4850497	<0.10	0.10	4850497	N/A
Total Sodium (Na)	ug/L	7200	4850280	6900	100	4850497	7700	100	4850497	N/A
Total Strontium (Sr)	ug/L	8.0	4850280	21	2.0	4850497	25	2.0	4850497	N/A
Total Thallium (Tl)	ug/L	<0.10	4850280	<0.10	0.10	4850497	<0.10	0.10	4850497	N/A
Total Tin (Sn)	ug/L	<2.0	4850280	<2.0	2.0	4850497	<2.0	2.0	4850497	N/A
Total Titanium (Ti)	ug/L	4.2	4850280	7.4	2.0	4850497	22	2.0	4850497	N/A
Total Uranium (U)	ug/L	<0.10	4850280	<0.10	0.10	4850497	<0.10	0.10	4850497	N/A
Total Vanadium (V)	ug/L	<2.0	4850280	<2.0	2.0	4850497	<2.0	2.0	4850497	N/A
Total Zinc (Zn)	ug/L	<5.0	4850280	10	5.0	4850497	6.9	5.0	4850497	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable										

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

<b>Maxxam ID</b>		DVS405		DVS406			DVS419			
<b>Sampling Date</b>		2017/01/30 10:10		2017/01/30 09:45			2017/01/30 10:25			
<b>COC Number</b>		595824-01-01		595824-01-01			595824-02-01			
	<b>UNITS</b>	<b>SW9 Lab-Dup</b>	<b>QC Batch</b>	<b>SW10</b>	<b>RDL</b>	<b>QC Batch</b>	<b>SW11</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Calculated Parameters

Anion Sum	me/L		4848790	0.350	N/A	4848790	0.380	N/A	4848790	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L		4848786	<1.0	1.0	4848786	<1.0	1.0	4848786	0.20
Calculated TDS	mg/L		4848794	25	1.0	4848794	32	1.0	4848794	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L		4848786	<1.0	1.0	4848786	<1.0	1.0	4848786	0.20
Cation Sum	me/L		4848790	0.490	N/A	4848790	0.580	N/A	4848790	N/A
Hardness (CaCO <sub>3</sub> )	mg/L		4848788	5.3	1.0	4848788	2.3	1.0	4848788	1.0
Ion Balance (% Difference)	%		4848789	16.7	N/A	4848789	20.8	N/A	4848789	N/A
Langelier Index (@ 20C)	N/A		4848792	NC		4848792	NC		4848792	
Langelier Index (@ 4C)	N/A		4848793	NC		4848793	NC		4848793	
Nitrate (N)	mg/L		4848791	<0.050	0.050	4848791	<0.050	0.050	4848791	N/A
Saturation pH (@ 20C)	N/A		4848792	NC		4848792	NC		4848792	
Saturation pH (@ 4C)	N/A		4848793	NC		4848793	NC		4848793	

#### Inorganics

Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L		4850350	<5.0	5.0	4850350	<5.0	5.0	4850350	N/A
Dissolved Chloride (Cl)	mg/L		4850359	12	1.0	4850359	14	1.0	4850359	N/A
Colour	TCU		4850388	220	25	4850388	440	100	4850388	N/A
Nitrate + Nitrite (N)	mg/L		4850394	<0.050	0.050	4850394	<0.050	0.050	4850394	N/A
Nitrite (N)	mg/L		4850395	<0.010	0.010	4850395	<0.010	0.010	4850395	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	4849179	<0.050	0.050	4849179	<0.050	0.050	4849192	N/A
Total Organic Carbon (C)	mg/L		4854231	22 (1)	5.0	4854231	20 (1)	5.0	4854231	N/A
Orthophosphate (P)	mg/L		4850390	0.010	0.010	4850390	0.016	0.010	4850390	N/A
pH	pH		4850241	4.10	N/A	4850237	5.12	N/A	4850237	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L		4850377	3.9	0.50	4850377	3.7	0.50	4850377	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L		4850366	<2.0	2.0	4850366	<2.0	2.0	4850366	N/A
Turbidity	NTU		4850250	1.4	0.10	4850250	2.0	0.10	4850250	0.10
Conductivity	uS/cm		4850242	77	1.0	4850238	72	1.0	4850238	N/A

#### Metals

Total Aluminum (Al)	ug/L		4850497	810	5.0	4850497	560	5.0	4850234	N/A
Total Antimony (Sb)	ug/L		4850497	<1.0	1.0	4850497	<1.0	1.0	4850234	N/A
Total Arsenic (As)	ug/L		4850497	<1.0	1.0	4850497	<1.0	1.0	4850234	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable

(1) Elevated reporting limit due to sample matrix.

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DVS405		DVS406			DVS419			
Sampling Date		2017/01/30 10:10		2017/01/30 09:45			2017/01/30 10:25			
COC Number		595824-01-01		595824-01-01			595824-02-01			
	UNITS	SW9 Lab-Dup	QC Batch	SW10	RDL	QC Batch	SW11	RDL	QC Batch	MDL
Total Barium (Ba)	ug/L		4850497	3.9	1.0	4850497	1.4	1.0	4850234	N/A
Total Beryllium (Be)	ug/L		4850497	<1.0	1.0	4850497	<1.0	1.0	4850234	N/A
Total Bismuth (Bi)	ug/L		4850497	<2.0	2.0	4850497	<2.0	2.0	4850234	N/A
Total Boron (B)	ug/L		4850497	<50	50	4850497	<50	50	4850234	N/A
Total Cadmium (Cd)	ug/L		4850497	0.054	0.010	4850497	0.035	0.010	4850234	N/A
Total Calcium (Ca)	ug/L		4850497	660	100	4850497	460	100	4850234	N/A
Total Chromium (Cr)	ug/L		4850497	<1.0	1.0	4850497	2.1	1.0	4850234	N/A
Total Cobalt (Co)	ug/L		4850497	0.86	0.40	4850497	<0.40	0.40	4850234	N/A
Total Copper (Cu)	ug/L		4850497	<2.0	2.0	4850497	<2.0	2.0	4850234	N/A
Total Iron (Fe)	ug/L		4850497	580	50	4850497	550	50	4850234	N/A
Total Lead (Pb)	ug/L		4850497	1.7	0.50	4850497	3.0	0.50	4850234	N/A
Total Magnesium (Mg)	ug/L		4850497	880	100	4850497	290	100	4850234	N/A
Total Manganese (Mn)	ug/L		4850497	19	2.0	4850497	5.7	2.0	4850234	N/A
Total Molybdenum (Mo)	ug/L		4850497	<2.0	2.0	4850497	<2.0	2.0	4850234	N/A
Total Nickel (Ni)	ug/L		4850497	<2.0	2.0	4850497	<2.0	2.0	4850234	N/A
Total Phosphorus (P)	ug/L		4850497	<100	100	4850497	<100	100	4850234	N/A
Total Potassium (K)	ug/L		4850497	180	100	4850497	4400	100	4850234	N/A
Total Selenium (Se)	ug/L		4850497	<1.0	1.0	4850497	<1.0	1.0	4850234	N/A
Total Silver (Ag)	ug/L		4850497	<0.10	0.10	4850497	<0.10	0.10	4850234	N/A
Total Sodium (Na)	ug/L		4850497	6500	100	4850497	9000	100	4850234	N/A
Total Strontium (Sr)	ug/L		4850497	8.5	2.0	4850497	3.3	2.0	4850234	N/A
Total Thallium (Tl)	ug/L		4850497	<0.10	0.10	4850497	<0.10	0.10	4850234	N/A
Total Tin (Sn)	ug/L		4850497	<2.0	2.0	4850497	<2.0	2.0	4850234	N/A
Total Titanium (Ti)	ug/L		4850497	6.0	2.0	4850497	9.0	2.0	4850234	N/A
Total Uranium (U)	ug/L		4850497	<0.10	0.10	4850497	<0.10	0.10	4850234	N/A
Total Vanadium (V)	ug/L		4850497	<2.0	2.0	4850497	2.4	2.0	4850234	N/A
Total Zinc (Zn)	ug/L		4850497	7.6	5.0	4850497	<5.0	5.0	4850234	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable										

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DVS420	DVS420			DVS421			
Sampling Date		2017/01/30 08:50	2017/01/30 08:50			2017/01/31 13:15			
COC Number		595824-02-01	595824-02-01			595824-02-01			
	UNITS	SW13	SW13 Lab-Dup	RDL	QC Batch	SW14	RDL	QC Batch	MDL
<b>Calculated Parameters</b>									
Anion Sum	me/L	0.270		N/A	4848790	0.770	N/A	4848790	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0		1.0	4848786	<1.0	1.0	4848786	0.20
Calculated TDS	mg/L	17		1.0	4848794	55	1.0	4848794	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0		1.0	4848786	<1.0	1.0	4848786	0.20
Cation Sum	me/L	0.370		N/A	4848790	0.960	N/A	4848790	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	5.6		1.0	4848788	9.6	1.0	4848788	1.0
Ion Balance (% Difference)	%	15.6		N/A	4848789	11.0	N/A	4848789	N/A
Langelier Index (@ 20C)	N/A	NC			4848792	NC		4848792	
Langelier Index (@ 4C)	N/A	NC			4848793	NC		4848793	
Nitrate (N)	mg/L	<0.050		0.050	4848791	0.29	0.050	4848791	N/A
Saturation pH (@ 20C)	N/A	NC			4848792	NC		4848792	
Saturation pH (@ 4C)	N/A	NC			4848793	NC		4848793	
<b>Inorganics</b>									
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	<5.0		5.0	4850399	<5.0	5.0	4850399	N/A
Dissolved Chloride (Cl)	mg/L	9.5		1.0	4850402	26	1.0	4850402	N/A
Colour	TCU	19		5.0	4850410	190	25	4850410	N/A
Nitrate + Nitrite (N)	mg/L	<0.050		0.050	4850416	0.29	0.050	4850416	N/A
Nitrite (N)	mg/L	<0.010		0.010	4850417	<0.010	0.010	4850417	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050		0.050	4849192	<0.050	0.050	4849192	N/A
Total Organic Carbon (C)	mg/L	3.3		0.50	4854231	11 (1)	5.0	4854231	N/A
Orthophosphate (P)	mg/L	<0.010		0.010	4850415	0.011	0.010	4850415	N/A
pH	pH	6.05		N/A	4850241	5.93	N/A	4850241	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	<0.50		0.50	4850406	4.9	0.50	4850406	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	<2.0		2.0	4850405	<2.0	2.0	4850405	N/A
Turbidity	NTU	0.50		0.10	4850250	0.85	0.10	4850252	0.10
Conductivity	uS/cm	45		1.0	4850242	120	1.0	4850242	N/A
<b>Metals</b>									
Total Aluminum (Al)	ug/L	71	66	5.0	4850234	520	5.0	4850497	N/A
Total Antimony (Sb)	ug/L	<1.0	<1.0	1.0	4850234	<1.0	1.0	4850497	N/A
Total Arsenic (As)	ug/L	<1.0	<1.0	1.0	4850234	<1.0	1.0	4850497	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Elevated reporting limit due to sample matrix.									



Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DVS420	DVS420			DVS421			
Sampling Date		2017/01/30 08:50	2017/01/30 08:50			2017/01/31 13:15			
COC Number		595824-02-01	595824-02-01			595824-02-01			
	UNITS	SW13	SW13 Lab-Dup	RDL	QC Batch	SW14	RDL	QC Batch	MDL
Total Barium (Ba)	ug/L	2.3	2.3	1.0	4850234	3.9	1.0	4850497	N/A
Total Beryllium (Be)	ug/L	<1.0	<1.0	1.0	4850234	<1.0	1.0	4850497	N/A
Total Bismuth (Bi)	ug/L	<2.0	<2.0	2.0	4850234	<2.0	2.0	4850497	N/A
Total Boron (B)	ug/L	<50	<50	50	4850234	<50	50	4850497	N/A
Total Cadmium (Cd)	ug/L	<0.010	<0.010	0.010	4850234	0.034	0.010	4850497	N/A
Total Calcium (Ca)	ug/L	900	880	100	4850234	2100	100	4850497	N/A
Total Chromium (Cr)	ug/L	<1.0	<1.0	1.0	4850234	<1.0	1.0	4850497	N/A
Total Cobalt (Co)	ug/L	<0.40	<0.40	0.40	4850234	<0.40	0.40	4850497	N/A
Total Copper (Cu)	ug/L	<2.0	<2.0	2.0	4850234	2.2	2.0	4850497	N/A
Total Iron (Fe)	ug/L	78	86	50	4850234	600	50	4850497	N/A
Total Lead (Pb)	ug/L	<0.50	<0.50	0.50	4850234	0.92	0.50	4850497	N/A
Total Magnesium (Mg)	ug/L	820	800	100	4850234	1100	100	4850497	N/A
Total Manganese (Mn)	ug/L	6.3	6.1	2.0	4850234	14	2.0	4850497	N/A
Total Molybdenum (Mo)	ug/L	<2.0	<2.0	2.0	4850234	<2.0	2.0	4850497	N/A
Total Nickel (Ni)	ug/L	<2.0	<2.0	2.0	4850234	<2.0	2.0	4850497	N/A
Total Phosphorus (P)	ug/L	<100	<100	100	4850234	<100	100	4850497	N/A
Total Potassium (K)	ug/L	400	380	100	4850234	2800	100	4850497	N/A
Total Selenium (Se)	ug/L	<1.0	<1.0	1.0	4850234	<1.0	1.0	4850497	N/A
Total Silver (Ag)	ug/L	<0.10	<0.10	0.10	4850234	<0.10	0.10	4850497	N/A
Total Sodium (Na)	ug/L	5700	5500	100	4850234	17000	100	4850497	N/A
Total Strontium (Sr)	ug/L	7.5	7.2	2.0	4850234	13	2.0	4850497	N/A
Total Thallium (Tl)	ug/L	<0.10	<0.10	0.10	4850234	<0.10	0.10	4850497	N/A
Total Tin (Sn)	ug/L	<2.0	<2.0	2.0	4850234	<2.0	2.0	4850497	N/A
Total Titanium (Ti)	ug/L	<2.0	<2.0	2.0	4850234	5.7	2.0	4850497	N/A
Total Uranium (U)	ug/L	<0.10	<0.10	0.10	4850234	<0.10	0.10	4850497	N/A
Total Vanadium (V)	ug/L	<2.0	<2.0	2.0	4850234	<2.0	2.0	4850497	N/A
Total Zinc (Zn)	ug/L	<5.0	<5.0	5.0	4850234	<5.0	5.0	4850497	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable									

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

<b>Maxxam ID</b>		DVS422			DVS423	DVS423			
<b>Sampling Date</b>		2017/01/31 13:45			2017/01/31 14:00	2017/01/31 14:00			
<b>COC Number</b>		595824-02-01			595824-02-01	595824-02-01			
	<b>UNITS</b>	<b>SW15</b>	<b>RDL</b>	<b>QC Batch</b>	<b>SW16</b>	<b>SW16 Lab-Dup</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Calculated Parameters</b>									
Anion Sum	me/L	1.19	N/A	4848790	0.540		N/A	4848790	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4848786	<1.0		1.0	4848786	0.20
Calculated TDS	mg/L	75	1.0	4848794	40		1.0	4848794	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4848786	<1.0		1.0	4848786	0.20
Cation Sum	me/L	1.26	N/A	4848790	0.740		N/A	4848790	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	18	1.0	4848788	12		1.0	4848788	1.0
Ion Balance (% Difference)	%	2.86	N/A	4848789	15.6		N/A	4848789	N/A
Langelier Index (@ 20C)	N/A	NC		4848792	NC			4848792	
Langelier Index (@ 4C)	N/A	NC		4848793	NC			4848793	
Nitrate (N)	mg/L	<0.050	0.050	4848791	<0.050		0.050	4848791	N/A
Saturation pH (@ 20C)	N/A	NC		4848792	NC			4848792	
Saturation pH (@ 4C)	N/A	NC		4848793	NC			4848793	
<b>Inorganics</b>									
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	<5.0	5.0	4850399	<5.0		5.0	4850399	N/A
Dissolved Chloride (Cl)	mg/L	39	1.0	4850402	19		1.0	4850402	N/A
Colour	TCU	10	5.0	4850410	110		25	4850410	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4850416	<0.050		0.050	4850416	N/A
Nitrite (N)	mg/L	<0.010	0.010	4850417	<0.010		0.010	4850417	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	4849192	<0.050		0.050	4849192	N/A
Total Organic Carbon (C)	mg/L	3.0	0.50	4854231	10		0.50	4854231	N/A
Orthophosphate (P)	mg/L	<0.010	0.010	4850415	0.011		0.010	4850415	N/A
pH	pH	5.87	N/A	4850237	5.63	5.63	N/A	4850237	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	4.6	0.50	4850406	4.5		0.50	4850406	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	4.6	2.0	4850405	<2.0		2.0	4850405	N/A
Turbidity	NTU	0.29	0.10	4850250	0.54		0.10	4850249	0.10
Conductivity	uS/cm	150	1.0	4850238	83	83	1.0	4850238	N/A
<b>Metals</b>									
Total Aluminum (Al)	ug/L	210	5.0	4850234	200		5.0	4850497	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4850234	<1.0		1.0	4850497	N/A
Total Arsenic (As)	ug/L	<1.0	1.0	4850234	<1.0		1.0	4850497	N/A
Total Barium (Ba)	ug/L	6.4	1.0	4850234	2.7		1.0	4850497	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable									

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DVS422			DVS423	DVS423			
Sampling Date		2017/01/31 13:45			2017/01/31 14:00	2017/01/31 14:00			
COC Number		595824-02-01			595824-02-01	595824-02-01			
	UNITS	SW15	RDL	QC Batch	SW16	SW16 Lab-Dup	RDL	QC Batch	MDL
Total Beryllium (Be)	ug/L	<1.0	1.0	4850234	<1.0		1.0	4850497	N/A
Total Bismuth (Bi)	ug/L	<2.0	2.0	4850234	<2.0		2.0	4850497	N/A
Total Boron (B)	ug/L	<50	50	4850234	<50		50	4850497	N/A
Total Cadmium (Cd)	ug/L	0.026	0.010	4850234	0.010		0.010	4850497	N/A
Total Calcium (Ca)	ug/L	3800	100	4850234	2400		100	4850497	N/A
Total Chromium (Cr)	ug/L	<1.0	1.0	4850234	<1.0		1.0	4850497	N/A
Total Cobalt (Co)	ug/L	0.71	0.40	4850234	<0.40		0.40	4850497	N/A
Total Copper (Cu)	ug/L	<2.0	2.0	4850234	<2.0		2.0	4850497	N/A
Total Iron (Fe)	ug/L	190	50	4850234	210		50	4850497	N/A
Total Lead (Pb)	ug/L	<0.50	0.50	4850234	<0.50		0.50	4850497	N/A
Total Magnesium (Mg)	ug/L	2100	100	4850234	1400		100	4850497	N/A
Total Manganese (Mn)	ug/L	43	2.0	4850234	11		2.0	4850497	N/A
Total Molybdenum (Mo)	ug/L	<2.0	2.0	4850234	<2.0		2.0	4850497	N/A
Total Nickel (Ni)	ug/L	<2.0	2.0	4850234	<2.0		2.0	4850497	N/A
Total Phosphorus (P)	ug/L	<100	100	4850234	<100		100	4850497	N/A
Total Potassium (K)	ug/L	630	100	4850234	1200		100	4850497	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	4850234	<1.0		1.0	4850497	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	4850234	<0.10		0.10	4850497	N/A
Total Sodium (Na)	ug/L	20000	100	4850234	11000		100	4850497	N/A
Total Strontium (Sr)	ug/L	27	2.0	4850234	17		2.0	4850497	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4850234	<0.10		0.10	4850497	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	4850234	<2.0		2.0	4850497	N/A
Total Titanium (Ti)	ug/L	<2.0	2.0	4850234	<2.0		2.0	4850497	N/A
Total Uranium (U)	ug/L	<0.10	0.10	4850234	<0.10		0.10	4850497	N/A
Total Vanadium (V)	ug/L	<2.0	2.0	4850234	<2.0		2.0	4850497	N/A
Total Zinc (Zn)	ug/L	<5.0	5.0	4850234	<5.0		5.0	4850497	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DVS424	DVS424			DVS425	DVS425			
Sampling Date		2017/01/30 14:00	2017/01/30 14:00			2017/01/30 14:00	2017/01/30 14:00			
COC Number		595824-02-01	595824-02-01			595824-02-01	595824-02-01			
	UNITS	SW-DUP1	SW-DUP1 Lab-Dup	RDL	QC Batch	SW-DUP2	SW-DUP2 Lab-Dup	RDL	QC Batch	MDL

Calculated Parameters										
Anion Sum	me/L	0.750		N/A	4848790	0.510		N/A	4848790	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	25		1.0	4848786	<1.0		1.0	4848786	0.20
Calculated TDS	mg/L	48		1.0	4848794	38		1.0	4848794	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0		1.0	4848786	<1.0		1.0	4848786	0.20
Cation Sum	me/L	0.970		N/A	4848790	0.620		N/A	4848790	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	21		1.0	4848788	9.5		1.0	4848788	1.0
Ion Balance (% Difference)	%	12.8		N/A	4848789	9.73		N/A	4848789	N/A
Langelier Index (@ 20C)	N/A	-2.25			4848792	NC			4848792	
Langelier Index (@ 4C)	N/A	-2.50			4848793	NC			4848793	
Nitrate (N)	mg/L	<0.050		0.050	4848791	0.11		0.050	4848791	N/A
Saturation pH (@ 20C)	N/A	9.15			4848792	NC			4848792	
Saturation pH (@ 4C)	N/A	9.40			4848793	NC			4848793	

Inorganics										
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	25		5.0	4850399	<5.0	<5.0	5.0	4850399	N/A
Dissolved Chloride (Cl)	mg/L	8.7		1.0	4850402	18	18	1.0	4850402	N/A
Colour	TCU	150		25	4850410	89	93	25	4850410	N/A
Nitrate + Nitrite (N)	mg/L	<0.050		0.050	4850416	0.11	0.061	0.050	4850416	N/A
Nitrite (N)	mg/L	<0.010		0.010	4850417	<0.010	<0.010	0.010	4850417	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050		0.050	4849192	<0.050		0.050	4849192	N/A
Total Organic Carbon (C)	mg/L	13 (1)	13 (1)	5.0	4854545	8.7		0.50	4854545	N/A
Orthophosphate (P)	mg/L	0.041		0.010	4850415	0.011	<0.010	0.010	4850415	N/A
pH	pH	6.90		N/A	4850237	5.32		N/A	4850241	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	1.1		0.50	4850406	6.0	6.0	0.50	4850406	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	<2.0		2.0	4850405	<2.0	<2.0	2.0	4850405	N/A
Turbidity	NTU	33		0.10	4850249	1.1		0.10	4850250	0.10
Conductivity	uS/cm	91		1.0	4850238	77		1.0	4850242	N/A

Metals										
Total Aluminum (Al)	ug/L	790		5.0	4850497	360		5.0	4850497	N/A
Total Antimony (Sb)	ug/L	<1.0		1.0	4850497	<1.0		1.0	4850497	N/A
Total Arsenic (As)	ug/L	2.0		1.0	4850497	<1.0		1.0	4850497	N/A

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch  
Lab-Dup = Laboratory Initiated Duplicate  
N/A = Not Applicable  
(1) Reporting limit was increased due to turbidity.

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DVS424	DVS424			DVS425	DVS425			
Sampling Date		2017/01/30 14:00	2017/01/30 14:00			2017/01/30 14:00	2017/01/30 14:00			
COC Number		595824-02-01	595824-02-01			595824-02-01	595824-02-01			
	UNITS	SW-DUP1	SW-DUP1 Lab-Dup	RDL	QC Batch	SW-DUP2	SW-DUP2 Lab-Dup	RDL	QC Batch	MDL
Total Barium (Ba)	ug/L	5.8		1.0	4850497	7.1		1.0	4850497	N/A
Total Beryllium (Be)	ug/L	<1.0		1.0	4850497	<1.0		1.0	4850497	N/A
Total Bismuth (Bi)	ug/L	<2.0		2.0	4850497	<2.0		2.0	4850497	N/A
Total Boron (B)	ug/L	<50		50	4850497	<50		50	4850497	N/A
Total Cadmium (Cd)	ug/L	0.038		0.010	4850497	0.028		0.010	4850497	N/A
Total Calcium (Ca)	ug/L	5800		100	4850497	1700		100	4850497	N/A
Total Chromium (Cr)	ug/L	1.5		1.0	4850497	<1.0		1.0	4850497	N/A
Total Cobalt (Co)	ug/L	1.1		0.40	4850497	0.60		0.40	4850497	N/A
Total Copper (Cu)	ug/L	7.0		2.0	4850497	<2.0		2.0	4850497	N/A
Total Iron (Fe)	ug/L	1300		50	4850497	320		50	4850497	N/A
Total Lead (Pb)	ug/L	1.3		0.50	4850497	<0.50		0.50	4850497	N/A
Total Magnesium (Mg)	ug/L	1600		100	4850497	1300		100	4850497	N/A
Total Manganese (Mn)	ug/L	98		2.0	4850497	31		2.0	4850497	N/A
Total Molybdenum (Mo)	ug/L	<2.0		2.0	4850497	<2.0		2.0	4850497	N/A
Total Nickel (Ni)	ug/L	2.7		2.0	4850497	<2.0		2.0	4850497	N/A
Total Phosphorus (P)	ug/L	150		100	4850497	<100		100	4850497	N/A
Total Potassium (K)	ug/L	6300		100	4850497	730		100	4850497	N/A
Total Selenium (Se)	ug/L	<1.0		1.0	4850497	<1.0		1.0	4850497	N/A
Total Silver (Ag)	ug/L	<0.10		0.10	4850497	<0.10		0.10	4850497	N/A
Total Sodium (Na)	ug/L	7900		100	4850497	9500		100	4850497	N/A
Total Strontium (Sr)	ug/L	25		2.0	4850497	12		2.0	4850497	N/A
Total Thallium (Tl)	ug/L	<0.10		0.10	4850497	<0.10		0.10	4850497	N/A
Total Tin (Sn)	ug/L	<2.0		2.0	4850497	<2.0		2.0	4850497	N/A
Total Titanium (Ti)	ug/L	23		2.0	4850497	4.4		2.0	4850497	N/A
Total Uranium (U)	ug/L	0.10		0.10	4850497	<0.10		0.10	4850497	N/A
Total Vanadium (V)	ug/L	<2.0		2.0	4850497	<2.0		2.0	4850497	N/A
Total Zinc (Zn)	ug/L	7.4		5.0	4850497	6.0		5.0	4850497	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DVS426			DVS427	DVS427	DVS430			
Sampling Date		2017/01/30 11:35			2017/01/30 11:20	2017/01/30 11:20	2017/01/30 11:05			
COC Number		595824-02-01			595824-02-01	595824-02-01	595824-03-01			
	UNITS	P1A	RDL	QC Batch	P1B	P1B Lab-Dup	P2A	RDL	QC Batch	MDL

<b>Calculated Parameters</b>										
Anion Sum	me/L	0.900	N/A	4848790	0.610		1.21	N/A	4848790	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	19	1.0	4848786	<1.0		37	1.0	4848786	0.20
Calculated TDS	mg/L	61	1.0	4848794	43		75	1.0	4848794	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4848786	<1.0		<1.0	1.0	4848786	0.20
Cation Sum	me/L	0.980	N/A	4848790	0.700		1.38	N/A	4848790	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	17	1.0	4848788	9.4		30	1.0	4848788	1.0
Ion Balance (% Difference)	%	4.26	N/A	4848789	6.87		6.56	N/A	4848789	N/A
Langelier Index (@ 20C)	N/A	-3.17		4848792	NC		-1.98		4848792	
Langelier Index (@ 4C)	N/A	-3.42		4848793	NC		-2.24		4848793	
Nitrate (N)	mg/L	<0.050	0.050	4848791	0.050		<0.050	0.050	4848791	N/A
Saturation pH (@ 20C)	N/A	9.41		4848792	NC		8.85		4848792	
Saturation pH (@ 4C)	N/A	9.66		4848793	NC		9.10		4848793	
<b>Inorganics</b>										
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	19	5.0	4850399	<5.0		37	5.0	4850399	N/A
Dissolved Chloride (Cl)	mg/L	16	1.0	4850402	21		17	1.0	4850402	N/A
Colour	TCU	400	100	4850410	210		190	25	4850410	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4850416	0.050		<0.050	0.050	4850416	N/A
Nitrite (N)	mg/L	<0.010	0.010	4850417	<0.010		<0.010	0.010	4850417	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	0.18	0.050	4849192	0.46	0.47	<0.050	0.050	4849192	N/A
Total Organic Carbon (C)	mg/L	34 (1)	5.0	4854545	16 (1)		15 (1)	5.0	4854545	N/A
Orthophosphate (P)	mg/L	0.026	0.010	4850415	0.014		0.044	0.010	4850415	N/A
pH	pH	6.24	N/A	4850237	4.87		6.87	N/A	4850237	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	7.8	0.50	4850406	7.0		3.7	0.50	4850406	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	2.5	2.0	4850405	<2.0		<2.0	2.0	4850405	N/A
Turbidity	NTU	7.6	0.10	4850250	65		2.7	0.10	4850249	0.10
Conductivity	uS/cm	100	1.0	4850238	89		140	1.0	4850238	N/A
<b>Metals</b>										
Total Aluminum (Al)	ug/L	640	5.0	4850497	550		390	5.0	4850497	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4850497	<1.0		<1.0	1.0	4850497	N/A
Total Arsenic (As)	ug/L	2.2	1.0	4850497	<1.0		<1.0	1.0	4850497	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable

(1) Elevated reporting limit due to sample matrix.



Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DVS426			DVS427	DVS427	DVS430			
Sampling Date		2017/01/30 11:35			2017/01/30 11:20	2017/01/30 11:20	2017/01/30 11:05			
COC Number		595824-02-01			595824-02-01	595824-02-01	595824-03-01			
	UNITS	P1A	RDL	QC Batch	P1B	P1B Lab-Dup	P2A	RDL	QC Batch	MDL
Total Barium (Ba)	ug/L	8.2	1.0	4850497	5.7		5.1	1.0	4850497	N/A
Total Beryllium (Be)	ug/L	<1.0	1.0	4850497	<1.0		<1.0	1.0	4850497	N/A
Total Bismuth (Bi)	ug/L	<2.0	2.0	4850497	<2.0		<2.0	2.0	4850497	N/A
Total Boron (B)	ug/L	<50	50	4850497	<50		<50	50	4850497	N/A
Total Cadmium (Cd)	ug/L	0.040	0.010	4850497	0.049		0.041	0.010	4850497	N/A
Total Calcium (Ca)	ug/L	4300	100	4850497	1200		8100	100	4850497	N/A
Total Chromium (Cr)	ug/L	1.5	1.0	4850497	<1.0		<1.0	1.0	4850497	N/A
Total Cobalt (Co)	ug/L	1.1	0.40	4850497	1.0		0.75	0.40	4850497	N/A
Total Copper (Cu)	ug/L	2.0	2.0	4850497	<2.0		3.6	2.0	4850497	N/A
Total Iron (Fe)	ug/L	2300	50	4850497	840		1000	50	4850497	N/A
Total Lead (Pb)	ug/L	1.1	0.50	4850497	0.67		0.64	0.50	4850497	N/A
Total Magnesium (Mg)	ug/L	1600	100	4850497	1500		2400	100	4850497	N/A
Total Manganese (Mn)	ug/L	210	2.0	4850497	36		86	2.0	4850497	N/A
Total Molybdenum (Mo)	ug/L	<2.0	2.0	4850497	<2.0		2.4	2.0	4850497	N/A
Total Nickel (Ni)	ug/L	2.1	2.0	4850497	<2.0		<2.0	2.0	4850497	N/A
Total Phosphorus (P)	ug/L	<100	100	4850497	100		<100	100	4850497	N/A
Total Potassium (K)	ug/L	4800	100	4850497	1100		7700	100	4850497	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	4850497	<1.0		<1.0	1.0	4850497	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	4850497	<0.10		<0.10	0.10	4850497	N/A
Total Sodium (Na)	ug/L	9500	100	4850497	9300		13000	100	4850497	N/A
Total Strontium (Sr)	ug/L	21	2.0	4850497	12		33	2.0	4850497	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4850497	<0.10		<0.10	0.10	4850497	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	4850497	<2.0		<2.0	2.0	4850497	N/A
Total Titanium (Ti)	ug/L	7.7	2.0	4850497	3.1		7.9	2.0	4850497	N/A
Total Uranium (U)	ug/L	<0.10	0.10	4850497	<0.10		<0.10	0.10	4850497	N/A
Total Vanadium (V)	ug/L	<2.0	2.0	4850497	<2.0		<2.0	2.0	4850497	N/A
Total Zinc (Zn)	ug/L	22	5.0	4850497	<5.0		8.5	5.0	4850497	N/A

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch  
Lab-Dup = Laboratory Initiated Duplicate  
N/A = Not Applicable

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DVS431		DVS432			DVS433			
Sampling Date		2017/01/30 10:55		2017/01/30 10:45			2017/01/30 14:20			
COC Number		595824-03-01		595824-03-01			595824-03-01			
	UNITS	P2B	RDL	P3	RDL	QC Batch	BACK2	RDL	QC Batch	MDL
<b>Calculated Parameters</b>										
Anion Sum	me/L	0.460	N/A	0.550	N/A	4848790	0.520	N/A	4848790	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	7.7	1.0	7.4	1.0	4848786	<1.0	1.0	4848786	0.20
Calculated TDS	mg/L	32	1.0	45	1.0	4848794	37	1.0	4848794	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	<1.0	1.0	4848786	<1.0	1.0	4848786	0.20
Cation Sum	me/L	0.620	N/A	1.01	N/A	4848790	0.610	N/A	4848790	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	12	1.0	21	1.0	4848788	9.4	1.0	4848788	1.0
Ion Balance (% Difference)	%	14.8	N/A	29.5	N/A	4848789	7.96	N/A	4848789	N/A
Langelier Index (@ 20C)	N/A	-3.96		-3.85		4848792	NC		4848792	
Langelier Index (@ 4C)	N/A	-4.21		-4.10		4848793	NC		4848793	
Nitrate (N)	mg/L	<0.050	0.050	<0.050	0.050	4848791	0.084	0.050	4848791	N/A
Saturation pH (@ 20C)	N/A	9.98		9.68		4848792	NC		4848792	
Saturation pH (@ 4C)	N/A	10.2		9.93		4848793	NC		4848793	
<b>Inorganics</b>										
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	7.7	5.0	7.4	5.0	4850399	<5.0	5.0	4850399	N/A
Dissolved Chloride (Cl)	mg/L	11	1.0	14	1.0	4850402	18	1.0	4850402	N/A
Colour	TCU	160	25	220	25	4850410	90	25	4850410	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	<0.050	0.050	4850416	0.084	0.050	4850416	N/A
Nitrite (N)	mg/L	<0.010	0.010	<0.010	0.010	4850417	<0.010	0.010	4850417	N/A
Nitrogen (Ammonia Nitrogen)	mg/L	<0.050	0.050	0.39	0.050	4849192	<0.050	0.050	4849192	N/A
Total Organic Carbon (C)	mg/L	15	0.50	<250 (1)	250	4854545	7.4	0.50	4854545	N/A
Orthophosphate (P)	mg/L	0.022	0.010	0.022	0.010	4850415	0.011	0.010	4850415	N/A
pH	pH	6.02	N/A	5.84	N/A	4850237	5.49	N/A	4850241	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	2.2	0.50	3.5	0.50	4850406	6.0	0.50	4850406	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	<2.0	2.0	<2.0	2.0	4850405	<2.0	2.0	4850405	N/A
Turbidity	NTU	3.6	0.10	550	1.0	4850249	1.2	0.10	4850250	0.10
Conductivity	uS/cm	59	1.0	79	1.0	4850238	78	1.0	4850242	N/A
<b>Metals</b>										
Total Aluminum (Al)	ug/L	380	5.0	1100	5.0	4850497	360	5.0	4850234	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	<1.0	1.0	4850497	<1.0	1.0	4850234	N/A
Total Arsenic (As)	ug/L	<1.0	1.0	1.1	1.0	4850497	<1.0	1.0	4850234	N/A
Total Barium (Ba)	ug/L	6.3	1.0	6.8	1.0	4850497	7.0	1.0	4850234	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Elevated reporting limit due to sample matrix.										

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		DVS431		DVS432			DVS433			
Sampling Date		2017/01/30 10:55		2017/01/30 10:45			2017/01/30 14:20			
COC Number		595824-03-01		595824-03-01			595824-03-01			
	UNITS	P2B	RDL	P3	RDL	QC Batch	BACK2	RDL	QC Batch	MDL
Total Beryllium (Be)	ug/L	<1.0	1.0	<1.0	1.0	4850497	<1.0	1.0	4850234	N/A
Total Bismuth (Bi)	ug/L	<2.0	2.0	<2.0	2.0	4850497	<2.0	2.0	4850234	N/A
Total Boron (B)	ug/L	<50	50	<50	50	4850497	<50	50	4850234	N/A
Total Cadmium (Cd)	ug/L	0.038	0.010	0.044	0.010	4850497	0.034	0.010	4850234	N/A
Total Calcium (Ca)	ug/L	2700	100	5700	100	4850497	1700	100	4850234	N/A
Total Chromium (Cr)	ug/L	1.2	1.0	1.4	1.0	4850497	<1.0	1.0	4850234	N/A
Total Cobalt (Co)	ug/L	0.66	0.40	0.53	0.40	4850497	0.60	0.40	4850234	N/A
Total Copper (Cu)	ug/L	4.6	2.0	3.2	2.0	4850497	<2.0	2.0	4850234	N/A
Total Iron (Fe)	ug/L	1200	50	930	50	4850497	380	50	4850234	N/A
Total Lead (Pb)	ug/L	0.68	0.50	3.7	0.50	4850497	0.61	0.50	4850234	N/A
Total Magnesium (Mg)	ug/L	1300	100	1700	100	4850497	1300	100	4850234	N/A
Total Manganese (Mn)	ug/L	140	2.0	33	2.0	4850497	32	2.0	4850234	N/A
Total Molybdenum (Mo)	ug/L	<2.0	2.0	<2.0	2.0	4850497	<2.0	2.0	4850234	N/A
Total Nickel (Ni)	ug/L	<2.0	2.0	2.4	2.0	4850497	<2.0	2.0	4850234	N/A
Total Phosphorus (P)	ug/L	240	100	250	100	4850497	<100	100	4850234	N/A
Total Potassium (K)	ug/L	2400	100	3900	100	4850497	730	100	4850234	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	<1.0	1.0	4850497	<1.0	1.0	4850234	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	<0.10	0.10	4850497	<0.10	0.10	4850234	N/A
Total Sodium (Na)	ug/L	6300	100	9900	100	4850497	9200	100	4850234	N/A
Total Strontium (Sr)	ug/L	15	2.0	23	2.0	4850497	12	2.0	4850234	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	<0.10	0.10	4850497	<0.10	0.10	4850234	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	2.3	2.0	4850497	<2.0	2.0	4850234	N/A
Total Titanium (Ti)	ug/L	9.5	2.0	17	2.0	4850497	5.5	2.0	4850234	N/A
Total Uranium (U)	ug/L	<0.10	0.10	0.10	0.10	4850497	<0.10	0.10	4850234	N/A
Total Vanadium (V)	ug/L	<2.0	2.0	<2.0	2.0	4850497	<2.0	2.0	4850234	N/A
Total Zinc (Zn)	ug/L	12	5.0	11	5.0	4850497	6.4	5.0	4850234	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable										

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### RESULTS OF ANALYSES OF WATER

<b>Maxxam ID</b>		DVS397	DVS398		DVS399		DVS421	DVS425			
<b>Sampling Date</b>		2017/01/31 13:00	2017/01/30 09:25		2017/01/30 11:50		2017/01/31 13:15	2017/01/30 14:00			
<b>COC Number</b>		595824-01-01	595824-01-01		595824-01-01		595824-02-01	595824-02-01			
	<b>UNITS</b>	<b>SW1</b>	<b>SW2</b>	<b>RDL</b>	<b>SW3</b>	<b>RDL</b>	<b>SW14</b>	<b>SW-DUP2</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

<b>Inorganics</b>											
Total Suspended Solids	mg/L	3.8	3.2	1.0	13	2.0	<1.0	<1.0	1.0	4850267	N/A
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
N/A = Not Applicable											

<b>Maxxam ID</b>		DVS433			
<b>Sampling Date</b>		2017/01/30 14:20			
<b>COC Number</b>		595824-03-01			
	<b>UNITS</b>	<b>BACK2</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

<b>Inorganics</b>					
Total Suspended Solids	mg/L	2.2	1.0	4850467	N/A
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
N/A = Not Applicable					

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### MERCURY BY COLD VAPOUR AA (WATER)

<b>Maxxam ID</b>		DVS397	DVS398	DVS399	DVS400	DVS401	DVS402			
<b>Sampling Date</b>		2017/01/31 13:00	2017/01/30 09:25	2017/01/30 11:50	2017/01/31 13:30	2017/01/30 11:55	2017/01/31 13:37			
<b>COC Number</b>		595824-01-01	595824-01-01	595824-01-01	595824-01-01	595824-01-01	595824-01-01			
	<b>UNITS</b>	<b>SW1</b>	<b>SW2</b>	<b>SW3</b>	<b>SW4</b>	<b>SW5</b>	<b>SW6</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Metals

Total Mercury (Hg)	ug/L	0.028	0.018	0.023	0.018	0.017	0.015	0.013	4850869	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

<b>Maxxam ID</b>		DVS402	DVS403	DVS404	DVS405	DVS406	DVS419			
<b>Sampling Date</b>		2017/01/31 13:37	2017/01/30 09:10	2017/01/30 10:05	2017/01/30 10:10	2017/01/30 09:45	2017/01/30 10:25			
<b>COC Number</b>		595824-01-01	595824-01-01	595824-01-01	595824-01-01	595824-01-01	595824-02-01			
	<b>UNITS</b>	<b>SW6 Lab-Dup</b>	<b>SW7</b>	<b>SW8</b>	<b>SW9</b>	<b>SW10</b>	<b>SW11</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Metals

Total Mercury (Hg)	ug/L	0.015	0.015	0.015	0.020	0.018	0.032	0.013	4850869	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable

<b>Maxxam ID</b>		DVS420	DVS421	DVS422	DVS423	DVS424	DVS425			
<b>Sampling Date</b>		2017/01/30 08:50	2017/01/31 13:15	2017/01/31 13:45	2017/01/31 14:00	2017/01/30 14:00	2017/01/30 14:00			
<b>COC Number</b>		595824-02-01	595824-02-01	595824-02-01	595824-02-01	595824-02-01	595824-02-01			
	<b>UNITS</b>	<b>SW13</b>	<b>SW14</b>	<b>SW15</b>	<b>SW16</b>	<b>SW-DUP1</b>	<b>SW-DUP2</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Metals

Total Mercury (Hg)	ug/L	<0.013	0.017	<0.013	<0.013	0.023	<0.013	0.013	4850869	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### MERCURY BY COLD VAPOUR AA (WATER)

<b>Maxxam ID</b>		DVS426		DVS427	DVS430	DVS431	DVS432			
<b>Sampling Date</b>		2017/01/30 11:35		2017/01/30 11:20	2017/01/30 11:05	2017/01/30 10:55	2017/01/30 10:45			
<b>COC Number</b>		595824-02-01		595824-02-01	595824-03-01	595824-03-01	595824-03-01			
	<b>UNITS</b>	<b>P1A</b>	<b>QC Batch</b>	<b>P1B</b>	<b>P2A</b>	<b>P2B</b>	<b>P3</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

<b>Metals</b>										
Total Mercury (Hg)	ug/L	0.018	4850869	0.030	0.022	0.018	0.79	0.013	4853060	N/A
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
N/A = Not Applicable										

<b>Maxxam ID</b>		DVS433			
<b>Sampling Date</b>		2017/01/30 14:20			
<b>COC Number</b>		595824-03-01			
	<b>UNITS</b>	<b>BACK2</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

<b>Metals</b>					
Total Mercury (Hg)	ug/L	<0.013	0.013	4853060	N/A
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
N/A = Not Applicable					



Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### ELEMENTS BY ICP/MS (WATER)

Maxxam ID		DVS397	DVS398	DVS399	DVS421	DVS425			
Sampling Date		2017/01/31 13:00	2017/01/30 09:25	2017/01/30 11:50	2017/01/31 13:15	2017/01/30 14:00			
COC Number		595824-01-01	595824-01-01	595824-01-01	595824-02-01	595824-02-01			
	UNITS	SW1	SW2	SW3	SW14	SW-DUP2	RDL	QC Batch	MDL

Metals									
Dissolved Aluminum (Al)	ug/L	540	380	600	460	320	5.0	4850625	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4850625	N/A
Dissolved Arsenic (As)	ug/L	<1.0	<1.0	1.6	<1.0	<1.0	1.0	4850625	N/A
Dissolved Barium (Ba)	ug/L	2.0	2.4	7.6	3.9	6.8	1.0	4850625	N/A
Dissolved Beryllium (Be)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4850625	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4850625	N/A
Dissolved Boron (B)	ug/L	<50	<50	<50	<50	<50	50	4850625	N/A
Dissolved Cadmium (Cd)	ug/L	0.032	0.020	0.033	0.028	0.028	0.010	4850625	N/A
Dissolved Calcium (Ca)	ug/L	810	1300	6200	2100	1700	100	4850625	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	1.4	1.5	<1.0	1.0	4850625	N/A
Dissolved Cobalt (Co)	ug/L	<0.40	<0.40	0.75	<0.40	0.56	0.40	4850625	N/A
Dissolved Copper (Cu)	ug/L	<2.0	<2.0	3.1	<2.0	<2.0	2.0	4850625	N/A
Dissolved Iron (Fe)	ug/L	520	300	2000	520	280	50	4850625	N/A
Dissolved Lead (Pb)	ug/L	3.1	1.1	0.87	1.1	<0.50	0.50	4850625	N/A
Dissolved Magnesium (Mg)	ug/L	460	980	2000	1100	1300	100	4850625	N/A
Dissolved Manganese (Mn)	ug/L	10	14	110	12	30	2.0	4850625	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4850625	N/A
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	2.8	<2.0	<2.0	2.0	4850625	N/A
Dissolved Phosphorus (P)	ug/L	<100	<100	<100	<100	<100	100	4850625	N/A
Dissolved Potassium (K)	ug/L	3800	1800	6900	2700	710	100	4850625	N/A
Dissolved Selenium (Se)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4850625	N/A
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	4850625	N/A
Dissolved Sodium (Na)	ug/L	9500	7500	11000	16000	9000	100	4850625	N/A
Dissolved Strontium (Sr)	ug/L	5.7	8.5	28	14	11	2.0	4850625	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	4850625	N/A
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4850625	N/A
Dissolved Titanium (Ti)	ug/L	7.6	3.2	9.7	5.5	3.4	2.0	4850625	N/A
Dissolved Uranium (U)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	4850625	N/A
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4850625	N/A
Dissolved Zinc (Zn)	ug/L	5.9	6.9	35	7.1	8.6	5.0	4850625	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### ELEMENTS BY ICP/MS (WATER)

<b>Maxxam ID</b>		DVS433			
<b>Sampling Date</b>		2017/01/30 14:20			
<b>COC Number</b>		595824-03-01			
	<b>UNITS</b>	<b>BACK2</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Metals</b>					
Dissolved Aluminum (Al)	ug/L	320	5.0	4850625	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	4850625	N/A
Dissolved Arsenic (As)	ug/L	<1.0	1.0	4850625	N/A
Dissolved Barium (Ba)	ug/L	6.9	1.0	4850625	N/A
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	4850625	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	4850625	N/A
Dissolved Boron (B)	ug/L	<50	50	4850625	N/A
Dissolved Cadmium (Cd)	ug/L	0.021	0.010	4850625	N/A
Dissolved Calcium (Ca)	ug/L	1700	100	4850625	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	4850625	N/A
Dissolved Cobalt (Co)	ug/L	0.54	0.40	4850625	N/A
Dissolved Copper (Cu)	ug/L	<2.0	2.0	4850625	N/A
Dissolved Iron (Fe)	ug/L	290	50	4850625	N/A
Dissolved Lead (Pb)	ug/L	<0.50	0.50	4850625	N/A
Dissolved Magnesium (Mg)	ug/L	1300	100	4850625	N/A
Dissolved Manganese (Mn)	ug/L	31	2.0	4850625	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	4850625	N/A
Dissolved Nickel (Ni)	ug/L	<2.0	2.0	4850625	N/A
Dissolved Phosphorus (P)	ug/L	<100	100	4850625	N/A
Dissolved Potassium (K)	ug/L	710	100	4850625	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	4850625	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	4850625	N/A
Dissolved Sodium (Na)	ug/L	9000	100	4850625	N/A
Dissolved Strontium (Sr)	ug/L	12	2.0	4850625	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	4850625	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	4850625	N/A
Dissolved Titanium (Ti)	ug/L	3.5	2.0	4850625	N/A
Dissolved Uranium (U)	ug/L	<0.10	0.10	4850625	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	4850625	N/A
Dissolved Zinc (Zn)	ug/L	7.9	5.0	4850625	N/A
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
N/A = Not Applicable					

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVS397  
**Sample ID:** SW1  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850350	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850359	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850388	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850238	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4848531	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850869	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4850625	N/A	2017/02/04	Bryon Angevine
Metals Water Total MS	CICP/MS	4850280	2017/02/03	2017/02/03	Mike Leblanc
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849179	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850394	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850395	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4850237	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850390	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850377	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850366	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4854231	N/A	2017/02/07	Steven Smith
Total Suspended Solids	BAL	4850267	2017/02/03	2017/02/08	Leslie Power
Turbidity	TURB	4850250	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVS398  
**Sample ID:** SW2  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/06	Automated Statchk
Alkalinity	KONE	4850350	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850359	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850388	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4852495	N/A	2017/02/06	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4848531	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850869	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4850625	N/A	2017/02/04	Bryon Angevine
Metals Water Total MS	CICP/MS	4850280	2017/02/03	2017/02/03	Mike Leblanc
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849179	N/A	2017/02/06	Mary Clancey

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVS398  
**Sample ID:** SW2  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrate + Nitrite	KONE	4850394	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850395	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4852494	N/A	2017/02/06	Julia McGovern
Phosphorus - ortho	KONE	4850390	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850377	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850366	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4854231	N/A	2017/02/07	Steven Smith
Total Suspended Solids	BAL	4850267	2017/02/03	2017/02/08	Leslie Power
Turbidity	TURB	4850252	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVS399  
**Sample ID:** SW3  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850350	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850359	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850388	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850238	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO3)		4848531	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850869	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4850625	N/A	2017/02/04	Bryon Angevine
Metals Water Total MS	CICP/MS	4850280	2017/02/03	2017/02/06	Mike Leblanc
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849179	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850394	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850395	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4850237	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850390	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850377	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850366	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4854231	N/A	2017/02/07	Steven Smith
Total Suspended Solids	BAL	4850267	2017/02/03	2017/02/08	Leslie Power

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVS399  
**Sample ID:** SW3  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Turbidity	TURB	4850250	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVS400  
**Sample ID:** SW4  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850350	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850359	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850388	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850242	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4848531	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850869	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Total MS	CICP/MS	4850280	2017/02/03	2017/02/03	Mike Leblanc
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849179	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850394	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850395	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4850241	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850390	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850377	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850366	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4854231	N/A	2017/02/07	Steven Smith
Turbidity	TURB	4850250	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVS401  
**Sample ID:** SW5  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850399	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850402	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850410	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850238	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4848531	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850869	2017/02/03	2017/02/06	Arlene Rossiter

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVS401  
**Sample ID:** SW5  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Water Total MS	CICP/MS	4850280	2017/02/03	2017/02/03	Mike Leblanc
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849179	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850416	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850417	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4850237	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850415	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850406	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850405	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4854231	N/A	2017/02/07	Steven Smith
Turbidity	TURB	4850250	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVS402  
**Sample ID:** SW6  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850350	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850359	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850388	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850238	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO3)		4848531	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850869	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Total MS	CICP/MS	4850280	2017/02/03	2017/02/03	Mike Leblanc
Ion Balance (% Difference)	CALC	4848532	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848533	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849179	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850394	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850395	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848534	N/A	2017/02/07	Automated Statchk
pH	AT	4850237	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850390	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850377	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850366	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848538	N/A	2017/02/07	Automated Statchk



Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVS402  
**Sample ID:** SW6  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Organic carbon - Total (TOC)	TECH	4854231	N/A	2017/02/07	Steven Smith
Turbidity	TURB	4850250	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVS402 Dup  
**Sample ID:** SW6  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury - Total (CVAA,LL)	CV/AA	4850869	2017/02/03	2017/02/06	Arlene Rossiter

**Maxxam ID:** DVS403  
**Sample ID:** SW7  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850350	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850359	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850388	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850238	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO3)		4848788	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850869	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Total MS	CICP/MS	4850280	2017/02/03	2017/02/03	Mike Leblanc
Ion Balance (% Difference)	CALC	4848789	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848790	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849179	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850394	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850395	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848791	N/A	2017/02/07	Automated Statchk
pH	AT	4850237	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850390	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850377	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850366	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848794	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4854231	N/A	2017/02/07	Steven Smith
Turbidity	TURB	4850249	N/A	2017/02/03	Julia McGovern

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVS404  
**Sample ID:** SW8  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848529	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850350	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850359	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850388	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850238	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4848788	N/A	2017/02/07	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850869	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Total MS	CICP/MS	4850497	2017/02/03	2017/02/06	Bryon Angevine
Ion Balance (% Difference)	CALC	4848789	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848790	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849179	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850394	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850395	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848791	N/A	2017/02/07	Automated Statchk
pH	AT	4850237	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850390	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848536	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848537	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850377	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850366	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848794	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4854231	N/A	2017/02/07	Steven Smith
Turbidity	TURB	4850250	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVS405  
**Sample ID:** SW9  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848786	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850350	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850359	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850388	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850242	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4848788	N/A	2017/02/07	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850869	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Total MS	CICP/MS	4850497	2017/02/03	2017/02/06	Bryon Angevine
Ion Balance (% Difference)	CALC	4848789	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848790	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849179	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850394	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850395	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848791	N/A	2017/02/07	Automated Statchk

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVS405  
**Sample ID:** SW9  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	4850241	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850390	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848792	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848793	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850377	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850366	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848794	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4854231	N/A	2017/02/07	Steven Smith
Turbidity	TURB	4850250	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVS405 Dup  
**Sample ID:** SW9  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen Ammonia - water	KONE	4849179	N/A	2017/02/06	Mary Clancey

**Maxxam ID:** DVS406  
**Sample ID:** SW10  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848786	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850350	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850359	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850388	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850238	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO3)		4848788	N/A	2017/02/07	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850869	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Total MS	CICP/MS	4850497	2017/02/03	2017/02/06	Bryon Angevine
Ion Balance (% Difference)	CALC	4848789	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848790	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849179	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850394	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850395	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848791	N/A	2017/02/07	Automated Statchk
pH	AT	4850237	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850390	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848792	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848793	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850377	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850366	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848794	N/A	2017/02/07	Automated Statchk

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVS406  
**Sample ID:** SW10  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Organic carbon - Total (TOC)	TECH	4854231	N/A	2017/02/07	Steven Smith
Turbidity	TURB	4850250	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVS419  
**Sample ID:** SW11  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848786	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850350	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850359	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850388	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850238	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4848788	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850869	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Total MS	CICP/MS	4850234	2017/02/03	2017/02/03	Bryon Angevine
Ion Balance (% Difference)	CALC	4848789	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848790	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849192	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850394	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850395	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848791	N/A	2017/02/07	Automated Statchk
pH	AT	4850237	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850390	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848792	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848793	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850377	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850366	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848794	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4854231	N/A	2017/02/07	Steven Smith
Turbidity	TURB	4850250	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVS420  
**Sample ID:** SW13  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848786	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850399	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850402	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850410	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850242	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4848788	N/A	2017/02/06	Automated Statchk

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVS420  
**Sample ID:** SW13  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury - Total (CVAA,LL)	CV/AA	4850869	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Total MS	CICP/MS	4850234	2017/02/03	2017/02/03	Bryon Angevine
Ion Balance (% Difference)	CALC	4848789	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848790	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849192	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850416	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850417	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848791	N/A	2017/02/07	Automated Statchk
pH	AT	4850241	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850415	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848792	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848793	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850406	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850405	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848794	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4854231	N/A	2017/02/07	Steven Smith
Turbidity	TURB	4850250	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVS420 Dup  
**Sample ID:** SW13  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Water Total MS	CICP/MS	4850234	2017/02/03	2017/02/03	Bryon Angevine

**Maxxam ID:** DVS421  
**Sample ID:** SW14  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848786	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850399	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850402	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850410	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850242	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO3)		4848788	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850869	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4850625	N/A	2017/02/04	Bryon Angevine
Metals Water Total MS	CICP/MS	4850497	2017/02/03	2017/02/06	Bryon Angevine
Ion Balance (% Difference)	CALC	4848789	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848790	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849192	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850416	N/A	2017/02/03	Nancy Rogers

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVS421  
**Sample ID:** SW14  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrite	KONE	4850417	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848791	N/A	2017/02/07	Automated Statchk
pH	AT	4850241	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850415	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848792	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848793	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850406	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850405	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848794	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4854231	N/A	2017/02/07	Steven Smith
Total Suspended Solids	BAL	4850267	2017/02/03	2017/02/08	Leslie Power
Turbidity	TURB	4850252	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVS422  
**Sample ID:** SW15  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848786	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850399	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850402	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850410	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850238	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO3)		4848788	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850869	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Total MS	CICP/MS	4850234	2017/02/03	2017/02/03	Bryon Angevine
Ion Balance (% Difference)	CALC	4848789	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848790	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849192	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850416	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850417	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848791	N/A	2017/02/07	Automated Statchk
pH	AT	4850237	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850415	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848792	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848793	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850406	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850405	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848794	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4854231	N/A	2017/02/07	Steven Smith
Turbidity	TURB	4850250	N/A	2017/02/03	Julia McGovern



Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVS423  
**Sample ID:** SW16  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848786	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850399	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850402	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850410	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850238	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4848788	N/A	2017/02/07	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850869	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Total MS	CICP/MS	4850497	2017/02/03	2017/02/06	Bryon Angevine
Ion Balance (% Difference)	CALC	4848789	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848790	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849192	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850416	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850417	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848791	N/A	2017/02/07	Automated Statchk
pH	AT	4850237	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850415	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848792	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848793	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850406	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850405	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848794	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4854231	N/A	2017/02/07	Steven Smith
Turbidity	TURB	4850249	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVS423 Dup  
**Sample ID:** SW16  
**Matrix:** Water

**Collected:** 2017/01/31  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductance - water	AT	4850238	N/A	2017/02/03	Julia McGovern
pH	AT	4850237	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVS424  
**Sample ID:** SW-DUP1  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848786	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850399	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850402	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850410	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850238	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4848788	N/A	2017/02/07	Automated Statchk

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVS424  
**Sample ID:** SW-DUP1  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury - Total (CVAA,LL)	CV/AA	4850869	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Total MS	CICP/MS	4850497	2017/02/03	2017/02/06	Bryon Angevine
Ion Balance (% Difference)	CALC	4848789	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848790	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849192	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850416	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850417	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848791	N/A	2017/02/07	Automated Statchk
pH	AT	4850237	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850415	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848792	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848793	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850406	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850405	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848794	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4854545	N/A	2017/02/07	Steven Smith
Turbidity	TURB	4850249	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVS424 Dup  
**Sample ID:** SW-DUP1  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Organic carbon - Total (TOC)	TECH	4854545	N/A	2017/02/07	Steven Smith

**Maxxam ID:** DVS425  
**Sample ID:** SW-DUP2  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848786	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850399	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850402	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850410	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850242	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO3)		4848788	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850869	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4850625	N/A	2017/02/04	Bryon Angevine
Metals Water Total MS	CICP/MS	4850497	2017/02/03	2017/02/06	Bryon Angevine
Ion Balance (% Difference)	CALC	4848789	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848790	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849192	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850416	N/A	2017/02/03	Nancy Rogers

Maxxam Job #: B721953  
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Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVS425  
**Sample ID:** SW-DUP2  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrite	KONE	4850417	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848791	N/A	2017/02/07	Automated Statchk
pH	AT	4850241	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850415	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848792	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848793	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850406	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850405	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848794	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4854545	N/A	2017/02/07	Steven Smith
Total Suspended Solids	BAL	4850267	2017/02/03	2017/02/08	Leslie Power
Turbidity	TURB	4850250	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVS425 Dup  
**Sample ID:** SW-DUP2  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	KONE	4850399	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850402	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850410	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850416	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850417	N/A	2017/02/03	Nancy Rogers
Phosphorus - ortho	KONE	4850415	N/A	2017/02/06	Nancy Rogers
Reactive Silica	KONE	4850406	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850405	N/A	2017/02/06	Mary Clancey

**Maxxam ID:** DVS426  
**Sample ID:** P1A  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848786	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850399	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850402	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850410	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850238	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO3)		4848788	N/A	2017/02/07	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4850869	2017/02/03	2017/02/06	Arlene Rossiter
Metals Water Total MS	CICP/MS	4850497	2017/02/03	2017/02/06	Bryon Angevine
Ion Balance (% Difference)	CALC	4848789	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848790	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849192	N/A	2017/02/06	Mary Clancey

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVS426  
**Sample ID:** P1A  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrate + Nitrite	KONE	4850416	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850417	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848791	N/A	2017/02/07	Automated Statchk
pH	AT	4850237	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850415	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848792	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848793	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850406	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850405	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848794	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4854545	N/A	2017/02/07	Steven Smith
Turbidity	TURB	4850250	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVS427  
**Sample ID:** P1B  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848786	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850399	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850402	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850410	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850238	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO3)		4848788	N/A	2017/02/07	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4853060	2017/02/06	2017/02/07	Arlene Rossiter
Metals Water Total MS	CICP/MS	4850497	2017/02/03	2017/02/06	Bryon Angevine
Ion Balance (% Difference)	CALC	4848789	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848790	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849192	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850416	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850417	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848791	N/A	2017/02/07	Automated Statchk
pH	AT	4850237	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850415	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848792	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848793	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850406	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850405	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848794	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4854545	N/A	2017/02/07	Steven Smith
Turbidity	TURB	4850249	N/A	2017/02/03	Julia McGovern

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVS427 Dup  
**Sample ID:** P1B  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen Ammonia - water	KONE	4849192	N/A	2017/02/06	Mary Clancey

**Maxxam ID:** DVS430  
**Sample ID:** P2A  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848786	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850399	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850402	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850410	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850238	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4848788	N/A	2017/02/07	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4853060	2017/02/06	2017/02/07	Arlene Rossiter
Metals Water Total MS	CICP/MS	4850497	2017/02/03	2017/02/06	Bryon Angevine
Ion Balance (% Difference)	CALC	4848789	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848790	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849192	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850416	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850417	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848791	N/A	2017/02/07	Automated Statchk
pH	AT	4850237	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850415	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848792	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848793	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850406	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850405	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848794	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4854545	N/A	2017/02/07	Steven Smith
Turbidity	TURB	4850249	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVS431  
**Sample ID:** P2B  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848786	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850399	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850402	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850410	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850238	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4848788	N/A	2017/02/07	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4853060	2017/02/06	2017/02/07	Arlene Rossiter

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVS431  
**Sample ID:** P2B  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Water Total MS	CICP/MS	4850497	2017/02/03	2017/02/06	Bryon Angevine
Ion Balance (% Difference)	CALC	4848789	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848790	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849192	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850416	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850417	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848791	N/A	2017/02/07	Automated Statchk
pH	AT	4850237	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850415	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848792	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848793	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850406	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850405	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848794	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4854545	N/A	2017/02/07	Steven Smith
Turbidity	TURB	4850249	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVS432  
**Sample ID:** P3  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848786	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850399	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850402	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850410	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850238	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO3)		4848788	N/A	2017/02/07	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4853060	2017/02/06	2017/02/07	Arlene Rossiter
Metals Water Total MS	CICP/MS	4850497	2017/02/03	2017/02/06	Bryon Angevine
Ion Balance (% Difference)	CALC	4848789	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848790	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849192	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850416	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850417	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848791	N/A	2017/02/07	Automated Statchk
pH	AT	4850237	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850415	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848792	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848793	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850406	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850405	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848794	N/A	2017/02/07	Automated Statchk



Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

## TEST SUMMARY

**Maxxam ID:** DVS432  
**Sample ID:** P3  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Organic carbon - Total (TOC)	TECH	4854545	N/A	2017/02/07	Steven Smith
Turbidity	TURB	4850249	N/A	2017/02/03	Julia McGovern

**Maxxam ID:** DVS433  
**Sample ID:** BACK2  
**Matrix:** Water

**Collected:** 2017/01/30  
**Shipped:**  
**Received:** 2017/02/01

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4848786	N/A	2017/02/03	Automated Statchk
Alkalinity	KONE	4850399	N/A	2017/02/06	Nancy Rogers
Chloride	KONE	4850402	N/A	2017/02/06	Mary Clancey
Colour	KONE	4850410	N/A	2017/02/06	Mary Clancey
Conductance - water	AT	4850242	N/A	2017/02/03	Julia McGovern
Hardness (calculated as CaCO3)		4848788	N/A	2017/02/06	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4853060	2017/02/06	2017/02/07	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4850625	N/A	2017/02/04	Bryon Angevine
Metals Water Total MS	CICP/MS	4850234	2017/02/03	2017/02/03	Bryon Angevine
Ion Balance (% Difference)	CALC	4848789	N/A	2017/02/07	Automated Statchk
Anion and Cation Sum	CALC	4848790	N/A	2017/02/07	Automated Statchk
Nitrogen Ammonia - water	KONE	4849192	N/A	2017/02/06	Mary Clancey
Nitrogen - Nitrate + Nitrite	KONE	4850416	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrite	KONE	4850417	N/A	2017/02/03	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4848791	N/A	2017/02/07	Automated Statchk
pH	AT	4850241	N/A	2017/02/03	Julia McGovern
Phosphorus - ortho	KONE	4850415	N/A	2017/02/06	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4848792	N/A	2017/02/07	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4848793	N/A	2017/02/07	Automated Statchk
Reactive Silica	KONE	4850406	N/A	2017/02/06	Nancy Rogers
Sulphate	KONE	4850405	N/A	2017/02/06	Mary Clancey
Total Dissolved Solids (TDS calc)	CALC	4848794	N/A	2017/02/07	Automated Statchk
Organic carbon - Total (TOC)	TECH	4854545	N/A	2017/02/07	Steven Smith
Total Suspended Solids	BAL	4850467	2017/02/03	2017/02/07	Leslie Power
Turbidity	TURB	4850250	N/A	2017/02/03	Julia McGovern

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	2.0°C
Package 2	3.0°C
Package 3	3.3°C
Package 4	5.3°C

Sample DVS397 [SW1] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample DVS398 [SW2] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample DVS399 [SW3] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample DVS400 [SW4] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample DVS401 [SW5] : Poor RCap Ion Balance due to sample matrix.

Sample DVS402 [SW6] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample DVS403 [SW7] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample DVS404 [SW8] : Poor RCap Ion Balance due to sample matrix.

Sample DVS405 [SW9] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample DVS406 [SW10] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample DVS419 [SW11] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample DVS420 [SW13] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample DVS421 [SW14] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample DVS423 [SW16] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample DVS425 [SW-DUP2] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample DVS427 [P1B] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample DVS430 [P2A] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample DVS431 [P2B] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample DVS433 [BACK2] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

**Results relate only to the items tested.**

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4849179	MCN	Matrix Spike(DVS405)	Nitrogen (Ammonia Nitrogen)	2017/02/06		104	%	80 - 120
4849179	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2017/02/06		106	%	80 - 120
4849179	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2017/02/06	<0.050		mg/L	
4849179	MCN	RPD - Sample/Sample Dup	Nitrogen (Ammonia Nitrogen)	2017/02/06	NC		%	20
4849192	MCN	Matrix Spike(DVS427)	Nitrogen (Ammonia Nitrogen)	2017/02/06		104	%	80 - 120
4849192	MCN	Spiked Blank	Nitrogen (Ammonia Nitrogen)	2017/02/06		106	%	80 - 120
4849192	MCN	Method Blank	Nitrogen (Ammonia Nitrogen)	2017/02/06	<0.050		mg/L	
4849192	MCN	RPD - Sample/Sample Dup	Nitrogen (Ammonia Nitrogen)	2017/02/06	1.5		%	20
4850234	BAN	Matrix Spike(DVS422)	Total Aluminum (Al)	2017/02/03		94	%	80 - 120
			Total Antimony (Sb)	2017/02/03		98	%	80 - 120
			Total Arsenic (As)	2017/02/03		91	%	80 - 120
			Total Barium (Ba)	2017/02/03		88	%	80 - 120
			Total Beryllium (Be)	2017/02/03		89	%	80 - 120
			Total Bismuth (Bi)	2017/02/03		99	%	80 - 120
			Total Boron (B)	2017/02/03		96	%	80 - 120
			Total Cadmium (Cd)	2017/02/03		93	%	80 - 120
			Total Calcium (Ca)	2017/02/03		98	%	80 - 120
			Total Chromium (Cr)	2017/02/03		90	%	80 - 120
			Total Cobalt (Co)	2017/02/03		92	%	80 - 120
			Total Copper (Cu)	2017/02/03		93	%	80 - 120
			Total Iron (Fe)	2017/02/03		95	%	80 - 120
			Total Lead (Pb)	2017/02/03		90	%	80 - 120
			Total Magnesium (Mg)	2017/02/03		98	%	80 - 120
			Total Manganese (Mn)	2017/02/03		91	%	80 - 120
			Total Molybdenum (Mo)	2017/02/03		102	%	80 - 120
			Total Nickel (Ni)	2017/02/03		92	%	80 - 120
			Total Phosphorus (P)	2017/02/03		99	%	80 - 120
			Total Potassium (K)	2017/02/03		103	%	80 - 120
			Total Selenium (Se)	2017/02/03		95	%	80 - 120
			Total Silver (Ag)	2017/02/03		93	%	80 - 120
			Total Sodium (Na)	2017/02/03		NC	%	80 - 120
			Total Strontium (Sr)	2017/02/03		90	%	80 - 120
			Total Thallium (Tl)	2017/02/03		99	%	80 - 120
			Total Tin (Sn)	2017/02/03		98	%	80 - 120
			Total Titanium (Ti)	2017/02/03		92	%	80 - 120
			Total Uranium (U)	2017/02/03		100	%	80 - 120
			Total Vanadium (V)	2017/02/03		90	%	80 - 120
			Total Zinc (Zn)	2017/02/03		98	%	80 - 120
4850234	BAN	Spiked Blank	Total Aluminum (Al)	2017/02/03		104	%	80 - 120
			Total Antimony (Sb)	2017/02/03		98	%	80 - 120
			Total Arsenic (As)	2017/02/03		97	%	80 - 120
			Total Barium (Ba)	2017/02/03		93	%	80 - 120
			Total Beryllium (Be)	2017/02/03		92	%	80 - 120
			Total Bismuth (Bi)	2017/02/03		100	%	80 - 120
			Total Boron (B)	2017/02/03		94	%	80 - 120
			Total Cadmium (Cd)	2017/02/03		99	%	80 - 120
			Total Calcium (Ca)	2017/02/03		99	%	80 - 120
			Total Chromium (Cr)	2017/02/03		98	%	80 - 120
			Total Cobalt (Co)	2017/02/03		98	%	80 - 120
			Total Copper (Cu)	2017/02/03		98	%	80 - 120
			Total Iron (Fe)	2017/02/03		100	%	80 - 120

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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Total Lead (Pb)	2017/02/03		96	%	80 - 120
			Total Magnesium (Mg)	2017/02/03		102	%	80 - 120
			Total Manganese (Mn)	2017/02/03		100	%	80 - 120
			Total Molybdenum (Mo)	2017/02/03		99	%	80 - 120
			Total Nickel (Ni)	2017/02/03		102	%	80 - 120
			Total Phosphorus (P)	2017/02/03		102	%	80 - 120
			Total Potassium (K)	2017/02/03		104	%	80 - 120
			Total Selenium (Se)	2017/02/03		99	%	80 - 120
			Total Silver (Ag)	2017/02/03		99	%	80 - 120
			Total Sodium (Na)	2017/02/03		99	%	80 - 120
			Total Strontium (Sr)	2017/02/03		99	%	80 - 120
			Total Thallium (Tl)	2017/02/03		99	%	80 - 120
			Total Tin (Sn)	2017/02/03		99	%	80 - 120
			Total Titanium (Ti)	2017/02/03		98	%	80 - 120
			Total Uranium (U)	2017/02/03		106	%	80 - 120
			Total Vanadium (V)	2017/02/03		96	%	80 - 120
			Total Zinc (Zn)	2017/02/03		100	%	80 - 120
4850234	BAN	Method Blank	Total Aluminum (Al)	2017/02/03	5.2, RDL=5.0		ug/L	
			Total Antimony (Sb)	2017/02/03	<1.0		ug/L	
			Total Arsenic (As)	2017/02/03	<1.0		ug/L	
			Total Barium (Ba)	2017/02/03	<1.0		ug/L	
			Total Beryllium (Be)	2017/02/03	<1.0		ug/L	
			Total Bismuth (Bi)	2017/02/03	<2.0		ug/L	
			Total Boron (B)	2017/02/03	<50		ug/L	
			Total Cadmium (Cd)	2017/02/03	<0.010		ug/L	
			Total Calcium (Ca)	2017/02/03	<100		ug/L	
			Total Chromium (Cr)	2017/02/03	<1.0		ug/L	
			Total Cobalt (Co)	2017/02/03	<0.40		ug/L	
			Total Copper (Cu)	2017/02/03	<2.0		ug/L	
			Total Iron (Fe)	2017/02/03	<50		ug/L	
			Total Lead (Pb)	2017/02/03	<0.50		ug/L	
			Total Magnesium (Mg)	2017/02/03	<100		ug/L	
			Total Manganese (Mn)	2017/02/03	<2.0		ug/L	
			Total Molybdenum (Mo)	2017/02/03	<2.0		ug/L	
			Total Nickel (Ni)	2017/02/03	<2.0		ug/L	
			Total Phosphorus (P)	2017/02/03	<100		ug/L	
			Total Potassium (K)	2017/02/03	<100		ug/L	
			Total Selenium (Se)	2017/02/03	<1.0		ug/L	
			Total Silver (Ag)	2017/02/03	<0.10		ug/L	
			Total Sodium (Na)	2017/02/03	<100		ug/L	
			Total Strontium (Sr)	2017/02/03	<2.0		ug/L	
			Total Thallium (Tl)	2017/02/03	<0.10		ug/L	
			Total Tin (Sn)	2017/02/03	<2.0		ug/L	
			Total Titanium (Ti)	2017/02/03	<2.0		ug/L	
			Total Uranium (U)	2017/02/03	<0.10		ug/L	
			Total Vanadium (V)	2017/02/03	<2.0		ug/L	
			Total Zinc (Zn)	2017/02/03	<5.0		ug/L	
4850234	BAN	RPD - Sample/Sample Dup	Total Aluminum (Al)	2017/02/03	8.6		%	20
			Total Antimony (Sb)	2017/02/03	NC		%	20
			Total Arsenic (As)	2017/02/03	NC		%	20

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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Total Barium (Ba)	2017/02/03	NC		%	20
			Total Beryllium (Be)	2017/02/03	NC		%	20
			Total Bismuth (Bi)	2017/02/03	NC		%	20
			Total Boron (B)	2017/02/03	NC		%	20
			Total Cadmium (Cd)	2017/02/03	NC		%	20
			Total Calcium (Ca)	2017/02/03	1.8		%	20
			Total Chromium (Cr)	2017/02/03	NC		%	20
			Total Cobalt (Co)	2017/02/03	NC		%	20
			Total Copper (Cu)	2017/02/03	NC		%	20
			Total Iron (Fe)	2017/02/03	NC		%	20
			Total Lead (Pb)	2017/02/03	NC		%	20
			Total Magnesium (Mg)	2017/02/03	1.4		%	20
			Total Manganese (Mn)	2017/02/03	NC		%	20
			Total Molybdenum (Mo)	2017/02/03	NC		%	20
			Total Nickel (Ni)	2017/02/03	NC		%	20
			Total Phosphorus (P)	2017/02/03	NC		%	20
			Total Potassium (K)	2017/02/03	NC		%	20
			Total Selenium (Se)	2017/02/03	NC		%	20
			Total Silver (Ag)	2017/02/03	NC		%	20
			Total Sodium (Na)	2017/02/03	4.3		%	20
			Total Strontium (Sr)	2017/02/03	NC		%	20
			Total Thallium (Tl)	2017/02/03	NC		%	20
			Total Tin (Sn)	2017/02/03	NC		%	20
			Total Titanium (Ti)	2017/02/03	NC		%	20
			Total Uranium (U)	2017/02/03	NC		%	20
			Total Vanadium (V)	2017/02/03	NC		%	20
			Total Zinc (Zn)	2017/02/03	NC		%	20
4850237	JMV	QC Standard	pH	2017/02/03		100	%	97 - 103
4850237	JMV	RPD - Sample/Sample Dup	pH	2017/02/03	0.021		%	N/A
4850238	JMV	Spiked Blank	Conductivity	2017/02/03		103	%	80 - 120
4850238	JMV	Method Blank	Conductivity	2017/02/03	1.2, RDL=1.0		uS/cm	
4850238	JMV	RPD - Sample/Sample Dup	Conductivity	2017/02/03	0.0022		%	25
4850241	JMV	QC Standard	pH	2017/02/03		100	%	97 - 103
4850241	JMV	RPD - Sample/Sample Dup	pH	2017/02/03	1.0		%	N/A
4850242	JMV	Spiked Blank	Conductivity	2017/02/03		104	%	80 - 120
4850242	JMV	Method Blank	Conductivity	2017/02/03	1.7, RDL=1.0		uS/cm	
4850242	JMV	RPD - Sample/Sample Dup	Conductivity	2017/02/03	NC		%	25
4850249	JMV	QC Standard	Turbidity	2017/02/03		97	%	80 - 120
4850249	JMV	Spiked Blank	Turbidity	2017/02/03		92	%	80 - 120
4850249	JMV	Method Blank	Turbidity	2017/02/03	<0.10		NTU	
4850249	JMV	RPD - Sample/Sample Dup	Turbidity	2017/02/03	NC		%	20
4850250	JMV	QC Standard	Turbidity	2017/02/03		97	%	80 - 120
4850250	JMV	Spiked Blank	Turbidity	2017/02/03		92	%	80 - 120
4850250	JMV	Method Blank	Turbidity	2017/02/03	<0.10		NTU	
4850250	JMV	RPD - Sample/Sample Dup	Turbidity	2017/02/03	NC		%	20
4850252	JMV	QC Standard	Turbidity	2017/02/03		97	%	80 - 120
4850252	JMV	Spiked Blank	Turbidity	2017/02/03		92	%	80 - 120
4850252	JMV	Method Blank	Turbidity	2017/02/03	<0.10		NTU	
4850252	JMV	RPD - Sample/Sample Dup	Turbidity	2017/02/03	NC		%	20

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4850267	LPW	QC Standard	Total Suspended Solids	2017/02/08		104	%	80 - 120
4850267	LPW	Method Blank	Total Suspended Solids	2017/02/08	<1.0		mg/L	
4850267	LPW	RPD - Sample/Sample Dup	Total Suspended Solids	2017/02/08	3.3		%	25
4850280	MLB	Matrix Spike	Total Aluminum (Al)	2017/02/03		99	%	80 - 120
			Total Antimony (Sb)	2017/02/03		98	%	80 - 120
			Total Arsenic (As)	2017/02/03		90	%	80 - 120
			Total Barium (Ba)	2017/02/03		89	%	80 - 120
			Total Beryllium (Be)	2017/02/03		86	%	80 - 120
			Total Bismuth (Bi)	2017/02/03		100	%	80 - 120
			Total Boron (B)	2017/02/03		92	%	80 - 120
			Total Cadmium (Cd)	2017/02/03		93	%	80 - 120
			Total Calcium (Ca)	2017/02/03		99	%	80 - 120
			Total Chromium (Cr)	2017/02/03		91	%	80 - 120
			Total Cobalt (Co)	2017/02/03		92	%	80 - 120
			Total Copper (Cu)	2017/02/03		92	%	80 - 120
			Total Iron (Fe)	2017/02/03		95	%	80 - 120
			Total Lead (Pb)	2017/02/03		90	%	80 - 120
			Total Magnesium (Mg)	2017/02/03		99	%	80 - 120
			Total Manganese (Mn)	2017/02/03		NC	%	80 - 120
			Total Molybdenum (Mo)	2017/02/03		99	%	80 - 120
			Total Nickel (Ni)	2017/02/03		93	%	80 - 120
			Total Phosphorus (P)	2017/02/03		99	%	80 - 120
			Total Potassium (K)	2017/02/03		102	%	80 - 120
			Total Selenium (Se)	2017/02/03		94	%	80 - 120
			Total Silver (Ag)	2017/02/03		92	%	80 - 120
			Total Sodium (Na)	2017/02/03		95	%	80 - 120
			Total Strontium (Sr)	2017/02/03		90	%	80 - 120
			Total Thallium (Tl)	2017/02/03		100	%	80 - 120
			Total Tin (Sn)	2017/02/03		100	%	80 - 120
			Total Titanium (Ti)	2017/02/03		92	%	80 - 120
			Total Uranium (U)	2017/02/03		99	%	80 - 120
			Total Vanadium (V)	2017/02/03		91	%	80 - 120
			Total Zinc (Zn)	2017/02/03		97	%	80 - 120
4850280	MLB	Spiked Blank	Total Aluminum (Al)	2017/02/03		102	%	80 - 120
			Total Antimony (Sb)	2017/02/03		101	%	80 - 120
			Total Arsenic (As)	2017/02/03		98	%	80 - 120
			Total Barium (Ba)	2017/02/03		95	%	80 - 120
			Total Beryllium (Be)	2017/02/03		93	%	80 - 120
			Total Bismuth (Bi)	2017/02/03		103	%	80 - 120
			Total Boron (B)	2017/02/03		95	%	80 - 120
			Total Cadmium (Cd)	2017/02/03		101	%	80 - 120
			Total Calcium (Ca)	2017/02/03		102	%	80 - 120
			Total Chromium (Cr)	2017/02/03		100	%	80 - 120
			Total Cobalt (Co)	2017/02/03		101	%	80 - 120
			Total Copper (Cu)	2017/02/03		100	%	80 - 120
			Total Iron (Fe)	2017/02/03		102	%	80 - 120
			Total Lead (Pb)	2017/02/03		98	%	80 - 120
			Total Magnesium (Mg)	2017/02/03		103	%	80 - 120
			Total Manganese (Mn)	2017/02/03		102	%	80 - 120
			Total Molybdenum (Mo)	2017/02/03		103	%	80 - 120
			Total Nickel (Ni)	2017/02/03		103	%	80 - 120



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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4850280	MLB	Method Blank	Total Phosphorus (P)	2017/02/03		102	%	80 - 120
			Total Potassium (K)	2017/02/03		106	%	80 - 120
			Total Selenium (Se)	2017/02/03		100	%	80 - 120
			Total Silver (Ag)	2017/02/03		99	%	80 - 120
			Total Sodium (Na)	2017/02/03		100	%	80 - 120
			Total Strontium (Sr)	2017/02/03		101	%	80 - 120
			Total Thallium (Tl)	2017/02/03		102	%	80 - 120
			Total Tin (Sn)	2017/02/03		104	%	80 - 120
			Total Titanium (Ti)	2017/02/03		101	%	80 - 120
			Total Uranium (U)	2017/02/03		109	%	80 - 120
			Total Vanadium (V)	2017/02/03		98	%	80 - 120
			Total Zinc (Zn)	2017/02/03		102	%	80 - 120
			Total Aluminum (Al)	2017/02/03	7.6, RDL=5.0		ug/L	
			Total Antimony (Sb)	2017/02/03	<1.0		ug/L	
			Total Arsenic (As)	2017/02/03	<1.0		ug/L	
			Total Barium (Ba)	2017/02/03	<1.0		ug/L	
			Total Beryllium (Be)	2017/02/03	<1.0		ug/L	
			Total Bismuth (Bi)	2017/02/03	<2.0		ug/L	
			Total Boron (B)	2017/02/03	<50		ug/L	
			Total Cadmium (Cd)	2017/02/03	<0.010		ug/L	
			Total Calcium (Ca)	2017/02/03	<100		ug/L	
			Total Chromium (Cr)	2017/02/03	<1.0		ug/L	
			Total Cobalt (Co)	2017/02/03	<0.40		ug/L	
			Total Copper (Cu)	2017/02/03	<2.0		ug/L	
			Total Iron (Fe)	2017/02/03	<50		ug/L	
			Total Lead (Pb)	2017/02/03	<0.50		ug/L	
			Total Magnesium (Mg)	2017/02/03	<100		ug/L	
			Total Manganese (Mn)	2017/02/03	<2.0		ug/L	
			Total Molybdenum (Mo)	2017/02/03	<2.0		ug/L	
			Total Nickel (Ni)	2017/02/03	<2.0		ug/L	
			Total Phosphorus (P)	2017/02/03	<100		ug/L	
			Total Potassium (K)	2017/02/03	<100		ug/L	
			Total Selenium (Se)	2017/02/03	<1.0		ug/L	
			Total Silver (Ag)	2017/02/03	<0.10		ug/L	
			Total Sodium (Na)	2017/02/03	<100		ug/L	
			Total Strontium (Sr)	2017/02/03	<2.0		ug/L	
			Total Thallium (Tl)	2017/02/03	<0.10		ug/L	
			Total Tin (Sn)	2017/02/03	<2.0		ug/L	
			Total Titanium (Ti)	2017/02/03	<2.0		ug/L	
			Total Uranium (U)	2017/02/03	<0.10		ug/L	
			Total Vanadium (V)	2017/02/03	<2.0		ug/L	
			Total Zinc (Zn)	2017/02/03	<5.0		ug/L	
4850280	MLB	RPD - Sample/Sample Dup	Total Aluminum (Al)	2017/02/06	NC		%	20
			Total Antimony (Sb)	2017/02/06	NC		%	20
			Total Arsenic (As)	2017/02/06	NC		%	20
			Total Barium (Ba)	2017/02/06	NC		%	20
			Total Beryllium (Be)	2017/02/06	NC		%	20
			Total Bismuth (Bi)	2017/02/06	NC		%	20
			Total Boron (B)	2017/02/06	NC		%	20
			Total Cadmium (Cd)	2017/02/06	NC		%	20

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QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
				Total Calcium (Ca)	2017/02/06	NC		%	20
				Total Chromium (Cr)	2017/02/06	NC		%	20
				Total Cobalt (Co)	2017/02/06	NC		%	20
				Total Copper (Cu)	2017/02/06	NC		%	20
				Total Iron (Fe)	2017/02/06	NC		%	20
				Total Lead (Pb)	2017/02/06	NC		%	20
				Total Magnesium (Mg)	2017/02/06	NC		%	20
				Total Manganese (Mn)	2017/02/06	NC		%	20
				Total Molybdenum (Mo)	2017/02/06	NC		%	20
				Total Nickel (Ni)	2017/02/06	NC		%	20
				Total Phosphorus (P)	2017/02/06	NC		%	20
				Total Potassium (K)	2017/02/06	NC		%	20
				Total Selenium (Se)	2017/02/06	NC		%	20
				Total Silver (Ag)	2017/02/06	NC		%	20
				Total Sodium (Na)	2017/02/06	NC		%	20
				Total Strontium (Sr)	2017/02/06	NC		%	20
				Total Thallium (Tl)	2017/02/06	NC		%	20
				Total Tin (Sn)	2017/02/06	NC		%	20
				Total Titanium (Ti)	2017/02/06	NC		%	20
				Total Uranium (U)	2017/02/06	NC		%	20
				Total Vanadium (V)	2017/02/06	NC		%	20
				Total Zinc (Zn)	2017/02/06	NC		%	20
4850350	NRG		Matrix Spike	Total Alkalinity (Total as CaCO3)	2017/02/06		NC	%	80 - 120
4850350	NRG		Spiked Blank	Total Alkalinity (Total as CaCO3)	2017/02/06		109	%	80 - 120
4850350	NRG		Method Blank	Total Alkalinity (Total as CaCO3)	2017/02/06	<5.0		mg/L	
4850350	NRG		RPD - Sample/Sample Dup	Total Alkalinity (Total as CaCO3)	2017/02/06	NC		%	25
4850359	MCN		Matrix Spike	Dissolved Chloride (Cl)	2017/02/06		NC	%	80 - 120
4850359	MCN		QC Standard	Dissolved Chloride (Cl)	2017/02/06		108	%	80 - 120
4850359	MCN		Spiked Blank	Dissolved Chloride (Cl)	2017/02/06		106	%	80 - 120
4850359	MCN		Method Blank	Dissolved Chloride (Cl)	2017/02/06	<1.0		mg/L	
4850359	MCN		RPD - Sample/Sample Dup	Dissolved Chloride (Cl)	2017/02/06	6.0		%	25
4850366	MCN		Matrix Spike	Dissolved Sulphate (SO4)	2017/02/06		110	%	80 - 120
4850366	MCN		Spiked Blank	Dissolved Sulphate (SO4)	2017/02/06		100	%	80 - 120
4850366	MCN		Method Blank	Dissolved Sulphate (SO4)	2017/02/06	<2.0		mg/L	
4850366	MCN		RPD - Sample/Sample Dup	Dissolved Sulphate (SO4)	2017/02/06	NC		%	25
4850377	NRG		Matrix Spike	Reactive Silica (SiO2)	2017/02/06		NC	%	80 - 120
4850377	NRG		Spiked Blank	Reactive Silica (SiO2)	2017/02/06		104	%	80 - 120
4850377	NRG		Method Blank	Reactive Silica (SiO2)	2017/02/06	<0.50		mg/L	
4850377	NRG		RPD - Sample/Sample Dup	Reactive Silica (SiO2)	2017/02/06	0.47		%	25
4850388	MCN		Spiked Blank	Colour	2017/02/06		99	%	80 - 120
4850388	MCN		Method Blank	Colour	2017/02/06	<5.0		TCU	
4850388	MCN		RPD - Sample/Sample Dup	Colour	2017/02/06	NC		%	20
4850390	NRG		Matrix Spike	Orthophosphate (P)	2017/02/06		91	%	80 - 120
4850390	NRG		Spiked Blank	Orthophosphate (P)	2017/02/06		96	%	80 - 120
4850390	NRG		Method Blank	Orthophosphate (P)	2017/02/06	<0.010		mg/L	
4850390	NRG		RPD - Sample/Sample Dup	Orthophosphate (P)	2017/02/06	NC		%	25
4850394	NRG		Matrix Spike	Nitrate + Nitrite (N)	2017/02/03		92	%	80 - 120
4850394	NRG		Spiked Blank	Nitrate + Nitrite (N)	2017/02/03		100	%	80 - 120
4850394	NRG		Method Blank	Nitrate + Nitrite (N)	2017/02/03	<0.050		mg/L	
4850394	NRG		RPD - Sample/Sample Dup	Nitrate + Nitrite (N)	2017/02/03	NC		%	25
4850395	NRG		Matrix Spike	Nitrite (N)	2017/02/03		84	%	80 - 120

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4850395	NRG	Spiked Blank	Nitrite (N)	2017/02/03		85	%	80 - 120
4850395	NRG	Method Blank	Nitrite (N)	2017/02/03	<0.010		mg/L	
4850395	NRG	RPD - Sample/Sample Dup	Nitrite (N)	2017/02/03	NC		%	25
4850399	NRG	Matrix Spike(DVS425)	Total Alkalinity (Total as CaCO3)	2017/02/06		103	%	80 - 120
4850399	NRG	Spiked Blank	Total Alkalinity (Total as CaCO3)	2017/02/06		108	%	80 - 120
4850399	NRG	Method Blank	Total Alkalinity (Total as CaCO3)	2017/02/06	<5.0		mg/L	
4850399	NRG	RPD - Sample/Sample Dup	Total Alkalinity (Total as CaCO3)	2017/02/06	NC		%	25
4850402	MCN	Matrix Spike(DVS425)	Dissolved Chloride (Cl)	2017/02/06		NC	%	80 - 120
4850402	MCN	QC Standard	Dissolved Chloride (Cl)	2017/02/06		109	%	80 - 120
4850402	MCN	Spiked Blank	Dissolved Chloride (Cl)	2017/02/06		105	%	80 - 120
4850402	MCN	Method Blank	Dissolved Chloride (Cl)	2017/02/06	<1.0		mg/L	
4850402	MCN	RPD - Sample/Sample Dup	Dissolved Chloride (Cl)	2017/02/06	0.67		%	25
4850405	MCN	Matrix Spike(DVS425)	Dissolved Sulphate (SO4)	2017/02/06		133 (1)	%	80 - 120
4850405	MCN	Spiked Blank	Dissolved Sulphate (SO4)	2017/02/06		100	%	80 - 120
4850405	MCN	Method Blank	Dissolved Sulphate (SO4)	2017/02/06	<2.0		mg/L	
4850405	MCN	RPD - Sample/Sample Dup	Dissolved Sulphate (SO4)	2017/02/06	NC		%	25
4850406	NRG	Matrix Spike(DVS425)	Reactive Silica (SiO2)	2017/02/06		NC	%	80 - 120
4850406	NRG	Spiked Blank	Reactive Silica (SiO2)	2017/02/06		101	%	80 - 120
4850406	NRG	Method Blank	Reactive Silica (SiO2)	2017/02/06	<0.50		mg/L	
4850406	NRG	RPD - Sample/Sample Dup	Reactive Silica (SiO2)	2017/02/06	0.32		%	25
4850410	MCN	Spiked Blank	Colour	2017/02/06		94	%	80 - 120
4850410	MCN	Method Blank	Colour	2017/02/06	<5.0		TCU	
4850410	MCN	RPD - Sample/Sample Dup	Colour	2017/02/06	NC		%	20
4850415	NRG	Matrix Spike(DVS425)	Orthophosphate (P)	2017/02/06		90	%	80 - 120
4850415	NRG	Spiked Blank	Orthophosphate (P)	2017/02/06		95	%	80 - 120
4850415	NRG	Method Blank	Orthophosphate (P)	2017/02/06	<0.010		mg/L	
4850415	NRG	RPD - Sample/Sample Dup	Orthophosphate (P)	2017/02/06	NC		%	25
4850416	NRG	Matrix Spike(DVS425)	Nitrate + Nitrite (N)	2017/02/03		90	%	80 - 120
4850416	NRG	Spiked Blank	Nitrate + Nitrite (N)	2017/02/03		97	%	80 - 120
4850416	NRG	Method Blank	Nitrate + Nitrite (N)	2017/02/03	<0.050		mg/L	
4850416	NRG	RPD - Sample/Sample Dup	Nitrate + Nitrite (N)	2017/02/03	NC		%	25
4850417	NRG	Matrix Spike(DVS425)	Nitrite (N)	2017/02/03		83	%	80 - 120
4850417	NRG	Spiked Blank	Nitrite (N)	2017/02/03		92	%	80 - 120
4850417	NRG	Method Blank	Nitrite (N)	2017/02/03	<0.010		mg/L	
4850417	NRG	RPD - Sample/Sample Dup	Nitrite (N)	2017/02/03	NC		%	25
4850467	LPW	QC Standard	Total Suspended Solids	2017/02/07		94	%	80 - 120
4850467	LPW	Method Blank	Total Suspended Solids	2017/02/07	<1.0		mg/L	
4850467	LPW	RPD - Sample/Sample Dup	Total Suspended Solids	2017/02/07	4.8		%	25
4850497	BAN	Matrix Spike	Total Aluminum (Al)	2017/02/06		NC	%	80 - 120
			Total Antimony (Sb)	2017/02/06		102	%	80 - 120
			Total Arsenic (As)	2017/02/06		96	%	80 - 120
			Total Barium (Ba)	2017/02/06		NC	%	80 - 120
			Total Beryllium (Be)	2017/02/06		97	%	80 - 120
			Total Bismuth (Bi)	2017/02/06		96	%	80 - 120
			Total Boron (B)	2017/02/06		NC	%	80 - 120
			Total Cadmium (Cd)	2017/02/06		100	%	80 - 120
			Total Calcium (Ca)	2017/02/06		NC	%	80 - 120
			Total Chromium (Cr)	2017/02/06		94	%	80 - 120
			Total Cobalt (Co)	2017/02/06		95	%	80 - 120
			Total Copper (Cu)	2017/02/06		91	%	80 - 120
			Total Iron (Fe)	2017/02/06		106	%	80 - 120

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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4850497	BAN	Spiked Blank	Total Lead (Pb)	2017/02/06		93	%	80 - 120
			Total Magnesium (Mg)	2017/02/06		NC	%	80 - 120
			Total Manganese (Mn)	2017/02/06		NC	%	80 - 120
			Total Molybdenum (Mo)	2017/02/06		NC	%	80 - 120
			Total Nickel (Ni)	2017/02/06		NC	%	80 - 120
			Total Phosphorus (P)	2017/02/06		100	%	80 - 120
			Total Potassium (K)	2017/02/06		NC	%	80 - 120
			Total Selenium (Se)	2017/02/06		96	%	80 - 120
			Total Silver (Ag)	2017/02/06		98	%	80 - 120
			Total Sodium (Na)	2017/02/06		NC	%	80 - 120
			Total Strontium (Sr)	2017/02/06		NC	%	80 - 120
			Total Thallium (Tl)	2017/02/06		96	%	80 - 120
			Total Tin (Sn)	2017/02/06		107	%	80 - 120
			Total Titanium (Ti)	2017/02/06		105	%	80 - 120
			Total Uranium (U)	2017/02/06		97	%	80 - 120
			Total Vanadium (V)	2017/02/06		100	%	80 - 120
			Total Zinc (Zn)	2017/02/06		NC	%	80 - 120
			Total Aluminum (Al)	2017/02/06		104	%	80 - 120
			Total Antimony (Sb)	2017/02/06		100	%	80 - 120
			Total Arsenic (As)	2017/02/06		95	%	80 - 120
			Total Barium (Ba)	2017/02/06		96	%	80 - 120
			Total Beryllium (Be)	2017/02/06		96	%	80 - 120
			Total Bismuth (Bi)	2017/02/06		102	%	80 - 120
			Total Boron (B)	2017/02/06		93	%	80 - 120
			Total Cadmium (Cd)	2017/02/06		99	%	80 - 120
			Total Calcium (Ca)	2017/02/06		101	%	80 - 120
			Total Chromium (Cr)	2017/02/06		95	%	80 - 120
			Total Cobalt (Co)	2017/02/06		96	%	80 - 120
			Total Copper (Cu)	2017/02/06		95	%	80 - 120
			Total Iron (Fe)	2017/02/06		100	%	80 - 120
			Total Lead (Pb)	2017/02/06		98	%	80 - 120
			Total Magnesium (Mg)	2017/02/06		105	%	80 - 120
			Total Manganese (Mn)	2017/02/06		97	%	80 - 120
			Total Molybdenum (Mo)	2017/02/06		99	%	80 - 120
			Total Nickel (Ni)	2017/02/06		97	%	80 - 120
			Total Phosphorus (P)	2017/02/06		104	%	80 - 120
			Total Potassium (K)	2017/02/06		101	%	80 - 120
			Total Selenium (Se)	2017/02/06		97	%	80 - 120
			Total Silver (Ag)	2017/02/06		98	%	80 - 120
			Total Sodium (Na)	2017/02/06		100	%	80 - 120
			Total Strontium (Sr)	2017/02/06		98	%	80 - 120
			Total Thallium (Tl)	2017/02/06		101	%	80 - 120
			Total Tin (Sn)	2017/02/06		103	%	80 - 120
			Total Titanium (Ti)	2017/02/06		98	%	80 - 120
			Total Uranium (U)	2017/02/06		108	%	80 - 120
			Total Vanadium (V)	2017/02/06		100	%	80 - 120
			Total Zinc (Zn)	2017/02/06		97	%	80 - 120
4850497	BAN	Method Blank	Total Aluminum (Al)	2017/02/06	6.3, RDL=5.0		ug/L	
			Total Antimony (Sb)	2017/02/06	<1.0		ug/L	
			Total Arsenic (As)	2017/02/06	<1.0		ug/L	

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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC				Date		%		
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
			Total Barium (Ba)	2017/02/06	<1.0		ug/L	
			Total Beryllium (Be)	2017/02/06	<1.0		ug/L	
			Total Bismuth (Bi)	2017/02/06	<2.0		ug/L	
			Total Boron (B)	2017/02/06	<50		ug/L	
			Total Cadmium (Cd)	2017/02/06	<0.010		ug/L	
			Total Calcium (Ca)	2017/02/06	<100		ug/L	
			Total Chromium (Cr)	2017/02/06	<1.0		ug/L	
			Total Cobalt (Co)	2017/02/06	<0.40		ug/L	
			Total Copper (Cu)	2017/02/06	<2.0		ug/L	
			Total Iron (Fe)	2017/02/06	<50		ug/L	
			Total Lead (Pb)	2017/02/06	<0.50		ug/L	
			Total Magnesium (Mg)	2017/02/06	<100		ug/L	
			Total Manganese (Mn)	2017/02/06	<2.0		ug/L	
			Total Molybdenum (Mo)	2017/02/06	<2.0		ug/L	
			Total Nickel (Ni)	2017/02/06	<2.0		ug/L	
			Total Phosphorus (P)	2017/02/06	<100		ug/L	
			Total Potassium (K)	2017/02/06	<100		ug/L	
			Total Selenium (Se)	2017/02/06	<1.0		ug/L	
			Total Silver (Ag)	2017/02/06	<0.10		ug/L	
			Total Sodium (Na)	2017/02/06	<100		ug/L	
			Total Strontium (Sr)	2017/02/06	<2.0		ug/L	
			Total Thallium (Tl)	2017/02/06	<0.10		ug/L	
			Total Tin (Sn)	2017/02/06	<2.0		ug/L	
			Total Titanium (Ti)	2017/02/06	<2.0		ug/L	
			Total Uranium (U)	2017/02/06	<0.10		ug/L	
			Total Vanadium (V)	2017/02/06	<2.0		ug/L	
			Total Zinc (Zn)	2017/02/06	<5.0		ug/L	
4850497	BAN	RPD - Sample/Sample Dup	Total Arsenic (As)	2017/02/06	NC		%	20
4850625	BAN	Matrix Spike	Dissolved Aluminum (Al)	2017/02/04		113	%	80 - 120
			Dissolved Antimony (Sb)	2017/02/04		110	%	80 - 120
			Dissolved Arsenic (As)	2017/02/04		103	%	80 - 120
			Dissolved Barium (Ba)	2017/02/04		97	%	80 - 120
			Dissolved Beryllium (Be)	2017/02/04		95	%	80 - 120
			Dissolved Bismuth (Bi)	2017/02/04		109	%	80 - 120
			Dissolved Boron (B)	2017/02/04		NC	%	80 - 120
			Dissolved Cadmium (Cd)	2017/02/04		106	%	80 - 120
			Dissolved Calcium (Ca)	2017/02/04		NC	%	80 - 120
			Dissolved Chromium (Cr)	2017/02/04		101	%	80 - 120
			Dissolved Cobalt (Co)	2017/02/04		102	%	80 - 120
			Dissolved Copper (Cu)	2017/02/04		102	%	80 - 120
			Dissolved Iron (Fe)	2017/02/04		112	%	80 - 120
			Dissolved Lead (Pb)	2017/02/04		102	%	80 - 120
			Dissolved Magnesium (Mg)	2017/02/04		NC	%	80 - 120
			Dissolved Manganese (Mn)	2017/02/04		NC	%	80 - 120
			Dissolved Molybdenum (Mo)	2017/02/04		107	%	80 - 120
			Dissolved Nickel (Ni)	2017/02/04		103	%	80 - 120
			Dissolved Phosphorus (P)	2017/02/04		111	%	80 - 120
			Dissolved Potassium (K)	2017/02/04		113	%	80 - 120
			Dissolved Selenium (Se)	2017/02/04		104	%	80 - 120
			Dissolved Silver (Ag)	2017/02/04		101	%	80 - 120
			Dissolved Sodium (Na)	2017/02/04		105	%	80 - 120



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QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4850625	BAN	Spiked Blank		Dissolved Strontium (Sr)	2017/02/04		NC	%	80 - 120
				Dissolved Thallium (Tl)	2017/02/04		109	%	80 - 120
				Dissolved Tin (Sn)	2017/02/04		111	%	80 - 120
				Dissolved Titanium (Ti)	2017/02/04		101	%	80 - 120
				Dissolved Uranium (U)	2017/02/04		113	%	80 - 120
				Dissolved Vanadium (V)	2017/02/04		100	%	80 - 120
				Dissolved Zinc (Zn)	2017/02/04		108	%	80 - 120
				Dissolved Aluminum (Al)	2017/02/04		105	%	80 - 120
				Dissolved Antimony (Sb)	2017/02/04		99	%	80 - 120
				Dissolved Arsenic (As)	2017/02/04		96	%	80 - 120
				Dissolved Barium (Ba)	2017/02/04		93	%	80 - 120
				Dissolved Beryllium (Be)	2017/02/04		90	%	80 - 120
				Dissolved Bismuth (Bi)	2017/02/04		101	%	80 - 120
				Dissolved Boron (B)	2017/02/04		90	%	80 - 120
				Dissolved Cadmium (Cd)	2017/02/04		100	%	80 - 120
				Dissolved Calcium (Ca)	2017/02/04		96	%	80 - 120
				Dissolved Chromium (Cr)	2017/02/04		95	%	80 - 120
				Dissolved Cobalt (Co)	2017/02/04		96	%	80 - 120
				Dissolved Copper (Cu)	2017/02/04		96	%	80 - 120
				Dissolved Iron (Fe)	2017/02/04		103	%	80 - 120
				Dissolved Lead (Pb)	2017/02/04		97	%	80 - 120
				Dissolved Magnesium (Mg)	2017/02/04		103	%	80 - 120
				Dissolved Manganese (Mn)	2017/02/04		99	%	80 - 120
				Dissolved Molybdenum (Mo)	2017/02/04		98	%	80 - 120
				Dissolved Nickel (Ni)	2017/02/04		99	%	80 - 120
				Dissolved Phosphorus (P)	2017/02/04		105	%	80 - 120
				Dissolved Potassium (K)	2017/02/04		108	%	80 - 120
				Dissolved Selenium (Se)	2017/02/04		99	%	80 - 120
				Dissolved Silver (Ag)	2017/02/04		98	%	80 - 120
				Dissolved Sodium (Na)	2017/02/04		99	%	80 - 120
				Dissolved Strontium (Sr)	2017/02/04		98	%	80 - 120
				Dissolved Thallium (Tl)	2017/02/04		101	%	80 - 120
				Dissolved Tin (Sn)	2017/02/04		102	%	80 - 120
				Dissolved Titanium (Ti)	2017/02/04		99	%	80 - 120
				Dissolved Uranium (U)	2017/02/04		106	%	80 - 120
				Dissolved Vanadium (V)	2017/02/04		94	%	80 - 120
				Dissolved Zinc (Zn)	2017/02/04		101	%	80 - 120
4850625	BAN	Method Blank		Dissolved Aluminum (Al)	2017/02/04	<5.0		ug/L	
				Dissolved Antimony (Sb)	2017/02/04	<1.0		ug/L	
				Dissolved Arsenic (As)	2017/02/04	<1.0		ug/L	
				Dissolved Barium (Ba)	2017/02/04	<1.0		ug/L	
				Dissolved Beryllium (Be)	2017/02/04	<1.0		ug/L	
				Dissolved Bismuth (Bi)	2017/02/04	<2.0		ug/L	
				Dissolved Boron (B)	2017/02/04	<50		ug/L	
				Dissolved Cadmium (Cd)	2017/02/04	<0.010		ug/L	
				Dissolved Calcium (Ca)	2017/02/04	<100		ug/L	
				Dissolved Chromium (Cr)	2017/02/04	<1.0		ug/L	
				Dissolved Cobalt (Co)	2017/02/04	<0.40		ug/L	
				Dissolved Copper (Cu)	2017/02/04	<2.0		ug/L	
				Dissolved Iron (Fe)	2017/02/04	<50		ug/L	
				Dissolved Lead (Pb)	2017/02/04	<0.50		ug/L	



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QA/QC				Date		%		
Batch	Init	QC Type	Parameter	Analyzed	Value	Recovery	UNITS	QC Limits
			Dissolved Magnesium (Mg)	2017/02/04	<100		ug/L	
			Dissolved Manganese (Mn)	2017/02/04	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2017/02/04	<2.0		ug/L	
			Dissolved Nickel (Ni)	2017/02/04	<2.0		ug/L	
			Dissolved Phosphorus (P)	2017/02/04	<100		ug/L	
			Dissolved Potassium (K)	2017/02/04	<100		ug/L	
			Dissolved Selenium (Se)	2017/02/04	<1.0		ug/L	
			Dissolved Silver (Ag)	2017/02/04	<0.10		ug/L	
			Dissolved Sodium (Na)	2017/02/04	<100		ug/L	
			Dissolved Strontium (Sr)	2017/02/04	<2.0		ug/L	
			Dissolved Thallium (Tl)	2017/02/04	<0.10		ug/L	
			Dissolved Tin (Sn)	2017/02/04	<2.0		ug/L	
			Dissolved Titanium (Ti)	2017/02/04	<2.0		ug/L	
			Dissolved Uranium (U)	2017/02/04	<0.10		ug/L	
			Dissolved Vanadium (V)	2017/02/04	<2.0		ug/L	
			Dissolved Zinc (Zn)	2017/02/04	<5.0		ug/L	
4850625	BAN	RPD - Sample/Sample Dup	Dissolved Aluminum (Al)	2017/02/04	NC		%	20
			Dissolved Antimony (Sb)	2017/02/04	NC		%	20
			Dissolved Arsenic (As)	2017/02/04	1.6		%	20
			Dissolved Barium (Ba)	2017/02/04	1.2		%	20
			Dissolved Beryllium (Be)	2017/02/04	NC		%	20
			Dissolved Bismuth (Bi)	2017/02/04	NC		%	20
			Dissolved Boron (B)	2017/02/04	0.38		%	20
			Dissolved Cadmium (Cd)	2017/02/04	NC		%	20
			Dissolved Calcium (Ca)	2017/02/04	1.8		%	20
			Dissolved Chromium (Cr)	2017/02/04	NC		%	20
			Dissolved Cobalt (Co)	2017/02/04	NC		%	20
			Dissolved Copper (Cu)	2017/02/04	NC		%	20
			Dissolved Iron (Fe)	2017/02/04	NC		%	20
			Dissolved Lead (Pb)	2017/02/04	NC		%	20
			Dissolved Magnesium (Mg)	2017/02/04	2.7		%	20
			Dissolved Manganese (Mn)	2017/02/04	4.0		%	20
			Dissolved Molybdenum (Mo)	2017/02/04	NC		%	20
			Dissolved Nickel (Ni)	2017/02/04	NC		%	20
			Dissolved Phosphorus (P)	2017/02/04	NC		%	20
			Dissolved Potassium (K)	2017/02/04	0.31		%	20
			Dissolved Selenium (Se)	2017/02/04	NC		%	20
			Dissolved Silver (Ag)	2017/02/04	NC		%	20
			Dissolved Sodium (Na)	2017/02/04	2.7		%	20
			Dissolved Strontium (Sr)	2017/02/04	3.1		%	20
			Dissolved Thallium (Tl)	2017/02/04	NC		%	20
			Dissolved Tin (Sn)	2017/02/04	NC		%	20
			Dissolved Titanium (Ti)	2017/02/04	NC		%	20
			Dissolved Uranium (U)	2017/02/04	1.7		%	20
			Dissolved Vanadium (V)	2017/02/04	NC		%	20
			Dissolved Zinc (Zn)	2017/02/04	NC		%	20
4850869	ARS	Matrix Spike(DVS403)	Total Mercury (Hg)	2017/02/06		107	%	80 - 120
4850869	ARS	Spiked Blank	Total Mercury (Hg)	2017/02/06		106	%	80 - 120
4850869	ARS	Method Blank	Total Mercury (Hg)	2017/02/06	<0.013		ug/L	
4850869	ARS	RPD - Sample/Sample Dup	Total Mercury (Hg)	2017/02/06	NC		%	20
4852494	JMV	QC Standard	pH	2017/02/06		100	%	97 - 103

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4852494	JMV	RPD - Sample/Sample Dup	pH	2017/02/06	0.48		%	N/A
4852495	JMV	Spiked Blank	Conductivity	2017/02/06		101	%	80 - 120
4852495	JMV	Method Blank	Conductivity	2017/02/06	1.5, RDL=1.0		uS/cm	
4852495	JMV	RPD - Sample/Sample Dup	Conductivity	2017/02/06	1.7		%	25
4853060	ARS	Matrix Spike	Total Mercury (Hg)	2017/02/07		103	%	80 - 120
4853060	ARS	Spiked Blank	Total Mercury (Hg)	2017/02/07		104	%	80 - 120
4853060	ARS	Method Blank	Total Mercury (Hg)	2017/02/07	<0.013		ug/L	
4853060	ARS	RPD - Sample/Sample Dup	Total Mercury (Hg)	2017/02/07	NC		%	20
4854231	SSI	Matrix Spike	Total Organic Carbon (C)	2017/02/07		95	%	80 - 120
4854231	SSI	Spiked Blank	Total Organic Carbon (C)	2017/02/07		95	%	80 - 120
4854231	SSI	Method Blank	Total Organic Carbon (C)	2017/02/07	<0.50		mg/L	
4854231	SSI	RPD - Sample/Sample Dup	Total Organic Carbon (C)	2017/02/07	NC		%	20
4854545	SSI	Matrix Spike(DVS425)	Total Organic Carbon (C)	2017/02/07		NC	%	80 - 120
4854545	SSI	Spiked Blank	Total Organic Carbon (C)	2017/02/07		99	%	80 - 120
4854545	SSI	Method Blank	Total Organic Carbon (C)	2017/02/07	<0.50		mg/L	
4854545	SSI	RPD - Sample/Sample Dup	Total Organic Carbon (C)	2017/02/07	NC (2)		%	20

N/A = Not Applicable

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spiked amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than 2x that of the native sample concentration).

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (one or both samples < 5x RDL).

(1) Elevated matrix spike recovery due to sample matrix.

(2) Reporting limit was increased due to turbidity.

Maxxam Job #: B721953  
Report Date: 2017/02/08

Englobe Corp.  
Client Project #: P-0010903  
Site Location: LAKE GEORGE  
Your P.O. #: A08305  
Sampler Initials: AS

### VALIDATION SIGNATURE PAGE


The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).



Eric Dearman, Scientific Specialist

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



**Maxxam Analytics International Corporation**  
200 Bluewater Road, Bedford, Nova Scotia Canada B4B 1G8 Tel: (902) 420-0203 T: 800-563-9266 Fax: (902) 420-9612 www.maxxam.ca

**Chain Of Custody Record**

Page 1 of 3

**Report Information**

Company Name: Englobe Corp.  
 Contact Name: Accounts Payable  
 Address: 97 Troop Ave  
Dartmouth NS B3B 2A7  
 Phone: (902) 468-6486 Fax: (902) 468-4919  
 Email: Dartmouth.AP@englobecorp.com

**Project Information**

Quotation #: B63657  
 P.O. #: P-0010903  
 Project #: LAKE GEORGE  
 Project Name: AS/L  
 Site #: AS/L  
 Sampled By: AS/L

**Company Name:** Englobe Corp.  
**Contact Name:** Accounts Payable  
**Address:** 97 Troop Ave  
Dartmouth NS B3B 2A7  
**Phone:** (902) 468-6486 **Fax:** (902) 468-4919  
**Email:** Dartmouth.AP@englobecorp.com

**Laboratory Use Only**

Maxxam Job #: B63657  
 Bottle Order #: 550324  
 Chain Of Custody Record: LAKE GEORGE  
 Avery Withrow: CA92824 9131

**Turnaround Time (TAT) Required:**

Regular (Standard) TAT: ☒ (will be applied if Rush TAT is not specified)  
 Standard TAT = 5-7 Working days for most tests.  
 Please note: Standard TAT for certain tests such as BOD and Dissolved Solids are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission): ☐  
 Date Required: ☐

Comments / Hazards / Other Required Analysis: ☐

**ANALYSIS REQUESTED (PLEASE BE SPECIFIC)**

Sample	Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix
1	5104328292	SW1	31/1/17	13h00	SW
2	5104328293	SW2	30/1/17	9h25	
3	5104328294	SW3	30/1/17	11h50	
4	5104328295	SW4	31/1/17	13h30	
5	5104328296	SW5	30/1/17	11h55	
6	5104328297	SW6	31/1/17	13h37	
7	5104328298	SW7	30/1/17	9h10	
8	5104328299	SW8	30/1/17	10h05	
9	5104328300	SW9	30/1/17	10h10	
10	5104328301	SW10	30/1/17	9h45	

**Special Instructions:**

**Regulatory Criteria:**

**SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM**

**Field Filtration & Preserved**

Lab Filtration Required: ☒

RCAP-MS Total Metals in Water: ☒

Mercury - Total (CVAA/LL): ☒

Total Suspended Solids: ☒

Dissolved Metals (as rec'd): ☒

**Time Required:**

Regular (Standard) TAT: ☒ (will be applied if Rush TAT is not specified)  
 Standard TAT = 5-7 Working days for most tests.  
 Please note: Standard TAT for certain tests such as BOD and Dissolved Solids are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission): ☐  
 Date Required: ☐

Comments / Hazards / Other Required Analysis: ☐

**RECEIVED BY: (Signature/Print)**

[Signature]

Date: (YY/MM/DD) 30/1/17 Time 9h45

**Lab Use Only**

Temperature (°C) on Receipt: 4.1/6.1/2


Custody Seal Intact on Delivery: ☒ Yes ☐ No

White Maxxam Yellow Client

\* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.

\* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.





**Maxxam**  
ANALYTICAL CORPORATION

**Maxxam Analytics International Corporation** aka **Maxxam Analytics**  
200 Bluewater Road, Bedford, Nova Scotia Canada B4B 1G6 Tel: (902) 420-0203 Toll-free 800-563-6268 Fax: (902) 420-0812 www.maxxam.ca

Page 2 of 3

**INVOICE TO:**

Company Name: #41009 Englobe Corp.  
 Contact Name: Accounts Payable  
 Address: 97 Troop Ave  
 Dartmouth NS B3B 2A7  
 Phone: (902) 468-6488 Fax: (902) 468-4919  
 Email: Dartmouth.AP@englobecorp.com

**Report Information**

Company Name: Aven Cole/Lisa L/Alexandra S.  
 Contact Name: Aven Cole/Lisa L/Alexandra S.  
 Address: (902) 468-6486 Fax: (902) 468-4919  
 Email: Aven.Cole@englobecorp.com

**Project Information**

Quotation #: B63657  
 P.O. #: P-0010903  
 Project #: LAKE GEORGE  
 Project Name: AS/LL  
 Site #: AS/LL  
 Sampled By: AS/LL

**Laboratory Use Only**

Maxxam Job #: B721953  
 Chain Of Custody Record: Project Manager  
 Away With/By: AS/LL

**Regulatory Criteria**

Special Instructions: \*\* Specify Matrix: Surface/Ground/Tapwater/Seawater/Sludge/Solid/Slurry/Sediment  
 Prouder/Nonprouder/Island/Solid/Biofouling

**ANALYSIS REQUESTED (PLEASE BE SPECIFIC)**

Sample	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered & Preserved	Lab Filtration Required	RCAP-MS Total Metals in Water	Mercury - Total (CVAA,LL)	Total Suspended Solids	Dissolved Metals (as rec'd)
1	SW11	30/1/17	10h25	SW	X	X	X	X		
2	SW12	31/1/17		SW	X	X	X	X		
3	SW13	30/1/17	8h50	SW	X	X	X	X		
4	SW14	30/1/17	13h15	SW	X	X	X	X		
5	SW15	31/1/17	13h45	SW	X	X	X	X		
6	SW16	31/1/17	14h00	SW	X	X	X	X		
7	SW-DUP1	30/1/17		SW	X	X	X	X		
8	SW-DUP2	30/1/17		SW	X	X	X	X		
9	P1A	30/1/17	11h35	SW	X	X	X	X		
10	P1B	30/1/17	11h20	SW	X	X	X	X		

**RECEIVED BY: (Signature/Print)** *[Signature]*

**DATE: (YY/MM/DD)** 30/1/17 **TIME:** 11h20

**RELINQUISHED BY: (Signature/Print)** *[Signature]*

**DATE: (YY/MM/DD)** 30/1/17 **TIME:** 11h20

**ANALYSIS REQUESTED (PLEASE BE SPECIFIC)**

Regular (Standard) TAT: (will be applied if Rush TAT is not specified)  
 Standard TAT = 5-7 Working days for most tests.  
 Please note: Standard TAT for certain tests such as BOD and Dissolved/Total Metals are > 6 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)  
 Date Required: ☐

Comments / Hazards / Other Required Analysis: ☐

**Turnaround Time (TAT) Required**

Please provide advance notice for rush projects.

Temperature (°C) on Receipt: 4.1/1/17  
 Custody Seal intact on Delivery? ☐ Yes ☐ No  
 While Measured: ☐ Yes ☐ No  
 Yellow Check: ☐ Yes ☐ No

**UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.**

**IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.**

[illegible]



**Attention: Lisa Ladouceur**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

Your P.O. #: A08530  
Your Project #: P-0010903-0-00-205  
Site#: Lake George Road, Lake George,  
Site Location: Lake George Road, Lake George, NS  
Your C.O.C. #: 606952-01-01

**Report Date: 2017/05/09**

Report #: R4453804

Version: 1 - Final

## **CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B784266**

**Received: 2017/04/26, 16:25**

Sample Matrix: Water  
# Samples Received: 23

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Carbonate, Bicarbonate and Hydroxide	23	N/A	2017/05/01	N/A	SM 22 4500-CO2 D
Alkalinity	23	N/A	2017/05/02	ATL SOP 00013	EPA 310.2 R1974 m
Chloride	23	N/A	2017/05/02	ATL SOP 00014	SM 22 4500-Cl- E m
Colour	23	N/A	2017/05/03	ATL SOP 00020	SM 22 2120C m
Conductance - water	23	N/A	2017/05/01	ATL SOP 00004	SM 22 2510B m
Hardness (calculated as CaCO3)	16	N/A	2017/05/01	ATL SOP 00048	SM 22 2340 B
Hardness (calculated as CaCO3)	6	N/A	2017/05/02	ATL SOP 00048	SM 22 2340 B
Hardness (calculated as CaCO3)	1	N/A	2017/05/03	ATL SOP 00048	SM 22 2340 B
Mercury - Total (CVAA,LL)	23	2017/04/28	2017/05/01	ATL SOP 00026	EPA 245.1 R3 m
Metals Water Diss. MS (as rec'd)	6	N/A	2017/05/02	ATL SOP 00058	EPA 6020A R1 m
Metals Water Total MS	16	2017/04/28	2017/04/29	ATL SOP 00058	EPA 6020A R1 m
Metals Water Total MS	6	2017/04/28	2017/05/01	ATL SOP 00058	EPA 6020A R1 m
Metals Water Total MS	1	2017/04/28	2017/05/02	ATL SOP 00058	EPA 6020A R1 m
Ion Balance (% Difference)	21	N/A	2017/05/08	N/A	Auto Calc.
Ion Balance (% Difference)	2	N/A	2017/05/09	N/A	Auto Calc.
Anion and Cation Sum	21	N/A	2017/05/08	N/A	Auto Calc.
Anion and Cation Sum	2	N/A	2017/05/09	N/A	Auto Calc.
Total Ammonia-N (1)	21	N/A	2017/05/08	CAM SOP-00441	EPA GS I-2522-90 m
Total Ammonia-N (1)	2	N/A	2017/05/09	CAM SOP-00441	EPA GS I-2522-90 m
Nitrogen - Nitrate + Nitrite	23	N/A	2017/05/02	ATL SOP 00016	USGS SOPINCF0452.2 m
Nitrogen - Nitrite	23	N/A	2017/05/02	ATL SOP 00017	SM 22 4500-NO2- B m
Nitrogen - Nitrate (as N)	23	N/A	2017/05/03	ATL SOP 00018	ASTM D3867-16
pH (2)	23	N/A	2017/05/01	ATL SOP 00003	SM 22 4500-H+ B m
Phosphorus - ortho	23	N/A	2017/05/02	ATL SOP 00021	EPA 365.2 m
Sat. pH and Langelier Index (@ 20C)	10	N/A	2017/05/03	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 20C)	12	N/A	2017/05/08	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 20C)	1	N/A	2017/05/09	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	10	N/A	2017/05/03	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	12	N/A	2017/05/08	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	1	N/A	2017/05/09	ATL SOP 00049	Auto Calc.

**Attention: Lisa Ladouceur**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

Your P.O. #: A08530  
Your Project #: P-0010903-0-00-205  
Site#: Lake George Road, Lake George,  
Site Location: Lake George Road, Lake George, NS  
Your C.O.C. #: 606952-01-01

**Report Date: 2017/05/09**

Report #: R4453804

Version: 1 - Final

## **CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B784266**

**Received: 2017/04/26, 16:25**

Sample Matrix: Water  
# Samples Received: 23

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Reactive Silica	23	N/A	2017/05/02	ATL SOP 00022	EPA 366.0 m
Sulphate	23	N/A	2017/05/03	ATL SOP 00023	ASTMD516-11 m
Total Dissolved Solids (TDS calc)	21	N/A	2017/05/08	N/A	Auto Calc.
Total Dissolved Solids (TDS calc)	2	N/A	2017/05/09	N/A	Auto Calc.
Organic carbon - Total (TOC) (3)	23	N/A	2017/04/28	ATL SOP 00037	SM 22 5310C m
Total Suspended Solids	2	2017/05/01	2017/05/03	ATL SOP 00007	SM 22 2540D m
Total Suspended Solids	4	2017/05/01	2017/05/04	ATL SOP 00007	SM 22 2540D m
Turbidity	23	N/A	2017/05/01	ATL SOP 00011	EPA 180.1 R2 m

**Remarks:**

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported: unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Maxxam Analytics Mississauga

(2) The APHA Standard Method require pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.

(3) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

**Attention: Lisa Ladouceur**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

Your P.O. #: A08530  
Your Project #: P-0010903-0-00-205  
Site#: Lake George Road, Lake George,  
Site Location: Lake George Road, Lake George, NS  
Your C.O.C. #: 606952-01-01

**Report Date: 2017/05/09**

Report #: R4453804

Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B784266**

**Received: 2017/04/26, 16:25**

Encryption Key



Maxxam  
09 May 2017 14:29:49

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Michelle Hill, Project Manager

Email: MHill@maxxam.ca

Phone# (902)420-0203 Ext:289

=====

This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

<b>Maxxam ID</b>		EHA221			EHA222			EHA223			
<b>Sampling Date</b>		2017/04/26			2017/04/25			2017/04/25			
<b>COC Number</b>		606952-01-01			606952-01-01			606952-01-01			
	<b>UNITS</b>	<b>SW1</b>	<b>RDL</b>	<b>QC Batch</b>	<b>SW2</b>	<b>RDL</b>	<b>QC Batch</b>	<b>SW3</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Calculated Parameters

Anion Sum	me/L	0.520	N/A	4957617	0.420	N/A	4957617	1.19	N/A	4957617	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4957614	<1.0	1.0	4957614	31	1.0	4957614	0.20
Calculated TDS	mg/L	42	1.0	4957610	33	1.0	4957610	76	1.0	4957610	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4957614	<1.0	1.0	4957614	<1.0	1.0	4957614	0.20
Cation Sum	me/L	0.690	N/A	4957617	0.580	N/A	4957617	1.33	N/A	4957617	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	4.9	1.0	4957615	8.4	1.0	4957615	27	1.0	4957615	1.0
Ion Balance (% Difference)	%	14.1	N/A	4957616	16.0	N/A	4957616	5.56	N/A	4957616	N/A
Langelier Index (@ 20C)	N/A	NC		4957608	NC		4957608	-2.27		4957608	
Langelier Index (@ 4C)	N/A	NC		4957609	NC		4957609	-2.52		4957609	
Nitrate (N)	mg/L	0.077	0.050	4957618	0.067	0.050	4957618	0.092	0.050	4957618	N/A
Saturation pH (@ 20C)	N/A	NC		4957608	NC		4957608	8.98		4957608	
Saturation pH (@ 4C)	N/A	NC		4957609	NC		4957609	9.23		4957609	

#### Inorganics

Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	<5.0	5.0	4962261	<5.0	5.0	4962261	31	5.0	4962261	N/A
Total Ammonia-N	mg/L	<0.050	0.050	4973137	<0.050	0.050	4973879	0.093	0.050	4973133	0.0080
Dissolved Chloride (Cl)	mg/L	16	1.0	4962263	15	1.0	4962263	18	1.0	4962263	N/A
Colour	TCU	580 (1)	130	4962279	220 (1)	100	4962279	430 (1)	130	4962279	N/A
Nitrate + Nitrite (N)	mg/L	0.077	0.050	4962287	0.067	0.050	4962287	0.092	0.050	4962287	N/A
Nitrite (N)	mg/L	<0.010	0.010	4962292	<0.010	0.010	4962292	<0.010	0.010	4962292	N/A
Total Organic Carbon (C)	mg/L	20 (1)	5.0	4959592	13 (1)	2.5	4959592	33 (1)	5.0	4959592	N/A
Orthophosphate (P)	mg/L	0.020	0.010	4962282	0.014	0.010	4962282	0.028	0.010	4962282	N/A
pH	pH	5.41	N/A	4962125	5.43	N/A	4962127	6.72	N/A	4962125	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	5.6	0.50	4962271	5.8	0.50	4962271	4.5	0.50	4962271	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	3.4	2.0	4962266	<2.0	2.0	4962266	3.3	2.0	4962266	N/A
Turbidity	NTU	5.1	0.10	4962155	2.9	0.10	4962155	17	0.10	4962155	0.10
Conductivity	uS/cm	79	1.0	4962126	69	1.0	4962128	120	1.0	4962126	N/A

#### Metals

Total Aluminum (Al)	ug/L	720	5.0	4959500	370	5.0	4959507	1600	5.0	4959500	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4959500	<1.0	1.0	4959507	<1.0	1.0	4959500	N/A
Total Arsenic (As)	ug/L	1.3	1.0	4959500	<1.0	1.0	4959507	4.7	1.0	4959500	N/A
Total Barium (Ba)	ug/L	3.1	1.0	4959500	2.8	1.0	4959507	21	1.0	4959500	N/A
Total Beryllium (Be)	ug/L	<1.0	1.0	4959500	<1.0	1.0	4959507	<1.0	1.0	4959500	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) Elevated reporting limit due to sample matrix.

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		EHA221			EHA222			EHA223			
Sampling Date		2017/04/26			2017/04/25			2017/04/25			
COC Number		606952-01-01			606952-01-01			606952-01-01			
	UNITS	SW1	RDL	QC Batch	SW2	RDL	QC Batch	SW3	RDL	QC Batch	MDL
Total Bismuth (Bi)	ug/L	<2.0	2.0	4959500	<2.0	2.0	4959507	<2.0	2.0	4959500	N/A
Total Boron (B)	ug/L	<50	50	4959500	<50	50	4959507	<50	50	4959500	N/A
Total Cadmium (Cd)	ug/L	0.034	0.010	4959500	0.028	0.010	4959507	0.071	0.010	4959500	N/A
Total Calcium (Ca)	ug/L	950	100	4959500	1400	100	4959507	8000	100	4959500	N/A
Total Chromium (Cr)	ug/L	1.2	1.0	4959500	1.5	1.0	4959507	4.7	1.0	4959500	N/A
Total Cobalt (Co)	ug/L	0.45	0.40	4959500	<0.40	0.40	4959507	2.9	0.40	4959500	N/A
Total Copper (Cu)	ug/L	<2.0	2.0	4959500	<2.0	2.0	4959507	4.7	2.0	4959500	N/A
Total Iron (Fe)	ug/L	800	50	4959500	310	50	4959507	7200	50	4959500	N/A
Total Lead (Pb)	ug/L	3.4	0.50	4959500	1.4	0.50	4959507	5.4	0.50	4959500	N/A
Total Magnesium (Mg)	ug/L	600	100	4959500	1100	100	4959507	2400	100	4959500	N/A
Total Manganese (Mn)	ug/L	17	2.0	4959500	14	2.0	4959507	560	2.0	4959500	N/A
Total Molybdenum (Mo)	ug/L	<2.0	2.0	4959500	<2.0	2.0	4959507	<2.0	2.0	4959500	N/A
Total Nickel (Ni)	ug/L	2.0	2.0	4959500	<2.0	2.0	4959507	4.6	2.0	4959500	N/A
Total Phosphorus (P)	ug/L	<100	100	4959500	<100	100	4959507	250	100	4959500	N/A
Total Potassium (K)	ug/L	4000	100	4959500	1400	100	4959507	7600	100	4959500	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	4959500	<1.0	1.0	4959507	<1.0	1.0	4959500	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	4959500	<0.10	0.10	4959507	<0.10	0.10	4959500	N/A
Total Sodium (Na)	ug/L	9800	100	4959500	7900	100	4959507	11000	100	4959500	N/A
Total Strontium (Sr)	ug/L	7.6	2.0	4959500	9.4	2.0	4959507	41	2.0	4959500	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4959500	<0.10	0.10	4959507	<0.10	0.10	4959500	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	4959500	<2.0	2.0	4959507	<2.0	2.0	4959500	N/A
Total Titanium (Ti)	ug/L	16	2.0	4959500	4.5	2.0	4959507	36	2.0	4959500	N/A
Total Uranium (U)	ug/L	<0.10	0.10	4959500	<0.10	0.10	4959507	0.21	0.10	4959500	N/A
Total Vanadium (V)	ug/L	<2.0	2.0	4959500	<2.0	2.0	4959507	3.4	2.0	4959500	N/A
Total Zinc (Zn)	ug/L	5.2	5.0	4959500	<5.0	5.0	4959507	44	5.0	4959500	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable											

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

<b>Maxxam ID</b>		EHA223			EHA224			EHA225			
<b>Sampling Date</b>		2017/04/25			2017/04/26			2017/04/25			
<b>COC Number</b>		606952-01-01			606952-01-01			606952-01-01			
	<b>UNITS</b>	<b>SW3 Lab-Dup</b>	<b>RDL</b>	<b>QC Batch</b>	<b>SW4</b>	<b>RDL</b>	<b>QC Batch</b>	<b>SW5</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

<b>Calculated Parameters</b>											
Anion Sum	me/L		N/A	4957617	1.41	N/A	4957617	1.02	N/A	4957617	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L		1.0	4957614	9.2	1.0	4957614	24	1.0	4957614	0.20
Calculated TDS	mg/L		1.0	4957610	89	1.0	4957610	61	1.0	4957610	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L		1.0	4957614	<1.0	1.0	4957614	<1.0	1.0	4957614	0.20
Cation Sum	me/L		N/A	4957617	1.52	N/A	4957617	1.12	N/A	4957617	N/A
Hardness (CaCO <sub>3</sub> )	mg/L		1.0	4957615	17	1.0	4957615	23	1.0	4957615	1.0
Ion Balance (% Difference)	%		N/A	4957616	3.75	N/A	4957616	4.67	N/A	4957616	N/A
Langelier Index (@ 20C)	N/A			4957608	-3.35		4957608	-2.28		4957608	
Langelier Index (@ 4C)	N/A			4957609	-3.61		4957609	-2.53		4957609	
Nitrate (N)	mg/L		0.050	4957618	0.41	0.050	4957618	<0.050	0.050	4957618	N/A
Saturation pH (@ 20C)	N/A			4957608	9.78		4957608	9.16		4957608	
Saturation pH (@ 4C)	N/A			4957609	10.0		4957609	9.41		4957609	

<b>Inorganics</b>											
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L		5.0	4962261	9.2	5.0	4962261	24	5.0	4962261	N/A
Total Ammonia-N	mg/L		0.050	4973133	<0.050	0.050	4973133	<0.050	0.050	4973137	0.0080
Dissolved Chloride (Cl)	mg/L		1.0	4962263	40	1.0	4962263	17	1.0	4962263	N/A
Colour	TCU		130	4962279	220 (1)	100	4962279	320 (1)	130	4962279	N/A
Nitrate + Nitrite (N)	mg/L		0.050	4962287	0.41	0.050	4962287	<0.050	0.050	4962287	N/A
Nitrite (N)	mg/L		0.010	4962292	<0.010	0.010	4962292	<0.010	0.010	4962292	N/A
Total Organic Carbon (C)	mg/L	33 (1)	5.0	4959592	12 (1)	2.5	4959592	23 (1)	5.0	4959592	N/A
Orthophosphate (P)	mg/L		0.010	4962282	0.011	0.010	4962282	0.015	0.010	4962282	N/A
pH	pH		N/A	4962125	6.43	N/A	4962125	6.88	N/A	4962125	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L		0.50	4962271	3.9	0.50	4962271	0.69	0.50	4962271	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L		2.0	4962266	3.5	2.0	4962266	2.6	2.0	4962266	N/A
Turbidity	NTU		0.10	4962155	4.0	0.10	4962155	9.2	0.10	4962159	0.10
Conductivity	uS/cm		1.0	4962126	170	1.0	4962126	110	1.0	4962126	N/A

<b>Metals</b>											
Total Aluminum (Al)	ug/L		5.0	4959500	440	5.0	4959507	570	5.0	4959500	N/A
Total Antimony (Sb)	ug/L		1.0	4959500	<1.0	1.0	4959507	<1.0	1.0	4959500	N/A
Total Arsenic (As)	ug/L		1.0	4959500	<1.0	1.0	4959507	1.6	1.0	4959500	N/A
Total Barium (Ba)	ug/L		1.0	4959500	6.1	1.0	4959507	9.1	1.0	4959500	N/A

RDL = Reportable Detection Limit  
QC Batch = Quality Control Batch  
Lab-Dup = Laboratory Initiated Duplicate  
N/A = Not Applicable  
(1) Elevated reporting limit due to sample matrix.



### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		EHA223			EHA224			EHA225			
Sampling Date		2017/04/25			2017/04/26			2017/04/25			
COC Number		606952-01-01			606952-01-01			606952-01-01			
	UNITS	SW3 Lab-Dup	RDL	QC Batch	SW4	RDL	QC Batch	SW5	RDL	QC Batch	MDL
Total Beryllium (Be)	ug/L		1.0	4959500	<1.0	1.0	4959507	<1.0	1.0	4959500	N/A
Total Bismuth (Bi)	ug/L		2.0	4959500	<2.0	2.0	4959507	<2.0	2.0	4959500	N/A
Total Boron (B)	ug/L		50	4959500	<50	50	4959507	<50	50	4959500	N/A
Total Cadmium (Cd)	ug/L		0.010	4959500	0.025	0.010	4959507	0.029	0.010	4959500	N/A
Total Calcium (Ca)	ug/L		100	4959500	3900	100	4959507	5900	100	4959500	N/A
Total Chromium (Cr)	ug/L		1.0	4959500	<1.0	1.0	4959507	1.6	1.0	4959500	N/A
Total Cobalt (Co)	ug/L		0.40	4959500	1.2	0.40	4959507	0.82	0.40	4959500	N/A
Total Copper (Cu)	ug/L		2.0	4959500	2.3	2.0	4959507	3.1	2.0	4959500	N/A
Total Iron (Fe)	ug/L		50	4959500	990	50	4959507	2100	50	4959500	N/A
Total Lead (Pb)	ug/L		0.50	4959500	1.7	0.50	4959507	0.98	0.50	4959500	N/A
Total Magnesium (Mg)	ug/L		100	4959500	1800	100	4959507	2000	100	4959500	N/A
Total Manganese (Mn)	ug/L		2.0	4959500	68	2.0	4959507	120	2.0	4959500	N/A
Total Molybdenum (Mo)	ug/L		2.0	4959500	<2.0	2.0	4959507	<2.0	2.0	4959500	N/A
Total Nickel (Ni)	ug/L		2.0	4959500	<2.0	2.0	4959507	2.6	2.0	4959500	N/A
Total Phosphorus (P)	ug/L		100	4959500	<100	100	4959507	130	100	4959500	N/A
Total Potassium (K)	ug/L		100	4959500	2400	100	4959507	5600	100	4959500	N/A
Total Selenium (Se)	ug/L		1.0	4959500	<1.0	1.0	4959507	<1.0	1.0	4959500	N/A
Total Silver (Ag)	ug/L		0.10	4959500	<0.10	0.10	4959507	<0.10	0.10	4959500	N/A
Total Sodium (Na)	ug/L		100	4959500	25000	100	4959507	10000	100	4959500	N/A
Total Strontium (Sr)	ug/L		2.0	4959500	26	2.0	4959507	31	2.0	4959500	N/A
Total Thallium (Tl)	ug/L		0.10	4959500	<0.10	0.10	4959507	<0.10	0.10	4959500	N/A
Total Tin (Sn)	ug/L		2.0	4959500	<2.0	2.0	4959507	<2.0	2.0	4959500	N/A
Total Titanium (Ti)	ug/L		2.0	4959500	7.8	2.0	4959507	11	2.0	4959500	N/A
Total Uranium (U)	ug/L		0.10	4959500	<0.10	0.10	4959507	<0.10	0.10	4959500	N/A
Total Vanadium (V)	ug/L		2.0	4959500	<2.0	2.0	4959507	<2.0	2.0	4959500	N/A
Total Zinc (Zn)	ug/L		5.0	4959500	<5.0	5.0	4959507	20	5.0	4959500	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

<b>Maxxam ID</b>		EHA225			EHA226		EHA227			
<b>Sampling Date</b>		2017/04/25			2017/04/26		2017/04/25			
<b>COC Number</b>		606952-01-01			606952-01-01		606952-01-01			
	<b>UNITS</b>	<b>SW5 Lab-Dup</b>	<b>RDL</b>	<b>QC Batch</b>	<b>SW6</b>	<b>QC Batch</b>	<b>SW7</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Calculated Parameters

Anion Sum	me/L		N/A	4957617	1.07	4957617	0.450	N/A	4957617	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L		1.0	4957614	16	4957614	<1.0	1.0	4957614	0.20
Calculated TDS	mg/L		1.0	4957610	64	4957610	35	1.0	4957610	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L		1.0	4957614	<1.0	4957614	<1.0	1.0	4957614	0.20
Cation Sum	me/L		N/A	4957617	1.10	4957617	0.550	N/A	4957617	N/A
Hardness (CaCO <sub>3</sub> )	mg/L		1.0	4957615	15	4957615	8.5	1.0	4957615	1.0
Ion Balance (% Difference)	%		N/A	4957616	1.38	4957616	10.0	N/A	4957616	N/A
Langelier Index (@ 20C)	N/A			4957608	-2.58	4957608	NC		4957608	
Langelier Index (@ 4C)	N/A			4957609	-2.83	4957609	NC		4957609	
Nitrate (N)	mg/L		0.050	4957618	0.096	4957618	0.057	0.050	4957618	N/A
Saturation pH (@ 20C)	N/A			4957608	9.52	4957608	NC		4957608	
Saturation pH (@ 4C)	N/A			4957609	9.77	4957609	NC		4957609	

#### Inorganics

Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L		5.0	4962261	16	4962261	<5.0	5.0	4962261	N/A
Total Ammonia-N	mg/L	<0.050	0.050	4973137	<0.050	4973137	<0.050	0.050	4973137	0.0080
Dissolved Chloride (Cl)	mg/L		1.0	4962263	24	4962263	14	1.0	4962263	N/A
Colour	TCU		130	4962279	110 (1)	4962279	240 (1)	25	4962279	N/A
Nitrate + Nitrite (N)	mg/L		0.050	4962287	0.096	4962287	0.057	0.050	4962287	N/A
Nitrite (N)	mg/L		0.010	4962292	<0.010	4962292	<0.010	0.010	4962292	N/A
Total Organic Carbon (C)	mg/L		5.0	4959592	11 (1)	4959592	12 (1)	2.5	4959592	N/A
Orthophosphate (P)	mg/L		0.010	4962282	0.011	4962282	0.011	0.010	4962282	N/A
pH	pH		N/A	4962125	6.94	4962127	5.52	N/A	4962127	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L		0.50	4962271	2.3	4962271	6.1	0.50	4962271	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L		2.0	4962266	3.0	4962266	2.1	2.0	4962266	N/A
Turbidity	NTU		0.10	4962159	6.3	4962159	1.1	0.10	4962155	0.10
Conductivity	uS/cm		1.0	4962126	120	4962128	69	1.0	4962128	N/A

#### Metals

Total Aluminum (Al)	ug/L		5.0	4959500	450	4959507	360	5.0	4959500	N/A
Total Antimony (Sb)	ug/L		1.0	4959500	<1.0	4959507	<1.0	1.0	4959500	N/A
Total Arsenic (As)	ug/L		1.0	4959500	1.1	4959507	<1.0	1.0	4959500	N/A
Total Barium (Ba)	ug/L		1.0	4959500	5.9	4959507	3.0	1.0	4959500	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable

(1) Elevated reporting limit due to sample matrix.

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		EHA225			EHA226		EHA227			
Sampling Date		2017/04/25			2017/04/26		2017/04/25			
COC Number		606952-01-01			606952-01-01		606952-01-01			
	UNITS	SW5 Lab-Dup	RDL	QC Batch	SW6	QC Batch	SW7	RDL	QC Batch	MDL
Total Beryllium (Be)	ug/L		1.0	4959500	<1.0	4959507	<1.0	1.0	4959500	N/A
Total Bismuth (Bi)	ug/L		2.0	4959500	<2.0	4959507	<2.0	2.0	4959500	N/A
Total Boron (B)	ug/L		50	4959500	<50	4959507	<50	50	4959500	N/A
Total Cadmium (Cd)	ug/L		0.010	4959500	0.019	4959507	0.026	0.010	4959500	N/A
Total Calcium (Ca)	ug/L		100	4959500	3900	4959507	1600	100	4959500	N/A
Total Chromium (Cr)	ug/L		1.0	4959500	1.3	4959507	<1.0	1.0	4959500	N/A
Total Cobalt (Co)	ug/L		0.40	4959500	0.63	4959507	<0.40	0.40	4959500	N/A
Total Copper (Cu)	ug/L		2.0	4959500	3.2	4959507	<2.0	2.0	4959500	N/A
Total Iron (Fe)	ug/L		50	4959500	950	4959507	260	50	4959500	N/A
Total Lead (Pb)	ug/L		0.50	4959500	0.68	4959507	1.4	0.50	4959500	N/A
Total Magnesium (Mg)	ug/L		100	4959500	1300	4959507	1100	100	4959500	N/A
Total Manganese (Mn)	ug/L		2.0	4959500	54	4959507	14	2.0	4959500	N/A
Total Molybdenum (Mo)	ug/L		2.0	4959500	<2.0	4959507	<2.0	2.0	4959500	N/A
Total Nickel (Ni)	ug/L		2.0	4959500	<2.0	4959507	<2.0	2.0	4959500	N/A
Total Phosphorus (P)	ug/L		100	4959500	<100	4959507	<100	100	4959500	N/A
Total Potassium (K)	ug/L		100	4959500	2900	4959507	1500	100	4959500	N/A
Total Selenium (Se)	ug/L		1.0	4959500	<1.0	4959507	<1.0	1.0	4959500	N/A
Total Silver (Ag)	ug/L		0.10	4959500	<0.10	4959507	<0.10	0.10	4959500	N/A
Total Sodium (Na)	ug/L		100	4959500	16000	4959507	7600	100	4959500	N/A
Total Strontium (Sr)	ug/L		2.0	4959500	20	4959507	11	2.0	4959500	N/A
Total Thallium (Tl)	ug/L		0.10	4959500	<0.10	4959507	<0.10	0.10	4959500	N/A
Total Tin (Sn)	ug/L		2.0	4959500	<2.0	4959507	<2.0	2.0	4959500	N/A
Total Titanium (Ti)	ug/L		2.0	4959500	11	4959507	5.2	2.0	4959500	N/A
Total Uranium (U)	ug/L		0.10	4959500	<0.10	4959507	<0.10	0.10	4959500	N/A
Total Vanadium (V)	ug/L		2.0	4959500	<2.0	4959507	<2.0	2.0	4959500	N/A
Total Zinc (Zn)	ug/L		5.0	4959500	14	4959507	<5.0	5.0	4959500	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable										

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		EHA228			EHA229			EHA230			
Sampling Date		2017/04/25			2017/04/25			2017/04/25			
COC Number		606952-01-01			606952-01-01			606952-01-01			
	UNITS	SW8	RDL	QC Batch	SW9	RDL	QC Batch	SW11	RDL	QC Batch	MDL

#### Calculated Parameters

Anion Sum	me/L	0.620	N/A	4957617	1.20	N/A	4957617	0.560	N/A	4957617	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	6.6	1.0	4957614	35	1.0	4957614	<1.0	1.0	4957614	0.20
Calculated TDS	mg/L	38	1.0	4957610	180	1.0	4957610	43	1.0	4957610	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4957614	<1.0	1.0	4957614	<1.0	1.0	4957614	0.20
Cation Sum	me/L	0.740	N/A	4957617	5.28	N/A	4957617	0.670	N/A	4957617	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	17	1.0	4957615	100	1.0	4957615	3.4	1.0	4957615	1.0
Ion Balance (% Difference)	%	8.82	N/A	4957616	63.0	N/A	4957616	8.94	N/A	4957616	N/A
Langelier Index (@ 20C)	N/A	-3.64		4957608	-1.44		4957608	NC		4957608	
Langelier Index (@ 4C)	N/A	-3.89		4957609	-1.69		4957609	NC		4957609	
Nitrate (N)	mg/L	<0.050	0.050	4957618	0.099	0.050	4957618	0.11	0.050	4957618	N/A
Saturation pH (@ 20C)	N/A	9.86		4957608	8.40		4957608	NC		4957608	
Saturation pH (@ 4C)	N/A	10.1		4957609	8.65		4957609	NC		4957609	

#### Inorganics

Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	6.6	5.0	4962261	35	5.0	4962261	<5.0	5.0	4962261	N/A
Total Ammonia-N	mg/L	<0.050	0.050	4973137	0.13	0.050	4973133	<0.050	0.050	4972947	0.0080
Dissolved Chloride (Cl)	mg/L	14	1.0	4962263	17	1.0	4962263	16	1.0	4962263	N/A
Colour	TCU	200 (1)	25	4962279	350 (1)	130	4962279	720 (1)	150	4962279	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4962287	0.099	0.050	4962287	0.11	0.050	4962287	N/A
Nitrite (N)	mg/L	<0.010	0.010	4962292	<0.010	0.010	4962292	<0.010	0.010	4962292	N/A
Total Organic Carbon (C)	mg/L	17 (1)	2.5	4959592	39 (2)	25	4959592	25 (1)	5.0	4959592	N/A
Orthophosphate (P)	mg/L	0.013	0.010	4962282	0.11	0.010	4962282	0.020	0.010	4962282	N/A
pH	pH	6.22	N/A	4962127	6.97	N/A	4962127	5.07	N/A	4962127	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	<0.50	0.50	4962271	0.79	0.50	4962271	5.0	0.50	4962271	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	4.1	2.0	4962266	<2.0	2.0	4962266	4.6	2.0	4962266	N/A
Turbidity	NTU	87	0.10	4962155	120	1.0	4962155	2.7	0.10	4962155	0.10
Conductivity	uS/cm	79	1.0	4962128	130	1.0	4962128	82	1.0	4962128	N/A

#### Metals

Total Aluminum (Al)	ug/L	1200	5.0	4959500	23000	5.0	4959500	710	5.0	4959500	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4959500	<1.0	1.0	4959500	<1.0	1.0	4959500	N/A
Total Arsenic (As)	ug/L	<1.0	1.0	4959500	55	1.0	4959500	1.3	1.0	4959500	N/A
Total Barium (Ba)	ug/L	7.8	1.0	4959500	220	1.0	4959500	2.2	1.0	4959500	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) Elevated reporting limit due to sample matrix.

(2) Reporting limit was increased due to turbidity.

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		EHA228			EHA229			EHA230			
Sampling Date		2017/04/25			2017/04/25			2017/04/25			
COC Number		606952-01-01			606952-01-01			606952-01-01			
	UNITS	SW8	RDL	QC Batch	SW9	RDL	QC Batch	SW11	RDL	QC Batch	MDL
Total Beryllium (Be)	ug/L	<1.0	1.0	4959500	1.1	1.0	4959500	<1.0	1.0	4959500	N/A
Total Bismuth (Bi)	ug/L	<2.0	2.0	4959500	<2.0	2.0	4959500	<2.0	2.0	4959500	N/A
Total Boron (B)	ug/L	<50	50	4959500	<50	50	4959500	<50	50	4959500	N/A
Total Cadmium (Cd)	ug/L	0.052	0.010	4959500	1.3	0.010	4959500	0.042	0.010	4959500	N/A
Total Calcium (Ca)	ug/L	4200	100	4959500	27000	100	4959500	670	100	4959500	N/A
Total Chromium (Cr)	ug/L	2.4	1.0	4959500	40	1.0	4959500	1.1	1.0	4959500	N/A
Total Cobalt (Co)	ug/L	0.95	0.40	4959500	75	0.40	4959500	<0.40	0.40	4959500	N/A
Total Copper (Cu)	ug/L	3.4	2.0	4959500	130	2.0	4959500	<2.0	2.0	4959500	N/A
Total Iron (Fe)	ug/L	1500	50	4959500	68000	50	4959500	550	50	4959500	N/A
Total Lead (Pb)	ug/L	1.1	0.50	4959500	110	0.50	4959500	3.8	0.50	4959500	N/A
Total Magnesium (Mg)	ug/L	1700	100	4959500	8600	100	4959500	420	100	4959500	N/A
Total Manganese (Mn)	ug/L	60	2.0	4959500	10000	2.0	4959500	6.1	2.0	4959500	N/A
Total Molybdenum (Mo)	ug/L	<2.0	2.0	4959500	12	2.0	4959500	<2.0	2.0	4959500	N/A
Total Nickel (Ni)	ug/L	3.5	2.0	4959500	56	2.0	4959500	2.0	2.0	4959500	N/A
Total Phosphorus (P)	ug/L	<100	100	4959500	8200	100	4959500	<100	100	4959500	N/A
Total Potassium (K)	ug/L	1100	100	4959500	11000	100	4959500	5400	100	4959500	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	4959500	2.1	1.0	4959500	<1.0	1.0	4959500	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	4959500	0.53	0.10	4959500	<0.10	0.10	4959500	N/A
Total Sodium (Na)	ug/L	7200	100	4959500	12000	100	4959500	10000	100	4959500	N/A
Total Strontium (Sr)	ug/L	25	2.0	4959500	170	2.0	4959500	5.2	2.0	4959500	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4959500	0.41	0.10	4959500	<0.10	0.10	4959500	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	4959500	3.6	2.0	4959500	<2.0	2.0	4959500	N/A
Total Titanium (Ti)	ug/L	26	2.0	4959500	690	2.0	4959500	12	2.0	4959500	N/A
Total Uranium (U)	ug/L	<0.10	0.10	4959500	3.1	0.10	4959500	<0.10	0.10	4959500	N/A
Total Vanadium (V)	ug/L	<2.0	2.0	4959500	62	2.0	4959500	2.0	2.0	4959500	N/A
Total Zinc (Zn)	ug/L	9.5	5.0	4959500	280	5.0	4959500	<5.0	5.0	4959500	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable											

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		EHA231			EHA232			EHA233			
Sampling Date		2017/04/26			2017/04/25			2017/04/26			
COC Number		606952-01-01			606952-01-01			606952-01-01			
	UNITS	SW12	RDL	QC Batch	SW13	RDL	QC Batch	SW14	RDL	QC Batch	MDL
<b>Calculated Parameters</b>											
Anion Sum	me/L	0.400	N/A	4957617	0.280	N/A	4957617	1.20	N/A	4957617	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4957614	<1.0	1.0	4957614	6.4	1.0	4957614	0.20
Calculated TDS	mg/L	32	1.0	4957610	18	1.0	4957610	76	1.0	4957610	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4957614	<1.0	1.0	4957614	<1.0	1.0	4957614	0.20
Cation Sum	me/L	0.650	N/A	4957617	0.370	N/A	4957617	1.28	N/A	4957617	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	7.4	1.0	4957615	5.6	1.0	4957615	13	1.0	4957615	1.0
Ion Balance (% Difference)	%	23.8	N/A	4957616	13.9	N/A	4957616	3.23	N/A	4957616	N/A
Langelier Index (@ 20C)	N/A	NC		4957608	NC		4957608	-3.78		4957608	
Langelier Index (@ 4C)	N/A	NC		4957609	NC		4957609	-4.03		4957609	
Nitrate (N)	mg/L	<0.050	0.050	4957618	<0.050	0.050	4957618	0.32	0.050	4957618	N/A
Saturation pH (@ 20C)	N/A	NC		4957608	NC		4957608	10.1		4957608	
Saturation pH (@ 4C)	N/A	NC		4957609	NC		4957609	10.3		4957609	
<b>Inorganics</b>											
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	<5.0	5.0	4962261	<5.0	5.0	4962261	6.4	5.0	4962261	N/A
Total Ammonia-N	mg/L	0.23	0.050	4972947	<0.050	0.050	4972947	<0.050	0.050	4972953	0.0080
Dissolved Chloride (Cl)	mg/L	14	1.0	4962263	9.8	1.0	4962263	35	1.0	4962263	N/A
Colour	TCU	530 (1)	250	4962279	43	5.0	4962279	200 (1)	25	4962279	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4962287	<0.050	0.050	4962287	0.32	0.050	4962287	N/A
Nitrite (N)	mg/L	<0.010	0.010	4962292	<0.010	0.010	4962292	<0.010	0.010	4962292	N/A
Total Organic Carbon (C)	mg/L	34 (1)	5.0	4959592	5.5	0.50	4959592	12 (1)	2.5	4959592	N/A
Orthophosphate (P)	mg/L	0.015	0.010	4962282	<0.010	0.010	4962282	0.010	0.010	4962282	N/A
pH	pH	4.70	N/A	4962127	6.29	N/A	4962122	6.28	N/A	4962127	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	3.4	0.50	4962271	0.61	0.50	4962271	4.0	0.50	4962271	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	<2.0	2.0	4962266	<2.0	2.0	4962266	3.4	2.0	4962266	N/A
Turbidity	NTU	22	0.10	4962155	4.2	0.10	4962155	2.6	0.10	4962155	0.10
Conductivity	uS/cm	63	1.0	4962128	45	1.0	4962123	150	1.0	4962128	N/A
<b>Metals</b>											
Total Aluminum (Al)	ug/L	1100	5.0	4959500	180	5.0	4959500	410	5.0	4959500	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4959500	<1.0	1.0	4959500	<1.0	1.0	4959500	N/A
Total Arsenic (As)	ug/L	1.4	1.0	4959500	<1.0	1.0	4959500	<1.0	1.0	4959500	N/A
Total Barium (Ba)	ug/L	9.6	1.0	4959500	3.8	1.0	4959500	4.8	1.0	4959500	N/A
Total Beryllium (Be)	ug/L	<1.0	1.0	4959500	<1.0	1.0	4959500	<1.0	1.0	4959500	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Elevated reporting limit due to sample matrix.											



### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		EHA231			EHA232			EHA233			
Sampling Date		2017/04/26			2017/04/25			2017/04/26			
COC Number		606952-01-01			606952-01-01			606952-01-01			
	UNITS	SW12	RDL	QC Batch	SW13	RDL	QC Batch	SW14	RDL	QC Batch	MDL
Total Bismuth (Bi)	ug/L	<2.0	2.0	4959500	<2.0	2.0	4959500	<2.0	2.0	4959500	N/A
Total Boron (B)	ug/L	<50	50	4959500	<50	50	4959500	<50	50	4959500	N/A
Total Cadmium (Cd)	ug/L	0.093	0.010	4959500	0.016	0.010	4959500	0.021	0.010	4959500	N/A
Total Calcium (Ca)	ug/L	1100	100	4959500	880	100	4959500	2800	100	4959500	N/A
Total Chromium (Cr)	ug/L	1.5	1.0	4959500	<1.0	1.0	4959500	3.8	1.0	4959500	N/A
Total Cobalt (Co)	ug/L	1.3	0.40	4959500	<0.40	0.40	4959500	0.50	0.40	4959500	N/A
Total Copper (Cu)	ug/L	2.7	2.0	4959500	<2.0	2.0	4959500	2.2	2.0	4959500	N/A
Total Iron (Fe)	ug/L	4000	50	4959500	350	50	4959500	750	50	4959500	N/A
Total Lead (Pb)	ug/L	2.5	0.50	4959500	<0.50	0.50	4959500	1.1	0.50	4959500	N/A
Total Magnesium (Mg)	ug/L	1100	100	4959500	820	100	4959500	1500	100	4959500	N/A
Total Manganese (Mn)	ug/L	36	2.0	4959500	16	2.0	4959500	22	2.0	4959500	N/A
Total Molybdenum (Mo)	ug/L	<2.0	2.0	4959500	<2.0	2.0	4959500	<2.0	2.0	4959500	N/A
Total Nickel (Ni)	ug/L	3.2	2.0	4959500	<2.0	2.0	4959500	<2.0	2.0	4959500	N/A
Total Phosphorus (P)	ug/L	390	100	4959500	<100	100	4959500	<100	100	4959500	N/A
Total Potassium (K)	ug/L	1100	100	4959500	460	100	4959500	2600	100	4959500	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	4959500	<1.0	1.0	4959500	<1.0	1.0	4959500	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	4959500	<0.10	0.10	4959500	<0.10	0.10	4959500	N/A
Total Sodium (Na)	ug/L	6800	100	4959500	5300	100	4959500	20000	100	4959500	N/A
Total Strontium (Sr)	ug/L	11	2.0	4959500	8.6	2.0	4959500	19	2.0	4959500	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4959500	<0.10	0.10	4959500	<0.10	0.10	4959500	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	4959500	<2.0	2.0	4959500	<2.0	2.0	4959500	N/A
Total Titanium (Ti)	ug/L	12	2.0	4959500	4.0	2.0	4959500	8.1	2.0	4959500	N/A
Total Uranium (U)	ug/L	<0.10	0.10	4959500	<0.10	0.10	4959500	<0.10	0.10	4959500	N/A
Total Vanadium (V)	ug/L	2.1	2.0	4959500	<2.0	2.0	4959500	<2.0	2.0	4959500	N/A
Total Zinc (Zn)	ug/L	11	5.0	4959500	<5.0	5.0	4959500	<5.0	5.0	4959500	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable											

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		EHA234			EHA235			EHA236			
Sampling Date		2017/04/26			2017/04/26			2017/04/25			
COC Number		606952-01-01			606952-01-01			606952-01-01			
	UNITS	SW15	RDL	QC Batch	SW16	RDL	QC Batch	SW-DUP1	RDL	QC Batch	MDL

#### Calculated Parameters

Anion Sum	me/L	1.52	N/A	4957617	0.700	N/A	4957617	1.19	N/A	4957617	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	5.3	1.0	4957614	5.3	1.0	4957614	34	1.0	4957614	0.20
Calculated TDS	mg/L	89	1.0	4957610	46	1.0	4957610	210	1.0	4957610	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4957614	<1.0	1.0	4957614	<1.0	1.0	4957614	0.20
Cation Sum	me/L	1.40	N/A	4957617	0.820	N/A	4957617	6.41	N/A	4957617	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	22	1.0	4957615	15	1.0	4957615	130	1.0	4957615	1.0
Ion Balance (% Difference)	%	4.11	N/A	4957616	7.89	N/A	4957616	68.7	N/A	4957616	N/A
Langelier Index (@ 20C)	N/A	-3.95		4957608	-4.13		4957608	-1.33		4957608	
Langelier Index (@ 4C)	N/A	-4.20		4957609	-4.39		4957609	-1.58		4957609	
Nitrate (N)	mg/L	0.056	0.050	4957618	0.060	0.050	4957618	0.15	0.050	4957618	N/A
Saturation pH (@ 20C)	N/A	9.93		4957608	10.1		4957608	8.31		4957608	
Saturation pH (@ 4C)	N/A	10.2		4957609	10.3		4957609	8.56		4957609	

#### Inorganics

Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	5.3	5.0	4962261	5.3	5.0	4962261	34	5.0	4962261	N/A
Total Ammonia-N	mg/L	<0.050	0.050	4972947	<0.050	0.050	4972947	0.19	0.050	4972953	0.0080
Dissolved Chloride (Cl)	mg/L	46	1.0	4962263	21	1.0	4962263	17	1.0	4962263	N/A
Colour	TCU	10	5.0	4962279	140 (1)	25	4962279	340 (1)	100	4962279	N/A
Nitrate + Nitrite (N)	mg/L	0.056	0.050	4962287	0.060	0.050	4962287	0.15	0.050	4962287	N/A
Nitrite (N)	mg/L	<0.010	0.010	4962292	<0.010	0.010	4962292	<0.010	0.010	4962292	N/A
Total Organic Carbon (C)	mg/L	3.2	0.50	4959592	13 (2)	5.0	4959592	<50 (2)	50	4959592	N/A
Orthophosphate (P)	mg/L	<0.010	0.010	4962282	0.011	0.010	4962282	0.099	0.010	4962282	N/A
pH	pH	5.98	N/A	4962127	5.94	N/A	4962125	6.98	N/A	4962127	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	4.3	0.50	4962271	4.0	0.50	4962271	0.80	0.50	4962271	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	5.5	2.0	4962266	<2.0	2.0	4962266	<2.0	2.0	4962266	N/A
Turbidity	NTU	6.9	0.10	4962155	14	0.10	4962155	120	1.0	4962155	0.10
Conductivity	uS/cm	170	1.0	4962128	88	1.0	4962126	130	1.0	4962128	N/A

#### Metals

Total Aluminum (Al)	ug/L	510	5.0	4959507	330	5.0	4959500	28000	5.0	4959500	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4959507	<1.0	1.0	4959500	<1.0	1.0	4959500	N/A
Total Arsenic (As)	ug/L	<1.0	1.0	4959507	<1.0	1.0	4959500	66	1.0	4959500	N/A
Total Barium (Ba)	ug/L	7.7	1.0	4959507	9.4	1.0	4959500	290	1.0	4959500	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) Elevated reporting limit due to sample matrix.

(2) Reporting limit was increased due to turbidity.

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		EHA234			EHA235			EHA236			
Sampling Date		2017/04/26			2017/04/26			2017/04/25			
COC Number		606952-01-01			606952-01-01			606952-01-01			
	UNITS	SW15	RDL	QC Batch	SW16	RDL	QC Batch	SW-DUP1	RDL	QC Batch	MDL
Total Beryllium (Be)	ug/L	<1.0	1.0	4959507	<1.0	1.0	4959500	1.4	1.0	4959500	N/A
Total Bismuth (Bi)	ug/L	<2.0	2.0	4959507	<2.0	2.0	4959500	<2.0	2.0	4959500	N/A
Total Boron (B)	ug/L	<50	50	4959507	<50	50	4959500	<50	50	4959500	N/A
Total Cadmium (Cd)	ug/L	0.030	0.010	4959507	0.036	0.010	4959500	1.9	0.010	4959500	N/A
Total Calcium (Ca)	ug/L	4800	100	4959507	3200	100	4959500	35000	100	4959500	N/A
Total Chromium (Cr)	ug/L	<1.0	1.0	4959507	<1.0	1.0	4959500	46	1.0	4959500	N/A
Total Cobalt (Co)	ug/L	1.3	0.40	4959507	0.60	0.40	4959500	100	0.40	4959500	N/A
Total Copper (Cu)	ug/L	<2.0	2.0	4959507	2.1	2.0	4959500	160	2.0	4959500	N/A
Total Iron (Fe)	ug/L	790	50	4959507	460	50	4959500	84000	50	4959500	N/A
Total Lead (Pb)	ug/L	<0.50	0.50	4959507	2.1	0.50	4959500	140	0.50	4959500	N/A
Total Magnesium (Mg)	ug/L	2500	100	4959507	1600	100	4959500	9800	100	4959500	N/A
Total Manganese (Mn)	ug/L	81	2.0	4959507	64	2.0	4959500	14000	2.0	4959500	N/A
Total Molybdenum (Mo)	ug/L	<2.0	2.0	4959507	<2.0	2.0	4959500	13	2.0	4959500	N/A
Total Nickel (Ni)	ug/L	<2.0	2.0	4959507	<2.0	2.0	4959500	69	2.0	4959500	N/A
Total Phosphorus (P)	ug/L	<100	100	4959507	390	100	4959500	10000	100	4959500	N/A
Total Potassium (K)	ug/L	750	100	4959507	1700	100	4959500	12000	100	4959500	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	4959507	<1.0	1.0	4959500	2.2	1.0	4959500	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	4959507	<0.10	0.10	4959500	0.58	0.10	4959500	N/A
Total Sodium (Na)	ug/L	21000	100	4959507	11000	100	4959500	12000	100	4959500	N/A
Total Strontium (Sr)	ug/L	32	2.0	4959507	24	2.0	4959500	230	2.0	4959500	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4959507	<0.10	0.10	4959500	0.52	0.10	4959500	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	4959507	<2.0	2.0	4959500	4.4	2.0	4959500	N/A
Total Titanium (Ti)	ug/L	9.5	2.0	4959507	5.5	2.0	4959500	780	2.0	4959500	N/A
Total Uranium (U)	ug/L	<0.10	0.10	4959507	<0.10	0.10	4959500	3.8	0.10	4959500	N/A
Total Vanadium (V)	ug/L	<2.0	2.0	4959507	<2.0	2.0	4959500	79	2.0	4959500	N/A
Total Zinc (Zn)	ug/L	5.7	5.0	4959507	5.5	5.0	4959500	380	5.0	4959500	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable											

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		EHA237	EHA237			EHA238			
Sampling Date		2017/04/25	2017/04/25			2017/04/25			
COC Number		606952-01-01	606952-01-01			606952-01-01			
	UNITS	SW-DUP2	SW-DUP2 Lab-Dup	RDL	QC Batch	P1A	RDL	QC Batch	MDL
<b>Calculated Parameters</b>									
Anion Sum	me/L	0.580		N/A	4957617	1.11	N/A	4957617	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0		1.0	4957614	30	1.0	4957614	0.20
Calculated TDS	mg/L	40		1.0	4957610	85	1.0	4957610	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0		1.0	4957614	<1.0	1.0	4957614	0.20
Cation Sum	me/L	0.760		N/A	4957617	1.87	N/A	4957617	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	11		1.0	4957615	32	1.0	4957615	1.0
Ion Balance (% Difference)	%	13.4		N/A	4957616	25.5	N/A	4957616	N/A
Langelier Index (@ 20C)	N/A	NC			4957608	-2.79		4957608	
Langelier Index (@ 4C)	N/A	NC			4957609	-3.04		4957609	
Nitrate (N)	mg/L	<0.050		0.050	4957618	<0.050	0.050	4957618	N/A
Saturation pH (@ 20C)	N/A	NC			4957608	8.92		4957608	
Saturation pH (@ 4C)	N/A	NC			4957609	9.17		4957609	
<b>Inorganics</b>									
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	<5.0	<5.0	5.0	4962307	30	5.0	4962307	N/A
Total Ammonia-N	mg/L	<0.050		0.050	4972953	0.26	0.050	4972953	0.0080
Dissolved Chloride (Cl)	mg/L	21	21	1.0	4962319	16	1.0	4962319	N/A
Colour	TCU	120 (1)	130 (1)	25	4962336	540 (1)	250	4962336	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	<0.050	0.050	4962343	<0.050	0.050	4962343	N/A
Nitrite (N)	mg/L	<0.010	<0.010	0.010	4962344	<0.010	0.010	4962344	N/A
Total Organic Carbon (C)	mg/L	11		0.50	4959696	52 (1)	5.0	4959696	N/A
Orthophosphate (P)	mg/L	<0.010	0.012	0.010	4962341	0.030	0.010	4962341	N/A
pH	pH	5.86	5.96	N/A	4962127	6.13	N/A	4962127	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	2.6	2.7	0.50	4962331	2.8	0.50	4962331	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	<2.0	<2.0	2.0	4962327	2.5	2.0	4962327	N/A
Turbidity	NTU	1.2	1.4	0.10	4962155	47	0.10	4962159	0.10
Conductivity	uS/cm	89	89	1.0	4962128	120	1.0	4962128	N/A
<b>Metals</b>									
Total Aluminum (Al)	ug/L	310		5.0	4959500	1200	5.0	4959500	N/A
Total Antimony (Sb)	ug/L	<1.0		1.0	4959500	<1.0	1.0	4959500	N/A
Total Arsenic (As)	ug/L	<1.0		1.0	4959500	22	1.0	4959500	N/A
Total Barium (Ba)	ug/L	7.0		1.0	4959500	49	1.0	4959500	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Elevated reporting limit due to sample matrix.									

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		EHA237	EHA237			EHA238			
Sampling Date		2017/04/25	2017/04/25			2017/04/25			
COC Number		606952-01-01	606952-01-01			606952-01-01			
	UNITS	SW-DUP2	SW-DUP2 Lab-Dup	RDL	QC Batch	P1A	RDL	QC Batch	MDL
Total Beryllium (Be)	ug/L	<1.0		1.0	4959500	<1.0	1.0	4959500	N/A
Total Bismuth (Bi)	ug/L	<2.0		2.0	4959500	<2.0	2.0	4959500	N/A
Total Boron (B)	ug/L	<50		50	4959500	<50	50	4959500	N/A
Total Cadmium (Cd)	ug/L	0.017		0.010	4959500	0.068	0.010	4959500	N/A
Total Calcium (Ca)	ug/L	2000		100	4959500	8500	100	4959500	N/A
Total Chromium (Cr)	ug/L	1.6		1.0	4959500	3.2	1.0	4959500	N/A
Total Cobalt (Co)	ug/L	<0.40		0.40	4959500	2.8	0.40	4959500	N/A
Total Copper (Cu)	ug/L	<2.0		2.0	4959500	4.9	2.0	4959500	N/A
Total Iron (Fe)	ug/L	350		50	4959500	17000	50	4959500	N/A
Total Lead (Pb)	ug/L	0.50		0.50	4959500	6.6	0.50	4959500	N/A
Total Magnesium (Mg)	ug/L	1300		100	4959500	2600	100	4959500	N/A
Total Manganese (Mn)	ug/L	11		2.0	4959500	510	2.0	4959500	N/A
Total Molybdenum (Mo)	ug/L	<2.0		2.0	4959500	<2.0	2.0	4959500	N/A
Total Nickel (Ni)	ug/L	<2.0		2.0	4959500	3.7	2.0	4959500	N/A
Total Phosphorus (P)	ug/L	<100		100	4959500	980	100	4959500	N/A
Total Potassium (K)	ug/L	1100		100	4959500	7500	100	4959500	N/A
Total Selenium (Se)	ug/L	<1.0		1.0	4959500	<1.0	1.0	4959500	N/A
Total Silver (Ag)	ug/L	<0.10		0.10	4959500	<0.10	0.10	4959500	N/A
Total Sodium (Na)	ug/L	10000		100	4959500	9600	100	4959500	N/A
Total Strontium (Sr)	ug/L	14		2.0	4959500	43	2.0	4959500	N/A
Total Thallium (Tl)	ug/L	<0.10		0.10	4959500	<0.10	0.10	4959500	N/A
Total Tin (Sn)	ug/L	<2.0		2.0	4959500	<2.0	2.0	4959500	N/A
Total Titanium (Ti)	ug/L	5.7		2.0	4959500	23	2.0	4959500	N/A
Total Uranium (U)	ug/L	<0.10		0.10	4959500	0.14	0.10	4959500	N/A
Total Vanadium (V)	ug/L	<2.0		2.0	4959500	5.5	2.0	4959500	N/A
Total Zinc (Zn)	ug/L	5.2		5.0	4959500	59	5.0	4959500	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable									

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		EHA239			EHA240			EHA241			
Sampling Date		2017/04/25			2017/04/25			2017/04/25			
COC Number		606952-01-01			606952-01-01			606952-01-01			
	UNITS	P1B	RDL	QC Batch	P2A	RDL	QC Batch	P2B	RDL	QC Batch	MDL
<b>Calculated Parameters</b>											
Anion Sum	me/L	0.590	N/A	4957617	2.38	N/A	4957617	0.520	N/A	4957617	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4957614	80	1.0	4957614	<1.0	1.0	4957614	0.20
Calculated TDS	mg/L	46	1.0	4957610	150	1.0	4957610	40	1.0	4957610	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4957614	<1.0	1.0	4957614	<1.0	1.0	4957614	0.20
Cation Sum	me/L	0.990	N/A	4957617	2.71	N/A	4957617	0.800	N/A	4957617	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	17	1.0	4957615	54	1.0	4957615	12	1.0	4957615	1.0
Ion Balance (% Difference)	%	25.3	N/A	4957616	6.48	N/A	4957616	21.2	N/A	4957616	N/A
Langelier Index (@ 20C)	N/A	NC		4957608	-1.57		4957608	NC		4957608	
Langelier Index (@ 4C)	N/A	NC		4957609	-1.82		4957609	NC		4957609	
Nitrate (N)	mg/L	<0.050	0.050	4957618	<0.050	0.050	4957618	0.081	0.050	4957618	N/A
Saturation pH (@ 20C)	N/A	NC		4957608	8.29		4957608	NC		4957608	
Saturation pH (@ 4C)	N/A	NC		4957609	8.54		4957609	NC		4957609	
<b>Inorganics</b>											
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	<5.0	5.0	4962307	80	5.0	4962307	<5.0	5.0	4962307	N/A
Total Ammonia-N	mg/L	0.41	0.050	4972953	<0.050	0.050	4972947	<0.050	0.050	4972953	0.0080
Dissolved Chloride (Cl)	mg/L	21	1.0	4962319	25	1.0	4962319	18	1.0	4962319	N/A
Colour	TCU	310 (1)	100	4962336	310 (1)	130	4962336	540 (1)	150	4962336	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4962343	<0.050	0.050	4962343	0.081	0.050	4962343	N/A
Nitrite (N)	mg/L	<0.010	0.010	4962344	<0.010	0.010	4962344	<0.010	0.010	4962344	N/A
Total Organic Carbon (C)	mg/L	20 (1)	5.0	4959696	34 (1)	5.0	4959696	22 (1)	5.0	4959696	N/A
Orthophosphate (P)	mg/L	0.016	0.010	4962341	0.032	0.010	4962341	0.040	0.010	4962341	N/A
pH	pH	5.18	N/A	4962127	6.72	N/A	4962127	5.98	N/A	4962125	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	4.0	0.50	4962331	5.2	0.50	4962331	2.8	0.50	4962331	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	<2.0	2.0	4962327	3.3	2.0	4962327	<2.0	2.0	4962327	N/A
Turbidity	NTU	330	1.0	4962155	25	0.10	4962155	2.7	0.10	4962159	0.10
Conductivity	uS/cm	88	1.0	4962128	240	1.0	4962128	82	1.0	4962126	N/A
<b>Metals</b>											
Total Aluminum (Al)	ug/L	2200	5.0	4959500	840	5.0	4959507	410	5.0	4959507	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4959500	<1.0	1.0	4959507	<1.0	1.0	4959507	N/A
Total Arsenic (As)	ug/L	1.4	1.0	4959500	2.3	1.0	4959507	1.3	1.0	4959507	N/A
Total Barium (Ba)	ug/L	35	1.0	4959500	15	1.0	4959507	8.1	1.0	4959507	N/A
Total Beryllium (Be)	ug/L	<1.0	1.0	4959500	<1.0	1.0	4959507	<1.0	1.0	4959507	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Elevated reporting limit due to sample matrix.											



### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		EHA239			EHA240			EHA241			
Sampling Date		2017/04/25			2017/04/25			2017/04/25			
COC Number		606952-01-01			606952-01-01			606952-01-01			
	UNITS	P1B	RDL	QC Batch	P2A	RDL	QC Batch	P2B	RDL	QC Batch	MDL
Total Bismuth (Bi)	ug/L	<2.0	2.0	4959500	<2.0	2.0	4959507	<2.0	2.0	4959507	N/A
Total Boron (B)	ug/L	<50	50	4959500	<50	50	4959507	<50	50	4959507	N/A
Total Cadmium (Cd)	ug/L	0.24	0.010	4959500	0.060	0.010	4959507	0.046	0.010	4959507	N/A
Total Calcium (Ca)	ug/L	3000	100	4959500	15000	100	4959507	2900	100	4959507	N/A
Total Chromium (Cr)	ug/L	2.6	1.0	4959500	2.5	1.0	4959507	1.5	1.0	4959507	N/A
Total Cobalt (Co)	ug/L	2.2	0.40	4959500	3.2	0.40	4959507	0.48	0.40	4959507	N/A
Total Copper (Cu)	ug/L	6.9	2.0	4959500	5.4	2.0	4959507	4.2	2.0	4959507	N/A
Total Iron (Fe)	ug/L	4200	50	4959500	10000	50	4959507	2000	50	4959507	N/A
Total Lead (Pb)	ug/L	7.5	0.50	4959500	1.7	0.50	4959507	0.97	0.50	4959507	N/A
Total Magnesium (Mg)	ug/L	2300	100	4959500	4100	100	4959507	1200	100	4959507	N/A
Total Manganese (Mn)	ug/L	52	2.0	4959500	540	2.0	4959507	69	2.0	4959507	N/A
Total Molybdenum (Mo)	ug/L	<2.0	2.0	4959500	3.5	2.0	4959507	<2.0	2.0	4959507	N/A
Total Nickel (Ni)	ug/L	5.1	2.0	4959500	3.4	2.0	4959507	<2.0	2.0	4959507	N/A
Total Phosphorus (P)	ug/L	1800	100	4959500	290	100	4959507	130	100	4959507	N/A
Total Potassium (K)	ug/L	2000	100	4959500	15000	100	4959507	3500	100	4959507	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	4959500	<1.0	1.0	4959507	<1.0	1.0	4959507	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	4959500	<0.10	0.10	4959507	<0.10	0.10	4959507	N/A
Total Sodium (Na)	ug/L	9700	100	4959500	20000	100	4959507	8900	100	4959507	N/A
Total Strontium (Sr)	ug/L	29	2.0	4959500	63	2.0	4959507	17	2.0	4959507	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4959500	<0.10	0.10	4959507	<0.10	0.10	4959507	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	4959500	<2.0	2.0	4959507	<2.0	2.0	4959507	N/A
Total Titanium (Ti)	ug/L	27	2.0	4959500	20	2.0	4959507	12	2.0	4959507	N/A
Total Uranium (U)	ug/L	0.12	0.10	4959500	<0.10	0.10	4959507	<0.10	0.10	4959507	N/A
Total Vanadium (V)	ug/L	2.7	2.0	4959500	3.1	2.0	4959507	<2.0	2.0	4959507	N/A
Total Zinc (Zn)	ug/L	19	5.0	4959500	12	5.0	4959507	12	5.0	4959507	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable											

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		EHA242			EHA243			
Sampling Date		2017/04/25			2017/04/25			
COC Number		606952-01-01			606952-01-01			
	UNITS	P3	RDL	QC Batch	BACK2	RDL	QC Batch	MDL
<b>Calculated Parameters</b>								
Anion Sum	me/L	0.770	N/A	4957617	0.640	N/A	4957617	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	10	1.0	4957614	<1.0	1.0	4957614	0.20
Calculated TDS	mg/L	95	1.0	4957610	43	1.0	4957610	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4957614	<1.0	1.0	4957614	0.20
Cation Sum	me/L	3.02	N/A	4957617	0.750	N/A	4957617	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	88	1.0	4957615	11	1.0	4957615	1.0
Ion Balance (% Difference)	%	59.4	N/A	4957616	7.91	N/A	4957616	N/A
Langelier Index (@ 20C)	N/A	-2.92		4957608	NC		4957608	
Langelier Index (@ 4C)	N/A	-3.17		4957609	NC		4957609	
Nitrate (N)	mg/L	<0.050	0.050	4957618	<0.050	0.050	4957618	N/A
Saturation pH (@ 20C)	N/A	8.93		4957608	NC		4957608	
Saturation pH (@ 4C)	N/A	9.18		4957609	NC		4957609	
<b>Inorganics</b>								
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	10	5.0	4962307	<5.0	5.0	4962307	N/A
Total Ammonia-N	mg/L	0.15	0.050	4973879	<0.050	0.050	4972947	0.0080
Dissolved Chloride (Cl)	mg/L	18	1.0	4962319	21	1.0	4962319	N/A
Colour	TCU	360 (1)	130	4962336	130 (1)	25	4962336	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4962343	<0.050	0.050	4962343	N/A
Nitrite (N)	mg/L	<0.010	0.010	4962344	<0.010	0.010	4962344	N/A
Total Organic Carbon (C)	mg/L	<50 (2)	50	4959696	11	0.50	4959696	N/A
Orthophosphate (P)	mg/L	0.031	0.010	4962341	<0.010	0.010	4962341	N/A
pH	pH	6.01	N/A	4962127	6.16	N/A	4962127	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	1.2	0.50	4962331	2.9	0.50	4962331	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	2.9	2.0	4962327	2.2	2.0	4962327	N/A
Turbidity	NTU	390	1.0	4962155	0.75	0.10	4962155	0.10
Conductivity	uS/cm	91	1.0	4962128	88	1.0	4962128	N/A
<b>Metals</b>								
Total Aluminum (Al)	ug/L	14000	5.0	4959507	310	5.0	4959500	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4959507	<1.0	1.0	4959500	N/A
Total Arsenic (As)	ug/L	12	1.0	4959507	<1.0	1.0	4959500	N/A
Total Barium (Ba)	ug/L	160	1.0	4959507	7.2	1.0	4959500	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Elevated reporting limit due to sample matrix. (2) Reporting limit was increased due to turbidity.								

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (WATER)

Maxxam ID		EHA242			EHA243			
Sampling Date		2017/04/25			2017/04/25			
COC Number		606952-01-01			606952-01-01			
	UNITS	P3	RDL	QC Batch	BACK2	RDL	QC Batch	MDL
Total Beryllium (Be)	ug/L	<1.0	1.0	4959507	<1.0	1.0	4959500	N/A
Total Bismuth (Bi)	ug/L	<2.0	2.0	4959507	<2.0	2.0	4959500	N/A
Total Boron (B)	ug/L	<50	50	4959507	<50	50	4959500	N/A
Total Cadmium (Cd)	ug/L	0.81	0.010	4959507	0.016	0.010	4959500	N/A
Total Calcium (Ca)	ug/L	25000	100	4959507	2000	100	4959500	N/A
Total Chromium (Cr)	ug/L	13	1.0	4959507	1.5	1.0	4959500	N/A
Total Cobalt (Co)	ug/L	6.0	0.40	4959507	<0.40	0.40	4959500	N/A
Total Copper (Cu)	ug/L	35	2.0	4959507	<2.0	2.0	4959500	N/A
Total Iron (Fe)	ug/L	18000	50	4959507	340	50	4959500	N/A
Total Lead (Pb)	ug/L	47	0.50	4959507	<0.50	0.50	4959500	N/A
Total Magnesium (Mg)	ug/L	6200	100	4959507	1400	100	4959500	N/A
Total Manganese (Mn)	ug/L	380	2.0	4959507	9.5	2.0	4959500	N/A
Total Molybdenum (Mo)	ug/L	4.6	2.0	4959507	<2.0	2.0	4959500	N/A
Total Nickel (Ni)	ug/L	20	2.0	4959507	<2.0	2.0	4959500	N/A
Total Phosphorus (P)	ug/L	5200	100	4959507	<100	100	4959500	N/A
Total Potassium (K)	ug/L	7600	100	4959507	1100	100	4959500	N/A
Total Selenium (Se)	ug/L	2.6	1.0	4959507	<1.0	1.0	4959500	N/A
Total Silver (Ag)	ug/L	0.61	0.10	4959507	<0.10	0.10	4959500	N/A
Total Sodium (Na)	ug/L	9300	100	4959507	11000	100	4959500	N/A
Total Strontium (Sr)	ug/L	150	2.0	4959507	13	2.0	4959500	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4959507	<0.10	0.10	4959500	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	4959507	<2.0	2.0	4959500	N/A
Total Titanium (Ti)	ug/L	230	2.0	4959507	6.2	2.0	4959500	N/A
Total Uranium (U)	ug/L	1.2	0.10	4959507	<0.10	0.10	4959500	N/A
Total Vanadium (V)	ug/L	16	2.0	4959507	<2.0	2.0	4959500	N/A
Total Zinc (Zn)	ug/L	94	5.0	4959507	<5.0	5.0	4959500	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable								

Maxxam Job #: B784266  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

### RESULTS OF ANALYSES OF WATER

<b>Maxxam ID</b>		EHA221		EHA222			EHA223		EHA233			
<b>Sampling Date</b>		2017/04/26		2017/04/25			2017/04/25		2017/04/26			
<b>COC Number</b>		606952-01-01		606952-01-01			606952-01-01		606952-01-01			
	<b>UNITS</b>	<b>SW1</b>	<b>RDL</b>	<b>SW2</b>	<b>RDL</b>	<b>QC Batch</b>	<b>SW3</b>	<b>RDL</b>	<b>SW14</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Inorganics

Total Suspended Solids	mg/L	28	5.0	<2.0	2.0	4962153	370	5.0	25	2.0	4962351	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

<b>Maxxam ID</b>		EHA237	EHA243			
<b>Sampling Date</b>		2017/04/25	2017/04/25			
<b>COC Number</b>		606952-01-01	606952-01-01			
	<b>UNITS</b>	<b>SW-DUP2</b>	<b>BACK2</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Inorganics

Total Suspended Solids	mg/L	<1.0	<1.0	1.0	4962351	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

### MERCURY BY COLD VAPOUR AA (WATER)

<b>Maxxam ID</b>		EHA221	EHA222	EHA223	EHA224	EHA225	EHA226			
<b>Sampling Date</b>		2017/04/26	2017/04/25	2017/04/25	2017/04/26	2017/04/25	2017/04/26			
<b>COC Number</b>		606952-01-01	606952-01-01	606952-01-01	606952-01-01	606952-01-01	606952-01-01			
	<b>UNITS</b>	<b>SW1</b>	<b>SW2</b>	<b>SW3</b>	<b>SW4</b>	<b>SW5</b>	<b>SW6</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Metals

Total Mercury (Hg)	ug/L	0.028	0.015	0.033	0.015	0.017	<0.013	0.013	4959501	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

<b>Maxxam ID</b>		EHA227	EHA228	EHA228	EHA229	EHA230	EHA231			
<b>Sampling Date</b>		2017/04/25	2017/04/25	2017/04/25	2017/04/25	2017/04/25	2017/04/26			
<b>COC Number</b>		606952-01-01	606952-01-01	606952-01-01	606952-01-01	606952-01-01	606952-01-01			
	<b>UNITS</b>	<b>SW7</b>	<b>SW8</b>	<b>SW8 Lab-Dup</b>	<b>SW9</b>	<b>SW11</b>	<b>SW12</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Metals

Total Mercury (Hg)	ug/L	0.013	0.013	<0.013	0.24	0.030	0.055	0.013	4959501	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable

<b>Maxxam ID</b>		EHA232	EHA233	EHA234	EHA235	EHA236	EHA237			
<b>Sampling Date</b>		2017/04/25	2017/04/26	2017/04/26	2017/04/26	2017/04/25	2017/04/25			
<b>COC Number</b>		606952-01-01	606952-01-01	606952-01-01	606952-01-01	606952-01-01	606952-01-01			
	<b>UNITS</b>	<b>SW13</b>	<b>SW14</b>	<b>SW15</b>	<b>SW16</b>	<b>SW-DUP1</b>	<b>SW-DUP2</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Metals

Total Mercury (Hg)	ug/L	<0.013	0.013	<0.013	0.055	0.24	<0.013	0.013	4959501	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

<b>Maxxam ID</b>		EHA238	EHA239	EHA240		EHA241	EHA242			
<b>Sampling Date</b>		2017/04/25	2017/04/25	2017/04/25		2017/04/25	2017/04/25			
<b>COC Number</b>		606952-01-01	606952-01-01	606952-01-01		606952-01-01	606952-01-01			
	<b>UNITS</b>	<b>P1A</b>	<b>P1B</b>	<b>P2A</b>	<b>QC Batch</b>	<b>P2B</b>	<b>P3</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

#### Metals

Total Mercury (Hg)	ug/L	0.028	0.042	0.057	4959501	0.030	0.90	0.013	4959901	N/A
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RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

Maxxam Job #: B784266  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

### MERCURY BY COLD VAPOUR AA (WATER)

<b>Maxxam ID</b>		EHA243	EHA243			
<b>Sampling Date</b>		2017/04/25	2017/04/25			
<b>COC Number</b>		606952-01-01	606952-01-01			
	<b>UNITS</b>	<b>BACK2</b>	<b>BACK2 Lab-Dup</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Metals</b>						
Total Mercury (Hg)	ug/L	<0.013	<0.013	0.013	4959901	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable						



### ELEMENTS BY ICP/MS (WATER)

Maxxam ID		EHA221	EHA222	EHA223	EHA233	EHA237			
Sampling Date		2017/04/26	2017/04/25	2017/04/25	2017/04/26	2017/04/25			
COC Number		606952-01-01	606952-01-01	606952-01-01	606952-01-01	606952-01-01			
	UNITS	SW1	SW2	SW3	SW14	SW-DUP2	RDL	QC Batch	MDL
<b>Metals</b>									
Dissolved Aluminum (Al)	ug/L	590	380	610	360	310	5.0	4962508	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4962508	N/A
Dissolved Arsenic (As)	ug/L	1.1	<1.0	2.0	<1.0	<1.0	1.0	4962508	N/A
Dissolved Barium (Ba)	ug/L	2.7	3.0	8.7	4.5	6.7	1.0	4962508	N/A
Dissolved Beryllium (Be)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4962508	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4962508	N/A
Dissolved Boron (B)	ug/L	<50	<50	<50	<50	<50	50	4962508	N/A
Dissolved Cadmium (Cd)	ug/L	0.035	0.029	0.037	0.017	0.019	0.010	4962508	N/A
Dissolved Calcium (Ca)	ug/L	1000	1500	7200	2900	2100	100	4962508	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	2.5	1.7	<1.0	1.0	4962508	N/A
Dissolved Cobalt (Co)	ug/L	<0.40	<0.40	1.3	<0.40	<0.40	0.40	4962508	N/A
Dissolved Copper (Cu)	ug/L	<2.0	<2.0	3.0	<2.0	<2.0	2.0	4962508	N/A
Dissolved Iron (Fe)	ug/L	550	290	2100	530	330	50	4962508	N/A
Dissolved Lead (Pb)	ug/L	2.9	1.4	0.98	0.68	<0.50	0.50	4962508	N/A
Dissolved Magnesium (Mg)	ug/L	560	1100	2200	1500	1400	100	4962508	N/A
Dissolved Manganese (Mn)	ug/L	15	15	230	11	9.1	2.0	4962508	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4962508	N/A
Dissolved Nickel (Ni)	ug/L	<2.0	<2.0	3.2	<2.0	<2.0	2.0	4962508	N/A
Dissolved Phosphorus (P)	ug/L	<100	<100	<100	<100	<100	100	4962508	N/A
Dissolved Potassium (K)	ug/L	4100	1500	7500	2600	1100	100	4962508	N/A
Dissolved Selenium (Se)	ug/L	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	4962508	N/A
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	4962508	N/A
Dissolved Sodium (Na)	ug/L	11000	8200	12000	21000	11000	100	4962508	N/A
Dissolved Strontium (Sr)	ug/L	7.2	10	34	20	13	2.0	4962508	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	4962508	N/A
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4962508	N/A
Dissolved Titanium (Ti)	ug/L	7.9	3.8	10	5.1	5.2	2.0	4962508	N/A
Dissolved Uranium (U)	ug/L	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	4962508	N/A
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	4962508	N/A
Dissolved Zinc (Zn)	ug/L	9.1	8.0	32	6.4	5.8	5.0	4962508	N/A
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
N/A = Not Applicable									

### ELEMENTS BY ICP/MS (WATER)

<b>Maxxam ID</b>		EHA243			
<b>Sampling Date</b>		2017/04/25			
<b>COC Number</b>		606952-01-01			
	<b>UNITS</b>	<b>BACK2</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Metals</b>					
Dissolved Aluminum (Al)	ug/L	310	5.0	4962508	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	4962508	N/A
Dissolved Arsenic (As)	ug/L	<1.0	1.0	4962508	N/A
Dissolved Barium (Ba)	ug/L	6.7	1.0	4962508	N/A
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	4962508	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	4962508	N/A
Dissolved Boron (B)	ug/L	<50	50	4962508	N/A
Dissolved Cadmium (Cd)	ug/L	0.015	0.010	4962508	N/A
Dissolved Calcium (Ca)	ug/L	2100	100	4962508	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	4962508	N/A
Dissolved Cobalt (Co)	ug/L	<0.40	0.40	4962508	N/A
Dissolved Copper (Cu)	ug/L	<2.0	2.0	4962508	N/A
Dissolved Iron (Fe)	ug/L	330	50	4962508	N/A
Dissolved Lead (Pb)	ug/L	<0.50	0.50	4962508	N/A
Dissolved Magnesium (Mg)	ug/L	1400	100	4962508	N/A
Dissolved Manganese (Mn)	ug/L	8.8	2.0	4962508	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	4962508	N/A
Dissolved Nickel (Ni)	ug/L	<2.0	2.0	4962508	N/A
Dissolved Phosphorus (P)	ug/L	<100	100	4962508	N/A
Dissolved Potassium (K)	ug/L	1100	100	4962508	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	4962508	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	4962508	N/A
Dissolved Sodium (Na)	ug/L	11000	100	4962508	N/A
Dissolved Strontium (Sr)	ug/L	14	2.0	4962508	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	4962508	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	4962508	N/A
Dissolved Titanium (Ti)	ug/L	5.2	2.0	4962508	N/A
Dissolved Uranium (U)	ug/L	<0.10	0.10	4962508	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	4962508	N/A
Dissolved Zinc (Zn)	ug/L	6.2	5.0	4962508	N/A
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
N/A = Not Applicable					

Maxxam Job #: B784266  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA221  
**Sample ID:** SW1  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk
Alkalinity	KONE	4962261	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962263	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962279	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962126	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4957615	N/A	2017/05/01	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959501	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4962508	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4959500	2017/04/28	2017/04/29	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4973137	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962287	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962292	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk
pH	AT	4962125	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962282	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/03	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/03	Automated Statchk
Reactive Silica	KONE	4962271	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962266	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959592	N/A	2017/04/28	Soraya Merchant
Total Suspended Solids	BAL	4962153	2017/05/01	2017/05/03	Leslie Power
Turbidity	TURB	4962155	N/A	2017/05/01	Julia McGovern

**Maxxam ID:** EHA222  
**Sample ID:** SW2  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk
Alkalinity	KONE	4962261	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962263	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962279	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962128	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4957615	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959501	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4962508	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4959507	2017/04/28	2017/05/01	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/09	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/09	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4973879	N/A	2017/05/09	Charles Opoku-Ware

Maxxam Job #: B784266  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA222  
**Sample ID:** SW2  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrate + Nitrite	KONE	4962287	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962292	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk
pH	AT	4962127	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962282	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/03	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/03	Automated Statchk
Reactive Silica	KONE	4962271	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962266	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959592	N/A	2017/04/28	Soraya Merchant
Total Suspended Solids	BAL	4962153	2017/05/01	2017/05/03	Leslie Power
Turbidity	TURB	4962155	N/A	2017/05/01	Julia McGovern

**Maxxam ID:** EHA223  
**Sample ID:** SW3  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk
Alkalinity	KONE	4962261	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962263	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962279	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962126	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO3)		4957615	N/A	2017/05/01	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959501	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4962508	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4959500	2017/04/28	2017/04/29	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH4	4973133	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962287	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962292	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk
pH	AT	4962125	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962282	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962271	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962266	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959592	N/A	2017/04/28	Soraya Merchant
Total Suspended Solids	BAL	4962351	2017/05/01	2017/05/04	Leslie Power

Maxxam Job #: B784266  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA223  
**Sample ID:** SW3  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Turbidity	TURB	4962155	N/A	2017/05/01	Julia McGovern

**Maxxam ID:** EHA223 Dup  
**Sample ID:** SW3  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Organic carbon - Total (TOC)	TECH	4959592	N/A	2017/04/28	Soraya Merchant

**Maxxam ID:** EHA224  
**Sample ID:** SW4  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk
Alkalinity	KONE	4962261	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962263	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962279	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962126	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO3)		4957615	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959501	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Total MS	CICP/MS	4959507	2017/04/28	2017/05/01	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH4	4973133	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962287	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962292	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk
pH	AT	4962125	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962282	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962271	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962266	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959592	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4962155	N/A	2017/05/01	Julia McGovern

**Maxxam ID:** EHA225  
**Sample ID:** SW5  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk

Maxxam Job #: B784266  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA225  
**Sample ID:** SW5  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	KONE	4962261	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962263	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962279	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962126	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4957615	N/A	2017/05/01	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959501	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Total MS	CICP/MS	4959500	2017/04/28	2017/04/29	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4973137	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962287	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962292	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk
pH	AT	4962125	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962282	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962271	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962266	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959592	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4962159	N/A	2017/05/01	Julia McGovern

**Maxxam ID:** EHA225 Dup  
**Sample ID:** SW5  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Ammonia-N	LACH/NH <sub>4</sub>	4973137	N/A	2017/05/08	Charles Opoku-Ware

**Maxxam ID:** EHA226  
**Sample ID:** SW6  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk
Alkalinity	KONE	4962261	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962263	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962279	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962128	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4957615	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959501	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Total MS	CICP/MS	4959507	2017/04/28	2017/05/01	Bryon Angevine



Maxxam Job #: B784266  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA226  
**Sample ID:** SW6  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH4	4973137	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962287	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962292	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk
pH	AT	4962127	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962282	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962271	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962266	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959592	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4962159	N/A	2017/05/01	Julia McGovern

**Maxxam ID:** EHA227  
**Sample ID:** SW7  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk
Alkalinity	KONE	4962261	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962263	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962279	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962128	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO3)		4957615	N/A	2017/05/01	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959501	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Total MS	CICP/MS	4959500	2017/04/28	2017/04/29	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH4	4973137	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962287	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962292	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk
pH	AT	4962127	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962282	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/03	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/03	Automated Statchk
Reactive Silica	KONE	4962271	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962266	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959592	N/A	2017/04/28	Soraya Merchant

Maxxam Job #: B784266  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA227  
**Sample ID:** SW7  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Turbidity	TURB	4962155	N/A	2017/05/01	Julia McGovern

**Maxxam ID:** EHA228  
**Sample ID:** SW8  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk
Alkalinity	KONE	4962261	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962263	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962279	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962128	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4957615	N/A	2017/05/01	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959501	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Total MS	CICP/MS	4959500	2017/04/28	2017/04/29	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4973137	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962287	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962292	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk
pH	AT	4962127	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962282	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962271	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962266	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959592	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4962155	N/A	2017/05/01	Julia McGovern

**Maxxam ID:** EHA228 Dup  
**Sample ID:** SW8  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury - Total (CVAA,LL)	CV/AA	4959501	2017/04/28	2017/05/01	Arlene Rossiter

**Maxxam ID:** EHA229  
**Sample ID:** SW9  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk

Maxxam Job #: B784266  
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Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA229  
**Sample ID:** SW9  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	KONE	4962261	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962263	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962279	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962128	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4957615	N/A	2017/05/01	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959501	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Total MS	CICP/MS	4959500	2017/04/28	2017/04/29	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4973133	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962287	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962292	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk
pH	AT	4962127	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962282	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962271	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962266	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959592	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4962155	N/A	2017/05/01	Julia McGovern

**Maxxam ID:** EHA230  
**Sample ID:** SW11  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk
Alkalinity	KONE	4962261	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962263	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962279	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962128	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4957615	N/A	2017/05/01	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959501	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Total MS	CICP/MS	4959500	2017/04/28	2017/04/29	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4972947	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962287	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962292	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk
pH	AT	4962127	N/A	2017/05/01	Julia McGovern

Maxxam Job #: B784266  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA230  
**Sample ID:** SW11  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Phosphorus - ortho	KONE	4962282	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/03	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/03	Automated Statchk
Reactive Silica	KONE	4962271	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962266	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959592	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4962155	N/A	2017/05/01	Julia McGovern

**Maxxam ID:** EHA231  
**Sample ID:** SW12  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk
Alkalinity	KONE	4962261	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962263	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962279	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962128	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO3)		4957615	N/A	2017/05/01	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959501	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Total MS	CICP/MS	4959500	2017/04/28	2017/04/29	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH4	4972947	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962287	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962292	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk
pH	AT	4962127	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962282	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/03	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/03	Automated Statchk
Reactive Silica	KONE	4962271	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962266	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959592	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4962155	N/A	2017/05/01	Julia McGovern

Maxxam Job #: B784266  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA232  
**Sample ID:** SW13  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk
Alkalinity	KONE	4962261	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962263	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962279	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962123	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4957615	N/A	2017/05/01	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959501	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Total MS	CICP/MS	4959500	2017/04/28	2017/04/29	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4972947	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962287	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962292	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk
pH	AT	4962122	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962282	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/03	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/03	Automated Statchk
Reactive Silica	KONE	4962271	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962266	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959592	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4962155	N/A	2017/05/01	Julia McGovern

**Maxxam ID:** EHA233  
**Sample ID:** SW14  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk
Alkalinity	KONE	4962261	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962263	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962279	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962128	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4957615	N/A	2017/05/01	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959501	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4962508	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4959500	2017/04/28	2017/04/29	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4972953	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962287	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962292	N/A	2017/05/02	Nancy Rogers

Maxxam Job #: B784266  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA233  
**Sample ID:** SW14  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk
pH	AT	4962127	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962282	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962271	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962266	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959592	N/A	2017/04/28	Soraya Merchant
Total Suspended Solids	BAL	4962351	2017/05/01	2017/05/04	Leslie Power
Turbidity	TURB	4962155	N/A	2017/05/01	Julia McGovern

**Maxxam ID:** EHA234  
**Sample ID:** SW15  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk
Alkalinity	KONE	4962261	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962263	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962279	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962128	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO3)		4957615	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959501	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Total MS	CICP/MS	4959507	2017/04/28	2017/05/01	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH4	4972947	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962287	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962292	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk
pH	AT	4962127	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962282	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962271	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962266	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959592	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4962155	N/A	2017/05/01	Julia McGovern



Maxxam Job #: B784266  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA235  
**Sample ID:** SW16  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk
Alkalinity	KONE	4962261	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962263	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962279	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962126	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4957615	N/A	2017/05/01	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959501	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Total MS	CICP/MS	4959500	2017/04/28	2017/04/29	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4972947	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962287	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962292	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk
pH	AT	4962125	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962282	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962271	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962266	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959592	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4962155	N/A	2017/05/01	Julia McGovern

**Maxxam ID:** EHA236  
**Sample ID:** SW-DUP1  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk
Alkalinity	KONE	4962261	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962263	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962279	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962128	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4957615	N/A	2017/05/01	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959501	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Total MS	CICP/MS	4959500	2017/04/28	2017/04/29	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4972953	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962287	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962292	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk

Maxxam Job #: B784266  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA236  
**Sample ID:** SW-DUP1  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	4962127	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962282	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962271	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962266	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959592	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4962155	N/A	2017/05/01	Julia McGovern

**Maxxam ID:** EHA237  
**Sample ID:** SW-DUP2  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk
Alkalinity	KONE	4962307	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962319	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962336	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962128	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO3)		4957615	N/A	2017/05/01	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959501	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4962508	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4959500	2017/04/28	2017/04/29	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH4	4972953	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962343	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962344	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk
pH	AT	4962127	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962341	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/03	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/03	Automated Statchk
Reactive Silica	KONE	4962331	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962327	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959696	N/A	2017/04/28	Soraya Merchant
Total Suspended Solids	BAL	4962351	2017/05/01	2017/05/04	Leslie Power
Turbidity	TURB	4962155	N/A	2017/05/01	Julia McGovern

Maxxam Job #: B784266  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA237 Dup  
**Sample ID:** SW-DUP2  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Alkalinity	KONE	4962307	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962319	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962336	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962128	N/A	2017/05/01	Julia McGovern
Nitrogen - Nitrate + Nitrite	KONE	4962343	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962344	N/A	2017/05/02	Nancy Rogers
pH	AT	4962127	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962341	N/A	2017/05/02	Nancy Rogers
Reactive Silica	KONE	4962331	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962327	N/A	2017/05/03	Nancy Rogers
Turbidity	TURB	4962155	N/A	2017/05/01	Julia McGovern

**Maxxam ID:** EHA238  
**Sample ID:** P1A  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk
Alkalinity	KONE	4962307	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962319	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962336	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962128	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4957615	N/A	2017/05/01	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959501	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Total MS	CICP/MS	4959500	2017/04/28	2017/04/29	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4972953	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962343	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962344	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk
pH	AT	4962127	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962341	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962331	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962327	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959696	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4962159	N/A	2017/05/01	Julia McGovern

Maxxam Job #: B784266  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA239  
**Sample ID:** P1B  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk
Alkalinity	KONE	4962307	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962319	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962336	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962128	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO3)		4957615	N/A	2017/05/01	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959501	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Total MS	CICP/MS	4959500	2017/04/28	2017/04/29	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH4	4972953	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962343	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962344	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk
pH	AT	4962127	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962341	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/03	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/03	Automated Statchk
Reactive Silica	KONE	4962331	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962327	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959696	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4962155	N/A	2017/05/01	Julia McGovern

**Maxxam ID:** EHA240  
**Sample ID:** P2A  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk
Alkalinity	KONE	4962307	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962319	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962336	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962128	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO3)		4957615	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959501	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Total MS	CICP/MS	4959507	2017/04/28	2017/05/01	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH4	4972947	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962343	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962344	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk

Maxxam Job #: B784266  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA240  
**Sample ID:** P2A  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
pH	AT	4962127	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962341	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962331	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962327	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959696	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4962155	N/A	2017/05/01	Julia McGovern

**Maxxam ID:** EHA241  
**Sample ID:** P2B  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk
Alkalinity	KONE	4962307	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962319	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962336	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962126	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO3)		4957615	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959901	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Total MS	CICP/MS	4959507	2017/04/28	2017/05/01	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH4	4972953	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962343	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962344	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk
pH	AT	4962125	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962341	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/03	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/03	Automated Statchk
Reactive Silica	KONE	4962331	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962327	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959696	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4962159	N/A	2017/05/01	Julia McGovern

Maxxam Job #: B784266  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
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Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA242  
**Sample ID:** P3  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk
Alkalinity	KONE	4962307	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962319	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962336	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962128	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4957615	N/A	2017/05/03	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959901	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Total MS	CICP/MS	4959507	2017/04/28	2017/05/02	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/09	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/09	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4973879	N/A	2017/05/09	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962343	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962344	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk
pH	AT	4962127	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962341	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/09	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/09	Automated Statchk
Reactive Silica	KONE	4962331	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962327	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/09	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959696	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4962155	N/A	2017/05/01	Julia McGovern

**Maxxam ID:** EHA243  
**Sample ID:** BACK2  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk
Alkalinity	KONE	4962307	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962319	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962336	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962128	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4957615	N/A	2017/05/01	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959901	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4962508	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4959500	2017/04/28	2017/04/29	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4972947	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962343	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962344	N/A	2017/05/02	Nancy Rogers



Maxxam Job #: B784266  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
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Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA243  
**Sample ID:** BACK2  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk
pH	AT	4962127	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962341	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/03	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/03	Automated Statchk
Reactive Silica	KONE	4962331	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962327	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959696	N/A	2017/04/28	Soraya Merchant
Total Suspended Solids	BAL	4962351	2017/05/01	2017/05/04	Leslie Power
Turbidity	TURB	4962155	N/A	2017/05/01	Julia McGovern

**Maxxam ID:** EHA243 Dup  
**Sample ID:** BACK2  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Mercury - Total (CVAA,LL)	CV/AA	4959901	2017/04/28	2017/05/01	Arlene Rossiter

## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	-0.7°C
Package 2	2.0°C
Package 3	3.3°C
Package 4	3.7°C

Sample EHA221 [SW1] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample EHA222 [SW2] : TSS:Used all of the sample provided, DL raised. RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample EHA223 [SW3] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample EHA227 [SW7] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample EHA228 [SW8] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample EHA229 [SW9] : Poor RCap Ion Balance due to sample matrix. Excess cations due to presence of turbidity.

Sample EHA230 [SW11] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample EHA231 [SW12] : Poor RCap Ion Balance due to sample matrix. Excess cations due to presence of turbidity.

Sample EHA232 [SW13] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample EHA235 [SW16] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample EHA236 [SW-DUP1] : Poor RCap Ion Balance due to sample matrix. Excess cations due to presence of turbidity.

Sample EHA237 [SW-DUP2] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

Sample EHA238 [P1A] : Poor RCap Ion Balance due to sample matrix. Excess cations due to presence of turbidity.

Sample EHA239 [P1B] : Poor RCap Ion Balance due to sample matrix. Excess cations due to presence of turbidity.

Sample EHA240 [P2A] : Poor RCap Ion Balance due to sample matrix. Excess cations due to presence of turbidity.

Sample EHA241 [P2B] : RCap Ion Balance acceptable. Low ionic strength sample.

Sample EHA242 [P3] : Poor RCap Ion Balance due to sample matrix. Excess cations due to presence of turbidity.

Sample EHA243 [BACK2] : RCap Ion Balance acceptable. Anion/cation agreement within 0.2 meq/L.

**Results relate only to the items tested.**

Maxxam Job #: B784266  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
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### QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4959500	BAN	Matrix Spike	Total Aluminum (Al)	2017/04/29		94	%	80 - 120
			Total Antimony (Sb)	2017/04/29		104	%	80 - 120
			Total Arsenic (As)	2017/04/29		91	%	80 - 120
			Total Barium (Ba)	2017/04/29		99	%	80 - 120
			Total Beryllium (Be)	2017/04/29		94	%	80 - 120
			Total Bismuth (Bi)	2017/04/29		102	%	80 - 120
			Total Boron (B)	2017/04/29		NC	%	80 - 120
			Total Cadmium (Cd)	2017/04/29		95	%	80 - 120
			Total Calcium (Ca)	2017/04/29		98	%	80 - 120
			Total Chromium (Cr)	2017/04/29		92	%	80 - 120
			Total Cobalt (Co)	2017/04/29		91	%	80 - 120
			Total Copper (Cu)	2017/04/29		92	%	80 - 120
			Total Iron (Fe)	2017/04/29		97	%	80 - 120
			Total Lead (Pb)	2017/04/29		98	%	80 - 120
			Total Magnesium (Mg)	2017/04/29		98	%	80 - 120
			Total Manganese (Mn)	2017/04/29		93	%	80 - 120
			Total Molybdenum (Mo)	2017/04/29		101	%	80 - 120
			Total Nickel (Ni)	2017/04/29		91	%	80 - 120
			Total Phosphorus (P)	2017/04/29		101	%	80 - 120
			Total Potassium (K)	2017/04/29		103	%	80 - 120
			Total Selenium (Se)	2017/04/29		88	%	80 - 120
			Total Silver (Ag)	2017/04/29		98	%	80 - 120
			Total Sodium (Na)	2017/04/29		NC	%	80 - 120
			Total Strontium (Sr)	2017/04/29		NC	%	80 - 120
			Total Thallium (Tl)	2017/04/29		101	%	80 - 120
			Total Tin (Sn)	2017/04/29		103	%	80 - 120
			Total Titanium (Ti)	2017/04/29		96	%	80 - 120
			Total Uranium (U)	2017/04/29		104	%	80 - 120
			Total Vanadium (V)	2017/04/29		95	%	80 - 120
			Total Zinc (Zn)	2017/04/29		95	%	80 - 120
4959500	BAN	Spiked Blank	Total Aluminum (Al)	2017/04/29		94	%	80 - 120
			Total Antimony (Sb)	2017/04/29		103	%	80 - 120
			Total Arsenic (As)	2017/04/29		89	%	80 - 120
			Total Barium (Ba)	2017/04/29		98	%	80 - 120
			Total Beryllium (Be)	2017/04/29		90	%	80 - 120
			Total Bismuth (Bi)	2017/04/29		103	%	80 - 120
			Total Boron (B)	2017/04/29		90	%	80 - 120
			Total Cadmium (Cd)	2017/04/29		92	%	80 - 120
			Total Calcium (Ca)	2017/04/29		95	%	80 - 120
			Total Chromium (Cr)	2017/04/29		90	%	80 - 120
			Total Cobalt (Co)	2017/04/29		92	%	80 - 120
			Total Copper (Cu)	2017/04/29		91	%	80 - 120
			Total Iron (Fe)	2017/04/29		95	%	80 - 120
			Total Lead (Pb)	2017/04/29		97	%	80 - 120
			Total Magnesium (Mg)	2017/04/29		95	%	80 - 120
			Total Manganese (Mn)	2017/04/29		92	%	80 - 120
			Total Molybdenum (Mo)	2017/04/29		99	%	80 - 120
			Total Nickel (Ni)	2017/04/29		92	%	80 - 120
			Total Phosphorus (P)	2017/04/29		98	%	80 - 120
			Total Potassium (K)	2017/04/29		98	%	80 - 120
			Total Selenium (Se)	2017/04/29		86	%	80 - 120

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Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4959500	BAN	Method Blank	Total Silver (Ag)	2017/04/29		95	%	80 - 120
			Total Sodium (Na)	2017/04/29		92	%	80 - 120
			Total Strontium (Sr)	2017/04/29		96	%	80 - 120
			Total Thallium (Tl)	2017/04/29		101	%	80 - 120
			Total Tin (Sn)	2017/04/29		103	%	80 - 120
			Total Titanium (Ti)	2017/04/29		93	%	80 - 120
			Total Uranium (U)	2017/04/29		102	%	80 - 120
			Total Vanadium (V)	2017/04/29		94	%	80 - 120
			Total Zinc (Zn)	2017/04/29		95	%	80 - 120
			Total Aluminum (Al)	2017/04/29	8.0, RDL=5.0 (1)		ug/L	
			Total Antimony (Sb)	2017/04/29	<1.0		ug/L	
			Total Arsenic (As)	2017/04/29	<1.0		ug/L	
			Total Barium (Ba)	2017/04/29	<1.0		ug/L	
			Total Beryllium (Be)	2017/04/29	<1.0		ug/L	
			Total Bismuth (Bi)	2017/04/29	<2.0		ug/L	
			Total Boron (B)	2017/04/29	<50		ug/L	
			Total Cadmium (Cd)	2017/04/29	<0.010		ug/L	
			Total Calcium (Ca)	2017/04/29	<100		ug/L	
			Total Chromium (Cr)	2017/04/29	<1.0		ug/L	
			Total Cobalt (Co)	2017/04/29	<0.40		ug/L	
			Total Copper (Cu)	2017/04/29	<2.0		ug/L	
			Total Iron (Fe)	2017/04/29	<50		ug/L	
			Total Lead (Pb)	2017/04/29	<0.50		ug/L	
			Total Magnesium (Mg)	2017/04/29	<100		ug/L	
			Total Manganese (Mn)	2017/04/29	<2.0		ug/L	
			Total Molybdenum (Mo)	2017/04/29	<2.0		ug/L	
			Total Nickel (Ni)	2017/04/29	<2.0		ug/L	
			Total Phosphorus (P)	2017/04/29	<100		ug/L	
			Total Potassium (K)	2017/04/29	<100		ug/L	
			Total Selenium (Se)	2017/04/29	<1.0		ug/L	
			Total Silver (Ag)	2017/04/29	<0.10		ug/L	
			Total Sodium (Na)	2017/04/29	<100		ug/L	
			Total Strontium (Sr)	2017/04/29	<2.0		ug/L	
			Total Thallium (Tl)	2017/04/29	<0.10		ug/L	
			Total Tin (Sn)	2017/04/29	<2.0		ug/L	
			Total Titanium (Ti)	2017/04/29	<2.0		ug/L	
			Total Uranium (U)	2017/04/29	<0.10		ug/L	
			Total Vanadium (V)	2017/04/29	<2.0		ug/L	
			Total Zinc (Zn)	2017/04/29	<5.0		ug/L	
4959500	BAN	RPD - Sample/Sample Dup	Total Aluminum (Al)	2017/04/29	8.9		%	20
			Total Antimony (Sb)	2017/04/29	NC		%	20
			Total Arsenic (As)	2017/04/29	NC		%	20
			Total Barium (Ba)	2017/04/29	3.4		%	20
			Total Beryllium (Be)	2017/04/29	NC		%	20
			Total Bismuth (Bi)	2017/04/29	NC		%	20
			Total Boron (B)	2017/04/29	2.4		%	20
			Total Cadmium (Cd)	2017/04/29	NC		%	20
			Total Calcium (Ca)	2017/04/29	2.8		%	20
			Total Chromium (Cr)	2017/04/29	NC		%	20
			Total Cobalt (Co)	2017/04/29	NC		%	20

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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Total Copper (Cu)	2017/04/29	NC		%	20
			Total Iron (Fe)	2017/04/29	2.1		%	20
			Total Lead (Pb)	2017/04/29	NC		%	20
			Total Magnesium (Mg)	2017/04/29	2.9		%	20
			Total Manganese (Mn)	2017/04/29	3.2		%	20
			Total Molybdenum (Mo)	2017/04/29	5.4		%	20
			Total Nickel (Ni)	2017/04/29	NC		%	20
			Total Phosphorus (P)	2017/04/29	NC		%	20
			Total Potassium (K)	2017/04/29	2.9		%	20
			Total Selenium (Se)	2017/04/29	NC		%	20
			Total Silver (Ag)	2017/04/29	NC		%	20
			Total Sodium (Na)	2017/04/29	3.4		%	20
			Total Strontium (Sr)	2017/04/29	2.8		%	20
			Total Thallium (Tl)	2017/04/29	NC		%	20
			Total Tin (Sn)	2017/04/29	NC		%	20
			Total Titanium (Ti)	2017/04/29	NC		%	20
			Total Uranium (U)	2017/04/29	4.4		%	20
			Total Vanadium (V)	2017/04/29	NC		%	20
			Total Zinc (Zn)	2017/04/29	NC		%	20
4959501	ARS	Matrix Spike(EHA232)	Total Mercury (Hg)	2017/05/01		104	%	80 - 120
4959501	ARS	Spiked Blank	Total Mercury (Hg)	2017/05/01		102	%	80 - 120
4959501	ARS	Method Blank	Total Mercury (Hg)	2017/05/01	<0.013		ug/L	
4959501	ARS	RPD - Sample/Sample Dup	Total Mercury (Hg)	2017/05/01	2.5		%	20
4959507	BAN	Matrix Spike	Total Aluminum (Al)	2017/05/01		93	%	80 - 120
			Total Antimony (Sb)	2017/05/01		98	%	80 - 120
			Total Arsenic (As)	2017/05/01		95	%	80 - 120
			Total Barium (Ba)	2017/05/01		95	%	80 - 120
			Total Beryllium (Be)	2017/05/01		95	%	80 - 120
			Total Bismuth (Bi)	2017/05/01		98	%	80 - 120
			Total Boron (B)	2017/05/01		101	%	80 - 120
			Total Cadmium (Cd)	2017/05/01		98	%	80 - 120
			Total Calcium (Ca)	2017/05/01		98	%	80 - 120
			Total Chromium (Cr)	2017/05/01		94	%	80 - 120
			Total Cobalt (Co)	2017/05/01		96	%	80 - 120
			Total Copper (Cu)	2017/05/01		92	%	80 - 120
			Total Iron (Fe)	2017/05/01		99	%	80 - 120
			Total Lead (Pb)	2017/05/01		93	%	80 - 120
			Total Magnesium (Mg)	2017/05/01		100	%	80 - 120
			Total Manganese (Mn)	2017/05/01		95	%	80 - 120
			Total Molybdenum (Mo)	2017/05/01		101	%	80 - 120
			Total Nickel (Ni)	2017/05/01		96	%	80 - 120
			Total Phosphorus (P)	2017/05/01		99	%	80 - 120
			Total Potassium (K)	2017/05/01		105	%	80 - 120
			Total Selenium (Se)	2017/05/01		99	%	80 - 120
			Total Silver (Ag)	2017/05/01		96	%	80 - 120
			Total Sodium (Na)	2017/05/01		98	%	80 - 120
			Total Strontium (Sr)	2017/05/01		93	%	80 - 120
			Total Thallium (Tl)	2017/05/01		99	%	80 - 120
			Total Tin (Sn)	2017/05/01		100	%	80 - 120
			Total Titanium (Ti)	2017/05/01		95	%	80 - 120
			Total Uranium (U)	2017/05/01		102	%	80 - 120

Maxxam Job #: B784266  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4959507	BAN	Spiked Blank	Total Vanadium (V)	2017/05/01		95	%	80 - 120
			Total Zinc (Zn)	2017/05/01		96	%	80 - 120
			Total Aluminum (Al)	2017/05/01		95	%	80 - 120
			Total Antimony (Sb)	2017/05/01		97	%	80 - 120
			Total Arsenic (As)	2017/05/01		93	%	80 - 120
			Total Barium (Ba)	2017/05/01		94	%	80 - 120
			Total Beryllium (Be)	2017/05/01		95	%	80 - 120
			Total Bismuth (Bi)	2017/05/01		98	%	80 - 120
			Total Boron (B)	2017/05/01		104	%	80 - 120
			Total Cadmium (Cd)	2017/05/01		96	%	80 - 120
			Total Calcium (Ca)	2017/05/01		100	%	80 - 120
			Total Chromium (Cr)	2017/05/01		94	%	80 - 120
			Total Cobalt (Co)	2017/05/01		95	%	80 - 120
			Total Copper (Cu)	2017/05/01		93	%	80 - 120
			Total Iron (Fe)	2017/05/01		99	%	80 - 120
			Total Lead (Pb)	2017/05/01		92	%	80 - 120
			Total Magnesium (Mg)	2017/05/01		99	%	80 - 120
			Total Manganese (Mn)	2017/05/01		95	%	80 - 120
			Total Molybdenum (Mo)	2017/05/01		101	%	80 - 120
			Total Nickel (Ni)	2017/05/01		95	%	80 - 120
			Total Phosphorus (P)	2017/05/01		100	%	80 - 120
			Total Potassium (K)	2017/05/01		105	%	80 - 120
			Total Selenium (Se)	2017/05/01		97	%	80 - 120
			Total Silver (Ag)	2017/05/01		94	%	80 - 120
			Total Sodium (Na)	2017/05/01		99	%	80 - 120
			Total Strontium (Sr)	2017/05/01		93	%	80 - 120
			Total Thallium (Tl)	2017/05/01		99	%	80 - 120
			Total Tin (Sn)	2017/05/01		101	%	80 - 120
			Total Titanium (Ti)	2017/05/01		96	%	80 - 120
			Total Uranium (U)	2017/05/01		99	%	80 - 120
			Total Vanadium (V)	2017/05/01		93	%	80 - 120
			Total Zinc (Zn)	2017/05/01		98	%	80 - 120
4959507	BAN	Method Blank	Total Aluminum (Al)	2017/05/01	5.9, RDL=5.0 (1)		ug/L	
			Total Antimony (Sb)	2017/05/01	<1.0		ug/L	
			Total Arsenic (As)	2017/05/01	<1.0		ug/L	
			Total Barium (Ba)	2017/05/01	<1.0		ug/L	
			Total Beryllium (Be)	2017/05/01	<1.0		ug/L	
			Total Bismuth (Bi)	2017/05/01	<2.0		ug/L	
			Total Boron (B)	2017/05/01	<50		ug/L	
			Total Cadmium (Cd)	2017/05/01	<0.010		ug/L	
			Total Calcium (Ca)	2017/05/01	<100		ug/L	
			Total Chromium (Cr)	2017/05/01	<1.0		ug/L	
			Total Cobalt (Co)	2017/05/01	<0.40		ug/L	
			Total Copper (Cu)	2017/05/01	<2.0		ug/L	
			Total Iron (Fe)	2017/05/01	<50		ug/L	
			Total Lead (Pb)	2017/05/01	<0.50		ug/L	
			Total Magnesium (Mg)	2017/05/01	<100		ug/L	
			Total Manganese (Mn)	2017/05/01	<2.0		ug/L	
			Total Molybdenum (Mo)	2017/05/01	<2.0		ug/L	
			Total Nickel (Ni)	2017/05/01	<2.0		ug/L	



### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Total Phosphorus (P)	2017/05/01	<100		ug/L	
			Total Potassium (K)	2017/05/01	<100		ug/L	
			Total Selenium (Se)	2017/05/01	<1.0		ug/L	
			Total Silver (Ag)	2017/05/01	<0.10		ug/L	
			Total Sodium (Na)	2017/05/01	<100		ug/L	
			Total Strontium (Sr)	2017/05/01	<2.0		ug/L	
			Total Thallium (Tl)	2017/05/01	<0.10		ug/L	
			Total Tin (Sn)	2017/05/01	<2.0		ug/L	
			Total Titanium (Ti)	2017/05/01	<2.0		ug/L	
			Total Uranium (U)	2017/05/01	<0.10		ug/L	
			Total Vanadium (V)	2017/05/01	<2.0		ug/L	
			Total Zinc (Zn)	2017/05/01	<5.0		ug/L	
4959507	BAN	RPD - Sample/Sample Dup	Total Lead (Pb)	2017/05/01	4.4		%	20
4959592	SMT	Matrix Spike	Total Organic Carbon (C)	2017/04/28		101	%	80 - 120
4959592	SMT	Spiked Blank	Total Organic Carbon (C)	2017/04/28		97	%	80 - 120
4959592	SMT	Method Blank	Total Organic Carbon (C)	2017/04/28	<0.50		mg/L	
4959592	SMT	RPD - Sample/Sample Dup	Total Organic Carbon (C)	2017/04/28	0.50 (2)		%	20
4959696	SMT	Matrix Spike	Total Organic Carbon (C)	2017/04/28		99	%	80 - 120
4959696	SMT	Spiked Blank	Total Organic Carbon (C)	2017/04/28		103	%	80 - 120
4959696	SMT	Method Blank	Total Organic Carbon (C)	2017/04/28	<0.50		mg/L	
4959696	SMT	RPD - Sample/Sample Dup	Total Organic Carbon (C)	2017/04/28	3.7		%	20
4959901	ARS	Matrix Spike	Total Mercury (Hg)	2017/05/01		98	%	80 - 120
4959901	ARS	Spiked Blank	Total Mercury (Hg)	2017/05/01		104	%	80 - 120
4959901	ARS	Method Blank	Total Mercury (Hg)	2017/05/01	<0.013		ug/L	
4959901	ARS	RPD - Sample/Sample Dup	Total Mercury (Hg)	2017/05/01	NC		%	20
4962122	JMV	QC Standard	pH	2017/05/01		100	%	97 - 103
4962122	JMV	RPD - Sample/Sample Dup	pH	2017/05/01	1.1		%	N/A
4962123	JMV	Spiked Blank	Conductivity	2017/05/01		100	%	80 - 120
4962123	JMV	Method Blank	Conductivity	2017/05/01	1.1, RDL=1.0		uS/cm	
4962123	JMV	RPD - Sample/Sample Dup	Conductivity	2017/05/01	0.86		%	25
4962125	JMV	QC Standard	pH	2017/05/01		100	%	97 - 103
4962125	JMV	RPD - Sample/Sample Dup	pH	2017/05/01	0.35		%	N/A
4962126	JMV	Spiked Blank	Conductivity	2017/05/01		100	%	80 - 120
4962126	JMV	Method Blank	Conductivity	2017/05/01	1.3, RDL=1.0		uS/cm	
4962126	JMV	RPD - Sample/Sample Dup	Conductivity	2017/05/01	0.76		%	25
4962127	JMV	QC Standard	pH	2017/05/01		100	%	97 - 103
4962127	JMV	RPD - Sample/Sample Dup	pH	2017/05/01	1.6		%	N/A
4962128	JMV	Spiked Blank	Conductivity	2017/05/01		101	%	80 - 120
4962128	JMV	Method Blank	Conductivity	2017/05/01	1.4, RDL=1.0		uS/cm	
4962128	JMV	RPD - Sample/Sample Dup	Conductivity	2017/05/01	0.57		%	25
4962153	LPW	QC Standard	Total Suspended Solids	2017/05/03		98	%	80 - 120
4962153	LPW	Method Blank	Total Suspended Solids	2017/05/03	<1.0		mg/L	
4962153	LPW	RPD - Sample/Sample Dup	Total Suspended Solids	2017/05/03	24		%	25
4962155	JMV	QC Standard	Turbidity	2017/05/01		102	%	80 - 120
4962155	JMV	Spiked Blank	Turbidity	2017/05/01		98	%	80 - 120
4962155	JMV	Method Blank	Turbidity	2017/05/01	<0.10		NTU	
4962155	JMV	RPD - Sample/Sample Dup	Turbidity	2017/05/01	15		%	20
4962159	JMV	QC Standard	Turbidity	2017/05/01		101	%	80 - 120

## QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4962159	JMV	Spiked Blank	Turbidity	2017/05/01		98	%	80 - 120
4962159	JMV	Method Blank	Turbidity	2017/05/01	<0.10		NTU	
4962159	JMV	RPD - Sample/Sample Dup	Turbidity	2017/05/01	4.6		%	20
4962261	NRG	Matrix Spike	Total Alkalinity (Total as CaCO <sub>3</sub> )	2017/05/02		105	%	80 - 120
4962261	NRG	Spiked Blank	Total Alkalinity (Total as CaCO <sub>3</sub> )	2017/05/02		109	%	80 - 120
4962261	NRG	Method Blank	Total Alkalinity (Total as CaCO <sub>3</sub> )	2017/05/02	<5.0		mg/L	
4962261	NRG	RPD - Sample/Sample Dup	Total Alkalinity (Total as CaCO <sub>3</sub> )	2017/05/02	0.69		%	25
4962263	NRG	Matrix Spike	Dissolved Chloride (Cl)	2017/05/02		97	%	80 - 120
4962263	NRG	QC Standard	Dissolved Chloride (Cl)	2017/05/02		104	%	80 - 120
4962263	NRG	Spiked Blank	Dissolved Chloride (Cl)	2017/05/02		104	%	80 - 120
4962263	NRG	Method Blank	Dissolved Chloride (Cl)	2017/05/02	<1.0		mg/L	
4962263	NRG	RPD - Sample/Sample Dup	Dissolved Chloride (Cl)	2017/05/02	2.3		%	25
4962266	NRG	Matrix Spike	Dissolved Sulphate (SO <sub>4</sub> )	2017/05/03		115	%	80 - 120
4962266	NRG	Spiked Blank	Dissolved Sulphate (SO <sub>4</sub> )	2017/05/03		112	%	80 - 120
4962266	NRG	Method Blank	Dissolved Sulphate (SO <sub>4</sub> )	2017/05/03	<2.0		mg/L	
4962266	NRG	RPD - Sample/Sample Dup	Dissolved Sulphate (SO <sub>4</sub> )	2017/05/03	1.9		%	25
4962271	NRG	Matrix Spike	Reactive Silica (SiO <sub>2</sub> )	2017/05/02		91	%	80 - 120
4962271	NRG	Spiked Blank	Reactive Silica (SiO <sub>2</sub> )	2017/05/02		97	%	80 - 120
4962271	NRG	Method Blank	Reactive Silica (SiO <sub>2</sub> )	2017/05/02	<0.50		mg/L	
4962271	NRG	RPD - Sample/Sample Dup	Reactive Silica (SiO <sub>2</sub> )	2017/05/02	2.1		%	25
4962279	NRG	Spiked Blank	Colour	2017/05/03		104	%	80 - 120
4962279	NRG	Method Blank	Colour	2017/05/03	<5.0		TCU	
4962279	NRG	RPD - Sample/Sample Dup	Colour	2017/05/03	NC		%	20
4962282	NRG	Matrix Spike	Orthophosphate (P)	2017/05/02		100	%	80 - 120
4962282	NRG	Spiked Blank	Orthophosphate (P)	2017/05/02		100	%	80 - 120
4962282	NRG	Method Blank	Orthophosphate (P)	2017/05/02	<0.010		mg/L	
4962282	NRG	RPD - Sample/Sample Dup	Orthophosphate (P)	2017/05/02	4.6		%	25
4962287	NRG	Matrix Spike	Nitrate + Nitrite (N)	2017/05/02		95	%	80 - 120
4962287	NRG	Spiked Blank	Nitrate + Nitrite (N)	2017/05/02		103	%	80 - 120
4962287	NRG	Method Blank	Nitrate + Nitrite (N)	2017/05/02	<0.050		mg/L	
4962287	NRG	RPD - Sample/Sample Dup	Nitrate + Nitrite (N)	2017/05/02	1.7		%	25
4962292	NRG	Matrix Spike	Nitrite (N)	2017/05/02		103	%	80 - 120
4962292	NRG	Spiked Blank	Nitrite (N)	2017/05/02		101	%	80 - 120
4962292	NRG	Method Blank	Nitrite (N)	2017/05/02	<0.010		mg/L	
4962292	NRG	RPD - Sample/Sample Dup	Nitrite (N)	2017/05/02	NC		%	25
4962307	NRG	Matrix Spike(EHA237)	Total Alkalinity (Total as CaCO <sub>3</sub> )	2017/05/02		103	%	80 - 120
4962307	NRG	Spiked Blank	Total Alkalinity (Total as CaCO <sub>3</sub> )	2017/05/03		108	%	80 - 120
4962307	NRG	Method Blank	Total Alkalinity (Total as CaCO <sub>3</sub> )	2017/05/02	<5.0		mg/L	
4962307	NRG	RPD - Sample/Sample Dup	Total Alkalinity (Total as CaCO <sub>3</sub> )	2017/05/02	NC		%	25
4962319	NRG	Matrix Spike(EHA237)	Dissolved Chloride (Cl)	2017/05/02		NC	%	80 - 120
4962319	NRG	QC Standard	Dissolved Chloride (Cl)	2017/05/02		107	%	80 - 120
4962319	NRG	Spiked Blank	Dissolved Chloride (Cl)	2017/05/02		99	%	80 - 120
4962319	NRG	Method Blank	Dissolved Chloride (Cl)	2017/05/02	<1.0		mg/L	
4962319	NRG	RPD - Sample/Sample Dup	Dissolved Chloride (Cl)	2017/05/02	1.4		%	25
4962327	NRG	Matrix Spike(EHA237)	Dissolved Sulphate (SO <sub>4</sub> )	2017/05/03		139 (3)	%	80 - 120
4962327	NRG	Spiked Blank	Dissolved Sulphate (SO <sub>4</sub> )	2017/05/03		113	%	80 - 120
4962327	NRG	Method Blank	Dissolved Sulphate (SO <sub>4</sub> )	2017/05/03	<2.0		mg/L	
4962327	NRG	RPD - Sample/Sample Dup	Dissolved Sulphate (SO <sub>4</sub> )	2017/05/03	NC		%	25
4962331	NRG	Matrix Spike(EHA237)	Reactive Silica (SiO <sub>2</sub> )	2017/05/02		96	%	80 - 120
4962331	NRG	Spiked Blank	Reactive Silica (SiO <sub>2</sub> )	2017/05/02		96	%	80 - 120
4962331	NRG	Method Blank	Reactive Silica (SiO <sub>2</sub> )	2017/05/02	<0.50		mg/L	

Maxxam Job #: B784266  
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Englobe Corp.  
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Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4962331	NRG	RPD - Sample/Sample Dup	Reactive Silica (SiO <sub>2</sub> )	2017/05/02	3.8		%	25
4962336	NRG	Spiked Blank	Colour	2017/05/03		100	%	80 - 120
4962336	NRG	Method Blank	Colour	2017/05/03	<5.0		TCU	
4962336	NRG	RPD - Sample/Sample Dup	Colour	2017/05/03	3.7 (2)		%	20
4962341	NRG	Matrix Spike(EHA237)	Orthophosphate (P)	2017/05/02		105	%	80 - 120
4962341	NRG	Spiked Blank	Orthophosphate (P)	2017/05/02		103	%	80 - 120
4962341	NRG	Method Blank	Orthophosphate (P)	2017/05/02	<0.010		mg/L	
4962341	NRG	RPD - Sample/Sample Dup	Orthophosphate (P)	2017/05/02	21		%	25
4962343	NRG	Matrix Spike(EHA237)	Nitrate + Nitrite (N)	2017/05/02		90	%	80 - 120
4962343	NRG	Spiked Blank	Nitrate + Nitrite (N)	2017/05/02		98	%	80 - 120
4962343	NRG	Method Blank	Nitrate + Nitrite (N)	2017/05/02	<0.050		mg/L	
4962343	NRG	RPD - Sample/Sample Dup	Nitrate + Nitrite (N)	2017/05/02	NC		%	25
4962344	NRG	Matrix Spike(EHA237)	Nitrite (N)	2017/05/02		95	%	80 - 120
4962344	NRG	Spiked Blank	Nitrite (N)	2017/05/02		103	%	80 - 120
4962344	NRG	Method Blank	Nitrite (N)	2017/05/02	<0.010		mg/L	
4962344	NRG	RPD - Sample/Sample Dup	Nitrite (N)	2017/05/02	NC		%	25
4962351	LPW	QC Standard	Total Suspended Solids	2017/05/04		98	%	80 - 120
4962351	LPW	Method Blank	Total Suspended Solids	2017/05/04	<1.0		mg/L	
4962351	LPW	RPD - Sample/Sample Dup	Total Suspended Solids	2017/05/04	12		%	25
4962508	BAN	Matrix Spike	Dissolved Aluminum (Al)	2017/05/02		NC	%	80 - 120
			Dissolved Antimony (Sb)	2017/05/02		113	%	80 - 120
			Dissolved Arsenic (As)	2017/05/02		99	%	80 - 120
			Dissolved Barium (Ba)	2017/05/02		NC	%	80 - 120
			Dissolved Beryllium (Be)	2017/05/02		108	%	80 - 120
			Dissolved Bismuth (Bi)	2017/05/02		103	%	80 - 120
			Dissolved Boron (B)	2017/05/02		108	%	80 - 120
			Dissolved Cadmium (Cd)	2017/05/02		103	%	80 - 120
			Dissolved Calcium (Ca)	2017/05/02		NC	%	80 - 120
			Dissolved Chromium (Cr)	2017/05/02		95	%	80 - 120
			Dissolved Cobalt (Co)	2017/05/02		92	%	80 - 120
			Dissolved Copper (Cu)	2017/05/02		90	%	80 - 120
			Dissolved Iron (Fe)	2017/05/02		NC	%	80 - 120
			Dissolved Lead (Pb)	2017/05/02		98	%	80 - 120
			Dissolved Magnesium (Mg)	2017/05/02		NC	%	80 - 120
			Dissolved Manganese (Mn)	2017/05/02		NC	%	80 - 120
			Dissolved Molybdenum (Mo)	2017/05/02		113	%	80 - 120
			Dissolved Nickel (Ni)	2017/05/02		NC	%	80 - 120
			Dissolved Phosphorus (P)	2017/05/02		107	%	80 - 120
			Dissolved Potassium (K)	2017/05/02		NC	%	80 - 120
			Dissolved Selenium (Se)	2017/05/02		101	%	80 - 120
			Dissolved Silver (Ag)	2017/05/02		100	%	80 - 120
			Dissolved Sodium (Na)	2017/05/02		NC	%	80 - 120
			Dissolved Strontium (Sr)	2017/05/02		NC	%	80 - 120
			Dissolved Thallium (Tl)	2017/05/02		102	%	80 - 120
			Dissolved Tin (Sn)	2017/05/02		116	%	80 - 120
			Dissolved Titanium (Ti)	2017/05/02		103	%	80 - 120
			Dissolved Uranium (U)	2017/05/02		112	%	80 - 120
			Dissolved Vanadium (V)	2017/05/02		99	%	80 - 120
			Dissolved Zinc (Zn)	2017/05/02		92	%	80 - 120
4962508	BAN	Spiked Blank	Dissolved Aluminum (Al)	2017/05/02		107	%	80 - 120
			Dissolved Antimony (Sb)	2017/05/02		107	%	80 - 120

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Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4962508	BAN	Method Blank	Dissolved Arsenic (As)	2017/05/02		98	%	80 - 120
			Dissolved Barium (Ba)	2017/05/02		100	%	80 - 120
			Dissolved Beryllium (Be)	2017/05/02		105	%	80 - 120
			Dissolved Bismuth (Bi)	2017/05/02		108	%	80 - 120
			Dissolved Boron (B)	2017/05/02		105	%	80 - 120
			Dissolved Cadmium (Cd)	2017/05/02		102	%	80 - 120
			Dissolved Calcium (Ca)	2017/05/02		105	%	80 - 120
			Dissolved Chromium (Cr)	2017/05/02		97	%	80 - 120
			Dissolved Cobalt (Co)	2017/05/02		98	%	80 - 120
			Dissolved Copper (Cu)	2017/05/02		96	%	80 - 120
			Dissolved Iron (Fe)	2017/05/02		103	%	80 - 120
			Dissolved Lead (Pb)	2017/05/02		102	%	80 - 120
			Dissolved Magnesium (Mg)	2017/05/02		110	%	80 - 120
			Dissolved Manganese (Mn)	2017/05/02		103	%	80 - 120
			Dissolved Molybdenum (Mo)	2017/05/02		104	%	80 - 120
			Dissolved Nickel (Ni)	2017/05/02		98	%	80 - 120
			Dissolved Phosphorus (P)	2017/05/02		109	%	80 - 120
			Dissolved Potassium (K)	2017/05/02		111	%	80 - 120
			Dissolved Selenium (Se)	2017/05/02		101	%	80 - 120
			Dissolved Silver (Ag)	2017/05/02		100	%	80 - 120
			Dissolved Sodium (Na)	2017/05/02		105	%	80 - 120
			Dissolved Strontium (Sr)	2017/05/02		103	%	80 - 120
			Dissolved Thallium (Tl)	2017/05/02		106	%	80 - 120
			Dissolved Tin (Sn)	2017/05/02		110	%	80 - 120
			Dissolved Titanium (Ti)	2017/05/02		101	%	80 - 120
			Dissolved Uranium (U)	2017/05/02		113	%	80 - 120
			Dissolved Vanadium (V)	2017/05/02		99	%	80 - 120
			Dissolved Zinc (Zn)	2017/05/02		102	%	80 - 120
			Dissolved Aluminum (Al)	2017/05/02	<5.0		ug/L	
			Dissolved Antimony (Sb)	2017/05/02	<1.0		ug/L	
			Dissolved Arsenic (As)	2017/05/02	<1.0		ug/L	
			Dissolved Barium (Ba)	2017/05/02	<1.0		ug/L	
			Dissolved Beryllium (Be)	2017/05/02	<1.0		ug/L	
			Dissolved Bismuth (Bi)	2017/05/02	<2.0		ug/L	
			Dissolved Boron (B)	2017/05/02	<50		ug/L	
			Dissolved Cadmium (Cd)	2017/05/02	<0.010		ug/L	
			Dissolved Calcium (Ca)	2017/05/02	<100		ug/L	
			Dissolved Chromium (Cr)	2017/05/02	<1.0		ug/L	
			Dissolved Cobalt (Co)	2017/05/02	<0.40		ug/L	
			Dissolved Copper (Cu)	2017/05/02	<2.0		ug/L	
			Dissolved Iron (Fe)	2017/05/02	<50		ug/L	
			Dissolved Lead (Pb)	2017/05/02	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2017/05/02	<100		ug/L	
			Dissolved Manganese (Mn)	2017/05/02	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2017/05/02	<2.0		ug/L	
			Dissolved Nickel (Ni)	2017/05/02	<2.0		ug/L	
			Dissolved Phosphorus (P)	2017/05/02	<100		ug/L	
			Dissolved Potassium (K)	2017/05/02	<100		ug/L	
			Dissolved Selenium (Se)	2017/05/02	<1.0		ug/L	
			Dissolved Silver (Ag)	2017/05/02	<0.10		ug/L	
			Dissolved Sodium (Na)	2017/05/02	<100		ug/L	

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4962508	BAN	RPD - Sample/Sample Dup	Dissolved Strontium (Sr)	2017/05/02	<2.0		ug/L	
			Dissolved Thallium (Tl)	2017/05/02	<0.10		ug/L	
			Dissolved Tin (Sn)	2017/05/02	<2.0		ug/L	
			Dissolved Titanium (Ti)	2017/05/02	<2.0		ug/L	
			Dissolved Uranium (U)	2017/05/02	<0.10		ug/L	
			Dissolved Vanadium (V)	2017/05/02	<2.0		ug/L	
			Dissolved Zinc (Zn)	2017/05/02	<5.0		ug/L	
			Dissolved Aluminum (Al)	2017/05/02	0.65		%	20
			Dissolved Antimony (Sb)	2017/05/02	NC		%	20
			Dissolved Arsenic (As)	2017/05/02	0.31		%	20
			Dissolved Barium (Ba)	2017/05/02	1.1		%	20
			Dissolved Beryllium (Be)	2017/05/02	NC		%	20
			Dissolved Bismuth (Bi)	2017/05/02	NC		%	20
			Dissolved Boron (B)	2017/05/02	NC		%	20
			Dissolved Cadmium (Cd)	2017/05/02	0.47		%	20
			Dissolved Calcium (Ca)	2017/05/02	0.48		%	20
			Dissolved Chromium (Cr)	2017/05/02	3.1		%	20
			Dissolved Cobalt (Co)	2017/05/02	1.1		%	20
			Dissolved Copper (Cu)	2017/05/02	1.2		%	20
			Dissolved Iron (Fe)	2017/05/02	1.6		%	20
			Dissolved Lead (Pb)	2017/05/02	1.3		%	20
			Dissolved Magnesium (Mg)	2017/05/02	1.2		%	20
			Dissolved Manganese (Mn)	2017/05/02	0.61		%	20
			Dissolved Molybdenum (Mo)	2017/05/02	NC		%	20
			Dissolved Nickel (Ni)	2017/05/02	1.7		%	20
			Dissolved Phosphorus (P)	2017/05/02	NC		%	20
			Dissolved Potassium (K)	2017/05/02	0.32		%	20
			Dissolved Selenium (Se)	2017/05/02	NC		%	20
			Dissolved Silver (Ag)	2017/05/02	NC		%	20
			Dissolved Sodium (Na)	2017/05/02	2.0		%	20
			Dissolved Strontium (Sr)	2017/05/02	0.60		%	20
			Dissolved Thallium (Tl)	2017/05/02	NC		%	20
			Dissolved Tin (Sn)	2017/05/02	NC		%	20
			Dissolved Titanium (Ti)	2017/05/02	NC		%	20
			Dissolved Uranium (U)	2017/05/02	3.5		%	20
			Dissolved Vanadium (V)	2017/05/02	NC		%	20
			Dissolved Zinc (Zn)	2017/05/02	1.2		%	20
4972947	COP	Matrix Spike	Total Ammonia-N	2017/05/08		91	%	80 - 120
4972947	COP	Spiked Blank	Total Ammonia-N	2017/05/08		98	%	85 - 115
4972947	COP	Method Blank	Total Ammonia-N	2017/05/08	<0.050		mg/L	
4972947	COP	RPD - Sample/Sample Dup	Total Ammonia-N	2017/05/08	9.2		%	20
4972953	COP	Matrix Spike	Total Ammonia-N	2017/05/08		98	%	80 - 120
4972953	COP	Spiked Blank	Total Ammonia-N	2017/05/08		98	%	85 - 115
4972953	COP	Method Blank	Total Ammonia-N	2017/05/08	<0.050		mg/L	
4972953	COP	RPD - Sample/Sample Dup	Total Ammonia-N	2017/05/08	3.9		%	20
4973133	COP	Matrix Spike	Total Ammonia-N	2017/05/08		96	%	80 - 120
4973133	COP	Spiked Blank	Total Ammonia-N	2017/05/08		97	%	85 - 115
4973133	COP	Method Blank	Total Ammonia-N	2017/05/08	<0.050		mg/L	
4973133	COP	RPD - Sample/Sample Dup	Total Ammonia-N	2017/05/08	0.98		%	20
4973137	COP	Matrix Spike(EHA225)	Total Ammonia-N	2017/05/08		91	%	80 - 120
4973137	COP	Spiked Blank	Total Ammonia-N	2017/05/08		97	%	85 - 115

Maxxam Job #: B784266  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4973137	COP	Method Blank	Total Ammonia-N	2017/05/08	<0.050		mg/L	
4973137	COP	RPD - Sample/Sample Dup	Total Ammonia-N	2017/05/08	NC		%	20
4973879	COP	Matrix Spike	Total Ammonia-N	2017/05/09		96	%	80 - 120
4973879	COP	Spiked Blank	Total Ammonia-N	2017/05/09		98	%	85 - 115
4973879	COP	Method Blank	Total Ammonia-N	2017/05/09	<0.050		mg/L	
4973879	COP	RPD - Sample/Sample Dup	Total Ammonia-N	2017/05/09	0.19		%	20

N/A = Not Applicable

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference  $\leq 2 \times$  RDL).

(1) Low level lab contamination. Minimal impact on sample data quality.



(2) Elevated reporting limit due to sample matrix.

(3) Elevated matrix spike recovery due to sample matrix, result confirmed by repeat analysis.

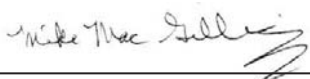


### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Ewa Pranjić, M.Sc., C.Chem, Scientific Specialist



Mike MacGillivray, Scientific Specialist (Inorganics)

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

<b>INVOICE TO:</b>				<b>Report Information</b>				<b>Project Information</b>				<b>Laboratory Use Only</b>			
Company Name #41009 Englobe Corp.				Company Name Lisa Ladouceur / Aen Colo				Quotation # B72846				Maxxam Job # B784266			
Accounts Payable 97 Troop Ave				Contact Name Lisa Ladouceur				P.O.# A08530				Boiler Order # 508952			
Dartmouth NS B3B 2A7				Address Lisa Ladouceur @ englobecorp.com				Project # P-0010903-0-00-205				Chain Of Custody Record Lake George Road, Lake George, VT 05445			
(902) 468-6486 x				Phone Lisa Ladouceur @ englobecorp.com				Site # LL / NJ				Project Manager Michelle Hill			
Fax: (902) 468-4919 x				Email Lisa Ladouceur @ englobecorp.com				Sampled By LL / NJ				Lab Use Only C060952-01-01			
<b>Regulatory Criteria:</b>				<b>Special Instructions</b>				<b>ANALYSIS REQUESTED (PLEASE BE SPECIFIC)</b>				<b>Turnaround Time (TAT) Required:</b>			
												Regular (Standard) TAT: (will be applied if Rush TAT is not specified): Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as ROD and Diatomic Fluores are > 5 days - contact your Project Manager for details.			
												Job Specific Rush TAT (if applies to entire submission) Date Required:			
												Time Required:			
												Comments / Hazards / Other Required Analysis			
Sample Barcode Label	Sample Location Identification	Date Sampled	Time Sampled	Matrix	Filtration Filtered & Preserved	Lab Filtration Required	Aesthetic RCAP-MS Total Metals In Water	Mercury - Total (CVAA,LL)	Total Suspended Solids	Metals Water Diss. MS	# Bottles				
1	SW1	26/4/17		SW	X	X	X	X	X	X	6				
2	SW2	25/4/17		SW	X	X	X	X	X	X	6				
3	SW3	25/4/17		SW	X	X	X	X	X	X	6				
4	SW4	26/4/17		SW	X	X	X	X			4				
5	SW5	25/4/17		SW	X	X	X	X			4				
6	SW6	26/4/17		SW	X	X	X	X			4				
7	SW7	25/4/17		SW	X	X	X	X			4				
8	SW8	25/4/17		SW	X	X	X	X			4				
9	SW9	25/4/17		SW	X	X	X	X			4				
10	SW10	25/4/17		SW	X	X	X	X			4	DEY			
RELINQUISHED BY: (Signature/Print)				RECEIVED BY: (Signature/Print)				# Jars used and not submitted				Temp Lab Use Only			
Date: (YYMMDD)				Date: (YYMMDD)				Time				Temperature (°C) on Receipt			
17/4/2016				17/4/17				KLM				Custody Seal Intact on Cooler? Yes No			
White Mask				Yellow Mask				Yellow Mask				Yellow Mask			

\* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/T&M.

\*\* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.





# Chain Of Custody Record

200 Blumwater Road, Bedford, Nova Scotia Canada B4B 1G8 Tel (902) 420-0203 Toll-free 800-563-6266 Fax (902) 420-8512 www.maxxam.ca

Page 3 of 3

INVOICE TO:				Report Information				Project Information				Laboratory Use Only			
Company Name				Company Name				Division #				Maxxam Job #			
Contact Name				Contact Name				P.O. #				Bottle Order #			
Address				Address				Project #				Chain Of Custody Record			
Phone				Phone				Site #				Project Manager			
Email				Email				Sampled By				Microville Job			
<b>INVOICE TO:</b> #41009 Englobe Corp. Accounts Payable 37 Troop Ave Dartmouth NS B3B 2A7 (902) 468-6486 x Dartmouth AP@englobecorp.com				<b>Report Information:</b> Lisa Laddouceur / <i>Alex Cole</i> Lisa Laddouceur@englobecorp.com (902) 468-4919 x				<b>Project Information:</b> B72846 AOKS30 P-0010903-0-00-205 Lake George Road, Lake George, LL / JV				<b>Laboratory Use Only:</b> B784266 CH86952-03-01			
Regulatory Criteria:				Special Instructions:				ANALYSIS REQUESTED (PLEASE BE SPECIFIC):				Turnaround Time (TAT) Required:			
** Specify Matrix: Surface/Ground/Tapwater/Sewage/Effluent/Seawater Pulp/Non-pulp/Other Solid/Other Liquid												Please provide advance notice for rush projects. <b>Regular (Standard) TAT:</b> (will be applied if Rush TAT is not specified) Standard TAT = 5-7 Working days for most tests. Please note: Standard TAT for certain tests such as BOD and Dissolved Oxygen are > 5 days - contact your Project Manager for details. <b>Job Specific Rush TAT (if applies to entire submission)</b> Date Required: Time Required:			
<b>SAMPLES MUST BE KEPT COOL (&lt; 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM</b>												Comments / Hazards / Other Required Analysis			
Sample Barcode Label	Sample Location Identification	Date Sampled	Time Sampled	Matrix	Field Filtered & Preserved	Lab Filtration Required	Atlantic RCAP-MS Total Metals In	Mercury - Total (CVAA,LL)	Total Suspended Solids	Metals Water Diss. MS	# of Bottles	Time Required	Comments / Hazards / Other Required Analysis		
1	P2A	25/4/17	16:30	SW	X	X	X	X	X	X	4				
2	P2B	25/4/17	16:30	SW	X	X	X	X	X	X	4				
3	P3	25/4/17	16:30	SW	X	X	X	X	X	X	4				
4	BACK1	25/4/17	16:30	SW	X	X	X	X	X	X	4		DRY		
5	BACK2	25/4/17	16:30	SW	X	X	X	X	X	X	6				
6															
7															
8															
9															
10															
RELINQUISHED BY: (Signature/Print)				RECEIVED BY: (Signature/Print)				Date: (YY/MM/DD)				Time			
Lisa Laddouceur 17/4/26 16:30				Lisa Laddouceur 17/4/26 16:30				Date: (YY/MM/DD) 17/4/26				Time 16:30			
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THE CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.				* IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.				# Jars used and not submitted				Temperature (°C) on Receipt			
Custody Seal Intact on Container?				Yes <input type="checkbox"/> No <input type="checkbox"/>				Temperature (°C) on Receipt				Yes <input type="checkbox"/> No <input type="checkbox"/>			

## CHAIN-OF-CUSTODY RECORD

[illegible][illegible]

RECEIVED BY (SIGN & PRINT)	DATE (YYYY/MM/DD)	TIME (HH:MM)
<i>My Bm Kim Seng</i>		

Your Project #: P-0010903-0-00-205  
Site#: Lake George Road, Lake George,  
Site Location: Lake George Road, Lake George, NS  
Your C.O.C. #: 606945-01-01, 606945-02-01

**Attention: Lisa Ladouceur**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

**Report Date: 2017/05/09**

Report #: R4453428

Version: 1 - Final

## **CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B784339**

**Received: 2017/04/26, 16:25**

Sample Matrix: Water  
# Samples Received: 18

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Carbonate, Bicarbonate and Hydroxide	17	N/A	2017/05/02	N/A	SM 22 4500-CO2 D
Carbonate, Bicarbonate and Hydroxide	1	N/A	2017/05/03	N/A	SM 22 4500-CO2 D
Alkalinity	16	N/A	2017/05/02	ATL SOP 00013	EPA 310.2 R1974 m
Alkalinity	2	N/A	2017/05/03	ATL SOP 00013	EPA 310.2 R1974 m
Chloride	18	N/A	2017/05/02	ATL SOP 00014	SM 22 4500-Cl- E m
Colour	18	N/A	2017/05/03	ATL SOP 00020	SM 22 2120C m
Conductance - water	17	N/A	2017/05/02	ATL SOP 00004	SM 22 2510B m
Conductance - water	1	N/A	2017/05/03	ATL SOP 00004	SM 22 2510B m
Hardness (calculated as CaCO3)	18	N/A	2017/05/02	ATL SOP 00048	SM 22 2340 B
Mercury - Total (CVAA,LL)	17	2017/04/28	2017/05/01	ATL SOP 00026	EPA 245.1 R3 m
Mercury - Total (CVAA,LL)	1	2017/05/02	2017/05/03	ATL SOP 00026	EPA 245.1 R3 m
Metals Water Diss. MS (2)	13	N/A	2017/05/02	ATL SOP 00058	EPA 6020A R1 m
Metals Water Diss. MS (as rec'd)	5	N/A	2017/05/02	ATL SOP 00058	EPA 6020A R1 m
Metals Water Total MS	16	2017/05/01	2017/05/01	ATL SOP 00058	EPA 6020A R1 m
Metals Water Total MS	1	2017/05/01	2017/05/02	ATL SOP 00058	EPA 6020A R1 m
Metals Water Total MS	1	2017/05/02	2017/05/02	ATL SOP 00058	EPA 6020A R1 m
Ion Balance (% Difference)	18	N/A	2017/05/08	N/A	Auto Calc.
Anion and Cation Sum	18	N/A	2017/05/08	N/A	Auto Calc.
Total Ammonia-N (1)	18	N/A	2017/05/08	CAM SOP-00441	EPA GS I-2522-90 m
Nitrogen - Nitrate + Nitrite	18	N/A	2017/05/02	ATL SOP 00016	USGS SOPINCF0452.2 m
Nitrogen - Nitrite	18	N/A	2017/05/02	ATL SOP 00017	SM 22 4500-NO2- B m
Nitrogen - Nitrate (as N)	18	N/A	2017/05/03	ATL SOP 00018	ASTM D3867-16
pH (3)	17	N/A	2017/05/02	ATL SOP 00003	SM 22 4500-H+ B m
pH (3)	1	N/A	2017/05/03	ATL SOP 00003	SM 22 4500-H+ B m
Phosphorus - ortho	18	N/A	2017/05/02	ATL SOP 00021	EPA 365.2 m
Sat. pH and Langelier Index (@ 20C)	18	N/A	2017/05/08	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	18	N/A	2017/05/08	ATL SOP 00049	Auto Calc.
Reactive Silica	18	N/A	2017/05/02	ATL SOP 00022	EPA 366.0 m
Sulphate	18	N/A	2017/05/03	ATL SOP 00023	ASTMD516-11 m
Total Dissolved Solids (TDS calc)	18	N/A	2017/05/08	N/A	Auto Calc.



Your Project #: P-0010903-0-00-205  
Site#: Lake George Road, Lake George,  
Site Location: Lake George Road, Lake George, NS  
Your C.O.C. #: 606945-01-01, 606945-02-01

**Attention: Lisa Ladouceur**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

**Report Date: 2017/05/09**

Report #: R4453428

Version: 1 - Final

## **CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B784339**

**Received: 2017/04/26, 16:25**

Sample Matrix: Water  
# Samples Received: 18

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Organic carbon - Total (TOC) (4)	6	N/A	2017/04/28	ATL SOP 00037	SM 22 5310C m
Organic carbon - Total (TOC) (4)	12	N/A	2017/05/01	ATL SOP 00037	SM 22 5310C m
Turbidity	3	N/A	2017/05/01	ATL SOP 00011	EPA 180.1 R2 m
Turbidity	15	N/A	2017/05/02	ATL SOP 00011	EPA 180.1 R2 m

**Remarks:**

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported: unless indicated otherwise, associated sample data are not blank corrected.

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Maxxam Analytics Mississauga

(2) Sample filtered in laboratory prior to analysis for dissolved metals.

(3) The APHA Standard Method require pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.

(4) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Your Project #: P-0010903-0-00-205  
Site#: Lake George Road, Lake George,  
Site Location: Lake George Road, Lake George, NS  
Your C.O.C. #: 606945-01-01, 606945-02-01

**Attention: Lisa Ladouceur**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

**Report Date: 2017/05/09**  
Report #: R4453428  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B784339**

**Received: 2017/04/26, 16:25**

Encryption Key



Maxxam  
09 May 2017 09:45:45

Please direct all questions regarding this Certificate of Analysis to your Project Manager.  
Michelle Hill, Project Manager  
Email: MHill@maxxam.ca  
Phone# (902)420-0203 Ext:289

**cosign**

=====

This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

<b>Maxxam ID</b>		EHA561			EHA563	EHA563			
<b>Sampling Date</b>		2017/04/26			2017/04/26	2017/04/26			
<b>COC Number</b>		606945-01-01			606945-01-01	606945-01-01			
	<b>UNITS</b>	<b>MW1S</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MW2S</b>	<b>MW2S Lab-Dup</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Calculated Parameters</b>									
Anion Sum	me/L	2.35	N/A	4959333	3.27		N/A	4959333	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	83	1.0	4959329	120		1.0	4959329	0.20
Calculated TDS	mg/L	210	1.0	4959338	190		1.0	4959338	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4959329	<1.0		1.0	4959329	0.20
Cation Sum	me/L	4.88	N/A	4959333	3.05		N/A	4959333	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	87	1.0	4959568	91		1.0	4959568	1.0
Ion Balance (% Difference)	%	35.0	N/A	4959332	3.48		N/A	4959332	N/A
Langelier Index (@ 20C)	N/A	-1.81		4959336	-0.743			4959336	
Langelier Index (@ 4C)	N/A	-2.06		4959337	-0.993			4959337	
Nitrate (N)	mg/L	<0.050	0.050	4959709	0.26		0.050	4959709	N/A
Saturation pH (@ 20C)	N/A	8.18		4959336	7.78			4959336	
Saturation pH (@ 4C)	N/A	8.43		4959337	8.03			4959337	
<b>Inorganics</b>									
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	83	5.0	4962307	120 (1)		25	4962307	N/A
Dissolved Chloride (Cl)	mg/L	24	1.0	4962319	16		1.0	4962319	N/A
Colour	TCU	540 (1)	250	4962336	16		5.0	4962336	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4962343	0.26		0.050	4962343	N/A
Nitrite (N)	mg/L	<0.010	0.010	4962344	<0.010		0.010	4962344	N/A
Total Organic Carbon (C)	mg/L	64 (1)	5.0	4960076	<50 (2)	<50 (2)	50	4962358	N/A
Orthophosphate (P)	mg/L	0.018	0.010	4962341	<0.010		0.010	4962341	N/A
pH	pH	6.37	N/A	4963693	7.04		N/A	4963693	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	15	0.50	4962331	5.9		0.50	4962331	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	<2.0	2.0	4962327	22		2.0	4962327	N/A
Turbidity	NTU	>1000	1.0	4963703	>1000		1.0	4963703	0.10
Conductivity	uS/cm	410	1.0	4963694	300		1.0	4963694	N/A
<b>Metals</b>									
Total Mercury (Hg)	ug/L	<0.013	0.013	4959901	0.017		0.013	4959901	N/A
Dissolved Aluminum (Al)	ug/L	47	5.0	4962494	49		5.0	4962494	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	4962494	<1.0		1.0	4962494	N/A
Dissolved Arsenic (As)	ug/L	1.4	1.0	4962494	<1.0		1.0	4962494	N/A
Dissolved Barium (Ba)	ug/L	43	1.0	4962494	29		1.0	4962494	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Elevated reporting limit due to sample matrix. (2) Reporting limit was increased due to turbidity.									

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

Maxxam ID		EHA561			EHA563	EHA563			
Sampling Date		2017/04/26			2017/04/26	2017/04/26			
COC Number		606945-01-01			606945-01-01	606945-01-01			
	UNITS	MW1S	RDL	QC Batch	MW2S	MW2S Lab-Dup	RDL	QC Batch	MDL
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	4962494	<1.0		1.0	4962494	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	4962494	<2.0		2.0	4962494	N/A
Dissolved Boron (B)	ug/L	<50	50	4962494	200		50	4962494	N/A
Dissolved Cadmium (Cd)	ug/L	0.11	0.010	4962494	0.034		0.010	4962494	N/A
Dissolved Calcium (Ca)	ug/L	20000	100	4962494	34000		100	4962494	N/A
Dissolved Chromium (Cr)	ug/L	1.8	1.0	4962494	<1.0		1.0	4962494	N/A
Dissolved Cobalt (Co)	ug/L	54	0.40	4962494	1.5		0.40	4962494	N/A
Dissolved Copper (Cu)	ug/L	<2.0	2.0	4962494	23		2.0	4962494	N/A
Dissolved Iron (Fe)	ug/L	70000	50	4962494	58		50	4962494	N/A
Dissolved Lead (Pb)	ug/L	<0.50	0.50	4962494	<0.50		0.50	4962494	N/A
Dissolved Magnesium (Mg)	ug/L	9300	100	4962494	1600		100	4962494	N/A
Dissolved Manganese (Mn)	ug/L	8200	2.0	4962494	610		2.0	4962494	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	4962494	<2.0		2.0	4962494	N/A
Dissolved Nickel (Ni)	ug/L	12	2.0	4962494	<2.0		2.0	4962494	N/A
Dissolved Phosphorus (P)	ug/L	<100	100	4962494	<100		100	4962494	N/A
Dissolved Potassium (K)	ug/L	5000	100	4962494	13000		100	4962494	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	4962494	<1.0		1.0	4962494	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	4962494	<0.10		0.10	4962494	N/A
Dissolved Sodium (Na)	ug/L	6000	100	4962494	21000		100	4962494	N/A
Dissolved Strontium (Sr)	ug/L	220	2.0	4962494	91		2.0	4962494	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	4962494	<0.10		0.10	4962494	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	4962494	<2.0		2.0	4962494	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	2.0	4962494	<2.0		2.0	4962494	N/A
Dissolved Uranium (U)	ug/L	0.24	0.10	4962494	0.24		0.10	4962494	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	4962494	<2.0		2.0	4962494	N/A
Dissolved Zinc (Zn)	ug/L	11	5.0	4962494	5.7		5.0	4962494	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

<b>Maxxam ID</b>		EHA565	EHA565			EHA567			
<b>Sampling Date</b>		2017/04/25	2017/04/25			2017/04/26			
<b>COC Number</b>		606945-01-01	606945-01-01			606945-01-01			
	<b>UNITS</b>	<b>MW3S</b>	<b>MW3S Lab-Dup</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MW4S</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Calculated Parameters</b>									
Anion Sum	me/L	6.64		N/A	4959708	1.20	N/A	4959708	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	290		1.0	4959705	12	1.0	4959705	0.20
Calculated TDS	mg/L	340		1.0	4959712	77	1.0	4959712	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0		1.0	4959705	<1.0	1.0	4959705	0.20
Cation Sum	me/L	6.04		N/A	4959708	0.960	N/A	4959708	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	270		1.0	4959568	32	1.0	4959568	1.0
Ion Balance (% Difference)	%	4.73		N/A	4959707	11.1	N/A	4959707	N/A
Langelier Index (@ 20C)	N/A	-0.331			4959710	-3.50		4959710	
Langelier Index (@ 4C)	N/A	-0.580			4959711	-3.75		4959711	
Nitrate (N)	mg/L	0.072		0.050	4959709	1.2	0.050	4959709	N/A
Saturation pH (@ 20C)	N/A	7.20			4959710	9.31		4959710	
Saturation pH (@ 4C)	N/A	7.45			4959711	9.56		4959711	
<b>Inorganics</b>									
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	290 (1)		25	4962307	12	5.0	4962307	N/A
Dissolved Chloride (Cl)	mg/L	21		1.0	4962319	25	1.0	4962319	N/A
Colour	TCU	<5.0		5.0	4962336	<5.0	5.0	4962336	N/A
Nitrate + Nitrite (N)	mg/L	0.072		0.050	4962343	1.2	0.050	4962343	N/A
Nitrite (N)	mg/L	<0.010		0.010	4962344	<0.010	0.010	4962344	N/A
Total Organic Carbon (C)	mg/L	<25 (2)		25	4960076	53 (2)	50	4962358	N/A
Orthophosphate (P)	mg/L	<0.010		0.010	4962341	<0.010	0.010	4962341	N/A
pH	pH	6.87		N/A	4963693	5.81	N/A	4963693	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	18		0.50	4962331	7.3	0.50	4962331	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	11		2.0	4962327	8.0	2.0	4962327	N/A
Turbidity	NTU	>1000		1.0	4963703	>1000	1.0	4963703	0.10
Conductivity	uS/cm	540		1.0	4963694	130	1.0	4963694	N/A
<b>Metals</b>									
Total Mercury (Hg)	ug/L	<0.013		0.013	4959901	0.037	0.013	4959901	N/A
Dissolved Aluminum (Al)	ug/L	6.3	6.0	5.0	4962494	100	5.0	4962494	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	<1.0	1.0	4962494	<1.0	1.0	4962494	N/A
Dissolved Arsenic (As)	ug/L	1.1	1.1	1.0	4962494	<1.0	1.0	4962494	N/A
Dissolved Barium (Ba)	ug/L	16	15	1.0	4962494	32	1.0	4962494	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable (1) Elevated reporting limit due to sample matrix. (2) Reporting limit was increased due to turbidity.									

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

Maxxam ID		EHA565	EHA565			EHA567			
Sampling Date		2017/04/25	2017/04/25			2017/04/26			
COC Number		606945-01-01	606945-01-01			606945-01-01			
	UNITS	MW3S	MW3S Lab-Dup	RDL	QC Batch	MW4S	RDL	QC Batch	MDL
Dissolved Beryllium (Be)	ug/L	<1.0	<1.0	1.0	4962494	<1.0	1.0	4962494	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0	<2.0	2.0	4962494	<2.0	2.0	4962494	N/A
Dissolved Boron (B)	ug/L	<50	<50	50	4962494	<50	50	4962494	N/A
Dissolved Cadmium (Cd)	ug/L	0.094	0.083	0.010	4962494	0.14	0.010	4962494	N/A
Dissolved Calcium (Ca)	ug/L	58000	57000	100	4962494	8600	100	4962494	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	<1.0	1.0	4962494	<1.0	1.0	4962494	N/A
Dissolved Cobalt (Co)	ug/L	6.4	6.2	0.40	4962494	26	0.40	4962494	N/A
Dissolved Copper (Cu)	ug/L	3.4	3.1	2.0	4962494	12	2.0	4962494	N/A
Dissolved Iron (Fe)	ug/L	<50	<50	50	4962494	79	50	4962494	N/A
Dissolved Lead (Pb)	ug/L	<0.50	<0.50	0.50	4962494	<0.50	0.50	4962494	N/A
Dissolved Magnesium (Mg)	ug/L	29000	29000	100	4962494	2500	100	4962494	N/A
Dissolved Manganese (Mn)	ug/L	7800	7700	2.0	4962494	5000	2.0	4962494	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	<2.0	2.0	4962494	<2.0	2.0	4962494	N/A
Dissolved Nickel (Ni)	ug/L	7.0	6.8	2.0	4962494	6.0	2.0	4962494	N/A
Dissolved Phosphorus (P)	ug/L	<100	<100	100	4962494	<100	100	4962494	N/A
Dissolved Potassium (K)	ug/L	3100	3100	100	4962494	2200	100	4962494	N/A
Dissolved Selenium (Se)	ug/L	<1.0	<1.0	1.0	4962494	<1.0	1.0	4962494	N/A
Dissolved Silver (Ag)	ug/L	<0.10	<0.10	0.10	4962494	<0.10	0.10	4962494	N/A
Dissolved Sodium (Na)	ug/L	14000	14000	100	4962494	5800	100	4962494	N/A
Dissolved Strontium (Sr)	ug/L	360	350	2.0	4962494	34	2.0	4962494	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	<0.10	0.10	4962494	<0.10	0.10	4962494	N/A
Dissolved Tin (Sn)	ug/L	<2.0	<2.0	2.0	4962494	<2.0	2.0	4962494	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	<2.0	2.0	4962494	<2.0	2.0	4962494	N/A
Dissolved Uranium (U)	ug/L	0.60	0.59	0.10	4962494	<0.10	0.10	4962494	N/A
Dissolved Vanadium (V)	ug/L	<2.0	<2.0	2.0	4962494	<2.0	2.0	4962494	N/A
Dissolved Zinc (Zn)	ug/L	<5.0	<5.0	5.0	4962494	20	5.0	4962494	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable									



### ATL RCAP-MS DISSOLVED (LABFILT) IN W

Maxxam ID		EHA569		EHA570		EHA580			
Sampling Date		2017/04/26		2017/04/26		2017/04/26			
COC Number		606945-01-01		606945-01-01		606945-02-01			
	UNITS	MW5	RDL	MW6S	RDL	MW6D	RDL	QC Batch	MDL
<b>Calculated Parameters</b>									
Anion Sum	me/L	2.24	N/A	6.06	N/A	1.83	N/A	4959708	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	94	1.0	250	1.0	55	1.0	4959705	0.20
Calculated TDS	mg/L	140	1.0	380	1.0	120	1.0	4959712	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	4959705	0.20
Cation Sum	me/L	2.38	N/A	7.70	N/A	1.62	N/A	4959708	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	72	1.0	230	1.0	40	1.0	4959568	1.0
Ion Balance (% Difference)	%	3.03	N/A	11.9	N/A	6.09	N/A	4959707	N/A
Langelier Index (@ 20C)	N/A	-1.64		-0.959		-1.15		4959710	
Langelier Index (@ 4C)	N/A	-1.89		-1.21		-1.40		4959711	
Nitrate (N)	mg/L	<0.050	0.050	<0.050	0.050	<0.050	0.050	4959709	N/A
Saturation pH (@ 20C)	N/A	8.10		7.31		8.56		4959710	
Saturation pH (@ 4C)	N/A	8.35		7.56		8.82		4959711	
<b>Inorganics</b>									
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	94	5.0	250 (1)	25	55	5.0	4962307	N/A
Dissolved Chloride (Cl)	mg/L	13	1.0	40	1.0	16	1.0	4962319	N/A
Colour	TCU	<130 (1)	130	680 (1)	250	<5.0	5.0	4962336	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	<0.050	0.050	<0.050	0.050	4962343	N/A
Nitrite (N)	mg/L	<0.010	0.010	<0.010	0.010	<0.010	0.010	4962344	N/A
Total Organic Carbon (C)	mg/L	26 (1)	5.0	110 (2)	5.0	<50 (3)	50	4960076	N/A
Orthophosphate (P)	mg/L	0.031	0.010	0.011	0.010	<0.010	0.010	4962341	N/A
pH	pH	6.45	N/A	6.35	N/A	7.41	N/A	4963693	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	24	0.50	30	1.0	21	0.50	4962331	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	<2.0	2.0	<2.0	2.0	13	2.0	4962327	N/A
Turbidity	NTU	>1000	1.0	>1000	1.0	>1000	1.0	4963703	0.10
Conductivity	uS/cm	200	1.0	570	1.0	170	1.0	4963694	N/A
<b>Metals</b>									
Total Mercury (Hg)	ug/L	<0.013	0.013	0.062	0.013	<0.013	0.013	4959901	N/A
Dissolved Aluminum (Al)	ug/L	86	5.0	86	5.0	<5.0	5.0	4962494	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	4962494	N/A
Dissolved Arsenic (As)	ug/L	11	1.0	7.4	1.0	<1.0	1.0	4962494	N/A
Dissolved Barium (Ba)	ug/L	50	1.0	55	1.0	1.8	1.0	4962494	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Elevated reporting limit due to sample matrix. (2) Analysis performed on decanted sample due to sediment content. (3) Reporting limit was increased due to turbidity.									

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

Maxxam ID		EHA569		EHA570		EHA580			
Sampling Date		2017/04/26		2017/04/26		2017/04/26			
COC Number		606945-01-01		606945-01-01		606945-02-01			
	UNITS	MW5	RDL	MW6S	RDL	MW6D	RDL	QC Batch	MDL
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	4962494	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	<2.0	2.0	<2.0	2.0	4962494	N/A
Dissolved Boron (B)	ug/L	<50	50	<50	50	<50	50	4962494	N/A
Dissolved Cadmium (Cd)	ug/L	<0.010	0.010	0.15	0.010	<0.010	0.010	4962494	N/A
Dissolved Calcium (Ca)	ug/L	20000	100	54000	100	11000	100	4962494	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	2.6	1.0	<1.0	1.0	4962494	N/A
Dissolved Cobalt (Co)	ug/L	4.6	0.40	16	0.40	<0.40	0.40	4962494	N/A
Dissolved Copper (Cu)	ug/L	<2.0	2.0	<2.0	2.0	4.3	2.0	4962494	N/A
Dissolved Iron (Fe)	ug/L	4700	50	45000	50	<50	50	4962494	N/A
Dissolved Lead (Pb)	ug/L	<0.50	0.50	<0.50	0.50	<0.50	0.50	4962494	N/A
Dissolved Magnesium (Mg)	ug/L	5600	100	23000	100	3000	100	4962494	N/A
Dissolved Manganese (Mn)	ug/L	980	2.0	5200	2.0	41	2.0	4962494	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	<2.0	2.0	2.2	2.0	4962494	N/A
Dissolved Nickel (Ni)	ug/L	4.3	2.0	13	2.0	<2.0	2.0	4962494	N/A
Dissolved Phosphorus (P)	ug/L	<100	100	<100	100	<100	100	4962494	N/A
Dissolved Potassium (K)	ug/L	6800	100	6000	100	320	100	4962494	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	<1.0	1.0	<1.0	1.0	4962494	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	<0.10	0.10	<0.10	0.10	4962494	N/A
Dissolved Sodium (Na)	ug/L	12000	100	21000	100	18000	100	4962494	N/A
Dissolved Strontium (Sr)	ug/L	96	2.0	250	2.0	43	2.0	4962494	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	<0.10	0.10	<0.10	0.10	4962494	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	<2.0	2.0	<2.0	2.0	4962494	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	2.0	2.8	2.0	<2.0	2.0	4962494	N/A
Dissolved Uranium (U)	ug/L	<0.10	0.10	1.5	0.10	<0.10	0.10	4962494	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	2.4	2.0	<2.0	2.0	4962494	N/A
Dissolved Zinc (Zn)	ug/L	13	5.0	7.7	5.0	<5.0	5.0	4962494	N/A
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									
N/A = Not Applicable									

### ATL RCAP-MS DISSOLVED (LABFIL) IN W

Maxxam ID		EHA581			EHA582			EHA583			
Sampling Date		2017/04/26			2017/04/26			2017/04/25			
COC Number		606945-02-01			606945-02-01			606945-02-01			
	UNITS	MW7	RDL	QC Batch	MW8	RDL	QC Batch	MW9	RDL	QC Batch	MDL
<b>Calculated Parameters</b>											
Anion Sum	me/L	3.60	N/A	4959708	2.43	N/A	4959708	1.54	N/A	4959708	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	150	1.0	4959705	100	1.0	4959705	20	1.0	4959705	0.20
Calculated TDS	mg/L	200	1.0	4959712	140	1.0	4959712	96	1.0	4959712	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4959705	<1.0	1.0	4959705	<1.0	1.0	4959705	0.20
Cation Sum	me/L	3.39	N/A	4959708	2.37	N/A	4959708	1.26	N/A	4959708	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	140	1.0	4959568	81	1.0	4959568	36	1.0	4959568	1.0
Ion Balance (% Difference)	%	3.00	N/A	4959707	1.25	N/A	4959707	10.0	N/A	4959707	N/A
Langelier Index (@ 20C)	N/A	-0.247		4959710	-1.56		4959710	-3.28		4959710	
Langelier Index (@ 4C)	N/A	-0.497		4959711	-1.81		4959711	-3.53		4959711	
Nitrate (N)	mg/L	0.17	0.050	4959709	<0.050	0.050	4959709	0.13	0.050	4959709	N/A
Saturation pH (@ 20C)	N/A	7.64		4959710	8.04		4959710	9.18		4959710	
Saturation pH (@ 4C)	N/A	7.89		4959711	8.29		4959711	9.43		4959711	
<b>Inorganics</b>											
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	150 (1)	25	4962307	100 (1)	10	4962307	20	5.0	4962347	N/A
Dissolved Chloride (Cl)	mg/L	14	1.0	4962319	10	1.0	4962319	26	1.0	4962349	N/A
Colour	TCU	<5.0	5.0	4962336	<5.0	5.0	4962336	<5.0	5.0	4962356	N/A
Nitrate + Nitrite (N)	mg/L	0.17	0.050	4962343	<0.050	0.050	4962343	0.13	0.050	4962365	N/A
Nitrite (N)	mg/L	<0.010	0.010	4962344	<0.010	0.010	4962344	<0.010	0.010	4962366	N/A
Total Organic Carbon (C)	mg/L	<25 (2)	25	4962358	<25 (2)	25	4962358	2.8	0.50	4962358	N/A
Orthophosphate (P)	mg/L	0.027	0.010	4962341	0.038	0.010	4962341	<0.010	0.010	4962361	N/A
pH	pH	7.39	N/A	4963693	6.48	N/A	4963693	5.91	N/A	4963693	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	21	0.50	4962331	19	0.50	4962331	11	0.50	4962354	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	8.8	2.0	4962327	6.9	2.0	4962327	19	2.0	4962352	N/A
Turbidity	NTU	>1000	1.0	4963703	870	1.0	4962161	470	1.0	4963703	0.10
Conductivity	uS/cm	320	1.0	4963694	220	1.0	4963694	160	1.0	4963694	N/A
<b>Metals</b>											
Total Mercury (Hg)	ug/L	0.022	0.013	4959901	<0.013	0.013	4959901	0.013	0.013	4959901	N/A
Dissolved Aluminum (Al)	ug/L	<5.0	5.0	4962494	<5.0	5.0	4962494	71	5.0	4962494	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	4962494	<1.0	1.0	4962494	<1.0	1.0	4962494	N/A
Dissolved Arsenic (As)	ug/L	1.8	1.0	4962494	<1.0	1.0	4962494	<1.0	1.0	4962494	N/A
Dissolved Barium (Ba)	ug/L	16	1.0	4962494	13	1.0	4962494	19	1.0	4962494	N/A
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	4962494	<1.0	1.0	4962494	<1.0	1.0	4962494	N/A
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
N/A = Not Applicable											
(1) Elevated reporting limit due to sample matrix.											
(2) Reporting limit was increased due to turbidity.											

### ATL RCAP-MS DISSOLVED (LABFILT) IN W

Maxxam ID		EHA581			EHA582			EHA583			
Sampling Date		2017/04/26			2017/04/26			2017/04/25			
COC Number		606945-02-01			606945-02-01			606945-02-01			
	UNITS	MW7	RDL	QC Batch	MW8	RDL	QC Batch	MW9	RDL	QC Batch	MDL
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	4962494	<2.0	2.0	4962494	<2.0	2.0	4962494	N/A
Dissolved Boron (B)	ug/L	<50	50	4962494	<50	50	4962494	<50	50	4962494	N/A
Dissolved Cadmium (Cd)	ug/L	0.022	0.010	4962494	0.045	0.010	4962494	0.10	0.010	4962494	N/A
Dissolved Calcium (Ca)	ug/L	37000	100	4962494	21000	100	4962494	7300	100	4962494	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	4962494	<1.0	1.0	4962494	<1.0	1.0	4962494	N/A
Dissolved Cobalt (Co)	ug/L	0.74	0.40	4962494	3.7	0.40	4962494	8.1	0.40	4962494	N/A
Dissolved Copper (Cu)	ug/L	<2.0	2.0	4962494	<2.0	2.0	4962494	<2.0	2.0	4962494	N/A
Dissolved Iron (Fe)	ug/L	<50	50	4962494	<50	50	4962494	<50	50	4962494	N/A
Dissolved Lead (Pb)	ug/L	<0.50	0.50	4962494	<0.50	0.50	4962494	<0.50	0.50	4962494	N/A
Dissolved Magnesium (Mg)	ug/L	11000	100	4962494	7000	100	4962494	4200	100	4962494	N/A
Dissolved Manganese (Mn)	ug/L	220	2.0	4962494	520	2.0	4962494	2500	2.0	4962494	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	4962494	<2.0	2.0	4962494	<2.0	2.0	4962494	N/A
Dissolved Nickel (Ni)	ug/L	<2.0	2.0	4962494	3.9	2.0	4962494	5.7	2.0	4962494	N/A
Dissolved Phosphorus (P)	ug/L	<100	100	4962494	<100	100	4962494	<100	100	4962494	N/A
Dissolved Potassium (K)	ug/L	2800	100	4962494	1600	100	4962494	970	100	4962494	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	4962494	<1.0	1.0	4962494	<1.0	1.0	4962494	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	4962494	<0.10	0.10	4962494	<0.10	0.10	4962494	N/A
Dissolved Sodium (Na)	ug/L	13000	100	4962494	16000	100	4962494	12000	100	4962494	N/A
Dissolved Strontium (Sr)	ug/L	120	2.0	4962494	120	2.0	4962494	51	2.0	4962494	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	4962494	<0.10	0.10	4962494	<0.10	0.10	4962494	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	4962494	<2.0	2.0	4962494	<2.0	2.0	4962494	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	2.0	4962494	<2.0	2.0	4962494	<2.0	2.0	4962494	N/A
Dissolved Uranium (U)	ug/L	0.85	0.10	4962494	<0.10	0.10	4962494	<0.10	0.10	4962494	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	4962494	<2.0	2.0	4962494	<2.0	2.0	4962494	N/A
Dissolved Zinc (Zn)	ug/L	<5.0	5.0	4962494	<5.0	5.0	4962494	<5.0	5.0	4962494	N/A
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
N/A = Not Applicable											

### ATL RCAP-MS DISSOLVED (LABFIL) IN W

Maxxam ID		EHA584	EHA584		EHA585			EHA586			
Sampling Date		2017/04/26	2017/04/26		2017/04/26			2017/04/26			
COC Number		606945-02-01	606945-02-01		606945-02-01			606945-02-01			
	UNITS	MW10	MW10 Lab-Dup	RDL	MW11	RDL	QC Batch	MW12	RDL	QC Batch	MDL

Calculated Parameters											
Anion Sum	me/L	3.83		N/A	2.39	N/A	4959708	0.970	N/A	4959708	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	150		1.0	32	1.0	4959705	18	1.0	4959705	0.20
Calculated TDS	mg/L	230		1.0	140	1.0	4959712	77	1.0	4959712	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0		1.0	<1.0	1.0	4959705	<1.0	1.0	4959705	0.20
Cation Sum	me/L	4.23		N/A	2.08	N/A	4959708	1.34	N/A	4959708	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	110		1.0	77	1.0	4959568	8.1	1.0	4959568	1.0
Ion Balance (% Difference)	%	4.96		N/A	6.94	N/A	4959707	16.0	N/A	4959707	N/A
Langelier Index (@ 20C)	N/A	-0.857			-2.58		4959710	-3.81		4959710	
Langelier Index (@ 4C)	N/A	-1.11			-2.83		4959711	-4.07		4959711	
Nitrate (N)	mg/L	<0.050		0.050	1.1	0.050	4959709	0.069	0.050	4959709	N/A
Saturation pH (@ 20C)	N/A	7.66			8.61		4959710	9.74		4959710	
Saturation pH (@ 4C)	N/A	7.91			8.86		4959711	9.99		4959711	

Inorganics											
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	150 (1)		25	32	5.0	4962347	18	5.0	4962347	N/A
Dissolved Chloride (Cl)	mg/L	22		1.0	50	1.0	4962349	12	1.0	4962349	N/A
Colour	TCU	560 (1)		130	<5.0	5.0	4962356	8.8	5.0	4962356	N/A
Nitrate + Nitrite (N)	mg/L	<0.050		0.050	1.1	0.050	4962365	0.069	0.050	4962365	N/A
Nitrite (N)	mg/L	<0.010		0.010	<0.010	0.010	4962366	<0.010	0.010	4962366	N/A
Total Organic Carbon (C)	mg/L	36 (2)		25	<25 (2)	25	4962358	10 (2)	5.0	4962358	N/A
Orthophosphate (P)	mg/L	0.10		0.010	0.016	0.010	4962361	<0.010	0.010	4962361	N/A
pH	pH	6.81		N/A	6.03	N/A	4963693	5.92	N/A	4965728	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	8.3		0.50	12	0.50	4962354	7.7	0.50	4962354	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	13		2.0	13	2.0	4962352	13	2.0	4962352	N/A
Turbidity	NTU	230	230	1.0	>1000	0.10	4963703	470	1.0	4962161	0.10
Conductivity	uS/cm	350		1.0	240	1.0	4963694	99	1.0	4965729	N/A

Metals											
Total Mercury (Hg)	ug/L	0.017		0.013	0.11	0.013	4959901	<0.013	0.013	4959901	N/A
Dissolved Aluminum (Al)	ug/L	460		5.0	34	5.0	4962494	53	5.0	4962494	N/A
Dissolved Antimony (Sb)	ug/L	<1.0		1.0	<1.0	1.0	4962494	<1.0	1.0	4962494	N/A
Dissolved Arsenic (As)	ug/L	5.2		1.0	<1.0	1.0	4962494	1.5	1.0	4962494	N/A
Dissolved Barium (Ba)	ug/L	38		1.0	19	1.0	4962494	15	1.0	4962494	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable

(1) Elevated reporting limit due to sample matrix.

(2) Reporting limit was increased due to turbidity.

### ATL RCAP-MS DISSOLVED (LABFIL) IN W

Maxxam ID		EHA584	EHA584		EHA585			EHA586			
Sampling Date		2017/04/26	2017/04/26		2017/04/26			2017/04/26			
COC Number		606945-02-01	606945-02-01		606945-02-01			606945-02-01			
	UNITS	MW10	MW10 Lab-Dup	RDL	MW11	RDL	QC Batch	MW12	RDL	QC Batch	MDL
Dissolved Beryllium (Be)	ug/L	<1.0		1.0	<1.0	1.0	4962494	<1.0	1.0	4962494	N/A
Dissolved Bismuth (Bi)	ug/L	<2.0		2.0	<2.0	2.0	4962494	<2.0	2.0	4962494	N/A
Dissolved Boron (B)	ug/L	62		50	<50	50	4962494	<50	50	4962494	N/A
Dissolved Cadmium (Cd)	ug/L	<0.10 (1)		0.10	0.17	0.010	4962494	0.015	0.010	4962494	N/A
Dissolved Calcium (Ca)	ug/L	37000		100	18000	100	4962494	2200	100	4962494	N/A
Dissolved Chromium (Cr)	ug/L	1.4		1.0	<1.0	1.0	4962494	1.1	1.0	4962494	N/A
Dissolved Cobalt (Co)	ug/L	9.7		0.40	1.5	0.40	4962494	7.2	0.40	4962494	N/A
Dissolved Copper (Cu)	ug/L	8.0		2.0	<2.0	2.0	4962494	<2.0	2.0	4962494	N/A
Dissolved Iron (Fe)	ug/L	12000		50	<50	50	4962494	12000	50	4962494	N/A
Dissolved Lead (Pb)	ug/L	2.0		0.50	<0.50	0.50	4962494	<0.50	0.50	4962494	N/A
Dissolved Magnesium (Mg)	ug/L	4400		100	7700	100	4962494	640	100	4962494	N/A
Dissolved Manganese (Mn)	ug/L	1500		2.0	5200	2.0	4962494	420	2.0	4962494	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0		2.0	<2.0	2.0	4962494	<2.0	2.0	4962494	N/A
Dissolved Nickel (Ni)	ug/L	6.7		2.0	<2.0	2.0	4962494	3.5	2.0	4962494	N/A
Dissolved Phosphorus (P)	ug/L	150		100	<100	100	4962494	<100	100	4962494	N/A
Dissolved Potassium (K)	ug/L	23000		100	810	100	4962494	2400	100	4962494	N/A
Dissolved Selenium (Se)	ug/L	<1.0		1.0	<1.0	1.0	4962494	<1.0	1.0	4962494	N/A
Dissolved Silver (Ag)	ug/L	<0.10		0.10	<0.10	0.10	4962494	<0.10	0.10	4962494	N/A
Dissolved Sodium (Na)	ug/L	22000		100	12000	100	4962494	14000	100	4962494	N/A
Dissolved Strontium (Sr)	ug/L	120		2.0	80	2.0	4962494	23	2.0	4962494	N/A
Dissolved Thallium (Tl)	ug/L	<0.10		0.10	<0.10	0.10	4962494	<0.10	0.10	4962494	N/A
Dissolved Tin (Sn)	ug/L	<2.0		2.0	<2.0	2.0	4962494	<2.0	2.0	4962494	N/A
Dissolved Titanium (Ti)	ug/L	17		2.0	<2.0	2.0	4962494	<2.0	2.0	4962494	N/A
Dissolved Uranium (U)	ug/L	0.45		0.10	<0.10	0.10	4962494	0.26	0.10	4962494	N/A
Dissolved Vanadium (V)	ug/L	4.6		2.0	<2.0	2.0	4962494	<2.0	2.0	4962494	N/A
Dissolved Zinc (Zn)	ug/L	18		5.0	<5.0	5.0	4962494	10	5.0	4962494	N/A

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable

(1) Elevated reporting limit due to sample matrix.



Maxxam Job #: B784339  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Sampler Initials: LL

### ATL. RCAP-MS DISSOLVED (LABFILT) IN W

<b>Maxxam ID</b>		EHA586			
<b>Sampling Date</b>		2017/04/26			
<b>COC Number</b>		606945-02-01			
	<b>UNITS</b>	<b>MW12 Lab-Dup</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Inorganics</b>					
pH	pH	5.92	N/A	4965728	N/A
Conductivity	uS/cm	99	1.0	4965729	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate N/A = Not Applicable					

### AT. RCAP-MS DISSOLVED (FIELDFIL) IN W

Maxxam ID		EHA562			EHA564		EHA566			
Sampling Date		2017/04/26			2017/04/26		2017/04/25			
COC Number		606945-01-01			606945-01-01		606945-01-01			
	UNITS	MW1D	RDL	QC Batch	MW2D	QC Batch	MW3D	RDL	QC Batch	MDL
<b>Calculated Parameters</b>										
Anion Sum	me/L	10.0	N/A	4959333	3.04	4959708	3.96	N/A	4959708	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	480	1.0	4959329	120	4959705	170	1.0	4959705	0.20
Calculated TDS	mg/L	530	1.0	4959338	170	4959712	230	1.0	4959712	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4959329	1.3	4959705	<1.0	1.0	4959705	0.20
Cation Sum	me/L	10.4	N/A	4959333	2.88	4959708	4.07	N/A	4959708	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	440	1.0	4959568	110	4959568	150	1.0	4959568	1.0
Ion Balance (% Difference)	%	1.86	N/A	4959332	2.70	4959707	1.37	N/A	4959707	N/A
Langelier Index (@ 20C)	N/A	0.582		4959336	0.160	4959710	-0.972		4959710	
Langelier Index (@ 4C)	N/A	0.334		4959337	-0.0900	4959711	-1.22		4959711	
Nitrate (N)	mg/L	<0.050	0.050	4959709	<0.050	4959709	<0.050	0.050	4959709	N/A
Saturation pH (@ 20C)	N/A	6.75		4959336	7.89	4959710	7.62		4959710	
Saturation pH (@ 4C)	N/A	7.00		4959337	8.14	4959711	7.87		4959711	
<b>Inorganics</b>										
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	480 (1)	100	4962307	120 (1)	4962307	170 (1)	25	4962307	N/A
Dissolved Chloride (Cl)	mg/L	13	1.0	4962319	11	4962319	16	1.0	4962319	N/A
Colour	TCU	<5.0	5.0	4962336	<5.0	4962336	<5.0	5.0	4962336	N/A
Nitrate + Nitrite (N)	mg/L	<0.050	0.050	4962343	<0.050	4962343	<0.050	0.050	4962343	N/A
Nitrite (N)	mg/L	<0.010	0.010	4962344	<0.010	4962344	<0.010	0.010	4962344	N/A
Total Organic Carbon (C)	mg/L	2.7	0.50	4962358	<5.0 (2)	4962358	<5.0 (2)	5.0	4962358	N/A
Orthophosphate (P)	mg/L	<0.010	0.010	4962341	0.028	4962341	0.019	0.010	4962341	N/A
pH	pH	7.33	N/A	4963693	8.05	4963699	6.65	N/A	4963693	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	27	1.0	4962331	19	4962331	25	0.50	4962331	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	7.0	2.0	4962327	15	4962327	8.2	2.0	4962327	N/A
Turbidity	NTU	60	0.10	4963703	970	4962161	170	1.0	4963703	0.10
Conductivity	uS/cm	880	1.0	4963694	280	4963701	340	1.0	4963694	N/A
<b>Metals</b>										
Total Mercury (Hg)	ug/L	<0.013	0.013	4959901	<0.013	4959901	<0.013	0.013	4959901	N/A
Dissolved Aluminum (Al)	ug/L	<5.0	5.0	4962508	6.9	4962508	8.3	5.0	4962508	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	4962508	<1.0	4962508	<1.0	1.0	4962508	N/A
Dissolved Arsenic (As)	ug/L	5.0	1.0	4962508	10	4962508	9.0	1.0	4962508	N/A
Dissolved Barium (Ba)	ug/L	300	1.0	4962508	33	4962508	18	1.0	4962508	N/A
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	4962508	<1.0	4962508	<1.0	1.0	4962508	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Elevated reporting limit due to sample matrix. (2) Reporting limit was increased due to turbidity.										

### AT. RCAP-MS DISSOLVED (FIELDILT) IN W

Maxxam ID		EHA562			EHA564		EHA566			
Sampling Date		2017/04/26			2017/04/26		2017/04/25			
COC Number		606945-01-01			606945-01-01		606945-01-01			
	UNITS	MW1D	RDL	QC Batch	MW2D	QC Batch	MW3D	RDL	QC Batch	MDL
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	4962508	<2.0	4962508	<2.0	2.0	4962508	N/A
Dissolved Boron (B)	ug/L	<50	50	4962508	1100	4962508	<50	50	4962508	N/A
Dissolved Cadmium (Cd)	ug/L	0.045	0.010	4962508	<0.010	4962508	<0.010	0.010	4962508	N/A
Dissolved Calcium (Ca)	ug/L	110000	100	4962508	26000	4962508	36000	100	4962508	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	4962508	<1.0	4962508	<1.0	1.0	4962508	N/A
Dissolved Cobalt (Co)	ug/L	0.71	0.40	4962508	<0.40	4962508	6.3	0.40	4962508	N/A
Dissolved Copper (Cu)	ug/L	17	2.0	4962508	<2.0	4962508	<2.0	2.0	4962508	N/A
Dissolved Iron (Fe)	ug/L	<50	50	4962508	<50	4962508	700	50	4962508	N/A
Dissolved Lead (Pb)	ug/L	<0.50	0.50	4962508	<0.50	4962508	<0.50	0.50	4962508	N/A
Dissolved Magnesium (Mg)	ug/L	40000	100	4962508	12000	4962508	15000	100	4962508	N/A
Dissolved Manganese (Mn)	ug/L	530	2.0	4962508	64	4962508	420	2.0	4962508	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	4962508	<2.0	4962508	<2.0	2.0	4962508	N/A
Dissolved Nickel (Ni)	ug/L	3.3	2.0	4962508	<2.0	4962508	12	2.0	4962508	N/A
Dissolved Phosphorus (P)	ug/L	<100	100	4962508	<100	4962508	<100	100	4962508	N/A
Dissolved Potassium (K)	ug/L	11000	100	4962508	2900	4962508	3600	100	4962508	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	4962508	<1.0	4962508	<1.0	1.0	4962508	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	4962508	<0.10	4962508	<0.10	0.10	4962508	N/A
Dissolved Sodium (Na)	ug/L	29000	100	4962508	13000	4962508	22000	100	4962508	N/A
Dissolved Strontium (Sr)	ug/L	420	2.0	4962508	160	4962508	190	2.0	4962508	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	4962508	<0.10	4962508	<0.10	0.10	4962508	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	4962508	<2.0	4962508	<2.0	2.0	4962508	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	2.0	4962508	<2.0	4962508	<2.0	2.0	4962508	N/A
Dissolved Uranium (U)	ug/L	3.6	0.10	4962508	1.2	4962508	0.20	0.10	4962508	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	4962508	<2.0	4962508	<2.0	2.0	4962508	N/A
Dissolved Zinc (Zn)	ug/L	58	5.0	4962508	5.5	4962508	15	5.0	4962508	N/A
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
N/A = Not Applicable										

### AT. RCAP-MS DISSOLVED (FIELDFIL) IN W

<b>Maxxam ID</b>		EHA568			EHA587			
<b>Sampling Date</b>		2017/04/26			2017/04/26			
<b>COC Number</b>		606945-01-01			606945-02-01			
	<b>UNITS</b>	<b>MW4D</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MW-DUP</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Calculated Parameters</b>								
Anion Sum	me/L	1.44	N/A	4959708	2.99	N/A	4959708	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	14	1.0	4959705	120	1.0	4959705	0.20
Calculated TDS	mg/L	96	1.0	4959712	170	1.0	4959712	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	1.0	4959705	<1.0	1.0	4959705	0.20
Cation Sum	me/L	1.33	N/A	4959708	2.90	N/A	4959708	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	42	1.0	4959568	110	1.0	4959568	1.0
Ion Balance (% Difference)	%	3.97	N/A	4959707	1.53	N/A	4959707	N/A
Langelier Index (@ 20C)	N/A	-3.33		4959710	-0.101		4959710	
Langelier Index (@ 4C)	N/A	-3.58		4959711	-0.352		4959711	
Nitrate (N)	mg/L	0.19	0.050	4959709	<0.050	0.050	4959709	N/A
Saturation pH (@ 20C)	N/A	9.17		4959710	7.89		4959710	
Saturation pH (@ 4C)	N/A	9.42		4959711	8.14		4959711	
<b>Inorganics</b>								
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	14	5.0	4962307	120 (1)	25	4962347	N/A
Dissolved Chloride (Cl)	mg/L	29	1.0	4962319	11	1.0	4962349	N/A
Colour	TCU	130 (1)	25	4962336	<5.0	5.0	4962356	N/A
Nitrate + Nitrite (N)	mg/L	0.19	0.050	4962343	<0.050	0.050	4962365	N/A
Nitrite (N)	mg/L	<0.010	0.010	4962344	<0.010	0.010	4962366	N/A
Total Organic Carbon (C)	mg/L	1.3	0.50	4960076	<5.0 (2)	5.0	4962358	N/A
Orthophosphate (P)	mg/L	<0.010	0.010	4962341	0.031	0.010	4962361	N/A
pH	pH	5.84	N/A	4963693	7.79	N/A	4963693	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	13	0.50	4962331	19	0.50	4962354	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	15	2.0	4962327	14	2.0	4962352	N/A
Turbidity	NTU	>1000	1.0	4963703	390	1.0	4963703	0.10
Conductivity	uS/cm	160	1.0	4963694	270	1.0	4963694	N/A
<b>Metals</b>								
Total Mercury (Hg)	ug/L	<0.013	0.013	4959901	<0.013	0.013	4964407	N/A
Dissolved Aluminum (Al)	ug/L	67	5.0	4962508	<5.0	5.0	4962508	N/A
Dissolved Antimony (Sb)	ug/L	<1.0	1.0	4962508	<1.0	1.0	4962508	N/A
Dissolved Arsenic (As)	ug/L	<1.0	1.0	4962508	10	1.0	4962508	N/A
Dissolved Barium (Ba)	ug/L	23	1.0	4962508	32	1.0	4962508	N/A
Dissolved Beryllium (Be)	ug/L	<1.0	1.0	4962508	<1.0	1.0	4962508	N/A
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								
N/A = Not Applicable								
(1) Elevated reporting limit due to sample matrix.								
(2) Reporting limit was increased due to turbidity.								

### AT. RCAP-MS DISSOLVED (FIELDILT) IN W

Maxxam ID		EHA568			EHA587			
Sampling Date		2017/04/26			2017/04/26			
COC Number		606945-01-01			606945-02-01			
	UNITS	MW4D	RDL	QC Batch	MW-DUP	RDL	QC Batch	MDL
Dissolved Bismuth (Bi)	ug/L	<2.0	2.0	4962508	<2.0	2.0	4962508	N/A
Dissolved Boron (B)	ug/L	<50	50	4962508	1100	50	4962508	N/A
Dissolved Cadmium (Cd)	ug/L	0.084	0.010	4962508	<0.010	0.010	4962508	N/A
Dissolved Calcium (Ca)	ug/L	10000	100	4962508	26000	100	4962508	N/A
Dissolved Chromium (Cr)	ug/L	<1.0	1.0	4962508	<1.0	1.0	4962508	N/A
Dissolved Cobalt (Co)	ug/L	3.1	0.40	4962508	<0.40	0.40	4962508	N/A
Dissolved Copper (Cu)	ug/L	7.8	2.0	4962508	<2.0	2.0	4962508	N/A
Dissolved Iron (Fe)	ug/L	560	50	4962508	<50	50	4962508	N/A
Dissolved Lead (Pb)	ug/L	<0.50	0.50	4962508	<0.50	0.50	4962508	N/A
Dissolved Magnesium (Mg)	ug/L	4000	100	4962508	12000	100	4962508	N/A
Dissolved Manganese (Mn)	ug/L	2100	2.0	4962508	66	2.0	4962508	N/A
Dissolved Molybdenum (Mo)	ug/L	<2.0	2.0	4962508	<2.0	2.0	4962508	N/A
Dissolved Nickel (Ni)	ug/L	4.7	2.0	4962508	<2.0	2.0	4962508	N/A
Dissolved Phosphorus (P)	ug/L	<100	100	4962508	<100	100	4962508	N/A
Dissolved Potassium (K)	ug/L	1100	100	4962508	2800	100	4962508	N/A
Dissolved Selenium (Se)	ug/L	<1.0	1.0	4962508	<1.0	1.0	4962508	N/A
Dissolved Silver (Ag)	ug/L	<0.10	0.10	4962508	<0.10	0.10	4962508	N/A
Dissolved Sodium (Na)	ug/L	10000	100	4962508	13000	100	4962508	N/A
Dissolved Strontium (Sr)	ug/L	86	2.0	4962508	160	2.0	4962508	N/A
Dissolved Thallium (Tl)	ug/L	<0.10	0.10	4962508	<0.10	0.10	4962508	N/A
Dissolved Tin (Sn)	ug/L	<2.0	2.0	4962508	<2.0	2.0	4962508	N/A
Dissolved Titanium (Ti)	ug/L	<2.0	2.0	4962508	<2.0	2.0	4962508	N/A
Dissolved Uranium (U)	ug/L	<0.10	0.10	4962508	1.2	0.10	4962508	N/A
Dissolved Vanadium (V)	ug/L	<2.0	2.0	4962508	<2.0	2.0	4962508	N/A
Dissolved Zinc (Zn)	ug/L	19	5.0	4962508	<5.0	5.0	4962508	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable								

### RESULTS OF ANALYSES OF WATER

<b>Maxxam ID</b>		EHA561		EHA562		EHA563			
<b>Sampling Date</b>		2017/04/26		2017/04/26		2017/04/26			
<b>COC Number</b>		606945-01-01		606945-01-01		606945-01-01			
	<b>UNITS</b>	<b>MW1S</b>	<b>QC Batch</b>	<b>MW1D</b>	<b>QC Batch</b>	<b>MW2S</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Inorganics</b>									
Total Ammonia-N	mg/L	3.4	4972953	<0.050	4973235	0.12	0.050	4973133	0.0080
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									

<b>Maxxam ID</b>		EHA564	EHA565	EHA566	EHA567		EHA568			
<b>Sampling Date</b>		2017/04/26	2017/04/25	2017/04/25	2017/04/26		2017/04/26			
<b>COC Number</b>		606945-01-01	606945-01-01	606945-01-01	606945-01-01		606945-01-01			
	<b>UNITS</b>	<b>MW2D</b>	<b>MW3S</b>	<b>MW3D</b>	<b>MW4S</b>	<b>QC Batch</b>	<b>MW4D</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Inorganics</b>										
Total Ammonia-N	mg/L	<0.050	0.25	<0.050	0.26	4973235	<0.050	0.050	4973133	0.0080
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										

<b>Maxxam ID</b>		EHA569		EHA570			EHA580			
<b>Sampling Date</b>		2017/04/26		2017/04/26			2017/04/26			
<b>COC Number</b>		606945-01-01		606945-01-01			606945-02-01			
	<b>UNITS</b>	<b>MW5</b>	<b>RDL</b>	<b>MW6S</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MW6D</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Inorganics</b>										
Total Ammonia-N	mg/L	1.2	0.050	5.9	0.25	4973235	0.13	0.050	4973133	0.0080
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										

<b>Maxxam ID</b>		EHA581		EHA582		EHA583	EHA584			
<b>Sampling Date</b>		2017/04/26		2017/04/26		2017/04/25	2017/04/26			
<b>COC Number</b>		606945-02-01		606945-02-01		606945-02-01	606945-02-01			
	<b>UNITS</b>	<b>MW7</b>	<b>QC Batch</b>	<b>MW8</b>	<b>QC Batch</b>	<b>MW9</b>	<b>MW10</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Inorganics</b>										
Total Ammonia-N	mg/L	0.11	4973235	<0.050	4973133	<0.050	0.54	0.050	4972947	0.0080
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										

<b>Maxxam ID</b>		EHA585	EHA586	EHA587			
<b>Sampling Date</b>		2017/04/26	2017/04/26	2017/04/26			
<b>COC Number</b>		606945-02-01	606945-02-01	606945-02-01			
	<b>UNITS</b>	<b>MW11</b>	<b>MW12</b>	<b>MW-DUP</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Inorganics</b>							
Total Ammonia-N	mg/L	<0.050	1.0	<0.050	0.050	4972947	0.0080
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



### ELEMENTS BY ICP/MS (WATER)

<b>Maxxam ID</b>		EHA561	EHA562	EHA563	EHA564	EHA565	EHA566			
<b>Sampling Date</b>		2017/04/26	2017/04/26	2017/04/26	2017/04/26	2017/04/25	2017/04/25			
<b>COC Number</b>		606945-01-01	606945-01-01	606945-01-01	606945-01-01	606945-01-01	606945-01-01			
	<b>UNITS</b>	<b>MW1S</b>	<b>MW1D</b>	<b>MW2S</b>	<b>MW2D</b>	<b>MW3S</b>	<b>MW3D</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

<b>Metals</b>										
Total Lead (Pb)	ug/L	55	2.7	43	12	32	2.9	0.50	4962130	N/A
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
N/A = Not Applicable										

<b>Maxxam ID</b>		EHA567		EHA568	EHA569			EHA570			
<b>Sampling Date</b>		2017/04/26		2017/04/26	2017/04/26			2017/04/26			
<b>COC Number</b>		606945-01-01		606945-01-01	606945-01-01			606945-01-01			
	<b>UNITS</b>	<b>MW4S</b>	<b>RDL</b>	<b>MW4D</b>	<b>MW5</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MW6S</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

<b>Metals</b>											
Total Lead (Pb)	ug/L	230	5.0	2.3	14	0.50	4962130	600	5.0	4963727	N/A
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
N/A = Not Applicable											

<b>Maxxam ID</b>		EHA580		EHA581		EHA582	EHA583	EHA584			
<b>Sampling Date</b>		2017/04/26		2017/04/26		2017/04/26	2017/04/25	2017/04/26			
<b>COC Number</b>		606945-02-01		606945-02-01		606945-02-01	606945-02-01	606945-02-01			
	<b>UNITS</b>	<b>MW6D</b>	<b>RDL</b>	<b>MW7</b>	<b>RDL</b>	<b>MW8</b>	<b>MW9</b>	<b>MW10</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

<b>Metals</b>											
Total Lead (Pb)	ug/L	34	0.50	62	5.0	8.8	<0.50	5.3	0.50	4962132	N/A
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
N/A = Not Applicable											

<b>Maxxam ID</b>		EHA585		EHA586	EHA587			
<b>Sampling Date</b>		2017/04/26		2017/04/26	2017/04/26			
<b>COC Number</b>		606945-02-01		606945-02-01	606945-02-01			
	<b>UNITS</b>	<b>MW11</b>	<b>RDL</b>	<b>MW12</b>	<b>MW-DUP</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>

<b>Metals</b>								
Total Lead (Pb)	ug/L	52	5.0	9.4	13	0.50	4962132	N/A
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								
N/A = Not Applicable								

Maxxam Job #: B784339  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA561  
**Sample ID:** MW1S  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4959329	N/A	2017/05/02	Automated Statchk
Alkalinity	KONE	4962307	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962319	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962336	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4963694	N/A	2017/05/02	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4959568	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959901	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4962494	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4962130	2017/05/01	2017/05/01	Bryon Angevine
Ion Balance (% Difference)	CALC	4959332	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4959333	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4972953	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962343	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962344	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4959709	N/A	2017/05/03	Automated Statchk
pH	AT	4963693	N/A	2017/05/02	Julia McGovern
Phosphorus - ortho	KONE	4962341	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4959336	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4959337	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962331	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962327	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4959338	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4960076	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4963703	N/A	2017/05/02	Julia McGovern

**Maxxam ID:** EHA562  
**Sample ID:** MW1D  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4959329	N/A	2017/05/02	Automated Statchk
Alkalinity	KONE	4962307	N/A	2017/05/03	Nancy Rogers
Chloride	KONE	4962319	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962336	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4963694	N/A	2017/05/02	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4959568	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959901	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4962508	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4962130	2017/05/01	2017/05/01	Bryon Angevine
Ion Balance (% Difference)	CALC	4959332	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4959333	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4973235	N/A	2017/05/08	Anastasia Hamanov
Nitrogen - Nitrate + Nitrite	KONE	4962343	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962344	N/A	2017/05/02	Nancy Rogers

Maxxam Job #: B784339  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA562  
**Sample ID:** MW1D  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrate (as N)	CALC	4959709	N/A	2017/05/03	Automated Statchk
pH	AT	4963693	N/A	2017/05/02	Julia McGovern
Phosphorus - ortho	KONE	4962341	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4959336	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4959337	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962331	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962327	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4959338	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4962358	N/A	2017/05/01	Soraya Merchant
Turbidity	TURB	4963703	N/A	2017/05/02	Julia McGovern

**Maxxam ID:** EHA563  
**Sample ID:** MW2S  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4959329	N/A	2017/05/02	Automated Statchk
Alkalinity	KONE	4962307	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962319	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962336	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4963694	N/A	2017/05/02	Julia McGovern
Hardness (calculated as CaCO3)		4959568	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959901	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4962494	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4962130	2017/05/01	2017/05/01	Bryon Angevine
Ion Balance (% Difference)	CALC	4959332	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4959333	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH4	4973133	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962343	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962344	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4959709	N/A	2017/05/03	Automated Statchk
pH	AT	4963693	N/A	2017/05/02	Julia McGovern
Phosphorus - ortho	KONE	4962341	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4959336	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4959337	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962331	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962327	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4959338	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4962358	N/A	2017/05/01	Soraya Merchant
Turbidity	TURB	4963703	N/A	2017/05/02	Julia McGovern

Maxxam Job #: B784339  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA563 Dup  
**Sample ID:** MW2S  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Organic carbon - Total (TOC)	TECH	4962358	N/A	2017/05/01	Soraya Merchant

**Maxxam ID:** EHA564  
**Sample ID:** MW2D  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4959705	N/A	2017/05/02	Automated Statchk
Alkalinity	KONE	4962307	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962319	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962336	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4963701	N/A	2017/05/02	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4959568	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959901	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4962508	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4962130	2017/05/01	2017/05/01	Bryon Angevine
Ion Balance (% Difference)	CALC	4959707	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4959708	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4973235	N/A	2017/05/08	Anastasia Hamanov
Nitrogen - Nitrate + Nitrite	KONE	4962343	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962344	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4959709	N/A	2017/05/03	Automated Statchk
pH	AT	4963699	N/A	2017/05/02	Julia McGovern
Phosphorus - ortho	KONE	4962341	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4959710	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4959711	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962331	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962327	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4959712	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4962358	N/A	2017/05/01	Soraya Merchant
Turbidity	TURB	4962161	N/A	2017/05/01	Julia McGovern

**Maxxam ID:** EHA565  
**Sample ID:** MW3S  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4959705	N/A	2017/05/02	Automated Statchk
Alkalinity	KONE	4962307	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962319	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962336	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4963694	N/A	2017/05/02	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4959568	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959901	2017/04/28	2017/05/01	Arlene Rossiter

## TEST SUMMARY

**Maxxam ID:** EHA565  
**Sample ID:** MW3S  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Water Diss. MS	CICP/MS	4962494	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4962130	2017/05/01	2017/05/01	Bryon Angevine
Ion Balance (% Difference)	CALC	4959707	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4959708	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH4	4973235	N/A	2017/05/08	Anastasia Hamanov
Nitrogen - Nitrate + Nitrite	KONE	4962343	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962344	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4959709	N/A	2017/05/03	Automated Statchk
pH	AT	4963693	N/A	2017/05/02	Julia McGovern
Phosphorus - ortho	KONE	4962341	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4959710	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4959711	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962331	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962327	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4959712	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4960076	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4963703	N/A	2017/05/02	Julia McGovern

**Maxxam ID:** EHA565 Dup  
**Sample ID:** MW3S  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Water Diss. MS	CICP/MS	4962494	N/A	2017/05/02	Bryon Angevine

**Maxxam ID:** EHA566  
**Sample ID:** MW3D  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4959705	N/A	2017/05/02	Automated Statchk
Alkalinity	KONE	4962307	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962319	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962336	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4963694	N/A	2017/05/02	Julia McGovern
Hardness (calculated as CaCO3)		4959568	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959901	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4962508	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4962130	2017/05/01	2017/05/01	Bryon Angevine
Ion Balance (% Difference)	CALC	4959707	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4959708	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH4	4973235	N/A	2017/05/08	Anastasia Hamanov
Nitrogen - Nitrate + Nitrite	KONE	4962343	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962344	N/A	2017/05/02	Nancy Rogers

Maxxam Job #: B784339  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA566  
**Sample ID:** MW3D  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrate (as N)	CALC	4959709	N/A	2017/05/03	Automated Statchk
pH	AT	4963693	N/A	2017/05/02	Julia McGovern
Phosphorus - ortho	KONE	4962341	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4959710	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4959711	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962331	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962327	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4959712	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4962358	N/A	2017/05/01	Soraya Merchant
Turbidity	TURB	4963703	N/A	2017/05/02	Julia McGovern

**Maxxam ID:** EHA567  
**Sample ID:** MW4S  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4959705	N/A	2017/05/02	Automated Statchk
Alkalinity	KONE	4962307	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962319	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962336	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4963694	N/A	2017/05/02	Julia McGovern
Hardness (calculated as CaCO3)		4959568	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959901	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4962494	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4962130	2017/05/01	2017/05/02	Bryon Angevine
Ion Balance (% Difference)	CALC	4959707	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4959708	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH4	4973235	N/A	2017/05/08	Anastasia Hamanov
Nitrogen - Nitrate + Nitrite	KONE	4962343	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962344	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4959709	N/A	2017/05/03	Automated Statchk
pH	AT	4963693	N/A	2017/05/02	Julia McGovern
Phosphorus - ortho	KONE	4962341	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4959710	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4959711	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962331	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962327	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4959712	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4962358	N/A	2017/05/01	Soraya Merchant
Turbidity	TURB	4963703	N/A	2017/05/02	Julia McGovern



Maxxam Job #: B784339  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA568  
**Sample ID:** MW4D  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4959705	N/A	2017/05/02	Automated Statchk
Alkalinity	KONE	4962307	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962319	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962336	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4963694	N/A	2017/05/02	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4959568	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959901	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4962508	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4962130	2017/05/01	2017/05/01	Bryon Angevine
Ion Balance (% Difference)	CALC	4959707	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4959708	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4973133	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962343	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962344	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4959709	N/A	2017/05/03	Automated Statchk
pH	AT	4963693	N/A	2017/05/02	Julia McGovern
Phosphorus - ortho	KONE	4962341	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4959710	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4959711	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962331	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962327	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4959712	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4960076	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4963703	N/A	2017/05/02	Julia McGovern

**Maxxam ID:** EHA569  
**Sample ID:** MW5  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4959705	N/A	2017/05/02	Automated Statchk
Alkalinity	KONE	4962307	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962319	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962336	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4963694	N/A	2017/05/02	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4959568	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959901	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4962494	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4962130	2017/05/01	2017/05/01	Bryon Angevine
Ion Balance (% Difference)	CALC	4959707	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4959708	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4973235	N/A	2017/05/08	Anastasia Hamanov
Nitrogen - Nitrate + Nitrite	KONE	4962343	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962344	N/A	2017/05/02	Nancy Rogers

Maxxam Job #: B784339  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA569  
**Sample ID:** MW5  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrate (as N)	CALC	4959709	N/A	2017/05/03	Automated Statchk
pH	AT	4963693	N/A	2017/05/02	Julia McGovern
Phosphorus - ortho	KONE	4962341	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4959710	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4959711	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962331	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962327	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4959712	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4960076	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4963703	N/A	2017/05/02	Julia McGovern

**Maxxam ID:** EHA570  
**Sample ID:** MW6S  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4959705	N/A	2017/05/02	Automated Statchk
Alkalinity	KONE	4962307	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962319	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962336	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4963694	N/A	2017/05/02	Julia McGovern
Hardness (calculated as CaCO3)		4959568	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959901	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4962494	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4963727	2017/05/02	2017/05/02	Mike Leblanc
Ion Balance (% Difference)	CALC	4959707	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4959708	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH4	4973235	N/A	2017/05/08	Anastasia Hamanov
Nitrogen - Nitrate + Nitrite	KONE	4962343	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962344	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4959709	N/A	2017/05/03	Automated Statchk
pH	AT	4963693	N/A	2017/05/02	Julia McGovern
Phosphorus - ortho	KONE	4962341	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4959710	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4959711	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962331	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962327	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4959712	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4960076	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4963703	N/A	2017/05/02	Julia McGovern

Maxxam Job #: B784339  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA580  
**Sample ID:** MW6D  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4959705	N/A	2017/05/02	Automated Statchk
Alkalinity	KONE	4962307	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962319	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962336	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4963694	N/A	2017/05/02	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4959568	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959901	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4962494	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4962132	2017/05/01	2017/05/01	Bryon Angevine
Ion Balance (% Difference)	CALC	4959707	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4959708	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4973133	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962343	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962344	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4959709	N/A	2017/05/03	Automated Statchk
pH	AT	4963693	N/A	2017/05/02	Julia McGovern
Phosphorus - ortho	KONE	4962341	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4959710	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4959711	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962331	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962327	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4959712	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4960076	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4963703	N/A	2017/05/02	Julia McGovern

**Maxxam ID:** EHA581  
**Sample ID:** MW7  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4959705	N/A	2017/05/02	Automated Statchk
Alkalinity	KONE	4962307	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962319	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962336	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4963694	N/A	2017/05/02	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4959568	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959901	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4962494	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4962132	2017/05/01	2017/05/01	Bryon Angevine
Ion Balance (% Difference)	CALC	4959707	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4959708	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4973235	N/A	2017/05/08	Anastasia Hamanov
Nitrogen - Nitrate + Nitrite	KONE	4962343	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962344	N/A	2017/05/02	Nancy Rogers

Maxxam Job #: B784339  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA581  
**Sample ID:** MW7  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrate (as N)	CALC	4959709	N/A	2017/05/03	Automated Statchk
pH	AT	4963693	N/A	2017/05/02	Julia McGovern
Phosphorus - ortho	KONE	4962341	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4959710	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4959711	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962331	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962327	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4959712	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4962358	N/A	2017/05/01	Soraya Merchant
Turbidity	TURB	4963703	N/A	2017/05/02	Julia McGovern

**Maxxam ID:** EHA582  
**Sample ID:** MW8  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4959705	N/A	2017/05/02	Automated Statchk
Alkalinity	KONE	4962307	N/A	2017/05/03	Nancy Rogers
Chloride	KONE	4962319	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962336	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4963694	N/A	2017/05/02	Julia McGovern
Hardness (calculated as CaCO3)		4959568	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959901	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4962494	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4962132	2017/05/01	2017/05/01	Bryon Angevine
Ion Balance (% Difference)	CALC	4959707	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4959708	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH4	4973133	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962343	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962344	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4959709	N/A	2017/05/03	Automated Statchk
pH	AT	4963693	N/A	2017/05/02	Julia McGovern
Phosphorus - ortho	KONE	4962341	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4959710	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4959711	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962331	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962327	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4959712	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4962358	N/A	2017/05/01	Soraya Merchant
Turbidity	TURB	4962161	N/A	2017/05/01	Julia McGovern

Maxxam Job #: B784339  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA583  
**Sample ID:** MW9  
**Matrix:** Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4959705	N/A	2017/05/02	Automated Statchk
Alkalinity	KONE	4962347	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962349	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962356	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4963694	N/A	2017/05/02	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4959568	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959901	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4962494	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4962132	2017/05/01	2017/05/01	Bryon Angevine
Ion Balance (% Difference)	CALC	4959707	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4959708	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4972947	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962365	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962366	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4959709	N/A	2017/05/03	Automated Statchk
pH	AT	4963693	N/A	2017/05/02	Julia McGovern
Phosphorus - ortho	KONE	4962361	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4959710	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4959711	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962354	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962352	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4959712	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4962358	N/A	2017/05/01	Soraya Merchant
Turbidity	TURB	4963703	N/A	2017/05/02	Julia McGovern

**Maxxam ID:** EHA584  
**Sample ID:** MW10  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4959705	N/A	2017/05/02	Automated Statchk
Alkalinity	KONE	4962347	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962349	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962356	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4963694	N/A	2017/05/02	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4959568	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959901	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4962494	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4962132	2017/05/01	2017/05/01	Bryon Angevine
Ion Balance (% Difference)	CALC	4959707	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4959708	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4972947	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962365	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962366	N/A	2017/05/02	Nancy Rogers

Maxxam Job #: B784339  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA584  
**Sample ID:** MW10  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Nitrogen - Nitrate (as N)	CALC	4959709	N/A	2017/05/03	Automated Statchk
pH	AT	4963693	N/A	2017/05/02	Julia McGovern
Phosphorus - ortho	KONE	4962361	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4959710	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4959711	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962354	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962352	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4959712	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4962358	N/A	2017/05/01	Soraya Merchant
Turbidity	TURB	4963703	N/A	2017/05/02	Julia McGovern

**Maxxam ID:** EHA584 Dup  
**Sample ID:** MW10  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Turbidity	TURB	4963703	N/A	2017/05/02	Julia McGovern

**Maxxam ID:** EHA585  
**Sample ID:** MW11  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4959705	N/A	2017/05/02	Automated Statchk
Alkalinity	KONE	4962347	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962349	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962356	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4963694	N/A	2017/05/02	Julia McGovern
Hardness (calculated as CaCO3)		4959568	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959901	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4962494	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4962132	2017/05/01	2017/05/01	Bryon Angevine
Ion Balance (% Difference)	CALC	4959707	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4959708	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH4	4972947	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962365	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962366	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4959709	N/A	2017/05/03	Automated Statchk
pH	AT	4963693	N/A	2017/05/02	Julia McGovern
Phosphorus - ortho	KONE	4962361	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4959710	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4959711	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962354	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962352	N/A	2017/05/03	Nancy Rogers



Maxxam Job #: B784339  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA585  
**Sample ID:** MW11  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Total Dissolved Solids (TDS calc)	CALC	4959712	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4962358	N/A	2017/05/01	Soraya Merchant
Turbidity	TURB	4963703	N/A	2017/05/02	Julia McGovern

**Maxxam ID:** EHA586  
**Sample ID:** MW12  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4959705	N/A	2017/05/03	Automated Statchk
Alkalinity	KONE	4962347	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962349	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962356	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4965729	N/A	2017/05/03	Julia McGovern
Hardness (calculated as CaCO3)		4959568	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4959901	2017/04/28	2017/05/01	Arlene Rossiter
Metals Water Diss. MS	CICP/MS	4962494	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4962132	2017/05/01	2017/05/01	Bryon Angevine
Ion Balance (% Difference)	CALC	4959707	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4959708	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH4	4972947	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962365	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962366	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4959709	N/A	2017/05/03	Automated Statchk
pH	AT	4965728	N/A	2017/05/03	Julia McGovern
Phosphorus - ortho	KONE	4962361	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4959710	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4959711	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962354	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962352	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4959712	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4962358	N/A	2017/05/01	Soraya Merchant
Turbidity	TURB	4962161	N/A	2017/05/01	Julia McGovern

**Maxxam ID:** EHA586 Dup  
**Sample ID:** MW12  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Conductance - water	AT	4965729	N/A	2017/05/03	Julia McGovern
pH	AT	4965728	N/A	2017/05/03	Julia McGovern

Maxxam Job #: B784339  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA587  
**Sample ID:** MW-DUP  
**Matrix:** Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4959705	N/A	2017/05/02	Automated Statchk
Alkalinity	KONE	4962347	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962349	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962356	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4963694	N/A	2017/05/02	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4959568	N/A	2017/05/02	Automated Statchk
Mercury - Total (CVAA,LL)	CV/AA	4964407	2017/05/02	2017/05/03	Arlene Rossiter
Metals Water Diss. MS (as rec'd)	CICP/MS	4962508	N/A	2017/05/02	Bryon Angevine
Metals Water Total MS	CICP/MS	4962132	2017/05/01	2017/05/01	Bryon Angevine
Ion Balance (% Difference)	CALC	4959707	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4959708	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4972947	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962365	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962366	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4959709	N/A	2017/05/03	Automated Statchk
pH	AT	4963693	N/A	2017/05/02	Julia McGovern
Phosphorus - ortho	KONE	4962361	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4959710	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4959711	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962354	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962352	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4959712	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4962358	N/A	2017/05/01	Soraya Merchant
Turbidity	TURB	4963703	N/A	2017/05/02	Julia McGovern

## GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	-0.7°C
Package 2	2.0°C
Package 3	2.0°C
Package 4	3.7°C

Sample EHA561 [MW1S] : Poor RCap Ion Balance due to sample matrix. Possibly due to fine particulate matter. Anion sum does not include contribution from Total Organic Carbon.

Sample EHA567 [MW4S] : Elevated reporting limits for trace metals due to sample matrix.

Poor RCap Ion Balance due to sample matrix. Cation sum does not include contribution from Mn.

Sample EHA570 [MW6S] : Poor RCap Ion Balance due to sample matrix. Possibly due to fine particulate matter. Anion sum does not include contribution from Total Organic Carbon.

Sample EHA580 [MW6D] : Poor RCap Ion Balance due to sample matrix.

Sample EHA583 [MW9] : Poor RCap Ion Balance due to sample matrix. Cation sum does not include contribution from Mn.

Sample EHA585 [MW11] : Poor RCap Ion Balance due to sample matrix. Cation sum does not include contribution from Mn.

Sample EHA586 [MW12] : Poor RCap Ion Balance due to sample matrix. Possibly due to fine particulate matter. Anion sum does not include contribution from Total Organic Carbon.

**Results relate only to the items tested.**

## QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4959901	ARS	Matrix Spike(EHA583)	Total Mercury (Hg)	2017/05/01		98	%	80 - 120
4959901	ARS	Spiked Blank	Total Mercury (Hg)	2017/05/01		104	%	80 - 120
4959901	ARS	Method Blank	Total Mercury (Hg)	2017/05/01	<0.013		ug/L	
4959901	ARS	RPD - Sample/Sample Dup	Total Mercury (Hg)	2017/05/01	NC		%	20
4960076	SMT	Matrix Spike	Total Organic Carbon (C)	2017/04/28		102	%	80 - 120
4960076	SMT	Spiked Blank	Total Organic Carbon (C)	2017/04/28		103	%	80 - 120
4960076	SMT	Method Blank	Total Organic Carbon (C)	2017/04/28	<0.50		mg/L	
4960076	SMT	RPD - Sample/Sample Dup	Total Organic Carbon (C)	2017/04/28	NC		%	20
4962130	BAN	Matrix Spike	Total Lead (Pb)	2017/05/01		95	%	80 - 120
4962130	BAN	Spiked Blank	Total Lead (Pb)	2017/05/01		97	%	80 - 120
4962130	BAN	Method Blank	Total Lead (Pb)	2017/05/01	<0.50		ug/L	
4962130	BAN	RPD - Sample/Sample Dup	Total Lead (Pb)	2017/05/01	0.98		%	20
4962132	BAN	Matrix Spike	Total Lead (Pb)	2017/05/01		93	%	80 - 120
4962132	BAN	Spiked Blank	Total Lead (Pb)	2017/05/01		94	%	80 - 120
4962132	BAN	Method Blank	Total Lead (Pb)	2017/05/01	<0.50		ug/L	
4962161	JMV	QC Standard	Turbidity	2017/05/01		101	%	80 - 120
4962161	JMV	Spiked Blank	Turbidity	2017/05/01		98	%	80 - 120
4962161	JMV	Method Blank	Turbidity	2017/05/01	<0.10		NTU	
4962161	JMV	RPD - Sample/Sample Dup	Turbidity	2017/05/01	4.8		%	20
4962307	NRG	Matrix Spike	Total Alkalinity (Total as CaCO3)	2017/05/02		103	%	80 - 120
4962307	NRG	Spiked Blank	Total Alkalinity (Total as CaCO3)	2017/05/03		108	%	80 - 120
4962307	NRG	Method Blank	Total Alkalinity (Total as CaCO3)	2017/05/02	<5.0		mg/L	
4962307	NRG	RPD - Sample/Sample Dup	Total Alkalinity (Total as CaCO3)	2017/05/02	NC		%	25
4962319	NRG	Matrix Spike	Dissolved Chloride (Cl)	2017/05/02		NC	%	80 - 120
4962319	NRG	QC Standard	Dissolved Chloride (Cl)	2017/05/02		107	%	80 - 120
4962319	NRG	Spiked Blank	Dissolved Chloride (Cl)	2017/05/02		99	%	80 - 120
4962319	NRG	Method Blank	Dissolved Chloride (Cl)	2017/05/02	<1.0		mg/L	
4962319	NRG	RPD - Sample/Sample Dup	Dissolved Chloride (Cl)	2017/05/02	1.4		%	25
4962327	NRG	Matrix Spike	Dissolved Sulphate (SO4)	2017/05/03		139 (1)	%	80 - 120
4962327	NRG	Spiked Blank	Dissolved Sulphate (SO4)	2017/05/03		113	%	80 - 120
4962327	NRG	Method Blank	Dissolved Sulphate (SO4)	2017/05/03	<2.0		mg/L	
4962327	NRG	RPD - Sample/Sample Dup	Dissolved Sulphate (SO4)	2017/05/03	NC		%	25
4962331	NRG	Matrix Spike	Reactive Silica (SiO2)	2017/05/02		96	%	80 - 120
4962331	NRG	Spiked Blank	Reactive Silica (SiO2)	2017/05/02		96	%	80 - 120
4962331	NRG	Method Blank	Reactive Silica (SiO2)	2017/05/02	<0.50		mg/L	
4962331	NRG	RPD - Sample/Sample Dup	Reactive Silica (SiO2)	2017/05/02	3.8		%	25
4962336	NRG	Spiked Blank	Colour	2017/05/03		100	%	80 - 120
4962336	NRG	Method Blank	Colour	2017/05/03	<5.0		TCU	
4962336	NRG	RPD - Sample/Sample Dup	Colour	2017/05/03	3.7 (2)		%	20
4962341	NRG	Matrix Spike	Orthophosphate (P)	2017/05/02		105	%	80 - 120
4962341	NRG	Spiked Blank	Orthophosphate (P)	2017/05/02		103	%	80 - 120
4962341	NRG	Method Blank	Orthophosphate (P)	2017/05/02	<0.010		mg/L	
4962341	NRG	RPD - Sample/Sample Dup	Orthophosphate (P)	2017/05/02	21		%	25
4962343	NRG	Matrix Spike	Nitrate + Nitrite (N)	2017/05/02		90	%	80 - 120
4962343	NRG	Spiked Blank	Nitrate + Nitrite (N)	2017/05/02		98	%	80 - 120
4962343	NRG	Method Blank	Nitrate + Nitrite (N)	2017/05/02	<0.050		mg/L	
4962343	NRG	RPD - Sample/Sample Dup	Nitrate + Nitrite (N)	2017/05/02	NC		%	25
4962344	NRG	Matrix Spike	Nitrite (N)	2017/05/02		95	%	80 - 120
4962344	NRG	Spiked Blank	Nitrite (N)	2017/05/02		103	%	80 - 120
4962344	NRG	Method Blank	Nitrite (N)	2017/05/02	<0.010		mg/L	
4962344	NRG	RPD - Sample/Sample Dup	Nitrite (N)	2017/05/02	NC		%	25
4962347	NRG	Matrix Spike	Total Alkalinity (Total as CaCO3)	2017/05/03		NC	%	80 - 120

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4962347	NRG	Spiked Blank	Total Alkalinity (Total as CaCO <sub>3</sub> )	2017/05/02		107	%	80 - 120
4962347	NRG	Method Blank	Total Alkalinity (Total as CaCO <sub>3</sub> )	2017/05/02	<5.0		mg/L	
4962347	NRG	RPD - Sample/Sample Dup	Total Alkalinity (Total as CaCO <sub>3</sub> )	2017/05/03	2.3		%	25
4962349	NRG	Matrix Spike	Dissolved Chloride (Cl)	2017/05/02		NC	%	80 - 120
4962349	NRG	QC Standard	Dissolved Chloride (Cl)	2017/05/02		107	%	80 - 120
4962349	NRG	Spiked Blank	Dissolved Chloride (Cl)	2017/05/02		97	%	80 - 120
4962349	NRG	Method Blank	Dissolved Chloride (Cl)	2017/05/02	<1.0		mg/L	
4962349	NRG	RPD - Sample/Sample Dup	Dissolved Chloride (Cl)	2017/05/02	2.5		%	25
4962352	NRG	Matrix Spike	Dissolved Sulphate (SO <sub>4</sub> )	2017/05/03		NC	%	80 - 120
4962352	NRG	Spiked Blank	Dissolved Sulphate (SO <sub>4</sub> )	2017/05/03		114	%	80 - 120
4962352	NRG	Method Blank	Dissolved Sulphate (SO <sub>4</sub> )	2017/05/03	<2.0		mg/L	
4962352	NRG	RPD - Sample/Sample Dup	Dissolved Sulphate (SO <sub>4</sub> )	2017/05/03	1.4		%	25
4962354	NRG	Matrix Spike	Reactive Silica (SiO <sub>2</sub> )	2017/05/02		NC	%	80 - 120
4962354	NRG	Spiked Blank	Reactive Silica (SiO <sub>2</sub> )	2017/05/02		98	%	80 - 120
4962354	NRG	Method Blank	Reactive Silica (SiO <sub>2</sub> )	2017/05/02	<0.50		mg/L	
4962354	NRG	RPD - Sample/Sample Dup	Reactive Silica (SiO <sub>2</sub> )	2017/05/02	1.4		%	25
4962356	NRG	Spiked Blank	Colour	2017/05/03		113	%	80 - 120
4962356	NRG	Method Blank	Colour	2017/05/03	<5.0		TCU	
4962356	NRG	RPD - Sample/Sample Dup	Colour	2017/05/03	NC		%	20
4962358	SMT	Matrix Spike(EHA562)	Total Organic Carbon (C)	2017/05/01		100	%	80 - 120
4962358	SMT	Spiked Blank	Total Organic Carbon (C)	2017/05/01		93	%	80 - 120
4962358	SMT	Method Blank	Total Organic Carbon (C)	2017/05/01	<0.50		mg/L	
4962358	SMT	RPD - Sample/Sample Dup	Total Organic Carbon (C)	2017/05/01	NC (3)		%	20
4962361	NRG	Matrix Spike	Orthophosphate (P)	2017/05/02		98	%	80 - 120
4962361	NRG	Spiked Blank	Orthophosphate (P)	2017/05/02		103	%	80 - 120
4962361	NRG	Method Blank	Orthophosphate (P)	2017/05/02	<0.010		mg/L	
4962361	NRG	RPD - Sample/Sample Dup	Orthophosphate (P)	2017/05/02	NC		%	25
4962365	NRG	Matrix Spike	Nitrate + Nitrite (N)	2017/05/02		102	%	80 - 120
4962365	NRG	Spiked Blank	Nitrate + Nitrite (N)	2017/05/02		91	%	80 - 120
4962365	NRG	Method Blank	Nitrate + Nitrite (N)	2017/05/02	<0.050		mg/L	
4962365	NRG	RPD - Sample/Sample Dup	Nitrate + Nitrite (N)	2017/05/02	1.7		%	25
4962366	NRG	Matrix Spike	Nitrite (N)	2017/05/02		101	%	80 - 120
4962366	NRG	Spiked Blank	Nitrite (N)	2017/05/02		100	%	80 - 120
4962366	NRG	Method Blank	Nitrite (N)	2017/05/02	<0.010		mg/L	
4962366	NRG	RPD - Sample/Sample Dup	Nitrite (N)	2017/05/02	NC		%	25
4962494	BAN	Matrix Spike(EHA565)	Dissolved Aluminum (Al)	2017/05/02		102	%	80 - 120
			Dissolved Antimony (Sb)	2017/05/02		109	%	80 - 120
			Dissolved Arsenic (As)	2017/05/02		100	%	80 - 120
			Dissolved Barium (Ba)	2017/05/02		99	%	80 - 120
			Dissolved Beryllium (Be)	2017/05/02		106	%	80 - 120
			Dissolved Bismuth (Bi)	2017/05/02		103	%	80 - 120
			Dissolved Boron (B)	2017/05/02		107	%	80 - 120
			Dissolved Cadmium (Cd)	2017/05/02		104	%	80 - 120
			Dissolved Calcium (Ca)	2017/05/02		NC	%	80 - 120
			Dissolved Chromium (Cr)	2017/05/02		99	%	80 - 120
			Dissolved Cobalt (Co)	2017/05/02		97	%	80 - 120
			Dissolved Copper (Cu)	2017/05/02		96	%	80 - 120
			Dissolved Iron (Fe)	2017/05/02		103	%	80 - 120
			Dissolved Lead (Pb)	2017/05/02		99	%	80 - 120
			Dissolved Magnesium (Mg)	2017/05/02		NC	%	80 - 120
			Dissolved Manganese (Mn)	2017/05/02		NC	%	80 - 120
			Dissolved Molybdenum (Mo)	2017/05/02		107	%	80 - 120

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4962494	BAN	Spiked Blank	Dissolved Nickel (Ni)	2017/05/02		98	%	80 - 120
			Dissolved Phosphorus (P)	2017/05/02		108	%	80 - 120
			Dissolved Potassium (K)	2017/05/02		109	%	80 - 120
			Dissolved Selenium (Se)	2017/05/02		105	%	80 - 120
			Dissolved Silver (Ag)	2017/05/02		94	%	80 - 120
			Dissolved Sodium (Na)	2017/05/02		102	%	80 - 120
			Dissolved Strontium (Sr)	2017/05/02		NC	%	80 - 120
			Dissolved Thallium (Tl)	2017/05/02		105	%	80 - 120
			Dissolved Tin (Sn)	2017/05/02		109	%	80 - 120
			Dissolved Titanium (Ti)	2017/05/02		104	%	80 - 120
			Dissolved Uranium (U)	2017/05/02		111	%	80 - 120
			Dissolved Vanadium (V)	2017/05/02		100	%	80 - 120
			Dissolved Zinc (Zn)	2017/05/02		101	%	80 - 120
			Dissolved Aluminum (Al)	2017/05/02		102	%	80 - 120
			Dissolved Antimony (Sb)	2017/05/02		104	%	80 - 120
			Dissolved Arsenic (As)	2017/05/02		98	%	80 - 120
			Dissolved Barium (Ba)	2017/05/02		101	%	80 - 120
			Dissolved Beryllium (Be)	2017/05/02		103	%	80 - 120
			Dissolved Bismuth (Bi)	2017/05/02		105	%	80 - 120
			Dissolved Boron (B)	2017/05/02		106	%	80 - 120
			Dissolved Cadmium (Cd)	2017/05/02		104	%	80 - 120
			Dissolved Calcium (Ca)	2017/05/02		105	%	80 - 120
			Dissolved Chromium (Cr)	2017/05/02		98	%	80 - 120
			Dissolved Cobalt (Co)	2017/05/02		99	%	80 - 120
			Dissolved Copper (Cu)	2017/05/02		97	%	80 - 120
			Dissolved Iron (Fe)	2017/05/02		102	%	80 - 120
			Dissolved Lead (Pb)	2017/05/02		100	%	80 - 120
			Dissolved Magnesium (Mg)	2017/05/02		106	%	80 - 120
			Dissolved Manganese (Mn)	2017/05/02		100	%	80 - 120
			Dissolved Molybdenum (Mo)	2017/05/02		106	%	80 - 120
			Dissolved Nickel (Ni)	2017/05/02		100	%	80 - 120
			Dissolved Phosphorus (P)	2017/05/02		105	%	80 - 120
			Dissolved Potassium (K)	2017/05/02		109	%	80 - 120
			Dissolved Selenium (Se)	2017/05/02		103	%	80 - 120
			Dissolved Silver (Ag)	2017/05/02		99	%	80 - 120
			Dissolved Sodium (Na)	2017/05/02		105	%	80 - 120
			Dissolved Strontium (Sr)	2017/05/02		100	%	80 - 120
			Dissolved Thallium (Tl)	2017/05/02		106	%	80 - 120
			Dissolved Tin (Sn)	2017/05/02		107	%	80 - 120
			Dissolved Titanium (Ti)	2017/05/02		105	%	80 - 120
			Dissolved Uranium (U)	2017/05/02		110	%	80 - 120
			Dissolved Vanadium (V)	2017/05/02		99	%	80 - 120
			Dissolved Zinc (Zn)	2017/05/02		104	%	80 - 120
4962494	BAN	Method Blank	Dissolved Aluminum (Al)	2017/05/02	<5.0		ug/L	
			Dissolved Antimony (Sb)	2017/05/02	<1.0		ug/L	
			Dissolved Arsenic (As)	2017/05/02	<1.0		ug/L	
			Dissolved Barium (Ba)	2017/05/02	<1.0		ug/L	
			Dissolved Beryllium (Be)	2017/05/02	<1.0		ug/L	
			Dissolved Bismuth (Bi)	2017/05/02	<2.0		ug/L	
			Dissolved Boron (B)	2017/05/02	<50		ug/L	
			Dissolved Cadmium (Cd)	2017/05/02	<0.010		ug/L	
			Dissolved Calcium (Ca)	2017/05/02	<100		ug/L	



Maxxam Job #: B784339  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4962494	BAN	RPD - Sample/Sample Dup	Dissolved Chromium (Cr)	2017/05/02	<1.0		ug/L	
			Dissolved Cobalt (Co)	2017/05/02	<0.40		ug/L	
			Dissolved Copper (Cu)	2017/05/02	<2.0		ug/L	
			Dissolved Iron (Fe)	2017/05/02	<50		ug/L	
			Dissolved Lead (Pb)	2017/05/02	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2017/05/02	<100		ug/L	
			Dissolved Manganese (Mn)	2017/05/02	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2017/05/02	<2.0		ug/L	
			Dissolved Nickel (Ni)	2017/05/02	<2.0		ug/L	
			Dissolved Phosphorus (P)	2017/05/02	<100		ug/L	
			Dissolved Potassium (K)	2017/05/02	<100		ug/L	
			Dissolved Selenium (Se)	2017/05/02	<1.0		ug/L	
			Dissolved Silver (Ag)	2017/05/02	<0.10		ug/L	
			Dissolved Sodium (Na)	2017/05/02	<100		ug/L	
			Dissolved Strontium (Sr)	2017/05/02	<2.0		ug/L	
			Dissolved Thallium (Tl)	2017/05/02	<0.10		ug/L	
			Dissolved Tin (Sn)	2017/05/02	<2.0		ug/L	
			Dissolved Titanium (Ti)	2017/05/02	<2.0		ug/L	
			Dissolved Uranium (U)	2017/05/02	<0.10		ug/L	
			Dissolved Vanadium (V)	2017/05/02	<2.0		ug/L	
			Dissolved Zinc (Zn)	2017/05/02	<5.0		ug/L	
			Dissolved Aluminum (Al)	2017/05/02	5.2		%	20
			Dissolved Antimony (Sb)	2017/05/02	NC		%	20
			Dissolved Arsenic (As)	2017/05/02	0.11		%	20
			Dissolved Barium (Ba)	2017/05/02	5.5		%	20
			Dissolved Beryllium (Be)	2017/05/02	NC		%	20
			Dissolved Bismuth (Bi)	2017/05/02	NC		%	20
			Dissolved Boron (B)	2017/05/02	NC		%	20
			Dissolved Cadmium (Cd)	2017/05/02	12		%	20
			Dissolved Calcium (Ca)	2017/05/02	2.9		%	20
			Dissolved Chromium (Cr)	2017/05/02	NC		%	20
			Dissolved Cobalt (Co)	2017/05/02	4.3		%	20
			Dissolved Copper (Cu)	2017/05/02	7.1		%	20
			Dissolved Iron (Fe)	2017/05/02	NC		%	20
			Dissolved Lead (Pb)	2017/05/02	NC		%	20
			Dissolved Magnesium (Mg)	2017/05/02	1.6		%	20
			Dissolved Manganese (Mn)	2017/05/02	1.3		%	20
			Dissolved Molybdenum (Mo)	2017/05/02	NC		%	20
			Dissolved Nickel (Ni)	2017/05/02	2.7		%	20
			Dissolved Phosphorus (P)	2017/05/02	NC		%	20
			Dissolved Potassium (K)	2017/05/02	1.2		%	20
			Dissolved Selenium (Se)	2017/05/02	NC		%	20
			Dissolved Silver (Ag)	2017/05/02	NC		%	20
			Dissolved Sodium (Na)	2017/05/02	1.3		%	20
			Dissolved Strontium (Sr)	2017/05/02	3.0		%	20
			Dissolved Thallium (Tl)	2017/05/02	NC		%	20
			Dissolved Tin (Sn)	2017/05/02	NC		%	20
			Dissolved Titanium (Ti)	2017/05/02	NC		%	20
			Dissolved Uranium (U)	2017/05/02	0.66		%	20
			Dissolved Vanadium (V)	2017/05/02	NC		%	20
			Dissolved Zinc (Zn)	2017/05/02	NC		%	20
4962508	BAN	Matrix Spike	Dissolved Aluminum (Al)	2017/05/02		NC	%	80 - 120

Maxxam Job #: B784339  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4962508	BAN	Spiked Blank	Dissolved Antimony (Sb)	2017/05/02		113	%	80 - 120
			Dissolved Arsenic (As)	2017/05/02		99	%	80 - 120
			Dissolved Barium (Ba)	2017/05/02		NC	%	80 - 120
			Dissolved Beryllium (Be)	2017/05/02		108	%	80 - 120
			Dissolved Bismuth (Bi)	2017/05/02		103	%	80 - 120
			Dissolved Boron (B)	2017/05/02		108	%	80 - 120
			Dissolved Cadmium (Cd)	2017/05/02		103	%	80 - 120
			Dissolved Calcium (Ca)	2017/05/02		NC	%	80 - 120
			Dissolved Chromium (Cr)	2017/05/02		95	%	80 - 120
			Dissolved Cobalt (Co)	2017/05/02		92	%	80 - 120
			Dissolved Copper (Cu)	2017/05/02		90	%	80 - 120
			Dissolved Iron (Fe)	2017/05/02		NC	%	80 - 120
			Dissolved Lead (Pb)	2017/05/02		98	%	80 - 120
			Dissolved Magnesium (Mg)	2017/05/02		NC	%	80 - 120
			Dissolved Manganese (Mn)	2017/05/02		NC	%	80 - 120
			Dissolved Molybdenum (Mo)	2017/05/02		113	%	80 - 120
			Dissolved Nickel (Ni)	2017/05/02		NC	%	80 - 120
			Dissolved Phosphorus (P)	2017/05/02		107	%	80 - 120
			Dissolved Potassium (K)	2017/05/02		NC	%	80 - 120
			Dissolved Selenium (Se)	2017/05/02		101	%	80 - 120
			Dissolved Silver (Ag)	2017/05/02		100	%	80 - 120
			Dissolved Sodium (Na)	2017/05/02		NC	%	80 - 120
			Dissolved Strontium (Sr)	2017/05/02		NC	%	80 - 120
			Dissolved Thallium (Tl)	2017/05/02		102	%	80 - 120
			Dissolved Tin (Sn)	2017/05/02		116	%	80 - 120
			Dissolved Titanium (Ti)	2017/05/02		103	%	80 - 120
			Dissolved Uranium (U)	2017/05/02		112	%	80 - 120
			Dissolved Vanadium (V)	2017/05/02		99	%	80 - 120
			Dissolved Zinc (Zn)	2017/05/02		92	%	80 - 120
			Dissolved Aluminum (Al)	2017/05/02		107	%	80 - 120
			Dissolved Antimony (Sb)	2017/05/02		107	%	80 - 120
			Dissolved Arsenic (As)	2017/05/02		98	%	80 - 120
			Dissolved Barium (Ba)	2017/05/02		100	%	80 - 120
			Dissolved Beryllium (Be)	2017/05/02		105	%	80 - 120
			Dissolved Bismuth (Bi)	2017/05/02		108	%	80 - 120
			Dissolved Boron (B)	2017/05/02		105	%	80 - 120
			Dissolved Cadmium (Cd)	2017/05/02		102	%	80 - 120
			Dissolved Calcium (Ca)	2017/05/02		105	%	80 - 120
			Dissolved Chromium (Cr)	2017/05/02		97	%	80 - 120
			Dissolved Cobalt (Co)	2017/05/02		98	%	80 - 120
			Dissolved Copper (Cu)	2017/05/02		96	%	80 - 120
			Dissolved Iron (Fe)	2017/05/02		103	%	80 - 120
			Dissolved Lead (Pb)	2017/05/02		102	%	80 - 120
			Dissolved Magnesium (Mg)	2017/05/02		110	%	80 - 120
			Dissolved Manganese (Mn)	2017/05/02		103	%	80 - 120
			Dissolved Molybdenum (Mo)	2017/05/02		104	%	80 - 120
			Dissolved Nickel (Ni)	2017/05/02		98	%	80 - 120
			Dissolved Phosphorus (P)	2017/05/02		109	%	80 - 120
			Dissolved Potassium (K)	2017/05/02		111	%	80 - 120
			Dissolved Selenium (Se)	2017/05/02		101	%	80 - 120
			Dissolved Silver (Ag)	2017/05/02		100	%	80 - 120
			Dissolved Sodium (Na)	2017/05/02		105	%	80 - 120

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4962508	BAN	Method Blank	Dissolved Strontium (Sr)	2017/05/02		103	%	80 - 120
			Dissolved Thallium (Tl)	2017/05/02		106	%	80 - 120
			Dissolved Tin (Sn)	2017/05/02		110	%	80 - 120
			Dissolved Titanium (Ti)	2017/05/02		101	%	80 - 120
			Dissolved Uranium (U)	2017/05/02		113	%	80 - 120
			Dissolved Vanadium (V)	2017/05/02		99	%	80 - 120
			Dissolved Zinc (Zn)	2017/05/02		102	%	80 - 120
			Dissolved Aluminum (Al)	2017/05/02	<5.0		ug/L	
			Dissolved Antimony (Sb)	2017/05/02	<1.0		ug/L	
			Dissolved Arsenic (As)	2017/05/02	<1.0		ug/L	
			Dissolved Barium (Ba)	2017/05/02	<1.0		ug/L	
			Dissolved Beryllium (Be)	2017/05/02	<1.0		ug/L	
			Dissolved Bismuth (Bi)	2017/05/02	<2.0		ug/L	
			Dissolved Boron (B)	2017/05/02	<50		ug/L	
			Dissolved Cadmium (Cd)	2017/05/02	<0.010		ug/L	
			Dissolved Calcium (Ca)	2017/05/02	<100		ug/L	
			Dissolved Chromium (Cr)	2017/05/02	<1.0		ug/L	
			Dissolved Cobalt (Co)	2017/05/02	<0.40		ug/L	
			Dissolved Copper (Cu)	2017/05/02	<2.0		ug/L	
			Dissolved Iron (Fe)	2017/05/02	<50		ug/L	
			Dissolved Lead (Pb)	2017/05/02	<0.50		ug/L	
			Dissolved Magnesium (Mg)	2017/05/02	<100		ug/L	
			Dissolved Manganese (Mn)	2017/05/02	<2.0		ug/L	
			Dissolved Molybdenum (Mo)	2017/05/02	<2.0		ug/L	
			Dissolved Nickel (Ni)	2017/05/02	<2.0		ug/L	
			Dissolved Phosphorus (P)	2017/05/02	<100		ug/L	
			Dissolved Potassium (K)	2017/05/02	<100		ug/L	
			Dissolved Selenium (Se)	2017/05/02	<1.0		ug/L	
			Dissolved Silver (Ag)	2017/05/02	<0.10		ug/L	
			Dissolved Sodium (Na)	2017/05/02	<100		ug/L	
			Dissolved Strontium (Sr)	2017/05/02	<2.0		ug/L	
			Dissolved Thallium (Tl)	2017/05/02	<0.10		ug/L	
			Dissolved Tin (Sn)	2017/05/02	<2.0		ug/L	
			Dissolved Titanium (Ti)	2017/05/02	<2.0		ug/L	
			Dissolved Uranium (U)	2017/05/02	<0.10		ug/L	
			Dissolved Vanadium (V)	2017/05/02	<2.0		ug/L	
			Dissolved Zinc (Zn)	2017/05/02	<5.0		ug/L	
4962508	BAN	RPD - Sample/Sample Dup	Dissolved Aluminum (Al)	2017/05/02	0.65		%	20
			Dissolved Antimony (Sb)	2017/05/02	NC		%	20
			Dissolved Arsenic (As)	2017/05/02	0.31		%	20
			Dissolved Barium (Ba)	2017/05/02	1.1		%	20
			Dissolved Beryllium (Be)	2017/05/02	NC		%	20
			Dissolved Bismuth (Bi)	2017/05/02	NC		%	20
			Dissolved Boron (B)	2017/05/02	NC		%	20
			Dissolved Cadmium (Cd)	2017/05/02	0.47		%	20
			Dissolved Calcium (Ca)	2017/05/02	0.48		%	20
			Dissolved Chromium (Cr)	2017/05/02	3.1		%	20
			Dissolved Cobalt (Co)	2017/05/02	1.1		%	20
			Dissolved Copper (Cu)	2017/05/02	1.2		%	20
			Dissolved Iron (Fe)	2017/05/02	1.6		%	20
			Dissolved Lead (Pb)	2017/05/02	1.3		%	20
			Dissolved Magnesium (Mg)	2017/05/02	1.2		%	20

Maxxam Job #: B784339  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Dissolved Manganese (Mn)	2017/05/02	0.61		%	20
			Dissolved Molybdenum (Mo)	2017/05/02	NC		%	20
			Dissolved Nickel (Ni)	2017/05/02	1.7		%	20
			Dissolved Phosphorus (P)	2017/05/02	NC		%	20
			Dissolved Potassium (K)	2017/05/02	0.32		%	20
			Dissolved Selenium (Se)	2017/05/02	NC		%	20
			Dissolved Silver (Ag)	2017/05/02	NC		%	20
			Dissolved Sodium (Na)	2017/05/02	2.0		%	20
			Dissolved Strontium (Sr)	2017/05/02	0.60		%	20
			Dissolved Thallium (Tl)	2017/05/02	NC		%	20
			Dissolved Tin (Sn)	2017/05/02	NC		%	20
			Dissolved Titanium (Ti)	2017/05/02	NC		%	20
			Dissolved Uranium (U)	2017/05/02	3.5		%	20
			Dissolved Vanadium (V)	2017/05/02	NC		%	20
			Dissolved Zinc (Zn)	2017/05/02	1.2		%	20
4963693	JMV	QC Standard	pH	2017/05/02		101	%	97 - 103
4963693	JMV	RPD - Sample/Sample Dup	pH	2017/05/02	1.6		%	N/A
4963694	JMV	Spiked Blank	Conductivity	2017/05/02		101	%	80 - 120
4963694	JMV	Method Blank	Conductivity	2017/05/02	1.3, RDL=1.0		uS/cm	
4963694	JMV	RPD - Sample/Sample Dup	Conductivity	2017/05/02	0.94		%	25
4963699	JMV	QC Standard	pH	2017/05/02		101	%	97 - 103
4963699	JMV	RPD - Sample/Sample Dup	pH	2017/05/02	0.99 (4)		%	N/A
4963701	JMV	Spiked Blank	Conductivity	2017/05/02		100	%	80 - 120
4963701	JMV	Method Blank	Conductivity	2017/05/02	1.4, RDL=1.0		uS/cm	
4963701	JMV	RPD - Sample/Sample Dup	Conductivity	2017/05/02	1.1		%	25
4963703	JMV	QC Standard	Turbidity	2017/05/02		101	%	80 - 120
4963703	JMV	Spiked Blank	Turbidity	2017/05/02		98	%	80 - 120
4963703	JMV	Method Blank	Turbidity	2017/05/02	<0.10		NTU	
4963703	JMV	RPD - Sample/Sample Dup	Turbidity	2017/05/02	2.5		%	20
4963727	MLB	Matrix Spike	Total Lead (Pb)	2017/05/02		92	%	80 - 120
4963727	MLB	Spiked Blank	Total Lead (Pb)	2017/05/02		98	%	80 - 120
4963727	MLB	Method Blank	Total Lead (Pb)	2017/05/02	<0.50		ug/L	
4964407	ARS	Matrix Spike	Total Mercury (Hg)	2017/05/03		108	%	80 - 120
4964407	ARS	Spiked Blank	Total Mercury (Hg)	2017/05/03		100	%	80 - 120
4964407	ARS	Method Blank	Total Mercury (Hg)	2017/05/03	<0.013		ug/L	
4964407	ARS	RPD - Sample/Sample Dup	Total Mercury (Hg)	2017/05/03	NC		%	20
4965728	JMV	QC Standard	pH	2017/05/03		100	%	97 - 103
4965728	JMV	RPD - Sample/Sample Dup	pH	2017/05/03	0.037		%	N/A
4965729	JMV	Spiked Blank	Conductivity	2017/05/03		101	%	80 - 120
4965729	JMV	Method Blank	Conductivity	2017/05/03	1.2, RDL=1.0		uS/cm	
4965729	JMV	RPD - Sample/Sample Dup	Conductivity	2017/05/03	0.40		%	25
4972947	COP	Matrix Spike	Total Ammonia-N	2017/05/08		91	%	80 - 120
4972947	COP	Spiked Blank	Total Ammonia-N	2017/05/08		98	%	85 - 115
4972947	COP	Method Blank	Total Ammonia-N	2017/05/08	<0.050		mg/L	
4972947	COP	RPD - Sample/Sample Dup	Total Ammonia-N	2017/05/08	9.2		%	20
4972953	COP	Matrix Spike	Total Ammonia-N	2017/05/08		98	%	80 - 120
4972953	COP	Spiked Blank	Total Ammonia-N	2017/05/08		98	%	85 - 115
4972953	COP	Method Blank	Total Ammonia-N	2017/05/08	<0.050		mg/L	
4972953	COP	RPD - Sample/Sample Dup	Total Ammonia-N	2017/05/08	3.9		%	20

Maxxam Job #: B784339  
Report Date: 2017/05/09

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4973133	COP	Matrix Spike	Total Ammonia-N	2017/05/08		96	%	80 - 120
4973133	COP	Spiked Blank	Total Ammonia-N	2017/05/08		97	%	85 - 115
4973133	COP	Method Blank	Total Ammonia-N	2017/05/08	<0.050		mg/L	
4973133	COP	RPD - Sample/Sample Dup	Total Ammonia-N	2017/05/08	0.98		%	20
4973235	AHA	Matrix Spike	Total Ammonia-N	2017/05/08		94	%	80 - 120
4973235	AHA	Spiked Blank	Total Ammonia-N	2017/05/08		97	%	85 - 115
4973235	AHA	Method Blank	Total Ammonia-N	2017/05/08	<0.050		mg/L	
4973235	AHA	RPD - Sample/Sample Dup	Total Ammonia-N	2017/05/08	NC		%	20

N/A = Not Applicable

Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.

QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.

Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.

Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.

NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)

NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).

(1) Elevated matrix spike recovery due to sample matrix, result confirmed by repeat analysis.



(2) Elevated reporting limit due to sample matrix.

(3) Reporting limit was increased due to turbidity.

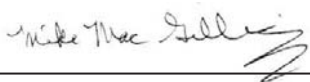
(4) pH: linear range exceedance. Extended linearity confirmed.

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).

Ewa Pranjić, M.Sc., C.Chem, Scientific Specialist




Mike MacGillivray, Scientific Specialist (Inorganics)

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.







**Maxxam**  
Maxxam Analytica International Corporation  
200 Bluewater Road, Bedford, Nova Scotia Canada B4B 1G9  
Tel: (902) 420-0203 Toll-free: 800-563-6266 Fax: (902) 420-8612 www.maxxam.ca

**Chain Of Custody Record**

Page 2 of 3

**INVOICE TO:**

Company Name: #41009 Englobe Corp.  
 Contact Name: Accounts Payable  
 Address: 97 Troop Ave  
 Dartmouth NS B3B 2A7  
 Phone: (902) 468-6486 x Fac: (902) 488-4919 x  
 Email: Dartmouth.AP@englobecorp.com

**Report Information**

Company Name: Lisa Ladouceur / Aven Cole  
 Contract Name:  
 Address:  
 Phone:  
 Email: lisa.ladouceur@englobecorp.com

**Project Information**

Quotation #: B72846  
 P.O. #: A08530  
 Project #: P-0010903-0-00-205  
 Project Name: Lake George Road, Lake George,  
 Site #: LL, LG  
 Sampled By:

**Laboratory Use Only**

Maxxam Job #: 8784339  
 Chain Of Custody Record  
 Project Manager: McJolli Hill  
 Bottle Order #: 60845  
 CUS08H4500-01

**Turnaround Time (TAT) Required:**

Regular (Standard) TAT: ☒  
 (will be applied if Rush TAT is not specified).  
 Standard TAT = 5-7 Working days for most tests.  
 Please note: Standard TAT for certain tests such as BOD and Dissolved Oxygen are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)  
 Date Required: ☐  
 Time Required:

Comments / Hazards / Other Required Analysis

**ANALYSIS REQUESTED (PLEASE BE SPECIFIC)**

Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered & Preserved	Lab Filtration Required	W	A: RCAP-MS Dissolved (Field Fill) in	Mercury - Dissolved (CVAA,LL)	Total Lead
1	MW6D	26/4/17		GW			X		X	X
2	MW7	26/4/17		GW			X		X	X
3	MW8	26/4/17		GW			X		X	X
4	MW9	25/4/17		GW			X		X	X
5	MW10	26/4/17		GW			X		X	X
6	MW11	26/4/17		GW			X		X	X
7	MW12	26/4/17		GW			X		X	X
8	MW-DUP	26/4/17		GW			X		X	X
9										
10										

**SPECIAL INSTRUCTIONS**

SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO MAXXAM.

\*\* Specify Matrix: Surface/Ground/Water/Sewage/Effluent/Seawater  
 Potable/Non-potable/Tissue/Soil/Sediment

**RELINQUISHED BY: (Signature/Print)**

*[Signature]*

**RECEIVED BY: (Signature/Print)**

*[Signature]*

Date: (YY/MM/DD) 17/4/2017

Time 16:00

Date: (YY/MM/DD) 17/4/2017

Time 16:00

# Jars used and not submitted

Time Sample

Temperature (°C) on Receipt

Custody Seal Intact on Coar?

White: Maxxam

Yellow: Client

UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.

IT IS THE RESPONSIBILITY OF THE RELINQUISHER TO ENSURE THE ACCURACY OF THE CHAIN OF CUSTODY RECORD. AN INCOMPLETE CHAIN OF CUSTODY MAY RESULT IN ANALYTICAL TAT DELAYS.

## CHAIN-OF-CUSTODY RECORD

[illegible][illegible]

RECEIVED BY (SIGN & PRINT)	DATE (YYYY/MM/DD)	TIME (HH:MM)
My B- 16115200		



Your P.O. #: A08530  
Your Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your C.O.C. #: 606956-01-01

**Attention: Lisa Ladouceur**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

**Report Date: 2017/05/08**

Report #: R4453171

Version: 1 - Final

## **CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B784383**

**Received: 2017/04/26, 16:26**

Sample Matrix: Drinking Water  
# Samples Received: 3

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Reference
Carbonate, Bicarbonate and Hydroxide	2	N/A	2017/05/01	N/A	SM 22 4500-CO2 D
Alkalinity	2	N/A	2017/05/02	ATL SOP 00013	EPA 310.2 R1974 m
Chloride	2	N/A	2017/05/02	ATL SOP 00014	SM 22 4500-Cl- E m
Colour	2	N/A	2017/05/03	ATL SOP 00020	SM 22 2120C m
Conductance - water	2	N/A	2017/05/01	ATL SOP 00004	SM 22 2510B m
Hardness (calculated as CaCO3)	2	N/A	2017/05/02	ATL SOP 00048	SM 22 2340 B
Metals Water Total MS	3	2017/05/01	2017/05/01	ATL SOP 00058	EPA 6020A R1 m
Ion Balance (% Difference)	2	N/A	2017/05/08	N/A	Auto Calc.
Anion and Cation Sum	2	N/A	2017/05/08	N/A	Auto Calc.
Total Ammonia-N (1)	2	N/A	2017/05/08	CAM SOP-00441	EPA GS I-2522-90 m
Nitrogen - Nitrate + Nitrite	2	N/A	2017/05/02	ATL SOP 00016	USGS SOPINCF0452.2 m
Nitrogen - Nitrite	2	N/A	2017/05/02	ATL SOP 00017	SM 22 4500-NO2- B m
Nitrogen - Nitrate (as N)	2	N/A	2017/05/03	ATL SOP 00018	ASTM D3867-16
pH (2)	2	N/A	2017/05/01	ATL SOP 00003	SM 22 4500-H+ B m
Phosphorus - ortho	2	N/A	2017/05/02	ATL SOP 00021	EPA 365.2 m
Sat. pH and Langelier Index (@ 20C)	2	N/A	2017/05/08	ATL SOP 00049	Auto Calc.
Sat. pH and Langelier Index (@ 4C)	2	N/A	2017/05/08	ATL SOP 00049	Auto Calc.
Reactive Silica	2	N/A	2017/05/02	ATL SOP 00022	EPA 366.0 m
Sulphate	2	N/A	2017/05/03	ATL SOP 00023	ASTMD516-11 m
Total Dissolved Solids (TDS calc)	2	N/A	2017/05/08	N/A	Auto Calc.
Organic carbon - Total (TOC) (3)	2	N/A	2017/04/28	ATL SOP 00037	SM 22 5310C m
Turbidity	2	N/A	2017/05/01	ATL SOP 00011	EPA 180.1 R2 m

**Remarks:**

Maxxam Analytics' laboratories are accredited to ISO/IEC 17025:2005 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Maxxam are based upon recognized Provincial, Federal or US method compendia such as CCME, MDDELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Maxxam's profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Maxxam in writing). All data is in statistical control and has met quality control and method performance criteria unless otherwise noted. All method blanks are reported: unless indicated otherwise, associated sample data are not blank corrected.

Your P.O. #: A08530  
Your Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your C.O.C. #: 606956-01-01

**Attention: Lisa Ladouceur**

Englobe Corp.  
97 Troop Ave  
Dartmouth, NS  
CANADA B3B 2A7

**Report Date: 2017/05/08**

Report #: R4453171

Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**MAXXAM JOB #: B784383**

**Received: 2017/04/26, 16:26**

Maxxam Analytics' liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Maxxam has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report. Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Maxxam, unless otherwise agreed in writing.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.

Results relate to samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.

Reference Method suffix "m" indicates test methods incorporate validated modifications from specific reference methods to improve performance.

\* RPDs calculated using raw data. The rounding of final results may result in the apparent difference.

(1) This test was performed by Maxxam Analytics Mississauga

(2) The APHA Standard Method require pH to be analyzed within 15 minutes of sampling and therefore field analysis is required for compliance. All Laboratory pH analyses in this report are reported past the APHA Standard Method holding time.

(3) TOC / DOC present in the sample should be considered as non-purgeable TOC / DOC.

Encryption Key



Maxxam  
08 May 2017 18:07:44

Please direct all questions regarding this Certificate of Analysis to your Project Manager.

Michelle Hill, Project Manager

Email: MHill@maxxam.ca

Phone# (902)420-0203 Ext:289

=====

This report has been generated and distributed using a secure automated process.

Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.

### ATLANTIC RCAP-MS TOTAL METALS IN WATER (DRINKING WATER)

<b>Maxxam ID</b>		EHA694		EHA696			
<b>Sampling Date</b>		2017/04/25		2017/04/26			
<b>COC Number</b>		606956-01-01		606956-01-01			
	<b>UNITS</b>	<b>PW3</b>	<b>QC Batch</b>	<b>PW8</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Calculated Parameters</b>							
Anion Sum	me/L	3.55	4957617	2.63	N/A	4957617	N/A
Bicarb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	11	4957614	69	1.0	4957614	0.20
Calculated TDS	mg/L	200	4957610	160	1.0	4957610	0.20
Carb. Alkalinity (calc. as CaCO <sub>3</sub> )	mg/L	<1.0	4957614	<1.0	1.0	4957614	0.20
Cation Sum	me/L	3.15	4957617	2.54	N/A	4957617	N/A
Hardness (CaCO <sub>3</sub> )	mg/L	25	4957615	87	1.0	4957615	1.0
Ion Balance (% Difference)	%	5.97	4957616	1.74	N/A	4957616	N/A
Langelier Index (@ 20C)	N/A	-3.28	4957608	-0.588		4957608	
Langelier Index (@ 4C)	N/A	-3.53	4957609	-0.839		4957609	
Nitrate (N)	mg/L	0.13	4957618	<0.050	0.050	4958335	N/A
Saturation pH (@ 20C)	N/A	9.49	4957608	8.12		4957608	
Saturation pH (@ 4C)	N/A	9.74	4957609	8.37		4957609	
<b>Inorganics</b>							
Total Alkalinity (Total as CaCO <sub>3</sub> )	mg/L	11	4962347	69	5.0	4962347	N/A
Total Ammonia-N	mg/L	<0.050	4972947	<0.050	0.050	4972947	0.0080
Dissolved Chloride (Cl)	mg/L	110	4962349	37	1.0	4962349	N/A
Colour	TCU	6.3	4962356	<5.0	5.0	4962356	N/A
Nitrate + Nitrite (N)	mg/L	0.13	4962365	<0.050	0.050	4962365	N/A
Nitrite (N)	mg/L	<0.010	4962366	<0.010	0.010	4962366	N/A
Total Organic Carbon (C)	mg/L	0.90	4959696	0.63	0.50	4959696	N/A
Orthophosphate (P)	mg/L	<0.010	4962361	<0.010	0.010	4962361	N/A
pH	pH	6.21	4962125	7.53	N/A	4962127	N/A
Reactive Silica (SiO <sub>2</sub> )	mg/L	5.7	4962354	21	0.50	4962354	N/A
Dissolved Sulphate (SO <sub>4</sub> )	mg/L	12	4962352	9.9	2.0	4962352	N/A
Turbidity	NTU	0.42	4962159	6.2	0.10	4962159	0.10
Conductivity	uS/cm	390	4962126	260	1.0	4962128	N/A
<b>Metals</b>							
Total Aluminum (Al)	ug/L	95	4962132	6.1	5.0	4962132	N/A
Total Antimony (Sb)	ug/L	<1.0	4962132	<1.0	1.0	4962132	N/A
Total Arsenic (As)	ug/L	<1.0	4962132	1.5	1.0	4962132	N/A
Total Barium (Ba)	ug/L	22	4962132	18	1.0	4962132	N/A
Total Beryllium (Be)	ug/L	<1.0	4962132	<1.0	1.0	4962132	N/A
Total Bismuth (Bi)	ug/L	<2.0	4962132	<2.0	2.0	4962132	N/A
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							
N/A = Not Applicable							



### ATLANTIC RCAP-MS TOTAL METALS IN WATER (DRINKING WATER)

Maxxam ID		EHA694		EHA696			
Sampling Date		2017/04/25		2017/04/26			
COC Number		606956-01-01		606956-01-01			
	UNITS	PW3	QC Batch	PW8	RDL	QC Batch	MDL
Total Boron (B)	ug/L	<50	4962132	<50	50	4962132	N/A
Total Cadmium (Cd)	ug/L	0.051	4962132	<0.010	0.010	4962132	N/A
Total Calcium (Ca)	ug/L	7100	4962132	26000	100	4962132	N/A
Total Chromium (Cr)	ug/L	<1.0	4962132	<1.0	1.0	4962132	N/A
Total Cobalt (Co)	ug/L	<0.40	4962132	<0.40	0.40	4962132	N/A
Total Copper (Cu)	ug/L	6.9	4962132	<2.0	2.0	4962132	N/A
Total Iron (Fe)	ug/L	200	4962132	980	50	4962132	N/A
Total Lead (Pb)	ug/L	1.6	4962132	<0.50	0.50	4962132	N/A
Total Magnesium (Mg)	ug/L	1600	4962132	5400	100	4962132	N/A
Total Manganese (Mn)	ug/L	41	4962132	250	2.0	4962132	N/A
Total Molybdenum (Mo)	ug/L	<2.0	4962132	<2.0	2.0	4962132	N/A
Total Nickel (Ni)	ug/L	<2.0	4962132	<2.0	2.0	4962132	N/A
Total Phosphorus (P)	ug/L	<100	4962132	<100	100	4962132	N/A
Total Potassium (K)	ug/L	750	4962132	1800	100	4962132	N/A
Total Selenium (Se)	ug/L	<1.0	4962132	<1.0	1.0	4962132	N/A
Total Silver (Ag)	ug/L	<0.10	4962132	<0.10	0.10	4962132	N/A
Total Sodium (Na)	ug/L	60000	4962132	16000	100	4962132	N/A
Total Strontium (Sr)	ug/L	40	4962132	150	2.0	4962132	N/A
Total Tellurium (Te)	ug/L	<2.0	4962132	<2.0	2.0	4962132	N/A
Total Thallium (Tl)	ug/L	<0.10	4962132	<0.10	0.10	4962132	N/A
Total Tin (Sn)	ug/L	<2.0	4962132	<2.0	2.0	4962132	N/A
Total Titanium (Ti)	ug/L	<2.0	4962132	<2.0	2.0	4962132	N/A
Total Uranium (U)	ug/L	<0.10	4962132	<0.10	0.10	4962132	N/A
Total Vanadium (V)	ug/L	<2.0	4962132	<2.0	2.0	4962132	N/A
Total Zinc (Zn)	ug/L	29	4962132	<5.0	5.0	4962132	N/A
RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable							

### ELEMENTS BY ICP/MS (DRINKING WATER)

<b>Maxxam ID</b>		EHA695			
<b>Sampling Date</b>		2017/04/25			
<b>COC Number</b>		606956-01-01			
	<b>UNITS</b>	<b>PW3A</b>	<b>RDL</b>	<b>QC Batch</b>	<b>MDL</b>
<b>Metals</b>					
Total Aluminum (Al)	ug/L	91	5.0	4962132	N/A
Total Antimony (Sb)	ug/L	<1.0	1.0	4962132	N/A
Total Arsenic (As)	ug/L	<1.0	1.0	4962132	N/A
Total Barium (Ba)	ug/L	21	1.0	4962132	N/A
Total Beryllium (Be)	ug/L	<1.0	1.0	4962132	N/A
Total Bismuth (Bi)	ug/L	<2.0	2.0	4962132	N/A
Total Boron (B)	ug/L	<50	50	4962132	N/A
Total Cadmium (Cd)	ug/L	0.046	0.010	4962132	N/A
Total Calcium (Ca)	ug/L	7200	100	4962132	N/A
Total Chromium (Cr)	ug/L	<1.0	1.0	4962132	N/A
Total Cobalt (Co)	ug/L	<0.40	0.40	4962132	N/A
Total Copper (Cu)	ug/L	100	2.0	4962132	N/A
Total Iron (Fe)	ug/L	220	50	4962132	N/A
Total Lead (Pb)	ug/L	<0.50	0.50	4962132	N/A
Total Magnesium (Mg)	ug/L	1700	100	4962132	N/A
Total Manganese (Mn)	ug/L	42	2.0	4962132	N/A
Total Molybdenum (Mo)	ug/L	<2.0	2.0	4962132	N/A
Total Nickel (Ni)	ug/L	<2.0	2.0	4962132	N/A
Total Phosphorus (P)	ug/L	<100	100	4962132	N/A
Total Potassium (K)	ug/L	770	100	4962132	N/A
Total Selenium (Se)	ug/L	<1.0	1.0	4962132	N/A
Total Silver (Ag)	ug/L	<0.10	0.10	4962132	N/A
Total Sodium (Na)	ug/L	61000	100	4962132	N/A
Total Strontium (Sr)	ug/L	40	2.0	4962132	N/A
Total Tellurium (Te)	ug/L	<2.0	2.0	4962132	N/A
Total Thallium (Tl)	ug/L	<0.10	0.10	4962132	N/A
Total Tin (Sn)	ug/L	<2.0	2.0	4962132	N/A
Total Titanium (Ti)	ug/L	<2.0	2.0	4962132	N/A
Total Uranium (U)	ug/L	<0.10	0.10	4962132	N/A
Total Vanadium (V)	ug/L	<2.0	2.0	4962132	N/A
Total Zinc (Zn)	ug/L	8.9	5.0	4962132	N/A
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					
N/A = Not Applicable					

Maxxam Job #: B784383  
Report Date: 2017/05/08

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA694  
**Sample ID:** PW3  
**Matrix:** Drinking Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk
Alkalinity	KONE	4962347	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962349	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962356	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962126	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4957615	N/A	2017/05/02	Automated Statchk
Metals Water Total MS	CICP/MS	4962132	2017/05/01	2017/05/01	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/08	Automated Statchk
Anion and Cation Sum	CALC	4957617	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH <sub>4</sub>	4972947	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962365	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962366	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4957618	N/A	2017/05/03	Automated Statchk
pH	AT	4962125	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962361	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962354	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962352	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959696	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4962159	N/A	2017/05/01	Julia McGovern

**Maxxam ID:** EHA695  
**Sample ID:** PW3A  
**Matrix:** Drinking Water

**Collected:** 2017/04/25  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Metals Water Total MS	CICP/MS	4962132	2017/05/01	2017/05/01	Bryon Angevine

**Maxxam ID:** EHA696  
**Sample ID:** PW8  
**Matrix:** Drinking Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Carbonate, Bicarbonate and Hydroxide	CALC	4957614	N/A	2017/05/01	Automated Statchk
Alkalinity	KONE	4962347	N/A	2017/05/02	Nancy Rogers
Chloride	KONE	4962349	N/A	2017/05/02	Nancy Rogers
Colour	KONE	4962356	N/A	2017/05/03	Nancy Rogers
Conductance - water	AT	4962128	N/A	2017/05/01	Julia McGovern
Hardness (calculated as CaCO <sub>3</sub> )		4957615	N/A	2017/05/02	Automated Statchk
Metals Water Total MS	CICP/MS	4962132	2017/05/01	2017/05/01	Bryon Angevine
Ion Balance (% Difference)	CALC	4957616	N/A	2017/05/08	Automated Statchk

Maxxam Job #: B784383  
Report Date: 2017/05/08

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

## TEST SUMMARY

**Maxxam ID:** EHA696  
**Sample ID:** PW8  
**Matrix:** Drinking Water

**Collected:** 2017/04/26  
**Shipped:**  
**Received:** 2017/04/26

Test Description	Instrumentation	Batch	Extracted	Date Analyzed	Analyst
Anion and Cation Sum	CALC	4957617	N/A	2017/05/08	Automated Statchk
Total Ammonia-N	LACH/NH4	4972947	N/A	2017/05/08	Charles Opoku-Ware
Nitrogen - Nitrate + Nitrite	KONE	4962365	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrite	KONE	4962366	N/A	2017/05/02	Nancy Rogers
Nitrogen - Nitrate (as N)	CALC	4958335	N/A	2017/05/03	Automated Statchk
pH	AT	4962127	N/A	2017/05/01	Julia McGovern
Phosphorus - ortho	KONE	4962361	N/A	2017/05/02	Nancy Rogers
Sat. pH and Langelier Index (@ 20C)	CALC	4957608	N/A	2017/05/08	Automated Statchk
Sat. pH and Langelier Index (@ 4C)	CALC	4957609	N/A	2017/05/08	Automated Statchk
Reactive Silica	KONE	4962354	N/A	2017/05/02	Nancy Rogers
Sulphate	KONE	4962352	N/A	2017/05/03	Nancy Rogers
Total Dissolved Solids (TDS calc)	CALC	4957610	N/A	2017/05/08	Automated Statchk
Organic carbon - Total (TOC)	TECH	4959696	N/A	2017/04/28	Soraya Merchant
Turbidity	TURB	4962159	N/A	2017/05/01	Julia McGovern

### GENERAL COMMENTS

Each temperature is the average of up to three cooler temperatures taken at receipt

Package 1	-0.7°C
Package 2	2.0°C
Package 3	2.0°C
Package 4	3.7°C

Sample EHA694 [PW3] : Poor RCap Ion Balance due to sample matrix.

**Results relate only to the items tested.**

Maxxam Job #: B784383  
Report Date: 2017/05/08

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4959696	SMT	Matrix Spike(EHA696)	Total Organic Carbon (C)	2017/04/28		99	%	80 - 120
4959696	SMT	Spiked Blank	Total Organic Carbon (C)	2017/04/28		103	%	80 - 120
4959696	SMT	Method Blank	Total Organic Carbon (C)	2017/04/28	<0.50		mg/L	
4959696	SMT	RPD - Sample/Sample Dup	Total Organic Carbon (C)	2017/04/28	3.7		%	20
4962125	JMV	QC Standard	pH	2017/05/01		100	%	97 - 103
4962125	JMV	RPD - Sample/Sample Dup	pH	2017/05/01	0.35		%	N/A
4962126	JMV	Spiked Blank	Conductivity	2017/05/01		100	%	80 - 120
4962126	JMV	Method Blank	Conductivity	2017/05/01	1.3, RDL=1.0		uS/cm	
4962126	JMV	RPD - Sample/Sample Dup	Conductivity	2017/05/01	0.76		%	25
4962127	JMV	QC Standard	pH	2017/05/01		100	%	97 - 103
4962127	JMV	RPD - Sample/Sample Dup	pH	2017/05/01	1.6		%	N/A
4962128	JMV	Spiked Blank	Conductivity	2017/05/01		101	%	80 - 120
4962128	JMV	Method Blank	Conductivity	2017/05/01	1.4, RDL=1.0		uS/cm	
4962128	JMV	RPD - Sample/Sample Dup	Conductivity	2017/05/01	0.57		%	25
4962132	BAN	Matrix Spike	Total Aluminum (Al)	2017/05/01		94	%	80 - 120
			Total Antimony (Sb)	2017/05/01		102	%	80 - 120
			Total Arsenic (As)	2017/05/01		96	%	80 - 120
			Total Barium (Ba)	2017/05/01		94	%	80 - 120
			Total Beryllium (Be)	2017/05/01		97	%	80 - 120
			Total Bismuth (Bi)	2017/05/01		96	%	80 - 120
			Total Boron (B)	2017/05/01		104	%	80 - 120
			Total Cadmium (Cd)	2017/05/01		99	%	80 - 120
			Total Calcium (Ca)	2017/05/01		NC	%	80 - 120
			Total Chromium (Cr)	2017/05/01		96	%	80 - 120
			Total Cobalt (Co)	2017/05/01		95	%	80 - 120
			Total Copper (Cu)	2017/05/01		94	%	80 - 120
			Total Iron (Fe)	2017/05/01		99	%	80 - 120
			Total Lead (Pb)	2017/05/01		93	%	80 - 120
			Total Magnesium (Mg)	2017/05/01		NC	%	80 - 120
			Total Manganese (Mn)	2017/05/01		95	%	80 - 120
			Total Molybdenum (Mo)	2017/05/01		104	%	80 - 120
			Total Nickel (Ni)	2017/05/01		95	%	80 - 120
			Total Phosphorus (P)	2017/05/01		100	%	80 - 120
			Total Potassium (K)	2017/05/01		103	%	80 - 120
			Total Selenium (Se)	2017/05/01		101	%	80 - 120
			Total Silver (Ag)	2017/05/01		99	%	80 - 120
			Total Sodium (Na)	2017/05/01		NC	%	80 - 120
			Total Strontium (Sr)	2017/05/01		NC	%	80 - 120
			Total Tellurium (Te)	2017/05/01		96	%	80 - 120
			Total Thallium (Tl)	2017/05/01		98	%	80 - 120
			Total Tin (Sn)	2017/05/01		105	%	80 - 120
			Total Titanium (Ti)	2017/05/01		100	%	80 - 120
			Total Uranium (U)	2017/05/01		104	%	80 - 120
			Total Vanadium (V)	2017/05/01		96	%	80 - 120
			Total Zinc (Zn)	2017/05/01		96	%	80 - 120
4962132	BAN	Spiked Blank	Total Aluminum (Al)	2017/05/01		99	%	80 - 120
			Total Antimony (Sb)	2017/05/01		102	%	80 - 120
			Total Arsenic (As)	2017/05/01		95	%	80 - 120
			Total Barium (Ba)	2017/05/01		95	%	80 - 120



Maxxam Job #: B784383  
Report Date: 2017/05/08

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Total Beryllium (Be)	2017/05/01		97	%	80 - 120
			Total Bismuth (Bi)	2017/05/01		101	%	80 - 120
			Total Boron (B)	2017/05/01		105	%	80 - 120
			Total Cadmium (Cd)	2017/05/01		98	%	80 - 120
			Total Calcium (Ca)	2017/05/01		104	%	80 - 120
			Total Chromium (Cr)	2017/05/01		97	%	80 - 120
			Total Cobalt (Co)	2017/05/01		98	%	80 - 120
			Total Copper (Cu)	2017/05/01		96	%	80 - 120
			Total Iron (Fe)	2017/05/01		103	%	80 - 120
			Total Lead (Pb)	2017/05/01		94	%	80 - 120
			Total Magnesium (Mg)	2017/05/01		105	%	80 - 120
			Total Manganese (Mn)	2017/05/01		98	%	80 - 120
			Total Molybdenum (Mo)	2017/05/01		103	%	80 - 120
			Total Nickel (Ni)	2017/05/01		98	%	80 - 120
			Total Phosphorus (P)	2017/05/01		103	%	80 - 120
			Total Potassium (K)	2017/05/01		108	%	80 - 120
			Total Selenium (Se)	2017/05/01		100	%	80 - 120
			Total Silver (Ag)	2017/05/01		96	%	80 - 120
			Total Sodium (Na)	2017/05/01		104	%	80 - 120
			Total Strontium (Sr)	2017/05/01		97	%	80 - 120
			Total Tellurium (Te)	2017/05/01		97	%	80 - 120
			Total Thallium (Tl)	2017/05/01		102	%	80 - 120
			Total Tin (Sn)	2017/05/01		104	%	80 - 120
			Total Titanium (Ti)	2017/05/01		98	%	80 - 120
			Total Uranium (U)	2017/05/01		103	%	80 - 120
			Total Vanadium (V)	2017/05/01		96	%	80 - 120
			Total Zinc (Zn)	2017/05/01		102	%	80 - 120
4962132	BAN	Method Blank	Total Aluminum (Al)	2017/05/01	6.7, RDL=5.0 (1)		ug/L	
			Total Antimony (Sb)	2017/05/01	<1.0		ug/L	
			Total Arsenic (As)	2017/05/01	<1.0		ug/L	
			Total Barium (Ba)	2017/05/01	<1.0		ug/L	
			Total Beryllium (Be)	2017/05/01	<1.0		ug/L	
			Total Bismuth (Bi)	2017/05/01	<2.0		ug/L	
			Total Boron (B)	2017/05/01	<50		ug/L	
			Total Cadmium (Cd)	2017/05/01	<0.010		ug/L	
			Total Calcium (Ca)	2017/05/01	<100		ug/L	
			Total Chromium (Cr)	2017/05/01	<1.0		ug/L	
			Total Cobalt (Co)	2017/05/01	<0.40		ug/L	
			Total Copper (Cu)	2017/05/01	<2.0		ug/L	
			Total Iron (Fe)	2017/05/01	<50		ug/L	
			Total Lead (Pb)	2017/05/01	<0.50		ug/L	
			Total Magnesium (Mg)	2017/05/01	<100		ug/L	
			Total Manganese (Mn)	2017/05/01	<2.0		ug/L	
			Total Molybdenum (Mo)	2017/05/01	<2.0		ug/L	
			Total Nickel (Ni)	2017/05/01	<2.0		ug/L	
			Total Phosphorus (P)	2017/05/01	<100		ug/L	
			Total Potassium (K)	2017/05/01	<100		ug/L	
			Total Selenium (Se)	2017/05/01	<1.0		ug/L	
			Total Silver (Ag)	2017/05/01	<0.10		ug/L	
			Total Sodium (Na)	2017/05/01	<100		ug/L	

Maxxam Job #: B784383  
Report Date: 2017/05/08

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
			Total Strontium (Sr)	2017/05/01	<2.0		ug/L	
			Total Tellurium (Te)	2017/05/01	<2.0		ug/L	
			Total Thallium (Tl)	2017/05/01	<0.10		ug/L	
			Total Tin (Sn)	2017/05/01	<2.0		ug/L	
			Total Titanium (Ti)	2017/05/01	<2.0		ug/L	
			Total Uranium (U)	2017/05/01	<0.10		ug/L	
			Total Vanadium (V)	2017/05/01	<2.0		ug/L	
			Total Zinc (Zn)	2017/05/01	<5.0		ug/L	
4962132	BAN	RPD - Sample/Sample Dup	Total Arsenic (As)	2017/05/01	0.65		%	20
4962159	JMV	QC Standard	Turbidity	2017/05/01		101	%	80 - 120
4962159	JMV	Spiked Blank	Turbidity	2017/05/01		98	%	80 - 120
4962159	JMV	Method Blank	Turbidity	2017/05/01	<0.10		NTU	
4962159	JMV	RPD - Sample/Sample Dup	Turbidity	2017/05/01	4.6		%	20
4962347	NRG	Matrix Spike	Total Alkalinity (Total as CaCO3)	2017/05/03		NC	%	80 - 120
4962347	NRG	Spiked Blank	Total Alkalinity (Total as CaCO3)	2017/05/02		107	%	80 - 120
4962347	NRG	Method Blank	Total Alkalinity (Total as CaCO3)	2017/05/02	<5.0		mg/L	
4962347	NRG	RPD - Sample/Sample Dup	Total Alkalinity (Total as CaCO3)	2017/05/03	2.3		%	25
4962349	NRG	Matrix Spike	Dissolved Chloride (Cl)	2017/05/02		NC	%	80 - 120
4962349	NRG	QC Standard	Dissolved Chloride (Cl)	2017/05/02		107	%	80 - 120
4962349	NRG	Spiked Blank	Dissolved Chloride (Cl)	2017/05/02		97	%	80 - 120
4962349	NRG	Method Blank	Dissolved Chloride (Cl)	2017/05/02	<1.0		mg/L	
4962349	NRG	RPD - Sample/Sample Dup	Dissolved Chloride (Cl)	2017/05/02	2.5		%	25
4962352	NRG	Matrix Spike	Dissolved Sulphate (SO4)	2017/05/03		NC	%	80 - 120
4962352	NRG	Spiked Blank	Dissolved Sulphate (SO4)	2017/05/03		114	%	80 - 120
4962352	NRG	Method Blank	Dissolved Sulphate (SO4)	2017/05/03	<2.0		mg/L	
4962352	NRG	RPD - Sample/Sample Dup	Dissolved Sulphate (SO4)	2017/05/03	1.4		%	25
4962354	NRG	Matrix Spike	Reactive Silica (SiO2)	2017/05/02		NC	%	80 - 120
4962354	NRG	Spiked Blank	Reactive Silica (SiO2)	2017/05/02		98	%	80 - 120
4962354	NRG	Method Blank	Reactive Silica (SiO2)	2017/05/02	<0.50		mg/L	
4962354	NRG	RPD - Sample/Sample Dup	Reactive Silica (SiO2)	2017/05/02	1.4		%	25
4962356	NRG	Spiked Blank	Colour	2017/05/03		113	%	80 - 120
4962356	NRG	Method Blank	Colour	2017/05/03	<5.0		TCU	
4962356	NRG	RPD - Sample/Sample Dup	Colour	2017/05/03	NC		%	20
4962361	NRG	Matrix Spike	Orthophosphate (P)	2017/05/02		98	%	80 - 120
4962361	NRG	Spiked Blank	Orthophosphate (P)	2017/05/02		103	%	80 - 120
4962361	NRG	Method Blank	Orthophosphate (P)	2017/05/02	<0.010		mg/L	
4962361	NRG	RPD - Sample/Sample Dup	Orthophosphate (P)	2017/05/02	NC		%	25
4962365	NRG	Matrix Spike	Nitrate + Nitrite (N)	2017/05/02		102	%	80 - 120
4962365	NRG	Spiked Blank	Nitrate + Nitrite (N)	2017/05/02		91	%	80 - 120
4962365	NRG	Method Blank	Nitrate + Nitrite (N)	2017/05/02	<0.050		mg/L	
4962365	NRG	RPD - Sample/Sample Dup	Nitrate + Nitrite (N)	2017/05/02	1.7		%	25
4962366	NRG	Matrix Spike	Nitrite (N)	2017/05/02		101	%	80 - 120
4962366	NRG	Spiked Blank	Nitrite (N)	2017/05/02		100	%	80 - 120
4962366	NRG	Method Blank	Nitrite (N)	2017/05/02	<0.010		mg/L	
4962366	NRG	RPD - Sample/Sample Dup	Nitrite (N)	2017/05/02	NC		%	25
4972947	COP	Matrix Spike	Total Ammonia-N	2017/05/08		91	%	80 - 120
4972947	COP	Spiked Blank	Total Ammonia-N	2017/05/08		98	%	85 - 115
4972947	COP	Method Blank	Total Ammonia-N	2017/05/08	<0.050		mg/L	

Maxxam Job #: B784383  
Report Date: 2017/05/08

Englobe Corp.  
Client Project #: P-0010903-0-00-205  
Site Location: Lake George Road, Lake George, NS  
Your P.O. #: A08530  
Sampler Initials: LL

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	% Recovery	UNITS	QC Limits
4972947	COP	RPD - Sample/Sample Dup	Total Ammonia-N	2017/05/08	9.2		%	20
<p>N/A = Not Applicable</p> <p>Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.</p> <p>QC Standard: A sample of known concentration prepared by an external agency under stringent conditions. Used as an independent check of method accuracy.</p> <p>Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.</p> <p>Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.</p> <p>NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)</p> <p>NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference &lt;= 2x RDL).</p> <p>(1) Low level lab contamination. Minimal impact on sample data quality.</p>								

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by the following individual(s).




Eric Dearman, Scientific Specialist



Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

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Maxxam has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per section 5.10.2 of ISO/IEC 17025:2005(E), signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



Maxxam Analytics International Corporation  
200 Bluewater Road, Bedford, Nova Scotia Canada B4B 1G8 Tel: (902) 420-0203 Toll-free 800-563-6286 Fax: (902) 420-8812 www.maxxam.ca

**Chain Of Custody Record**

Page 1 of 1

**INVOICE TO:**

Company Name: #41009 Englobe Corp.  
 Contact Name: Accounts Payable  
 Address: 97 Troop Ave  
 Dartmouth NS B3B 2A7  
 Phone: (902) 488-6486 x  
 Email: Dartmouth.AP@englobecorp.com

**Report Information**

Company Name: Lisa Ladoqueur / Adam Cole  
 Contact Name:  
 Address:  
 Phone:  
 Email: Lisa.ladoqueur@englobecorp.com

**Project Information**

Quotation #: B72846  
 P.O. #: A08330  
 Project #: P-0010903-0-00-205  
 Project Name: Lake George Road, Lake George,  
 Site #: LL

**Laboratory Use Only**

Maxxam Job #: 008995-01-01  
 Bottle Order #: 606550  
 Chain Of Custody Record  
 Project Manager: Michelle Hill

**Regulatory Criteria:**

-- Specify Matrix: Surface Groundwater/Sewage Effluent/Seawater  
 Potable/Nonpotable/Tissue/Soil/Sludge/Metal

**Special Instructions**

ANALYSIS REQUESTED (PLEASE BE SPECIFIC)

Turnaround Time (TAT) Required:

Regular (Standard) TAT: ☒ (will be applied if Rush TAT is not specified):  
 Standard TAT = 5-7 Working days for most tests.  
 Please note: Standard TAT for certain tests such as BOD and Dissolved Oxygen are > 5 days - contact your Project Manager for details.

Job Specific Rush TAT (if applies to entire submission)  
 Date Required: ☐

Comments / Hazards / Other Required Analysis:

#	Sample Barcode Label	Sample Location Identification	Date Sampled	Time Sampled	Matrix	Field Filtration Required		Lab Filtration Required	Atlantic RCAP-MS Total Metals in Water	Tox / Lead only	Date	Time	# Test used and not submitted	Time Sampled	Temperature (°C) on Receipt	Custody Seal intact on Cooler?	
						Field Filtered	Preserved										
1		PW3	25/4/17		PW	X		X									
2		PW3A	25/4/17		PW	X		X									
3		PW8	26/4/17		PW	X		X									
4																	
5																	
6																	
7																	
8																	
9																	
10																	

RELINQUISHED BY: [Signature]

Date: 17/4/26 16:20

RECEIVED BY: [Signature]

Date: 16/4/26 16:20

\* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO MAXXAM'S STANDARD TERMS AND CONDITIONS. SIGNING OF THIS CHAIN OF CUSTODY DOCUMENT IS ACKNOWLEDGMENT AND ACCEPTANCE OF OUR TERMS WHICH ARE AVAILABLE FOR VIEWING AT WWW.MAXXAM.CA/TERMS.

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