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Public Works and Government Services Canada  
**Channel Dredging and Disposal at Sea**  
**Cheticamp (La Digue) Small Craft Harbour**  
**Inverness County, N.S.**  
**R.121899.001**

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**Appendix B**  
Marine Sediment Sampling Program, 2021

Public Services and Procurement Canada

# **CHÉTICAMP (LA DIGUE) DFO-SCH (DFRP #03532) ENTRANCE CHANNEL CHÉTICAMP, NOVA SCOTIA**

November 2021

**Marine Sediment Sampling Program**

1900108.118

**FINAL REPORT**



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## Summary

Englobe Corp. (Englobe) was retained by Public Services and Procurement Canada (PSPC), on behalf of Fisheries and Oceans Canada – Small Craft Harbours (DFO-SCH), to complete a Marine Sediment Sampling Program (MSSP) at the Chéticamp (La Digue) DFO-SCH (DFRP# 03532) entrance channel located in Chéticamp, Nova Scotia (NS). The Chéticamp (La Digue) DFO-SCH entrance channel requires dredging and as such, a MSSP is required to characterize the existing site attributes. The objective of the work is to obtain reliable sediment characterization data for the purpose of meeting the application requirements for annual dredging and disposal at sea activities at this location.

The Chéticamp (La Digue) DFO-SCH entrance channel site consists of two Dredged Material Management Units (DMMU 1 and DMMU 2). DMMU 1 is located in the north portion of the entrance channel and northwest of the inner basin and consists of a maintenance dredge area and the upper capital dredge area. DMMU 2 is located south of DMMU 1 and west of the inner basin and consists of the lower capital dredge area.

Three spatially balanced grab sediment samples (G1 to G3) were collected from within the maintenance dredge area within DMMU 1 and four core samples (C5 to C8) were collected from the upper capital area of DMMU 1 to depth intervals of up to 2 m below ground surface (mbgs) to form ten sediment samples. Four core samples were collected from the lower capital area of DMMU 2 (C1 to C4) to depth intervals of up to 3 mbgs to form a total of seven samples. All samples were submitted to the laboratory and analyzed for grain size distribution, total organic carbon/total inorganic carbon (TOC/TIC) analysis and the ocean disposal suite of parameters.

Figure 1 below, illustrates the overall sediment composition from the sediment samples collected at the entrance channel at the site, expressed as percentages to show the average grain size distributions. Figure 2 on the following page shows the proportions of gravel, sand, and mud (silt and clay) for each individual sample collected.

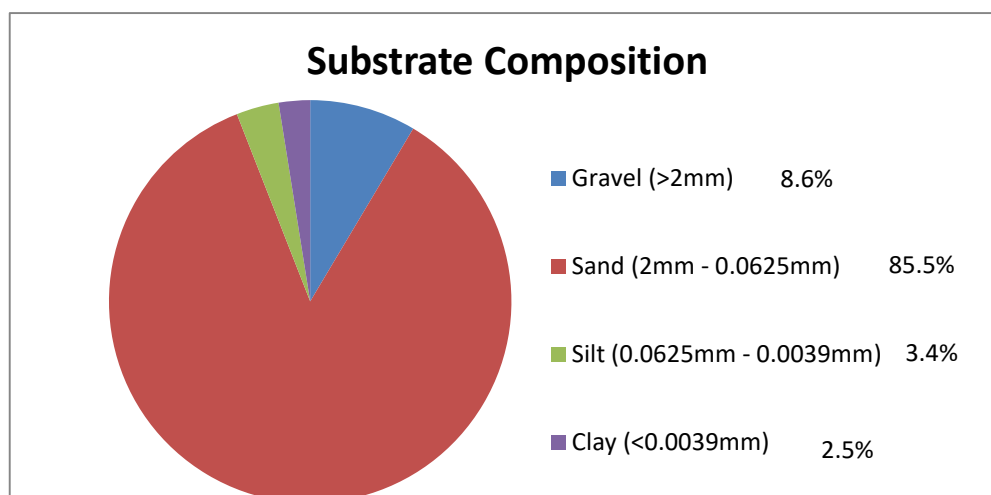


Figure S-1 — Average Substrate Composition of Sediment Samples at the Chéticamp DFO-SCH Entrance Channel



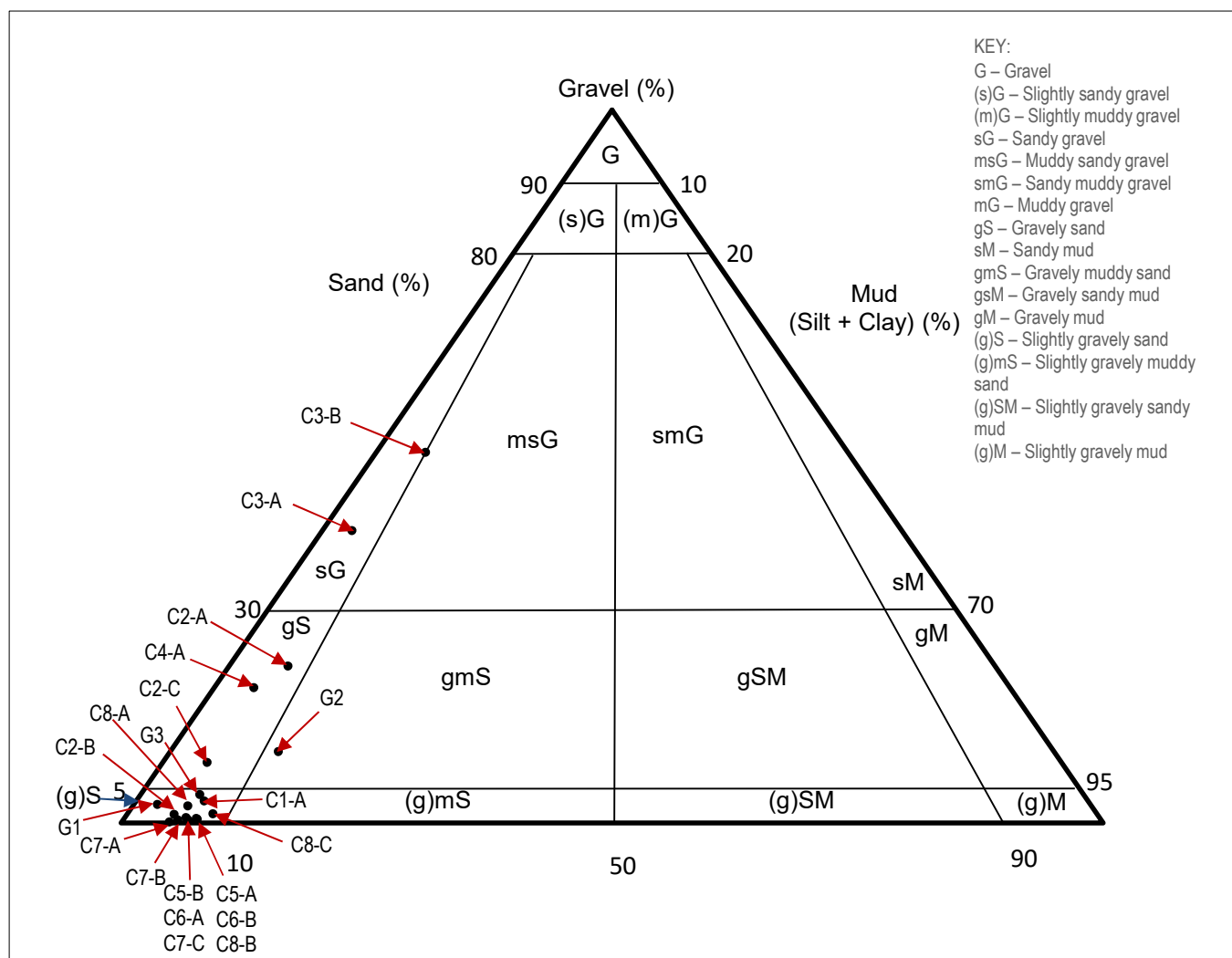


Figure S-2 — Substrate Composition of Individual Sediment Samples Collected at the at Chéticamp DFO-SCH Entrance Channel

The primary substrate type in sediment samples G1, G3, C1-A, C2-B, C5-A, C5-B, C6-A, C6-B, C7-A, C7-C, C8-A, C8-B and C8-C is slightly gravely sand and the primary substrate type in sediment samples C2-A, C2-C and C4-A is gravely sand. The primary substrate type in sediment samples C3-A and C3-B is sandy gravel. Lastly, the primary substrate type collected at sediment sample G2 is gravely muddy sand.

The TOC content in sediment samples collected from the site ranged from 0.083% to 0.72%, TIC content in the samples ranged from <0.05% to 1.1%.

The following guideline exceedances were reported:

- Canadian Council of Ministers of the Environment (CCME) Interim Sediment Quality Guidelines (ISQG) for the Protection of Marine Aquatic Life:
  - C3-B (collected at 1-2m): Copper.
  - C5-B (collected at 0.2-1m): Acenaphthene.

All remaining PAH parameters as well as metal and PCB parameters reported in all the samples submitted satisfied the applicable CCME Interim Sediment Quality Guidelines and Probable Effects Levels (PELs) criteria for the Protection of Marine Aquatic Life. All chemical parameters satisfy all the CEPA Disposal at Sea criteria.

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# 1 Introduction

Englobe Corp. (Englobe) was retained by Public Services and Procurement Canada (PSPC), on behalf of Fisheries and Oceans Canada – Small Craft Harbours (DFO-SCH), to complete a Marine Sediment Sampling Program (MSSP) in the entrance channel located at the Chéticamp (La Digue) DFO-SCH (DFRP #03532) in Chéticamp, Nova Scotia (NS). The Chéticamp (La Digue) DFO-SCH entrance channel requires dredging and as such, a MSSP is required to characterize the existing site attributes.

The Chéticamp (La Digue) DFO-SCH entrance channel site consists of two Dredged Material Management Units (DMMU 1 and DMMU 2). DMMU 1 is located in the north portion of the entrance channel and northwest of the inner basin and consists of a maintenance dredge area and an upper capital dredge area. DMMU 2 is located south of DMMU 1 and west of the inner basin and consists of a lower capital dredge area. The objective of the work is to obtain reliable sediment characterization data for the purpose of meeting the application requirements for dredging and disposal at sea activities at this location.

A Site Location Plan is presented on Figure 1 in Appendix A.

## 2 Scope and Methodology

### 2.1 Site Plan

Three spatially balanced grab samples (G1 to G3) were collected at the Chéticamp DFO-SCH entrance channel from the maintenance dredge area within DDMU 1 and four spatially balanced core sediment samples (C5 to C8) were collected from the upper capital area of DMMU 1.

In addition, four core sediment samples (C1 to C4) were collected from the lower capital area of DMMU 2 at the site.

Sample locations are presented on Figure 2 in Appendix A.

### 2.2 Sample Collection

For the collection of the grab sediment samples (G1 to G3), Englobe retained the services of a diving team/crew from Commercial Diving and Marine Services Atlantic based in Edmondsville, NS. Under Englobe supervision, the divers navigated to each identified sample location within the maintenance dredge area of DMMU 1 using a handheld Global Positioning System (GPS), collected a GPS waypoint, collected an image of the benthic floor at each sample location, assessed the depth of material in the field, collected sediment using a clean plastic bucket (underwater) to a depth of 0.2 m, put a lid on the bucket, brought the bucket up out of the water and to the boat, removed the lid, and poured off excess water. An Englobe representative then homogenized the samples by means of a clean nitrile glove-covered hand prior to the placement in clean laboratory supplied jars. It should be noted that five additional spatially balanced grab samples (SED1 to SED5) were collected from the maintenance dredge area, however, these samples were archived at the lab and were determined to not be required based on the initial results and therefore were not submitted for analysis.

For the collection of core sediment samples, Englobe retained the services of a drilling company, Logan Drilling and Geotechnical based in Stewiacke, NS. Under Englobe supervision, the drillers navigated to the pre-determined sample locations using a handheld GPS, collected a GPS waypoint, photographed the benthic floor at each sample location, assessed the depth of material in the field, and collected a core sample using a barge-mounted drill.

For the core samples collected within DMMU 1 (C5 to C8 locations), samples were collected from depth intervals of 0-0.2 m, 0.2-1.0 m and 1-2 m. Grab samples were collected from the first two discrete intervals (0-0.2 m and 0.2-1.0 m) from all four sample locations to form eight samples (C5-A, C5-B, C6-A, C6-B, C7-A, C7-B, C8-A and C8-B) and grab samples were also collected from the third interval (1.0-2.0 m) from two sample locations, C7 and C8, to form two samples (C7-C and C8-C). In total, ten samples were submitted for analysis representing the different depth intervals within DMMU 1. All cores from the DMMU 1 were terminated at the planned depth.

For the core samples collected within DMMU 2 (C1 to C4 locations), samples were collected to depth intervals of 0-1 m, 1-2 m and 2-3 m. Grab samples were collected from the first discrete interval (0-1 m) from all four sample locations to form four samples (C1-A, C2-A, C3-A and C4-A) and grab samples were also collected from the second interval (1-2 m) from two sample locations, C2 to C3, to form two samples (C2-B and C3-B). Finally, a grab sample was collected from the third interval in sample location C2 to form one sample (C2-C). In total, seven samples were submitted for analysis representing different depth intervals within DMMU 2. All cores at the DMMU 2 were terminated at the planned depth with the exception of one sample location, C3, which was terminated due to high wind conditions.

All samples were placed directly into a clean plastic bucket and the Englobe technician homogenized each of the samples by means of a clean nitrile glove-covered hand prior to the placement in clean laboratory supplied containers.

All the grab sediment samples were collected on September 1<sup>st</sup>, 2021 and the weather was sunny with partial cloud cover and 25°C. The core samples were collected between September 15-17<sup>th</sup> and September 19<sup>th</sup>, 2021. The weather was sunny to cloudy with moderate wind, with rain on September 19<sup>th</sup>, 2021. The field program was completed as planned, in terms of sampling methodologies and locations, with the one exception noted above. Refer to Table 1 below for the grab and core sediment sample location coordinates collected by the divers and drillers.

Table 1 – Sample Coordinates at Chéticamp DFO-SCH, Nova Scotia

Sample ID	Sample Coordinates (decimal degrees)	
G1	46.641843°	-61.009691°
G2	46.639237°	-61.010352°
G3	46.637495°	-61.010725°
C1	46.636436°	-61.011383°
C2	46.636895°	-61.011411°
C3	46.637281°	-61.011331°
C4	46.637629°	-61.011043°
C5	46.638701°	-61.010676°
C6	46.639746°	-61.010402°

C7	46.640637°	-61.010168°
C8	46.641693°	-61.009864°

A visual description of all samples and the presence of any sheen and/or odour was noted in the field. Sample locations were photographed for future reference. All equipment coming in contact with the sediments were properly cleaned following Environment Canada's recommendations (Guidance Document on Collection and Preparation of Sediments for Physiochemical Characterization and Biological Testing, 1994).

Site photographs and field data collection forms are included in Appendix B.

The field work was carried out in accordance with the following:

- ▶ Environment and Climate Change Canada (ECCC) Characterization of Dredged Material for Open Water Disposal (June 2018);
- ▶ Englobe's standard operating procedures (SOPs) for soil and sediment sampling;
- ▶ 2016 CCME Guidance Manual for Environmental Site Characterization in Support of Environmental and Human Health Risk Assessment; and
- ▶ Guidelines defined by provincial Occupational Health and Safety Standards.

The three grab samples (G1 to G3) and seventeen core samples (C1-A to C8-C) collected from the entrance channel were submitted to Bureau Veritas Laboratories (BV Labs), in Bedford, NS for grain size distribution, total organic carbon/total inorganic carbon (TOC/TIC) analysis, and the ocean disposal suite of parameters which includes polycyclic aromatic hydrocarbons (PAHs), total polychlorinated biphenyls (PCBs) (via the Quebec congener method MA.400-BPC1.0 R5) and ICP 23 metal scan plus mercury. The five grab sediment samples (SED1 to SED5) were submitted to the laboratory and placed on hold pending the sample results, however, analysis was deemed not required based on the initial results.

BV Labs is accredited by the Standards Council of Canada (SCC) for the specified tests.

## 2.3 Quality Assurance and Quality Control

Englobe conducted the environmental sampling following standard operating procedures, including job procedures and safe work practices. The sampling was conducted in accordance with all pertinent acts, regulations, codes, guidelines and standard practices. All sediment samples were logged by Englobe personnel and submitted under chain of custody to BV Labs.

BV Labs conducted their own internal Quality Assurance (QA) / Quality Control (QC) program to identify any potential sources of laboratory error, consistent with the relevant standards requirements for laboratory certification. The laboratory certificates of analysis are provided in Appendix D.

## 3 Criteria

The analytical results were compared to the following:

- ▶ CCME Sediment Quality Guidelines for the Protection of Marine Aquatic Life, Interim Sediment Quality Guidelines (ISQGs) and Probable Effects Levels (PELs); and



- Canadian Environmental Protection Act (CEPA) Disposal at Sea Regulations.

## 4 Sediment Analytical Results

The analytical results of the samples collected from the Chéticamp DFO-SCH are summarized in Appendix C and are discussed below.

### 4.1 Grain Size Distribution

Sediment sample composition is described in Table 2 and Figures 4-1 and 4-2, on the following page. Table 2 provides the primary to quaternary substrate distribution of the sample analyzed from the site. Figure 4-1 illustrates the overall sediment composition of the samples analyzed from the dredge zone locations, expressed as percentages to show the average grain size distributions. Figure 4-2 shows the proportions of gravel, sand, and mud (silt and clay) for the samples.

Refer to Table C.1 in Appendix C for grain size analytical results.

Table 2 – Dominant Sediment Types at Each Sample Location at Chéticamp DFO-SCH

Sample ID	Particle Size Distribution			
	1° Substrate	2° Substrate	3° Substrate	4° Substrate
G1	Sand	Gravel	Clay	Silt
G2	Sand	Gravel	Silt	Clay
G3	Sand	Gravel	Silt	Clay
C1-A	Sand	Silt	Gravel	Clay
C2-A	Sand	Gravel	Silt	Clay
C2-B	Sand	Silt	Clay	Gravel
C2-C	Sand	Gravel	Silt	Clay
C3-A	Sand	Gravel	Silt	Clay
C3-B	Gravel	Sand	Silt	Clay
C4-A	Sand	Gravel	Clay	Silt
C5-A	Sand	Silt	Clay	Gravel
C5-B	Sand	Silt/Clay	Silt/Clay	Gravel
C6-A	Sand	Silt	Clay	Gravel
C6-B	Sand	Silt	Clay	Gravel
C7-A	Sand	Silt	Clay	Gravel
C7-B	Sand	Silt	Clay	Gravel
C7-C	Sand	Silt	Clay	Gravel
C8-A	Sand	Silt	Clay	Gravel
C8-B	Sand	Silt	Clay	Gravel
C8-C	Sand	Silt	Clay	Gravel

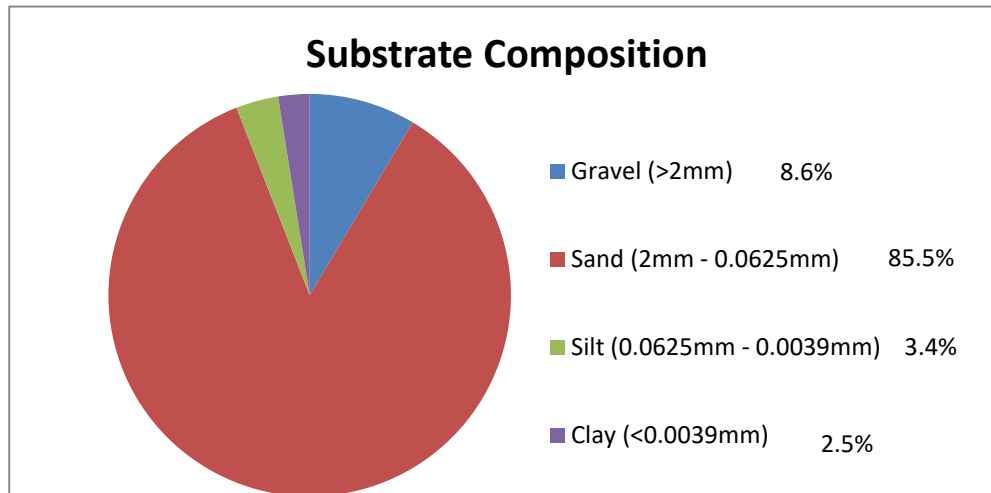


Figure 4-1- Average Substrate Composition of Sediment Samples at Chéticamp DFO-SCH Entrance Channel

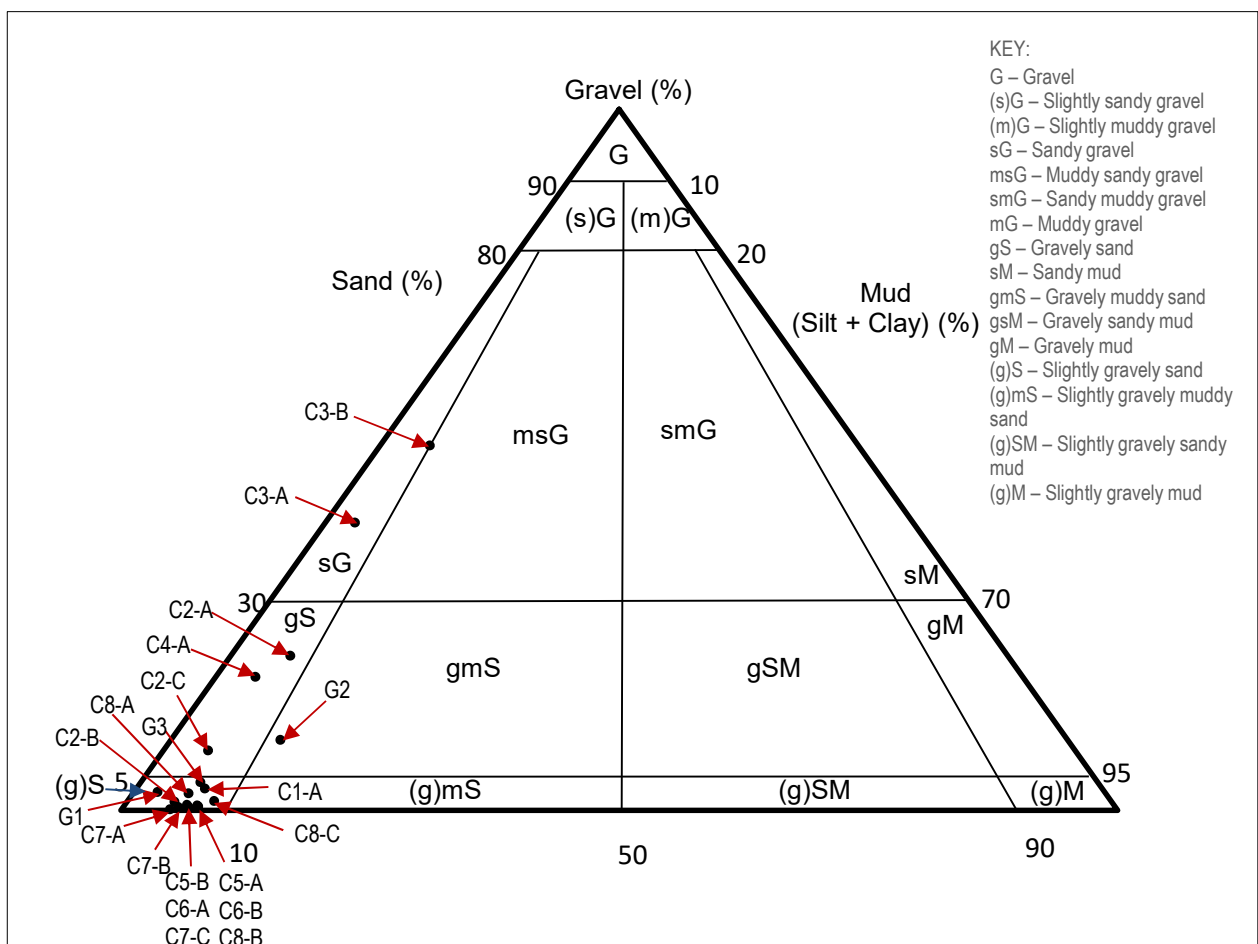


Figure 3-2 - Substrate Composition of Individual Sediment Samples at the at Chéticamp DFO-SCH Entrance Channel

The primary substrate type in sediment samples G1, G3, C1-A, C2-B, C5-A, C5-B, C6-A, C6-B, C7-A, C7-C, C8-A, C8-B and C8-C is slightly gravely sand and the primary substrate type in sediment samples C2-A, C2-C and C4-A is gravely sand. The primary substrate type in sediment samples C3-A and C3-B is sandy gravel. Lastly, the primary substrate type collected at sediment sample G2 is gravely muddy sand.

## 4.2 Organic Carbon

The TOC content in sediment samples collected from the site ranged from 0.083% to 0.72%, TIC content in the samples ranged from <0.05% to 1.1%.

Refer to Table C.1 in Appendix C for TOC and TIC analytical results.

## 4.3 Polycyclic Aromatic Hydrocarbons

PAH results are summarized in Table C.2, Appendix C.

### CCME ISQGs for the Protection of Marine Aquatic Life

Sample C5-B exceeded the applicable CCME ISQGs for the Protection of Marine Aquatic Life for Acenaphthene.

All other PAH parameters reported in the samples satisfy the applicable CCME ISQGs for the Protection of Marine Aquatic life.

### CCME PELs for the Protection of Marine Aquatic Life

All PAH parameters satisfy the applicable CCME PELs for the Protection Marine Aquatic Life criteria.

### CEPA Disposal at Sea Regulations

Total PAHs satisfied the applicable CEPA Disposal at Sea criteria.

## 4.4 Metals

Metal analytical results are summarized in Table C.3, Appendix C.

### CCME ISQGs for the Protection of Marine Aquatic Life

Sample C3-B exceeded the applicable CCME ISQGs for the Protection of Marine Aquatic Life for Copper.

All other metal parameters in the samples collected satisfy the applicable CCME ISQGs for the Protection of Marine Aquatic Life.

### CCME PELs for the Protection of Marine Aquatic Life

All metal parameters satisfy the applicable CCME PELs for the Protection Marine Aquatic Life criteria.

#### CEPA Disposal at Sea Regulations

All metal parameters satisfy the applicable CEPA Disposal at Sea criteria.

## 4.5 Polychlorinated Biphenyls

PCB analytical results are summarized in Table C.4, Appendix C.

No PCBs were detected at the laboratory detection limits and therefore satisfy the applicable CCME ISQGs and PELs criteria for the Protection of Marine Aquatic Life.

Total PCBs satisfy the CEPA Disposal at sea criteria.

## 5 Conclusions

The following conclusions are drawn from the results of the MSSP at Chéticamp DFO-SCH, NS entrance channel:

- ▶ The primary substrate type in sediment samples G1, G3, C1-A, C2-B, C5-A, C5-B, C6-A, C6-B, C7-A, C7-C, C8-A, C8-B and C8-C is slightly gravely sand and the primary substrate type in sediment samples C2-A, C2-C and C4-A is gravelly sand. The primary substrate type in sediment samples C3-A and C3-B is sandy gravel. Lastly, the primary substrate type collected at sediment sample G2 is gravelly muddy sand.
- ▶ The TOC content in sediment samples collected from the site ranged from 0.083% to 0.72%, TIC content in the samples ranged from <0.05% to 1.1%.

The following guideline exceedances were reported:

- ▶ CCME ISQGs Guidelines for the Protection of Marine Aquatic Life:
  - C3-B (collected at 1-2 m): Copper.
  - C5-B (collected at 0.2-1 m): Acenaphthene.

All remaining PAH parameters as well as metal and PCB parameters reported in all the samples submitted satisfy the applicable CCME ISQGs and PELs criteria for the Protection of Marine Aquatic Life.

All chemical parameters satisfy the CEPA Disposal at Sea criteria.

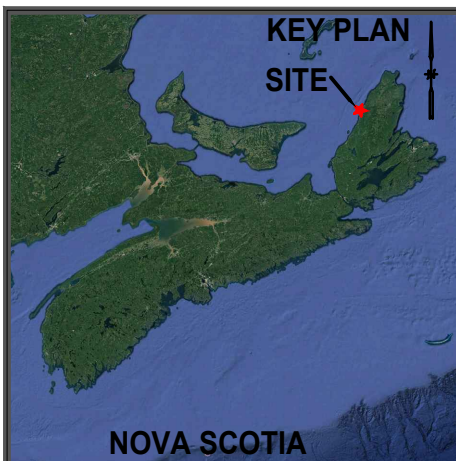
## 6 Report use and Conditions

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## **Appendix A    Site and Sample Location Plan**





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Public Services and Procurement Canada

Marine Sediment Sampling Program

Chéticamp (La Digue) SCH (DFRP# 03532)  
Inverness County, NS

Site Location Plan

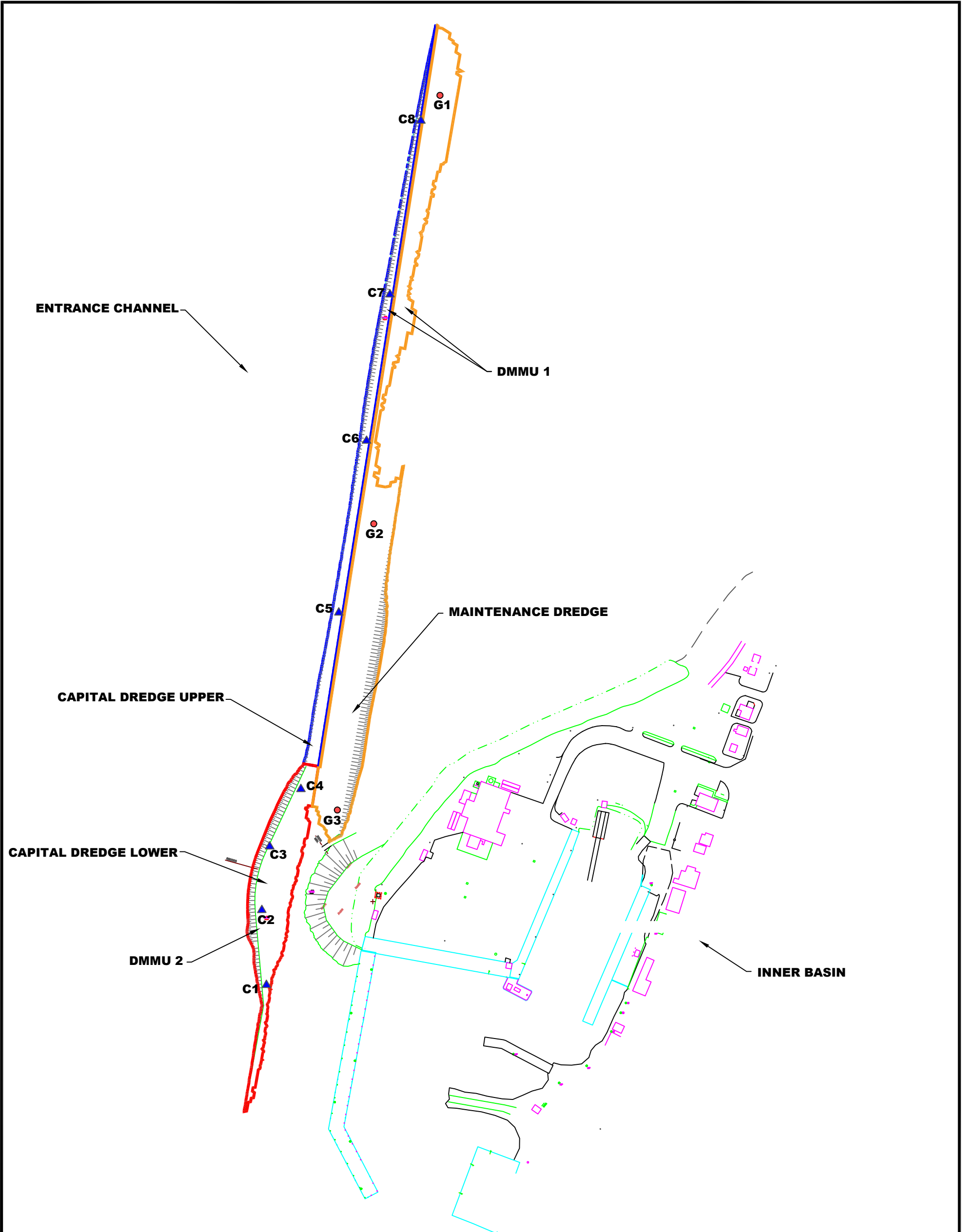


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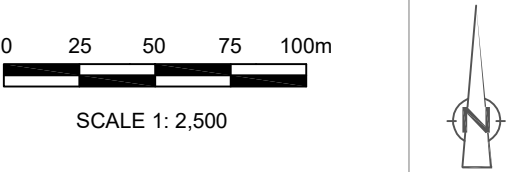
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REF: Dredging Plan Option 2, Channel Dredging, Cheticamp, Inverness County, NS, S02, Dated February 2021, Provided by Client.



LEGEND:					
●	- Surface Grab Sample				
▲	- Core Sample				
□	- Capital Dredge Lower				
□	- Capital Dredge Upper				
□	- Maintenance Dredge				

Public Services and Procurement Canada	Marine Sediment Sampling Program  Chéticamp (La Digue) SCH (DFRP# 03532) Inverness County, NS	XX	X	Nov. 2021	JJ	LB	CC	
		No.	Version	Date	By	Verif	Appr.	
  Englobe Corp. 97 Troop Avenue Dartmouth, NS B3B 2A7 902-468-6486	Sample Location Plan	Discipline: <b>Environment</b>		Prepare by: <b>LB</b>	Verify by: <b>LB</b>			
		Scale: <b>1: 2,500</b>		Draw by: <b>JJ</b>	Approval by: <b>CC</b>			
		Date: <b>November 2021</b>		Figure no: <b>2</b>				
		Page setup: <b>Fig. 2</b>		Paper size: <b>11 x 17</b>		Register no.: <b>2</b>		
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		<b>148 P1900182</b>		<b>118</b>				



## **Appendix B    Field Data Collection Form and Photos**

## MSSP FIELD DATA COLLECTION FORM

<b>Site:</b> Chéticamp (La Digue) DFO-SCH	<b>Location:</b> Entrance Channel, Chéticamp DFO-SCH, Chéticamp, Nova Scotia	<b>Date:</b> Sept 1, 2021 (grab), Sept 15, 16, 17 and 19(core)
<b>Sample Collector:</b> Diver and drill personnel		<b>Time:</b> Sept 1: 2:50 PM, Sept 15: 10:20 AM, Sept 16: 12:45 PM
		Sept 17: 9:00 AM, Sept 19: 6:30 AM
<b>Recorder:</b> GPS Garmin		<b>Average Water Temperature (°C):</b> 21 °C
<b>Collection Device:</b> Buckets, core sampler		<b>Type of Vessel:</b> 24 ft work boat

<b>Site Description:</b>		
<b>Air Temperature:</b> Sept 1: 25°C, Sept 15 & 19: 16°C Sept 16 & 17: 21°C	<b>Weather:</b> Sept 1: Sunny with clouds, Sept 15: Sunny with clear skies Sept 16: Overcast, Sept 17 & 19: Rain with overcast	<b>Photographs Taken:</b> Yes
<b>Site Conditions:</b> Calm to light waves		
<b>Observations:</b> Multiple small to mid-sized fishing boats moored to dock.		

Sample Data:								
Sample ID	Sediment Description <sup>1</sup>	Odour <sup>2</sup>	Sample Depth (cm)	Flora/Fauna/Debris <sup>3</sup>	GPS Coordinates <sup>4</sup>		Water Depth (m)	Sample Date
G1	Dark brown sand with tiny grey specks, coarse-grained, compact	Slight fish odour	20	None observed	46.641843	-61.009691	5.8	01-Sep-21
G2	Black silty sand with tiny grey specks, coarse-grained, soft	Strong sulphur odour	20	Some seaweed, roots and wood debris	46.639237	-61.010352	5.8	01-Sep-21
G3	Black silty sand with tiny grey specks, coarse-grained, soft	Strong sulphur odour	20	Some seaweed, roots and wood debris	46.637495	-61.010725	5.5	01-Sep-21
C1-A	Grey sand with trace silt, mediam-grained, compact	None detected	0 to 100	None observed	46.636436	-61.011383	4.6	15-Sep-21
C2-A	Grey sand, fine to medium-grained, compact	None detected	0 to 100	None observed			2.7	
C2-B	Grey sand, medium-grained, compact	None detected	100 to 200	None observed	46.636895	-61.011411	2.7	16-Sep-21
C2-C	Grey sand, medium-grained, compact	None detected	200 to 300	None observed			2.7	
C3-A	Grey sand with some gravel, medium-grained, compact	None detected	0 to 100	Some small white shell fragments	46.637281	-61.011331	3.0	19-Sep-21
C3-B	Grey sandy gravel, medium to coarse-grained, compact	None detected	100 to 200	Trace small white shell fragments			3.0	
C4-A	Grey sand, fine to medium-grained, compact	None detected	0 to 100	None observed	46.637629	-61.011043	2.1	17-Sep-21
C4-B	Brown and grey gravel with trace sand, coarse-grained, compact	None detected	100 to 200	None observed			2.1	17-Sep-21
C5-A	Grey sand, fine to medium-grained, compact	None detected	0 to 20	None observed	46.638701	-61.010676	2.1	17-Sep-21
C5-B	Grey sand, fine to medium-grained, compact	None detected	20 to 100	None observed			2.1	17-Sep-21
C6-A	Grey sand, fine to medium-grained, compact	None detected	0 to 20	Trace small white shell fragments	46.639746	-61.010402	2.1	17-Sep-21
C6-B	Grey sand, fine to medium-grained, compact	None detected	20 to 100	Trace small white shell fragments			2.1	17-Sep-21
C7-A	Grey sand, fine-grained, compact	None detected	0 to 20	Trace small white shell fragments			4.3	17-Sep-21
C7-B	Grey sand, fine-grained, compact	None detected	20 to 100	Trace small white shell fragments	46.640637	-61.010168	4.3	17-Sep-21
C7-C	Grey sand, fine-grained, compact	None detected	100 to 200	Trace small white shell fragments			4.3	17-Sep-21
C8-A	Grey sand, coarse-grained, compact	None detected	0 to 20	None observed			4.3	17-Sep-21
C8-B	Grey sand, coarse-grained, compact	None detected	20 to 100	Small white shell fragments	46.641693	-61.009864	4.3	17-Sep-21
C8-C	Grey sand, coarse-grained, compact	None detected	100 to 200	Small white shell fragments			4.3	17-Sep-21

### Additional Comments:

Used spade and buckets to collect grab samples as deep as possible  
All samples terminated at refusal except for at C3 location. Winds increased to high to complete deeper samples at C3

### Notes:

1. Material type, texture and consistency, colour
2. Degree and type of odour (strong, slight, none)
3. Noted within the bulk sample
4. Specify units/zone



**PHOTO 1** — Underwater photo of grab sediment sample location G1 (September 1, 2021).



**PHOTO 2** — Photo of grab sediment sample G1 (September 1, 2021).



**PHOTO 3** — Underwater photo of grab sediment sample location G2 (September 1, 2021).



**PHOTO 4** — Photo of grab sediment sample G2 (September 1, 2021).





**PHOTO 5** — Underwater photo of grab sediment sample location G3 (September 1, 2021).



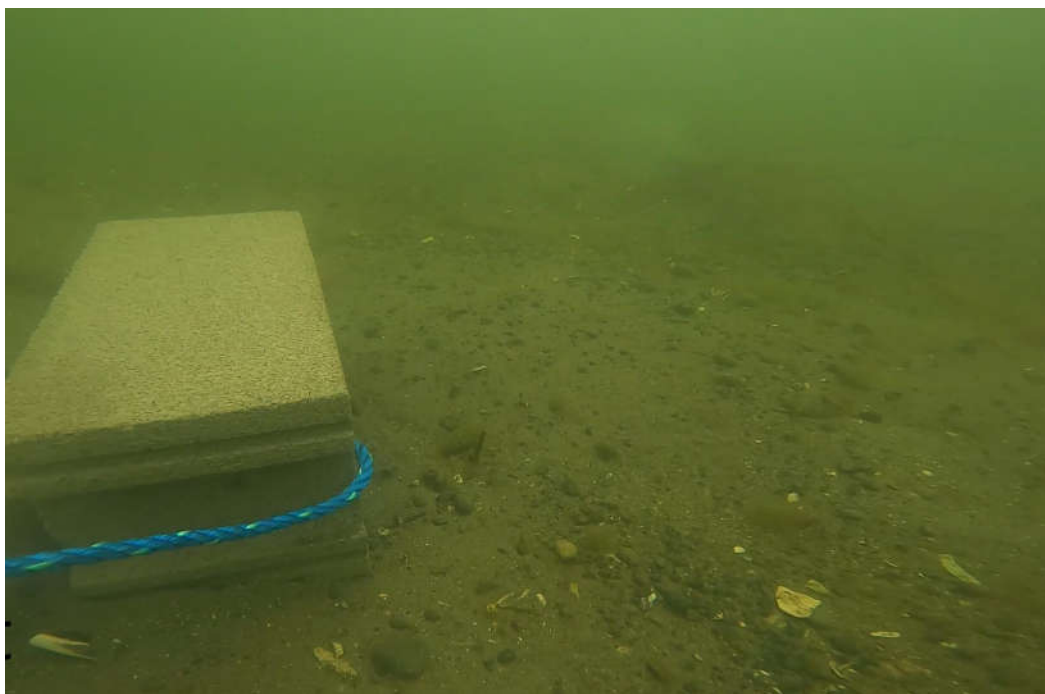
**PHOTO 6** — Photo of grab sediment sample G3 (September 1, 2021).



**PHOTO 7** — Underwater photo of core sediment sample location C1 (September 15, 2021).



**PHOTO 8** — Photo of sediment sample C1-A (September 15, 2021).



**PHOTO 9** — Underwater photo of core sediment sample location C2 (September 16, 2021).



**PHOTO 10** — Photo of core sediment sample C2-A (September 16, 2021).





**PHOTO 11** — Photo of core sediment sample C2-B (September 16, 2021).



**PHOTO 12** — Photo of core sediment sample C2-C (September 16, 2021).





**PHOTO 13** — Underwater photo of core sediment sample location C3 (September 19, 2021).



**PHOTO 14** — Photo of core sediment sample C3-A (September 19, 2021).



**PHOTO 15** — Photo of core sediment sample C3-B (September 19, 2021).



**PHOTO 16** — Underwater photo of sediment sample location C4 (September 17, 2021).



**PHOTO 17** — Photo of core sediment sample C4-A (September 17, 2021).



**PHOTO 18** — Underwater photo of core sediment sample location C5 (September 17, 2021).

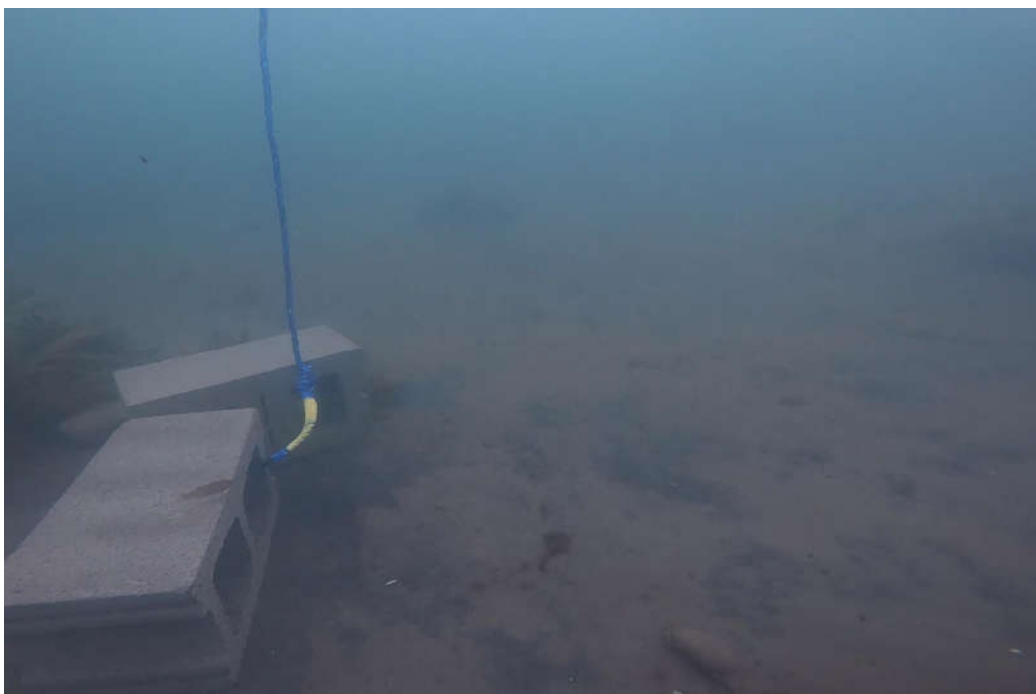




**PHOTO 19** — Photo of core sediment sample C5-A (September 17, 2021).



**PHOTO 20** — Photo of core sediment sample C5-B (September 17, 2021).



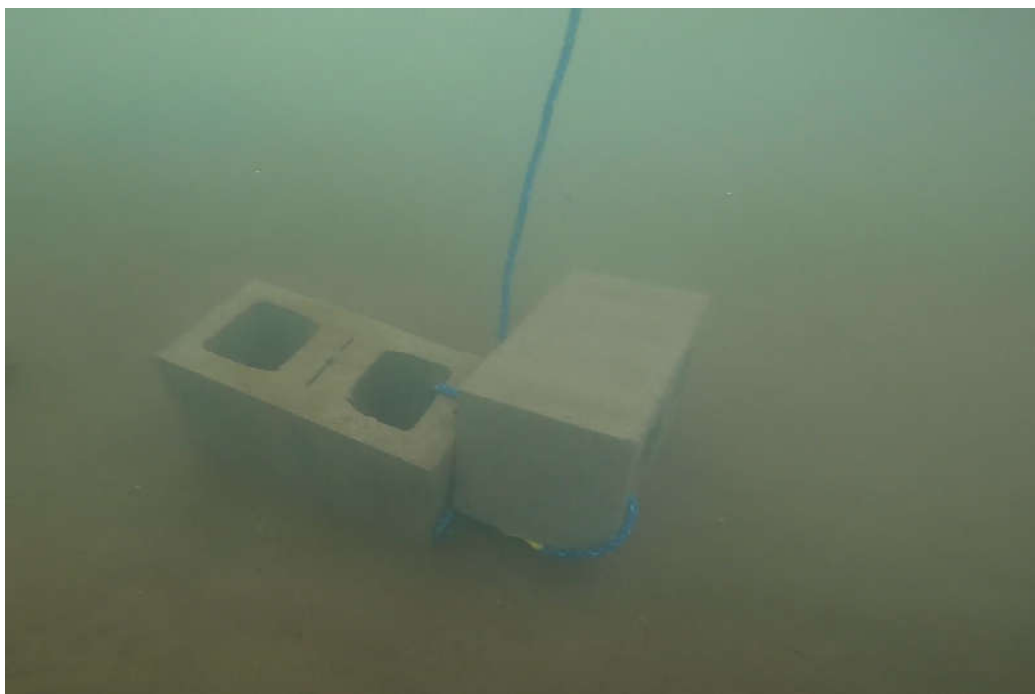
**PHOTO 21** — Underwater photo of core sediment sample location C6 (September 17, 2021).



**PHOTO 22** — Photo of core sediment sample C6-A (September 17, 2021).



**PHOTO 23** — Photo of core sediment sample C6-B (September 17, 2021).



**PHOTO 24** — Underwater photo of core sediment sample location C7 (September 17, 2021).





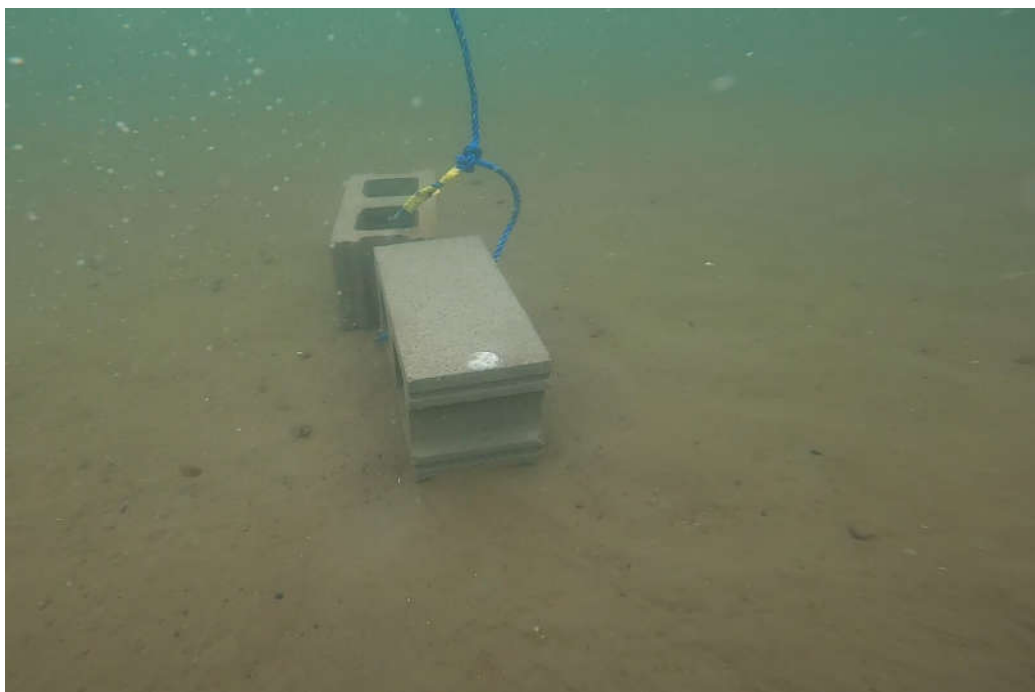
**PHOTO 25** — Photo of core sediment sample C7-A (September 17, 2021).



**PHOTO 26** — Photo of core sediment sample C7-B (September 17, 2021).



**PHOTO 27**— Photo of core sediment sample C7-C (September 17, 2021).

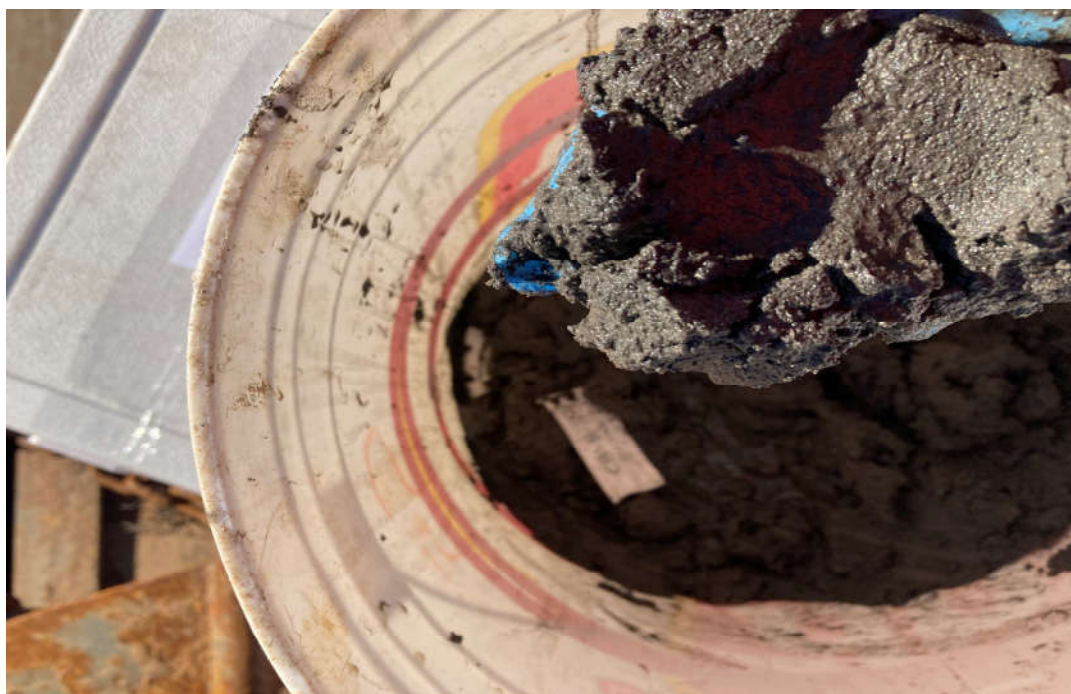


**PHOTO 28** — Underwater photo of core sediment sample location C8 (September 17, 2021).





**PHOTO 29** — Photo of core sediment sample C8-A (September 17, 2021).



**PHOTO 30** — Photo of core sediment sample C8-B (September 17, 2021).



**PHOTO 31** — Photo of core sediment sample C8-C (September 17, 2021).

## Appendix C Analytical Summary Tables

Table C.1. Grain Size and Total Organic Carbon (TOC) Results - Chéticamp Entrance Channel DFO-SCH, NS

Parameter	RDL	Units	Sample ID, Depth and Date																			
			G1	G2	G3	C1	C2			C3		C4	C5		C6		C7			C8		
			0-0.2 m	0-0.2 m	0-0.2 m	(A) 0-1 m	(A) 0-1 m	(B) 1-2 m	(C) 2-3 m	(A) 0-1 m	(B) 1-2 m	(A) 0-1 m	(A) 0-0.2 m	(B) 0.2-1 m	(A) 0-0.2 m	(B) 0.2-1 m	(A) 0-0.2 m	(B) 0.2-1 m	(C) 1-2 m	(A) 0-0.2 m	(B) 0.2-1 m	(C) 1-2 m
			01-Sep-21			15-Sep-21	16-Sep-21			19-Sep-21		17-Sep-21										
Grain Size																						
< -1 Phi (2 mm)	0.1	%	97 <sup>1</sup>	90 <sup>2</sup>	96 <sup>2</sup>	97	78	99	92 <sup>3</sup>	59	48	81	99 <sup>4</sup>	100 <sup>4</sup>	100 <sup>3</sup>	99 <sup>4</sup>	100 <sup>1</sup>	100	99 <sup>3</sup>	98	99	99 <sup>3</sup>
< 0 Phi (1 mm)			96	89 <sup>1</sup>	96 <sup>1</sup>	96	74	98 <sup>3</sup>	88 <sup>3</sup>	49	37	74	99 <sup>4</sup>	99 <sup>4</sup>	99 <sup>5</sup>	99 <sup>5</sup>	100 <sup>1</sup>	99	99 <sup>3</sup>	97 <sup>3</sup>	99	98 <sup>3</sup>
< +1 Phi (0.5 mm)			94	89 <sup>1</sup>	95 <sup>1</sup>	93	70	97 <sup>3</sup>	84 <sup>3</sup>	44	31	72	99 <sup>4</sup>	99 <sup>4</sup>	99 <sup>5</sup>	99 <sup>5</sup>	99 <sup>1</sup>	99	99 <sup>3</sup>	96 <sup>3</sup>	98 <sup>3</sup>	98 <sup>3</sup>
< +2 Phi (0.25 mm)			78	88 <sup>1</sup>	85 <sup>1</sup>	60	50	68	57	27	22	60	91 <sup>4</sup>	91 <sup>4</sup>	96 <sup>5</sup>	96 <sup>5</sup>	98	97	96 <sup>3</sup>	90	95 <sup>3</sup>	95 <sup>3</sup>
< +3 Phi (0.12 mm)			11	42	21	18	13	11	11	7.0	9.3	13	26	21	30	29	28	32	31	28	32	35
< +4 Phi (0.062 mm)			2.3	11	6.0	6.8	5.5	4.4	4.8	2.9	4.5	3.9	7.1	6.2	6.7	7.2	5.1	5.5	6.4	5.5	7.8	9.0
< +5 Phi (0.031 mm)			2.2	7.2	4.8	4.3	4.0	3.5	3.8	2.3	3.3	3.3	5.7	5.4	5.3	6.1	4.3	4.7	5.2	4.4	5.4	6.3
< +6 Phi (0.016 mm)			2.0	5.6	3.8	3.5	3.3	3.0	3.2	1.8	2.3	2.7	4.7	4.5	3.9	4.8	3.3	3.6	4.1	3.5	4.1	5.1
< +7 Phi (0.0078 mm)			1.8	4.3	3.1	2.7	2.5	2.2	2.5	1.3	1.5	2.1	3.6	3.4	3.0	3.5	2.5	2.8	3.1	2.6	3.0	3.6
< +8 Phi (0.0039 mm)			1.8	4.0	2.8	2.4	2.3	1.9	2.2	1.2	1.3	2.0	3.2	3.1	2.6	3.1	2.3	2.5	2.8	2.5	2.7	3.4
< +9 Phi (0.0020 mm)			1.8	3.1	2.3	2.0	1.9	1.6	1.7	1.1	1.1	1.7	2.7	2.6	2.0	2.5	2.0	2.1	2.4	2.0	2.0	2.6
Gravel			2.6	10	4.0	3.1	22	1.2	8.5	41	52	19	0.51	0.36	0.46	0.54	0.14	0.44	0.75	2.4	0.66	1.3
Sand	95	79	90	90	72	94	87	56	43	77	92	93	93	92	95	94	93	92	92	90		
Silt	0.47	6.9	3.2	4.5	3.2	2.4	2.6	1.7	3.1	1.9	3.9	3.1	4.1	4.1	2.8	2.9	3.6	3.0	5.2	5.6		
Clay	1.8	4.0	2.8	2.4	2.3	1.9	2.2	1.2	1.3	2.0	3.2	3.1	2.6	3.1	2.3	2.5	2.8	2.5	2.7	3.4		
Total Organic Carbon																						
Total Carbon (TC)	0.05	%	0.19	1.8	0.61	0.57	0.48	0.45	0.58	0.48	0.47	0.29	0.71	0.84	0.36	0.33	0.16	0.21	0.25	0.27	0.26	0.45
Total Organic Carbon (TOC)	0.05	%	0.14	0.67	0.40	0.38	0.31	0.28	0.22	0.16	0.15	0.18	0.72	0.52	0.17	0.22	0.10	0.11	0.11	0.13	0.083	0.23
Total Inorganic Carbon (TIC)	0.05	%	<0.05	1.1	0.21	0.19	0.17	0.16	0.36	0.32	0.33	0.11	<0.05	0.32	0.18	0.12	0.05	0.10	0.14	0.13	0.17	0.21
Moisture	1.0	%	21	36	27	20	21	20	20	13	14	19	26	25	25	22	22	20	22	19	21	22

Notes:

- <sup>1</sup> PSA sample observation comment: Fraction contained organic material.
- <sup>2</sup> PSA sample observation comment: Fraction contained rocks.
- <sup>3</sup> PSA sample observation comment: Fraction contained shells.
- <sup>4</sup> PSA sample observation comment: Fraction contained organic matter.
- <sup>5</sup> PSA sample observation comment: Fraction contained organic matter and shells.

Table C.2. Polycyclic Aromatic Hydrocarbons (PAHs) Results - Chéticamp Entrance Channel DFO-SCH, NS

Parameter	RDL	Units	CCME ISQG <sup>1</sup>	CCME PEL <sup>2</sup>	CEPA Disposal at Sea Guidelines <sup>3</sup>	Sample ID, Depth and Date																				
						G1	G2	G3	C1	C2			C3		C4	C5		C6		C7			C8			
						0-0.2 m	0-0.2 m	0-0.2 m	(A) 0-1 m	(A) 0-1 m	(B) 1-2 m	(C) 2-3 m	(A) 0-1 m	(B) 1-2 m	(A) 0-1 m	(A) 0-0.2 m	(B) 0.2-1 m	(A) 0-0.2 m	(B) 0.2-1 m	(A) 0-0.2 m	(B) 0.2-1 m	(C) 1-2 m	(A) 0-0.2 m	(B) 0.2-1 m	(C) 1-2 m	
						01-Sep-21			15-Sep-21	16-Sep-21			19-Sep-21		17-Sep-21											
1-Methylnaphthalene	0.005	mg/kg	-	-	-	<0.0050	0.014	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0076	<0.0050	<0.0050	<0.0050			
2-Methylnaphthalene	0.005		0.0202	0.201	-	<0.0050	0.020	0.0073	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0071	0.011	<0.0050	<0.0050	<0.0050	0.010	0.0067	<0.0050	<0.0050	0.0072	
Acenaphthene	0.005		0.00671	0.0889	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0068 <sup>4</sup>	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Acenaphthylene	0.005		0.00587	0.128	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Anthracene	0.005		0.0469	0.245	-	<0.0050	0.018	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.015	0.015	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(a)anthracene	0.030		0.0748	0.693	-	<0.0050	0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0081	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0093
Benzo(a)pyrene	0.005		0.0888	0.763	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(b)fluoranthene	0.005		-	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0099
Benzo(b/j)fluoranthene	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	<0.010
Benzo(g,h,i)perylene	0.005		-	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(j)fluoranthene	0.005		-	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Benzo(k)fluoranthene	0.005		-	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Chrysene	0.005		0.108	0.846	-	<0.0050	0.013	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.010	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.013
Dibenz(a,h)anthracene	0.005		0.00622	0.135	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Fluoranthene	0.005		0.113	1.494	-	<0.0050	0.031	0.023	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0053	0.039	0.028	0.014	0.010	<0.0050	<0.0050	0.0092	<0.0050	<0.0050	<0.0050	0.021
Fluorene	0.005		0.0212	0.144	-	<0.0050	0.0078	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.016	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Indeno(1,2,3-cd)pyrene	0.005		-	-	-	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Naphthalene	0.005		0.0346	0.391	-	<0.0050	0.011	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0068	0.0091	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050
Perylene	0.005		-	-	-	<0.0050	<0.0050	<0.0050	0.0070	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.011	0.013	<0.0050	0.0072	<0.0050	<0.0050	0.0078	<0.0050	<0.0050	<0.0050	0.0073
Phenanthrene	0.005		0.0867	0.544	-	<0.0050	0.030	0.019	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.023	0.047	0.0071	0.0092	<0.0050	<0.0050	0.0067	<0.0050	<0.0050	<0.0050	0.013
Pyrene	0.005		0.153	1.398	-	<0.0050	0.021	0.015	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.030	0.017	0.0090	0.0091	<0.0050	<0.0050	0.0078	<0.0050	<0.0050	<0.0050	0.018
Total PAH				-	-	2.50	0.050	0.200	0.100	0.048	0.050	0.050	0.050	0.050	0.053	0.028	0.032	0.043	0.040	0.050	0.045	0.038	0.050	0.050	0.030	

Notes:

value <sup>x</sup>

- guideline exceedance

Where a calculation requires the use of a value which was not detected, a value equal to half the laboratory reportable detection limit (RDL) is used in the equation.

<sup>1</sup> 1999 (2001 update) CCME Sediment Quality Guidelines for the Protection of Aquatic Life (Marine), Interim Sediment Quality Guideline (ISQG).

<sup>2</sup> 1999 (2001 update) CCME Sediment Quality Guidelines for the Protection of Aquatic Life (Marine), Probable Effects Level (PEL).

<sup>3</sup> Canadian Environmental Protection Act (CEPA) Disposal at Sea Regulations (SOR/2001-275)

<sup>4</sup> Value exceeds the applicable CCME ISQGs



Table C.3. Metals Concentrations for Results - Chéticamp Entrance Channel DFO-SCH, NS

Parameter	RDL	Units	CCME ISQG <sup>1</sup>	CCME PEL <sup>2</sup>	CEPA Disposal at Sea Guidelines <sup>3</sup>	Sample ID and Date																			
						G1	G2	G3	C1	C2			C3		C4	C5		C6		C7			C8		
						0-0.2 m	0-0.2 m	0-0.2 m	(A) 0-1 m	(A) 0-1 m	(B) 1-2 m	(C) 2-3 m	(A) 0-1 m	(B) 1-2 m	(A) 0-1 m	(A) 0-0.2 m	(B) 0.2-1 m	(A) 0-0.2 m	(B) 0.2-1 m	(A) 0-0.2 m	(B) 0.2-1 m	(C) 1-2 m	(A) 0-0.2 m	(B) 0.2-1 m	(C) 1-2 m
						01-Sep-21			15-Sep-21	16-Sep-21			19-Sep-21		17-Sep-21										
Aluminum	10.0	mg/kg	-	-	-	2200	3900	3000	2500	2400	1900	2400	3500	4100	3000	2700	2600	3100	2900	2600	3000	2900	2700	2900	3300
Antimony	2.0		-	-	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	
Arsenic	2.0		7.24	41.6	-	2.4	2.7	<2.0	<2.0	<2.0	<2.0	<2.0	2.1	3.0	<2.0	<2.0	<2.0	<2.0	<2.0	2.1	2.2	<2.0	2.0	2.3	2.4
Barium	5.0		-	-	-	36	26	20	26	24	16	26	22	24	23	23	24	31	23	34	36	25	34	32	33
Beryllium	2.0		-	-	-	<2.0	<2.0	<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	<1.0	<1.0	<1.0	
Bismuth	2.0		-	-	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<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 (Hot Water Soluble)	0.3		-	-	-	1.4	7.5	3.6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Boron	50		-	-	-	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	<50	
Cadmium	0.3		0.7	4.2	0.6	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	<0.30	
Chromium +6	0.2		-	-	-	<0.18	<0.18	<0.18	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chromium (Total)	2.0		52.3	160	-	4.8	7.0	5.5	5.6	6.3	4.6	5.6	9.7	11	6.2	5.9	5.7	6.6	5.7	6.1	6.6	6.1	6.6	6.5	7.1
Cobalt	1.0		-	-	-	2.5	4.1	3.1	2.4	2.4	2.2	3.0	3.0	4.2	2.8	2.9	2.8	3.2	2.8	2.7	3.0	2.9	2.8	3.2	3.3
Copper	2.0		18.7	108	-	2.2	7.2	3.7	2.9	2.4	2.2	5.4	4.7	26 <sup>4</sup>	3.6	3.7	3.7	4.2	3.3	3.4	3.6	4.1	3.5	4.3	4.6
Iron	50		-	-	-	6900	9300	7700	6500	6800	5500	6600	8800	11000	7800	6800	6500	7600	6700	6900	7600	6900	7400	7600	8000
Lead	0.5		30.2	112	-	3.8	12	6.0	3.4	4.0	2.6	3.1	6.7	8.1	6.4	5.6	6.0	5.0	4.7	3.5	4.1	4.2	5.2	4.5	5.7
Lithium	2.0		-	-	-	5.7	11	7.9	6.5	7.0	4.9	6.3	9.1	13	8.2	6.7	6.2	8.0	6.4	5.7	7.0	6.4	5.8	6.4	7.8
Manganese	2.0		-	-	-	240	190	180	310	310	290	330	300	290	220	170	180	170	150	170	180	170	200	190	190
Mercury	0.1		0.13	0.7	0.75	<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	
Molybdenum	2.0		-	-	-	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<2.0	<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	2.0		-	-	-	4.7	8.7	6.3	15	4.7	3.9	4.5	6.8	7.8	5.8	5.8	5.6	6.6	5.6	5.3	6.4	5.6	5.8	6.7	
Rubidium	2.0		-	-	-	2.2	3.9	3.0	2.4	2.2	2.0	2.2	2.3	3.1	2.5	2.8	2.6	3.1	3.0	2.5	2.9	3.0	2.6	2.9	3.5
Selenium	1.0		-	-	-	<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	
Silver	0.5		-	-	-	<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		
Strontium	5.0		-	-	-	6.3	19	10	22	23	29	29	11	10	8.8	19	22	15	15	8.5	13	16	9.0	13	23
Thallium	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		
Tin	1.0		-	-	-	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	1.8	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0	<1.0		
Uranium	0.1		-	-	-	0.27	0.58	0.44	0.34	0.31	0.20	0.25	0.50	0.50	0.39	0.37	0.43	0.33	0.33	0.26	0.26	0.28	0.28	0.27	0.31
Vanadium	2.0		-	-	-	9.4	12	8.9	7.5	7.4	5.9	7.3	12	14	9.8	8.9	8.3	9.6	8.5	9.2	9.2	8.4	9.5	9.4	9.9
Zinc	5.0		-	124	271	-	16	39	27	20	20	16	21	36	60	29	28	26	28	22	18	21	21	19	25

Notes:

value <sup>x</sup>

- guideline exceedance

<sup>1</sup> 1999 (2001 update) CCME Sediment Quality Guidelines for the Protection of Aquatic Life (Marine), Interim Sediment Quality Guideline (ISQG).

<sup>2</sup> 1999 (2001 update) CCME Sediment Quality Guidelines for the Protection of Aquatic Life (Marine), Probable Effects Level (PEL).

<sup>3</sup> Canadian Environmental Protection Act (CEPA) Disposal at Sea Regulations (SOR/2001-275)

<sup>4</sup> Value exceeds CCME SQG ISQGs

**Table C.4. PCB Results for Sediment Samples - Chéticamp Entrance Channel DFO-SCH, NS**

[illegible]

**Notes:**

<sup>1</sup> 1999 (2001 update) CCME Sediment Quality Guidelines for the Protection of Aquatic Life (Marine), Interim Sediment Quality Guideline (ISQG).

<sup>2</sup> 1999 (2001 update) CCME Sediment Quality Guidelines for the Protection of Aquatic Life (Marine), Probable Effects Level (PEL).

<sup>3</sup> Canadian Environmental Protection Act (CEPA) Disposal at Sea Regulations (SOR/2001-275)

## **Appendix D   Laboratory Certificates of Analysis**





Your P.O. #: 24557  
Your Project #: 1900182.118  
Your C.O.C. #: D 57492, D 57491

**Attention: Doreen Chenard**

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

**Report Date: 2021/11/08**  
Report #: R6891852  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C1V7357**

**Received: 2021/10/29, 11:51**

Sample Matrix: Sediment  
# Samples Received: 20

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Total PCB - Individual Congeners (1, 2)	20	2021/11/03	2021/11/05	STL SOP-00133	MA. 400-BPC 1.0 R5 m

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas 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. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas 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 Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

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. When sampling is not conducted by Bureau Veritas, results relate to the supplied 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 Bureau Veritas Montreal, 889 Montée De Liesse, Saint Laurent, QC, H4T 1P5

(2) Please note that the results have been corrected for the surrogate recoveries.

Un-rounded results are used in the total "PCB" calculation. This total result is then rounded to two significant figures.

The total indicated is calculated only for the requested parameters.



Your P.O. #: 24557  
Your Project #: 1900182.118  
Your C.O.C. #: D 57492, D 57491

**Attention: Doreen Chenard**

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

**Report Date: 2021/11/08**  
Report #: R6891852  
Version: 1 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C1V7357**  
**Received: 2021/10/29, 11:51**

**Encryption Key**

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

Keri Mackay, Customer Experience Team Lead

Email: Keri.MACKAY@bureauveritas.com

Phone# (902)420-0203 Ext:294

=====

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



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VERITAS

Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		RBV049					
Sampling Date		2021/09/01					
COC Number		D 57492		TOXIC EQUIVALENCY		# of	
	UNITS	G1	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
<b>PCBs</b>							
TriCB-(17)+(18)	mg/kg	<0.010	0.010				7686963
TriCB-(28)+(31)	mg/kg	<0.010	0.010				7686963
2'34'-TriCB-(33)	mg/kg	<0.010	0.010				7686963
22'55'-TetraCB-(52)	mg/kg	<0.010	0.010				7686963
22'45'-TetraCB-(49)	mg/kg	<0.010	0.010				7686963
22'35'-TetraCB-(44)	mg/kg	<0.010	0.010				7686963
244'5'-TetraCB-(74)	mg/kg	<0.010	0.010				7686963
23'4'5'-TetraCB-(70)	mg/kg	<0.010	0.010				7686963
22'35'6'-PentaCB-(95)	mg/kg	<0.010	0.010				7686963
22'455'-PentaCB-(101)	mg/kg	<0.010	0.010				7686963
22'44'5'-PentaCB-(99)	mg/kg	<0.010	0.010				7686963
22'345'-PentaCB-(87)	mg/kg	<0.010	0.010				7686963
233'4'6'-PentaCB-(110)	mg/kg	<0.010	0.010				7686963
22'33'4'-PentaCB-(82)	mg/kg	<0.010	0.010				7686963
22'355'6'-HexaCB-(151)	mg/kg	<0.010	0.010				7686963
22'34'5'6'-HexaCB-(149)	mg/kg	<0.010	0.010				7686963
23'44'5'-PentaCB-(118)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'44'55'-HexaCB-(153)	mg/kg	<0.010	0.010				7686963
22'33'46'-HexaCB-(132)	mg/kg	<0.010	0.010				7686963
233'44'-PentaCB-(105)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
HexaCB-(138)+(158)	mg/kg	<0.010	0.010				7686963
22'34'55'6'-HeptaCB-(187)	mg/kg	<0.010	0.010				7686963
22'344'5'6'-HeptaCB-(183)	mg/kg	<0.010	0.010				7686963
22'33'44'-HexaCB-(128)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-HeptaCB-(177)	mg/kg	<0.010	0.010				7686963
22'33'44'6'-HeptaCB-(171)	mg/kg	<0.010	0.010				7686963
233'44'5'-HexaCB-(156)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'344'55'-HeptaCB-(180)	mg/kg	<0.010	0.010				7686963
233'44'5'6'-HeptaCB-(191)	mg/kg	<0.010	0.010				7686963
33'44'55'-HexaCB-(169)	mg/kg	<0.010	0.010	0.030	0.00030		7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



BUREAU  
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Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

<b>Bureau Veritas ID</b>		RBV049					
<b>Sampling Date</b>		2021/09/01					
<b>COC Number</b>		D 57492		<b>TOXIC EQUIVALENCY</b>		# of	
	<b>UNITS</b>	<b>G1</b>	<b>RDL</b>	<b>TEF (2005 WHO)</b>	<b>TEQ(DL)</b>	<b>Isomers</b>	<b>QC Batch</b>
22'33'44'5-HeptaCB-(170)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-OctaCB-(199)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-NonaCB-(208)	mg/kg	<0.010	0.010				7686963
22'33'44'5'6'-OctaCB-(195)	mg/kg	<0.010	0.010				7686963
22'33'44'5'5'-OctaCB-(194)	mg/kg	<0.010	0.010				7686963
23'34'44'5'5'-OctaCB-(205)	mg/kg	<0.010	0.010				7686963
22'33'44'5'5'-NonaCB-(206)	mg/kg	<0.010	0.010				7686963
DecaCB-(209)	mg/kg	<0.010	0.010				7686963
Trichlorobiphenyls	mg/kg	<0.010	0.010				7686963
Tetrachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Pentachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Hexachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Heptachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Octachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Nonachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Decachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Total PCB	mg/kg	<0.010	0.010				7686963
TOTAL TOXIC EQUIVALENCY	mg/kg				0.00030		
<b>Surrogate Recovery (%)</b>							
2,3,3',4,6-Pentachlorobiphenyl	%	77					7686963
2',3,5-Trichlorobiphenyl	%	83					7686963
22'33'44'5'6'-Nonachlorobiphenyl	%	80					7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							





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Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		RBV050					
Sampling Date		2021/09/01					
COC Number		D 57492		TOXIC EQUIVALENCY		# of	
	UNITS	G2	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
<b>PCBs</b>							
TriCB-(17)+(18)	mg/kg	<0.010	0.010				7686963
TriCB-(28)+(31)	mg/kg	<0.010	0.010				7686963
2'34'-TriCB-(33)	mg/kg	<0.010	0.010				7686963
22'55'-TetraCB-(52)	mg/kg	<0.010	0.010				7686963
22'45'-TetraCB-(49)	mg/kg	<0.010	0.010				7686963
22'35'-TetraCB-(44)	mg/kg	<0.010	0.010				7686963
244'5'-TetraCB-(74)	mg/kg	<0.010	0.010				7686963
23'4'5'-TetraCB-(70)	mg/kg	<0.010	0.010				7686963
22'35'6'-PentaCB-(95)	mg/kg	<0.010	0.010				7686963
22'455'-PentaCB-(101)	mg/kg	<0.010	0.010				7686963
22'44'5'-PentaCB-(99)	mg/kg	<0.010	0.010				7686963
22'345'-PentaCB-(87)	mg/kg	<0.010	0.010				7686963
233'4'6'-PentaCB-(110)	mg/kg	<0.010	0.010				7686963
22'33'4'-PentaCB-(82)	mg/kg	<0.010	0.010				7686963
22'355'6'-HexaCB-(151)	mg/kg	<0.010	0.010				7686963
22'34'5'6'-HexaCB-(149)	mg/kg	<0.010	0.010				7686963
23'44'5'-PentaCB-(118)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'44'55'-HexaCB-(153)	mg/kg	<0.010	0.010				7686963
22'33'46'-HexaCB-(132)	mg/kg	<0.010	0.010				7686963
233'44'-PentaCB-(105)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
HexaCB-(138)+(158)	mg/kg	<0.010	0.010				7686963
22'34'55'6'-HeptaCB-(187)	mg/kg	<0.010	0.010				7686963
22'344'5'6'-HeptaCB-(183)	mg/kg	<0.010	0.010				7686963
22'33'44'-HexaCB-(128)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-HeptaCB-(177)	mg/kg	<0.010	0.010				7686963
22'33'44'6'-HeptaCB-(171)	mg/kg	<0.010	0.010				7686963
233'44'5'-HexaCB-(156)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'344'55'-HeptaCB-(180)	mg/kg	<0.010	0.010				7686963
233'44'5'6'-HeptaCB-(191)	mg/kg	<0.010	0.010				7686963
33'44'55'-HexaCB-(169)	mg/kg	<0.010	0.010	0.030	0.00030		7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



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Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

### RESULTS OF ANALYSES OF SEDIMENT

<b>Bureau Veritas ID</b>		RBV050					
<b>Sampling Date</b>		2021/09/01					
<b>COC Number</b>		D 57492		<b>TOXIC EQUIVALENCY</b>		# of	
	<b>UNITS</b>	<b>G2</b>	<b>RDL</b>	<b>TEF (2005 WHO)</b>	<b>TEQ(DL)</b>	<b>Isomers</b>	<b>QC Batch</b>
22'33'44'5-HeptaCB-(170)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-OctaCB-(199)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-NonaCB-(208)	mg/kg	<0.010	0.010				7686963
22'33'44'56-OctaCB-(195)	mg/kg	<0.010	0.010				7686963
22'33'44'55'-OctaCB-(194)	mg/kg	<0.010	0.010				7686963
233'44'55'6-OctaCB-(205)	mg/kg	<0.010	0.010				7686963
22'33'44'55'6-NonaCB-(206)	mg/kg	<0.010	0.010				7686963
DecaCB-(209)	mg/kg	<0.010	0.010				7686963
Trichlorobiphenyls	mg/kg	<0.010	0.010				7686963
Tetrachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Pentachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Hexachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Heptachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Octachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Nonachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Decachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Total PCB	mg/kg	<0.010	0.010				7686963
TOTAL TOXIC EQUIVALENCY	mg/kg				0.00030		
<b>Surrogate Recovery (%)</b>							
2,3,3',4,6-Pentachlorobiphenyl	%	80					7686963
2',3,5-Trichlorobiphenyl	%	83					7686963
22'33'44'566'-Nonachlorobiphenyl	%	82					7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



BUREAU  
VERITAS

Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		RBV051					
Sampling Date		2021/09/01					
COC Number		D 57492		TOXIC EQUIVALENCY		# of	
	UNITS	G3	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
<b>PCBs</b>							
TriCB-(17)+(18)	mg/kg	<0.010	0.010				7686963
TriCB-(28)+(31)	mg/kg	<0.010	0.010				7686963
2'34'-TriCB-(33)	mg/kg	<0.010	0.010				7686963
22'55'-TetraCB-(52)	mg/kg	<0.010	0.010				7686963
22'45'-TetraCB-(49)	mg/kg	<0.010	0.010				7686963
22'35'-TetraCB-(44)	mg/kg	<0.010	0.010				7686963
244'5'-TetraCB-(74)	mg/kg	<0.010	0.010				7686963
23'4'5'-TetraCB-(70)	mg/kg	<0.010	0.010				7686963
22'35'6'-PentaCB-(95)	mg/kg	<0.010	0.010				7686963
22'455'-PentaCB-(101)	mg/kg	<0.010	0.010				7686963
22'44'5'-PentaCB-(99)	mg/kg	<0.010	0.010				7686963
22'345'-PentaCB-(87)	mg/kg	<0.010	0.010				7686963
233'4'6'-PentaCB-(110)	mg/kg	<0.010	0.010				7686963
22'33'4'-PentaCB-(82)	mg/kg	<0.010	0.010				7686963
22'355'6'-HexaCB-(151)	mg/kg	<0.010	0.010				7686963
22'34'5'6'-HexaCB-(149)	mg/kg	<0.010	0.010				7686963
23'44'5'-PentaCB-(118)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'44'55'-HexaCB-(153)	mg/kg	<0.010	0.010				7686963
22'33'46'-HexaCB-(132)	mg/kg	<0.010	0.010				7686963
233'44'-PentaCB-(105)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
HexaCB-(138)+(158)	mg/kg	<0.010	0.010				7686963
22'34'55'6'-HeptaCB-(187)	mg/kg	<0.010	0.010				7686963
22'344'5'6'-HeptaCB-(183)	mg/kg	<0.010	0.010				7686963
22'33'44'-HexaCB-(128)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-HeptaCB-(177)	mg/kg	<0.010	0.010				7686963
22'33'44'6'-HeptaCB-(171)	mg/kg	<0.010	0.010				7686963
233'44'5'-HexaCB-(156)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'344'55'-HeptaCB-(180)	mg/kg	<0.010	0.010				7686963
233'44'5'6'-HeptaCB-(191)	mg/kg	<0.010	0.010				7686963
33'44'55'-HexaCB-(169)	mg/kg	<0.010	0.010	0.030	0.00030		7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



BUREAU  
VERITAS

Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

<b>Bureau Veritas ID</b>		RBV051					
<b>Sampling Date</b>		2021/09/01					
<b>COC Number</b>		D 57492		<b>TOXIC EQUIVALENCY</b>		# of	
	<b>UNITS</b>	<b>G3</b>	<b>RDL</b>	<b>TEF (2005 WHO)</b>	<b>TEQ(DL)</b>	<b>Isomers</b>	<b>QC Batch</b>
22'33'44'5-HeptaCB-(170)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-OctaCB-(199)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-NonaCB-(208)	mg/kg	<0.010	0.010				7686963
22'33'44'56-OctaCB-(195)	mg/kg	<0.010	0.010				7686963
22'33'44'55'5'-OctaCB-(194)	mg/kg	<0.010	0.010				7686963
233'44'55'5'6-OctaCB-(205)	mg/kg	<0.010	0.010				7686963
22'33'44'55'5'6-NonaCB-(206)	mg/kg	<0.010	0.010				7686963
DecaCB-(209)	mg/kg	<0.010	0.010				7686963
Trichlorobiphenyls	mg/kg	<0.010	0.010				7686963
Tetrachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Pentachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Hexachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Heptachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Octachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Nonachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Decachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Total PCB	mg/kg	<0.010	0.010				7686963
TOTAL TOXIC EQUIVALENCY	mg/kg				0.00030		
<b>Surrogate Recovery (%)</b>							
2,3,3',4,6-Pentachlorobiphenyl	%	82					7686963
2',3,5-Trichlorobiphenyl	%	82					7686963
22'33'44'566'-Nonachlorobiphenyl	%	89					7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							





BUREAU  
VERITAS

Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		RBV052					
Sampling Date		2021/09/16					
COC Number		D 57492		TOXIC EQUIVALENCY		# of	
	UNITS	C2-A	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
<b>PCBs</b>							
TriCB-(17)+(18)	mg/kg	<0.010	0.010				7686963
TriCB-(28)+(31)	mg/kg	<0.010	0.010				7686963
2'34'-TriCB-(33)	mg/kg	<0.010	0.010				7686963
22'55'-TetraCB-(52)	mg/kg	<0.010	0.010				7686963
22'45'-TetraCB-(49)	mg/kg	<0.010	0.010				7686963
22'35'-TetraCB-(44)	mg/kg	<0.010	0.010				7686963
244'5'-TetraCB-(74)	mg/kg	<0.010	0.010				7686963
23'4'5'-TetraCB-(70)	mg/kg	<0.010	0.010				7686963
22'35'6'-PentaCB-(95)	mg/kg	<0.010	0.010				7686963
22'455'-PentaCB-(101)	mg/kg	<0.010	0.010				7686963
22'44'5'-PentaCB-(99)	mg/kg	<0.010	0.010				7686963
22'345'-PentaCB-(87)	mg/kg	<0.010	0.010				7686963
233'4'6'-PentaCB-(110)	mg/kg	<0.010	0.010				7686963
22'33'4'-PentaCB-(82)	mg/kg	<0.010	0.010				7686963
22'355'6'-HexaCB-(151)	mg/kg	<0.010	0.010				7686963
22'34'5'6'-HexaCB-(149)	mg/kg	<0.010	0.010				7686963
23'44'5'-PentaCB-(118)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'44'55'-HexaCB-(153)	mg/kg	<0.010	0.010				7686963
22'33'46'-HexaCB-(132)	mg/kg	<0.010	0.010				7686963
233'44'-PentaCB-(105)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
HexaCB-(138)+(158)	mg/kg	<0.010	0.010				7686963
22'34'55'6'-HeptaCB-(187)	mg/kg	<0.010	0.010				7686963
22'344'5'6'-HeptaCB-(183)	mg/kg	<0.010	0.010				7686963
22'33'44'-HexaCB-(128)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-HeptaCB-(177)	mg/kg	<0.010	0.010				7686963
22'33'44'6'-HeptaCB-(171)	mg/kg	<0.010	0.010				7686963
233'44'5'-HexaCB-(156)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'344'55'-HeptaCB-(180)	mg/kg	<0.010	0.010				7686963
233'44'5'6'-HeptaCB-(191)	mg/kg	<0.010	0.010				7686963
33'44'55'-HexaCB-(169)	mg/kg	<0.010	0.010	0.030	0.00030		7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



BUREAU  
VERITAS

Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

### RESULTS OF ANALYSES OF SEDIMENT

<b>Bureau Veritas ID</b>		RBV052					
<b>Sampling Date</b>		2021/09/16					
<b>COC Number</b>		D 57492		<b>TOXIC EQUIVALENCY</b>		# of	
	<b>UNITS</b>	<b>C2-A</b>	<b>RDL</b>	<b>TEF (2005 WHO)</b>	<b>TEQ(DL)</b>	<b>Isomers</b>	<b>QC Batch</b>
22'33'44'5-HeptaCB-(170)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-OctaCB-(199)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-NonaCB-(208)	mg/kg	<0.010	0.010				7686963
22'33'44'56-OctaCB-(195)	mg/kg	<0.010	0.010				7686963
22'33'44'55'-OctaCB-(194)	mg/kg	<0.010	0.010				7686963
233'44'55'6-OctaCB-(205)	mg/kg	<0.010	0.010				7686963
22'33'44'55'6-NonaCB-(206)	mg/kg	<0.010	0.010				7686963
DecaCB-(209)	mg/kg	<0.010	0.010				7686963
Trichlorobiphenyls	mg/kg	<0.010	0.010				7686963
Tetrachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Pentachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Hexachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Heptachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Octachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Nonachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Decachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Total PCB	mg/kg	<0.010	0.010				7686963
TOTAL TOXIC EQUIVALENCY	mg/kg				0.00030		
<b>Surrogate Recovery (%)</b>							
2,3,3',4,6-Pentachlorobiphenyl	%	80					7686963
2',3,5-Trichlorobiphenyl	%	84					7686963
22'33'44'566'-Nonachlorobiphenyl	%	83					7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



BUREAU  
VERITAS

Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		RBV053					
Sampling Date		2021/09/15					
COC Number		D 57492		TOXIC EQUIVALENCY		# of	
	UNITS	C1-A	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
<b>PCBs</b>							
TriCB-(17)+(18)	mg/kg	<0.010	0.010				7686963
TriCB-(28)+(31)	mg/kg	<0.010	0.010				7686963
2'34'-TriCB-(33)	mg/kg	<0.010	0.010				7686963
22'55'-TetraCB-(52)	mg/kg	<0.010	0.010				7686963
22'45'-TetraCB-(49)	mg/kg	<0.010	0.010				7686963
22'35'-TetraCB-(44)	mg/kg	<0.010	0.010				7686963
244'5'-TetraCB-(74)	mg/kg	<0.010	0.010				7686963
23'4'5'-TetraCB-(70)	mg/kg	<0.010	0.010				7686963
22'35'6'-PentaCB-(95)	mg/kg	<0.010	0.010				7686963
22'455'-PentaCB-(101)	mg/kg	<0.010	0.010				7686963
22'44'5'-PentaCB-(99)	mg/kg	<0.010	0.010				7686963
22'345'-PentaCB-(87)	mg/kg	<0.010	0.010				7686963
233'4'6'-PentaCB-(110)	mg/kg	<0.010	0.010				7686963
22'33'4'-PentaCB-(82)	mg/kg	<0.010	0.010				7686963
22'355'6'-HexaCB-(151)	mg/kg	<0.010	0.010				7686963
22'34'5'6'-HexaCB-(149)	mg/kg	<0.010	0.010				7686963
23'44'5'-PentaCB-(118)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'44'55'-HexaCB-(153)	mg/kg	<0.010	0.010				7686963
22'33'46'-HexaCB-(132)	mg/kg	<0.010	0.010				7686963
233'44'-PentaCB-(105)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
HexaCB-(138)+(158)	mg/kg	<0.010	0.010				7686963
22'34'55'6'-HeptaCB-(187)	mg/kg	<0.010	0.010				7686963
22'344'5'6'-HeptaCB-(183)	mg/kg	<0.010	0.010				7686963
22'33'44'-HexaCB-(128)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-HeptaCB-(177)	mg/kg	<0.010	0.010				7686963
22'33'44'6'-HeptaCB-(171)	mg/kg	<0.010	0.010				7686963
233'44'5'-HexaCB-(156)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'344'55'-HeptaCB-(180)	mg/kg	<0.010	0.010				7686963
233'44'5'6'-HeptaCB-(191)	mg/kg	<0.010	0.010				7686963
33'44'55'-HexaCB-(169)	mg/kg	<0.010	0.010	0.030	0.00030		7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



BUREAU  
VERITAS

Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

### RESULTS OF ANALYSES OF SEDIMENT

<b>Bureau Veritas ID</b>		RBV053					
<b>Sampling Date</b>		2021/09/15					
<b>COC Number</b>		D 57492		<b>TOXIC EQUIVALENCY</b>		# of	
	<b>UNITS</b>	<b>C1-A</b>	<b>RDL</b>	<b>TEF (2005 WHO)</b>	<b>TEQ(DL)</b>	<b>Isomers</b>	<b>QC Batch</b>
22'33'44'5-HeptaCB-(170)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-OctaCB-(199)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-NonaCB-(208)	mg/kg	<0.010	0.010				7686963
22'33'44'56-OctaCB-(195)	mg/kg	<0.010	0.010				7686963
22'33'44'55'-OctaCB-(194)	mg/kg	<0.010	0.010				7686963
233'44'55'6-OctaCB-(205)	mg/kg	<0.010	0.010				7686963
22'33'44'55'6-NonaCB-(206)	mg/kg	<0.010	0.010				7686963
DecaCB-(209)	mg/kg	<0.010	0.010				7686963
Trichlorobiphenyls	mg/kg	<0.010	0.010				7686963
Tetrachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Pentachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Hexachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Heptachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Octachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Nonachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Decachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Total PCB	mg/kg	<0.010	0.010				7686963
TOTAL TOXIC EQUIVALENCY	mg/kg				0.00030		
<b>Surrogate Recovery (%)</b>							
2,3,3',4,6-Pentachlorobiphenyl	%	78					7686963
2',3,5-Trichlorobiphenyl	%	84					7686963
22'33'44'566'-Nonachlorobiphenyl	%	82					7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							





BUREAU  
VERITAS

Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		RBV054					
Sampling Date		2021/09/16					
COC Number		D 57492		TOXIC EQUIVALENCY		# of	
	UNITS	C2-B	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
<b>PCBs</b>							
TriCB-(17)+(18)	mg/kg	<0.010	0.010				7686963
TriCB-(28)+(31)	mg/kg	<0.010	0.010				7686963
2'34-TriCB-(33)	mg/kg	<0.010	0.010				7686963
22'55'-TetraCB-(52)	mg/kg	<0.010	0.010				7686963
22'45'-TetraCB-(49)	mg/kg	<0.010	0.010				7686963
22'35'-TetraCB-(44)	mg/kg	<0.010	0.010				7686963
244'5-TetraCB-(74)	mg/kg	<0.010	0.010				7686963
23'4'5-TetraCB-(70)	mg/kg	<0.010	0.010				7686963
22'35'6-PentaCB-(95)	mg/kg	<0.010	0.010				7686963
22'455'-PentaCB-(101)	mg/kg	<0.010	0.010				7686963
22'44'5-PentaCB-(99)	mg/kg	<0.010	0.010				7686963
22'345'-PentaCB-(87)	mg/kg	<0.010	0.010				7686963
233'4'6-PentaCB-(110)	mg/kg	<0.010	0.010				7686963
22'33'4-PentaCB-(82)	mg/kg	<0.010	0.010				7686963
22'355'6-HexaCB-(151)	mg/kg	<0.010	0.010				7686963
22'34'5'6-HexaCB-(149)	mg/kg	<0.010	0.010				7686963
23'44'5-PentaCB-(118)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'44'55'-HexaCB-(153)	mg/kg	<0.010	0.010				7686963
22'33'46'-HexaCB-(132)	mg/kg	<0.010	0.010				7686963
233'44'-PentaCB-(105)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
HexaCB-(138)+(158)	mg/kg	<0.010	0.010				7686963
22'34'55'6-HeptaCB-(187)	mg/kg	<0.010	0.010				7686963
22'344'5'6-HeptaCB-(183)	mg/kg	<0.010	0.010				7686963
22'33'44'-HexaCB-(128)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-HeptaCB-(177)	mg/kg	<0.010	0.010				7686963
22'33'44'6-HeptaCB-(171)	mg/kg	<0.010	0.010				7686963
233'44'5-HexaCB-(156)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'344'55'-HeptaCB-(180)	mg/kg	<0.010	0.010				7686963
233'44'5'6-HeptaCB-(191)	mg/kg	<0.010	0.010				7686963
33'44'55'-HexaCB-(169)	mg/kg	<0.010	0.010	0.030	0.00030		7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



BUREAU  
VERITAS

Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

### RESULTS OF ANALYSES OF SEDIMENT

<b>Bureau Veritas ID</b>		RBV054					
<b>Sampling Date</b>		2021/09/16					
<b>COC Number</b>		D 57492		<b>TOXIC EQUIVALENCY</b>		# of	
	<b>UNITS</b>	<b>C2-B</b>	<b>RDL</b>	<b>TEF (2005 WHO)</b>	<b>TEQ(DL)</b>	<b>Isomers</b>	<b>QC Batch</b>
22'33'44'5-HeptaCB-(170)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-OctaCB-(199)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-NonaCB-(208)	mg/kg	<0.010	0.010				7686963
22'33'44'56-OctaCB-(195)	mg/kg	<0.010	0.010				7686963
22'33'44'55'-OctaCB-(194)	mg/kg	<0.010	0.010				7686963
233'44'55'6-OctaCB-(205)	mg/kg	<0.010	0.010				7686963
22'33'44'55'6-NonaCB-(206)	mg/kg	<0.010	0.010				7686963
DecaCB-(209)	mg/kg	<0.010	0.010				7686963
Trichlorobiphenyls	mg/kg	<0.010	0.010				7686963
Tetrachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Pentachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Hexachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Heptachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Octachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Nonachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Decachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Total PCB	mg/kg	<0.010	0.010				7686963
TOTAL TOXIC EQUIVALENCY	mg/kg				0.00030		
<b>Surrogate Recovery (%)</b>							
2,3,3',4,6-Pentachlorobiphenyl	%	81					7686963
2',3,5-Trichlorobiphenyl	%	85					7686963
22'33'44'566'-Nonachlorobiphenyl	%	83					7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



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VERITAS

Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		RBV055					
Sampling Date		2021/09/16					
COC Number		D 57492		TOXIC EQUIVALENCY		# of	
	UNITS	C2-C	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
<b>PCBs</b>							
TriCB-(17)+(18)	mg/kg	<0.010	0.010				7686963
TriCB-(28)+(31)	mg/kg	<0.010	0.010				7686963
2'34'-TriCB-(33)	mg/kg	<0.010	0.010				7686963
22'55'-TetraCB-(52)	mg/kg	<0.010	0.010				7686963
22'45'-TetraCB-(49)	mg/kg	<0.010	0.010				7686963
22'35'-TetraCB-(44)	mg/kg	<0.010	0.010				7686963
244'5'-TetraCB-(74)	mg/kg	<0.010	0.010				7686963
23'4'5'-TetraCB-(70)	mg/kg	<0.010	0.010				7686963
22'35'6'-PentaCB-(95)	mg/kg	<0.010	0.010				7686963
22'455'-PentaCB-(101)	mg/kg	<0.010	0.010				7686963
22'44'5'-PentaCB-(99)	mg/kg	<0.010	0.010				7686963
22'345'-PentaCB-(87)	mg/kg	<0.010	0.010				7686963
233'4'6'-PentaCB-(110)	mg/kg	<0.010	0.010				7686963
22'33'4'-PentaCB-(82)	mg/kg	<0.010	0.010				7686963
22'355'6'-HexaCB-(151)	mg/kg	<0.010	0.010				7686963
22'34'5'6'-HexaCB-(149)	mg/kg	<0.010	0.010				7686963
23'44'5'-PentaCB-(118)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'44'55'-HexaCB-(153)	mg/kg	<0.010	0.010				7686963
22'33'46'-HexaCB-(132)	mg/kg	<0.010	0.010				7686963
233'44'-PentaCB-(105)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
HexaCB-(138)+(158)	mg/kg	<0.010	0.010				7686963
22'34'55'6'-HeptaCB-(187)	mg/kg	<0.010	0.010				7686963
22'344'5'6'-HeptaCB-(183)	mg/kg	<0.010	0.010				7686963
22'33'44'-HexaCB-(128)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-HeptaCB-(177)	mg/kg	<0.010	0.010				7686963
22'33'44'6'-HeptaCB-(171)	mg/kg	<0.010	0.010				7686963
233'44'5'-HexaCB-(156)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'344'55'-HeptaCB-(180)	mg/kg	<0.010	0.010				7686963
233'44'5'6'-HeptaCB-(191)	mg/kg	<0.010	0.010				7686963
33'44'55'-HexaCB-(169)	mg/kg	<0.010	0.010	0.030	0.00030		7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



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Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

### RESULTS OF ANALYSES OF SEDIMENT

<b>Bureau Veritas ID</b>		RBV055					
<b>Sampling Date</b>		2021/09/16					
<b>COC Number</b>		D 57492		<b>TOXIC EQUIVALENCY</b>		# of	
	<b>UNITS</b>	<b>C2-C</b>	<b>RDL</b>	<b>TEF (2005 WHO)</b>	<b>TEQ(DL)</b>	<b>Isomers</b>	<b>QC Batch</b>
22'33'44'5-HeptaCB-(170)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-OctaCB-(199)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-NonaCB-(208)	mg/kg	<0.010	0.010				7686963
22'33'44'56-OctaCB-(195)	mg/kg	<0.010	0.010				7686963
22'33'44'55'-OctaCB-(194)	mg/kg	<0.010	0.010				7686963
233'44'55'6-OctaCB-(205)	mg/kg	<0.010	0.010				7686963
22'33'44'55'6-NonaCB-(206)	mg/kg	<0.010	0.010				7686963
DecaCB-(209)	mg/kg	<0.010	0.010				7686963
Trichlorobiphenyls	mg/kg	<0.010	0.010				7686963
Tetrachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Pentachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Hexachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Heptachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Octachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Nonachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Decachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Total PCB	mg/kg	<0.010	0.010				7686963
TOTAL TOXIC EQUIVALENCY	mg/kg				0.00030		
<b>Surrogate Recovery (%)</b>							
2,3,3',4,6-Pentachlorobiphenyl	%	80					7686963
2',3,5-Trichlorobiphenyl	%	83					7686963
22'33'44'566'-Nonachlorobiphenyl	%	82					7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



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VERITAS

Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		RBV056					
Sampling Date		2021/09/19					
COC Number		D 57492		TOXIC EQUIVALENCY		# of	
	UNITS	C3-A	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
<b>PCBs</b>							
TriCB-(17)+(18)	mg/kg	<0.010	0.010				7686963
TriCB-(28)+(31)	mg/kg	<0.010	0.010				7686963
2'34'-TriCB-(33)	mg/kg	<0.010	0.010				7686963
22'55'-TetraCB-(52)	mg/kg	<0.010	0.010				7686963
22'45'-TetraCB-(49)	mg/kg	<0.010	0.010				7686963
22'35'-TetraCB-(44)	mg/kg	<0.010	0.010				7686963
244'5'-TetraCB-(74)	mg/kg	<0.010	0.010				7686963
23'4'5'-TetraCB-(70)	mg/kg	<0.010	0.010				7686963
22'35'6'-PentaCB-(95)	mg/kg	<0.010	0.010				7686963
22'455'-PentaCB-(101)	mg/kg	<0.010	0.010				7686963
22'44'5'-PentaCB-(99)	mg/kg	<0.010	0.010				7686963
22'345'-PentaCB-(87)	mg/kg	<0.010	0.010				7686963
233'4'6'-PentaCB-(110)	mg/kg	<0.010	0.010				7686963
22'33'4'-PentaCB-(82)	mg/kg	<0.010	0.010				7686963
22'355'6'-HexaCB-(151)	mg/kg	<0.010	0.010				7686963
22'34'5'6'-HexaCB-(149)	mg/kg	<0.010	0.010				7686963
23'44'5'-PentaCB-(118)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'44'55'-HexaCB-(153)	mg/kg	<0.010	0.010				7686963
22'33'46'-HexaCB-(132)	mg/kg	<0.010	0.010				7686963
233'44'-PentaCB-(105)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
HexaCB-(138)+(158)	mg/kg	<0.010	0.010				7686963
22'34'55'6'-HeptaCB-(187)	mg/kg	<0.010	0.010				7686963
22'344'5'6'-HeptaCB-(183)	mg/kg	<0.010	0.010				7686963
22'33'44'-HexaCB-(128)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-HeptaCB-(177)	mg/kg	<0.010	0.010				7686963
22'33'44'6'-HeptaCB-(171)	mg/kg	<0.010	0.010				7686963
233'44'5'-HexaCB-(156)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'344'55'-HeptaCB-(180)	mg/kg	<0.010	0.010				7686963
233'44'5'6'-HeptaCB-(191)	mg/kg	<0.010	0.010				7686963
33'44'55'-HexaCB-(169)	mg/kg	<0.010	0.010	0.030	0.00030		7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							





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Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

<b>Bureau Veritas ID</b>		RBV056					
<b>Sampling Date</b>		2021/09/19					
<b>COC Number</b>		D 57492		<b>TOXIC EQUIVALENCY</b>		# of	
	<b>UNITS</b>	<b>C3-A</b>	<b>RDL</b>	<b>TEF (2005 WHO)</b>	<b>TEQ(DL)</b>	<b>Isomers</b>	<b>QC Batch</b>
22'33'44'5-HeptaCB-(170)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-OctaCB-(199)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-NonaCB-(208)	mg/kg	<0.010	0.010				7686963
22'33'44'56-OctaCB-(195)	mg/kg	<0.010	0.010				7686963
22'33'44'55'-OctaCB-(194)	mg/kg	<0.010	0.010				7686963
233'44'55'6-OctaCB-(205)	mg/kg	<0.010	0.010				7686963
22'33'44'55'6-NonaCB-(206)	mg/kg	<0.010	0.010				7686963
DecaCB-(209)	mg/kg	<0.010	0.010				7686963
Trichlorobiphenyls	mg/kg	<0.010	0.010				7686963
Tetrachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Pentachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Hexachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Heptachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Octachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Nonachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Decachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Total PCB	mg/kg	<0.010	0.010				7686963
TOTAL TOXIC EQUIVALENCY	mg/kg				0.00030		
<b>Surrogate Recovery (%)</b>							
2,3,3',4,6-Pentachlorobiphenyl	%	80					7686963
2',3,5-Trichlorobiphenyl	%	84					7686963
22'33'44'566'-Nonachlorobiphenyl	%	84					7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



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Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		RBV057					
Sampling Date		2021/09/19					
COC Number		D 57492		TOXIC EQUIVALENCY		# of	
	UNITS	C3-B	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
<b>PCBs</b>							
TriCB-(17)+(18)	mg/kg	<0.010	0.010				7686963
TriCB-(28)+(31)	mg/kg	<0.010	0.010				7686963
2'34'-TriCB-(33)	mg/kg	<0.010	0.010				7686963
22'55'-TetraCB-(52)	mg/kg	<0.010	0.010				7686963
22'45'-TetraCB-(49)	mg/kg	<0.010	0.010				7686963
22'35'-TetraCB-(44)	mg/kg	<0.010	0.010				7686963
244'5'-TetraCB-(74)	mg/kg	<0.010	0.010				7686963
23'4'5'-TetraCB-(70)	mg/kg	<0.010	0.010				7686963
22'35'6'-PentaCB-(95)	mg/kg	<0.010	0.010				7686963
22'455'-PentaCB-(101)	mg/kg	<0.010	0.010				7686963
22'44'5'-PentaCB-(99)	mg/kg	<0.010	0.010				7686963
22'345'-PentaCB-(87)	mg/kg	<0.010	0.010				7686963
233'4'6'-PentaCB-(110)	mg/kg	<0.010	0.010				7686963
22'33'4'-PentaCB-(82)	mg/kg	<0.010	0.010				7686963
22'355'6'-HexaCB-(151)	mg/kg	<0.010	0.010				7686963
22'34'5'6'-HexaCB-(149)	mg/kg	<0.010	0.010				7686963
23'44'5'-PentaCB-(118)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'44'55'-HexaCB-(153)	mg/kg	<0.010	0.010				7686963
22'33'46'-HexaCB-(132)	mg/kg	<0.010	0.010				7686963
233'44'-PentaCB-(105)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
HexaCB-(138)+(158)	mg/kg	<0.010	0.010				7686963
22'34'55'6'-HeptaCB-(187)	mg/kg	<0.010	0.010				7686963
22'344'5'6'-HeptaCB-(183)	mg/kg	<0.010	0.010				7686963
22'33'44'-HexaCB-(128)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-HeptaCB-(177)	mg/kg	<0.010	0.010				7686963
22'33'44'6'-HeptaCB-(171)	mg/kg	<0.010	0.010				7686963
233'44'5'-HexaCB-(156)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'344'55'-HeptaCB-(180)	mg/kg	<0.010	0.010				7686963
233'44'5'6'-HeptaCB-(191)	mg/kg	<0.010	0.010				7686963
33'44'55'-HexaCB-(169)	mg/kg	<0.010	0.010	0.030	0.00030		7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



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Bureau Veritas Job #: C1V7357

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Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

### RESULTS OF ANALYSES OF SEDIMENT

<b>Bureau Veritas ID</b>		RBV057					
<b>Sampling Date</b>		2021/09/19					
<b>COC Number</b>		D 57492		<b>TOXIC EQUIVALENCY</b>		# of	
	<b>UNITS</b>	<b>C3-B</b>	<b>RDL</b>	<b>TEF (2005 WHO)</b>	<b>TEQ(DL)</b>	<b>Isomers</b>	<b>QC Batch</b>
22'33'44'5-HeptaCB-(170)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-OctaCB-(199)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-NonaCB-(208)	mg/kg	<0.010	0.010				7686963
22'33'44'56-OctaCB-(195)	mg/kg	<0.010	0.010				7686963
22'33'44'55'-OctaCB-(194)	mg/kg	<0.010	0.010				7686963
233'44'55'6-OctaCB-(205)	mg/kg	<0.010	0.010				7686963
22'33'44'55'6-NonaCB-(206)	mg/kg	<0.010	0.010				7686963
DecaCB-(209)	mg/kg	<0.010	0.010				7686963
Trichlorobiphenyls	mg/kg	<0.010	0.010				7686963
Tetrachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Pentachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Hexachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Heptachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Octachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Nonachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Decachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Total PCB	mg/kg	<0.010	0.010				7686963
TOTAL TOXIC EQUIVALENCY	mg/kg				0.00030		
<b>Surrogate Recovery (%)</b>							
2,3,3',4,6-Pentachlorobiphenyl	%	81					7686963
2',3,5-Trichlorobiphenyl	%	82					7686963
22'33'44'566'-Nonachlorobiphenyl	%	83					7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



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VERITAS

Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		RBV058					
Sampling Date		2021/09/17					
COC Number		D 57492		TOXIC EQUIVALENCY		# of	
	UNITS	C4-A	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
<b>PCBs</b>							
TriCB-(17)+(18)	mg/kg	<0.010	0.010				7686963
TriCB-(28)+(31)	mg/kg	<0.010	0.010				7686963
2'34'-TriCB-(33)	mg/kg	<0.010	0.010				7686963
22'55'-TetraCB-(52)	mg/kg	<0.010	0.010				7686963
22'45'-TetraCB-(49)	mg/kg	<0.010	0.010				7686963
22'35'-TetraCB-(44)	mg/kg	<0.010	0.010				7686963
244'5'-TetraCB-(74)	mg/kg	<0.010	0.010				7686963
23'4'5'-TetraCB-(70)	mg/kg	<0.010	0.010				7686963
22'35'6'-PentaCB-(95)	mg/kg	<0.010	0.010				7686963
22'455'-PentaCB-(101)	mg/kg	<0.010	0.010				7686963
22'44'5'-PentaCB-(99)	mg/kg	<0.010	0.010				7686963
22'345'-PentaCB-(87)	mg/kg	<0.010	0.010				7686963
233'4'6'-PentaCB-(110)	mg/kg	<0.010	0.010				7686963
22'33'4'-PentaCB-(82)	mg/kg	<0.010	0.010				7686963
22'355'6'-HexaCB-(151)	mg/kg	<0.010	0.010				7686963
22'34'5'6'-HexaCB-(149)	mg/kg	<0.010	0.010				7686963
23'44'5'-PentaCB-(118)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'44'55'-HexaCB-(153)	mg/kg	<0.010	0.010				7686963
22'33'46'-HexaCB-(132)	mg/kg	<0.010	0.010				7686963
233'44'-PentaCB-(105)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
HexaCB-(138)+(158)	mg/kg	<0.010	0.010				7686963
22'34'55'6'-HeptaCB-(187)	mg/kg	<0.010	0.010				7686963
22'344'5'6'-HeptaCB-(183)	mg/kg	<0.010	0.010				7686963
22'33'44'-HexaCB-(128)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-HeptaCB-(177)	mg/kg	<0.010	0.010				7686963
22'33'44'6'-HeptaCB-(171)	mg/kg	<0.010	0.010				7686963
233'44'5'-HexaCB-(156)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'344'55'-HeptaCB-(180)	mg/kg	<0.010	0.010				7686963
233'44'5'6'-HeptaCB-(191)	mg/kg	<0.010	0.010				7686963
33'44'55'-HexaCB-(169)	mg/kg	<0.010	0.010	0.030	0.00030		7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



BUREAU  
VERITAS

Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

<b>Bureau Veritas ID</b>		RBV058					
<b>Sampling Date</b>		2021/09/17					
<b>COC Number</b>		D 57492		<b>TOXIC EQUIVALENCY</b>		# of	
	<b>UNITS</b>	<b>C4-A</b>	<b>RDL</b>	<b>TEF (2005 WHO)</b>	<b>TEQ(DL)</b>	<b>Isomers</b>	<b>QC Batch</b>
22'33'44'5-HeptaCB-(170)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-OctaCB-(199)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-NonaCB-(208)	mg/kg	<0.010	0.010				7686963
22'33'44'56-OctaCB-(195)	mg/kg	<0.010	0.010				7686963
22'33'44'55'-OctaCB-(194)	mg/kg	<0.010	0.010				7686963
233'44'55'6-OctaCB-(205)	mg/kg	<0.010	0.010				7686963
22'33'44'55'6-NonaCB-(206)	mg/kg	<0.010	0.010				7686963
DecaCB-(209)	mg/kg	<0.010	0.010				7686963
Trichlorobiphenyls	mg/kg	<0.010	0.010				7686963
Tetrachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Pentachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Hexachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Heptachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Octachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Nonachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Decachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Total PCB	mg/kg	<0.010	0.010				7686963
TOTAL TOXIC EQUIVALENCY	mg/kg				0.00030		
<b>Surrogate Recovery (%)</b>							
2,3,3',4,6-Pentachlorobiphenyl	%	77					7686963
2',3,5-Trichlorobiphenyl	%	83					7686963
22'33'44'566'-Nonachlorobiphenyl	%	84					7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							





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Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		RBV235					
Sampling Date		2021/09/17					
COC Number		D 57491		TOXIC EQUIVALENCY		# of	
	UNITS	C5-A	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
<b>PCBs</b>							
TriCB-(17)+(18)	mg/kg	<0.010	0.010				7686963
TriCB-(28)+(31)	mg/kg	<0.010	0.010				7686963
2'34'-TriCB-(33)	mg/kg	<0.010	0.010				7686963
22'55'-TetraCB-(52)	mg/kg	<0.010	0.010				7686963
22'45'-TetraCB-(49)	mg/kg	<0.010	0.010				7686963
22'35'-TetraCB-(44)	mg/kg	<0.010	0.010				7686963
244'5'-TetraCB-(74)	mg/kg	<0.010	0.010				7686963
23'4'5'-TetraCB-(70)	mg/kg	<0.010	0.010				7686963
22'35'6'-PentaCB-(95)	mg/kg	<0.010	0.010				7686963
22'455'-PentaCB-(101)	mg/kg	<0.010	0.010				7686963
22'44'5'-PentaCB-(99)	mg/kg	<0.010	0.010				7686963
22'345'-PentaCB-(87)	mg/kg	<0.010	0.010				7686963
233'4'6'-PentaCB-(110)	mg/kg	<0.010	0.010				7686963
22'33'4'-PentaCB-(82)	mg/kg	<0.010	0.010				7686963
22'355'6'-HexaCB-(151)	mg/kg	<0.010	0.010				7686963
22'34'5'6'-HexaCB-(149)	mg/kg	<0.010	0.010				7686963
23'44'5'-PentaCB-(118)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'44'55'-HexaCB-(153)	mg/kg	<0.010	0.010				7686963
22'33'46'-HexaCB-(132)	mg/kg	<0.010	0.010				7686963
233'44'-PentaCB-(105)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
HexaCB-(138)+(158)	mg/kg	<0.010	0.010				7686963
22'34'55'6'-HeptaCB-(187)	mg/kg	<0.010	0.010				7686963
22'344'5'6'-HeptaCB-(183)	mg/kg	<0.010	0.010				7686963
22'33'44'-HexaCB-(128)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-HeptaCB-(177)	mg/kg	<0.010	0.010				7686963
22'33'44'6'-HeptaCB-(171)	mg/kg	<0.010	0.010				7686963
233'44'5'-HexaCB-(156)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'344'55'-HeptaCB-(180)	mg/kg	<0.010	0.010				7686963
233'44'5'6'-HeptaCB-(191)	mg/kg	<0.010	0.010				7686963
33'44'55'-HexaCB-(169)	mg/kg	<0.010	0.010	0.030	0.00030		7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



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Sampler Initials: LB

### RESULTS OF ANALYSES OF SEDIMENT

<b>Bureau Veritas ID</b>		RBV235					
<b>Sampling Date</b>		2021/09/17					
<b>COC Number</b>		D 57491		<b>TOXIC EQUIVALENCY</b>		# of	
	<b>UNITS</b>	<b>C5-A</b>	<b>RDL</b>	<b>TEF (2005 WHO)</b>	<b>TEQ(DL)</b>	<b>Isomers</b>	<b>QC Batch</b>
22'33'44'5-HeptaCB-(170)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-OctaCB-(199)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-NonaCB-(208)	mg/kg	<0.010	0.010				7686963
22'33'44'56-OctaCB-(195)	mg/kg	<0.010	0.010				7686963
22'33'44'55'-OctaCB-(194)	mg/kg	<0.010	0.010				7686963
233'44'55'6-OctaCB-(205)	mg/kg	<0.010	0.010				7686963
22'33'44'55'6-NonaCB-(206)	mg/kg	<0.010	0.010				7686963
DecaCB-(209)	mg/kg	<0.010	0.010				7686963
Trichlorobiphenyls	mg/kg	<0.010	0.010				7686963
Tetrachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Pentachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Hexachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Heptachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Octachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Nonachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Decachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Total PCB	mg/kg	<0.010	0.010				7686963
TOTAL TOXIC EQUIVALENCY	mg/kg				0.00030		
<b>Surrogate Recovery (%)</b>							
2,3,3',4,6-Pentachlorobiphenyl	%	79					7686963
2',3,5-Trichlorobiphenyl	%	83					7686963
22'33'44'566'-Nonachlorobiphenyl	%	83					7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



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Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		RBV236					
Sampling Date		2021/09/17					
COC Number		D 57491		TOXIC EQUIVALENCY		# of	
	UNITS	C5-B	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
<b>PCBs</b>							
TriCB-(17)+(18)	mg/kg	<0.010	0.010				7686963
TriCB-(28)+(31)	mg/kg	<0.010	0.010				7686963
2'34'-TriCB-(33)	mg/kg	<0.010	0.010				7686963
22'55'-TetraCB-(52)	mg/kg	<0.010	0.010				7686963
22'45'-TetraCB-(49)	mg/kg	<0.010	0.010				7686963
22'35'-TetraCB-(44)	mg/kg	<0.010	0.010				7686963
244'5'-TetraCB-(74)	mg/kg	<0.010	0.010				7686963
23'4'5'-TetraCB-(70)	mg/kg	<0.010	0.010				7686963
22'35'6'-PentaCB-(95)	mg/kg	<0.010	0.010				7686963
22'455'-PentaCB-(101)	mg/kg	<0.010	0.010				7686963
22'44'5'-PentaCB-(99)	mg/kg	<0.010	0.010				7686963
22'345'-PentaCB-(87)	mg/kg	<0.010	0.010				7686963
233'4'6'-PentaCB-(110)	mg/kg	<0.010	0.010				7686963
22'33'4'-PentaCB-(82)	mg/kg	<0.010	0.010				7686963
22'355'6'-HexaCB-(151)	mg/kg	<0.010	0.010				7686963
22'34'5'6'-HexaCB-(149)	mg/kg	<0.010	0.010				7686963
23'44'5'-PentaCB-(118)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'44'55'-HexaCB-(153)	mg/kg	<0.010	0.010				7686963
22'33'46'-HexaCB-(132)	mg/kg	<0.010	0.010				7686963
233'44'-PentaCB-(105)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
HexaCB-(138)+(158)	mg/kg	<0.010	0.010				7686963
22'34'55'6'-HeptaCB-(187)	mg/kg	<0.010	0.010				7686963
22'344'5'6'-HeptaCB-(183)	mg/kg	<0.010	0.010				7686963
22'33'44'-HexaCB-(128)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-HeptaCB-(177)	mg/kg	<0.010	0.010				7686963
22'33'44'6'-HeptaCB-(171)	mg/kg	<0.010	0.010				7686963
233'44'5'-HexaCB-(156)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'344'55'-HeptaCB-(180)	mg/kg	<0.010	0.010				7686963
233'44'5'6'-HeptaCB-(191)	mg/kg	<0.010	0.010				7686963
33'44'55'-HexaCB-(169)	mg/kg	<0.010	0.010	0.030	0.00030		7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



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### RESULTS OF ANALYSES OF SEDIMENT

<b>Bureau Veritas ID</b>		RBV236					
<b>Sampling Date</b>		2021/09/17					
<b>COC Number</b>		D 57491		<b>TOXIC EQUIVALENCY</b>		# of	
	<b>UNITS</b>	<b>C5-B</b>	<b>RDL</b>	<b>TEF (2005 WHO)</b>	<b>TEQ(DL)</b>	<b>Isomers</b>	<b>QC Batch</b>
22'33'44'5-HeptaCB-(170)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-OctaCB-(199)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-NonaCB-(208)	mg/kg	<0.010	0.010				7686963
22'33'44'56-OctaCB-(195)	mg/kg	<0.010	0.010				7686963
22'33'44'55'-OctaCB-(194)	mg/kg	<0.010	0.010				7686963
233'44'55'6-OctaCB-(205)	mg/kg	<0.010	0.010				7686963
22'33'44'55'6-NonaCB-(206)	mg/kg	<0.010	0.010				7686963
DecaCB-(209)	mg/kg	<0.010	0.010				7686963
Trichlorobiphenyls	mg/kg	<0.010	0.010				7686963
Tetrachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Pentachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Hexachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Heptachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Octachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Nonachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Decachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Total PCB	mg/kg	<0.010	0.010				7686963
TOTAL TOXIC EQUIVALENCY	mg/kg				0.00030		
<b>Surrogate Recovery (%)</b>							
2,3,3',4,6-Pentachlorobiphenyl	%	81					7686963
2',3,5-Trichlorobiphenyl	%	84					7686963
22'33'44'566'-Nonachlorobiphenyl	%	83					7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



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Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		RBV237					
Sampling Date		2021/09/17					
COC Number		D 57491		TOXIC EQUIVALENCY		# of	
	UNITS	C6-A	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
<b>PCBs</b>							
TriCB-(17)+(18)	mg/kg	<0.010	0.010				7686963
TriCB-(28)+(31)	mg/kg	<0.010	0.010				7686963
2'34'-TriCB-(33)	mg/kg	<0.010	0.010				7686963
22'55'-TetraCB-(52)	mg/kg	<0.010	0.010				7686963
22'45'-TetraCB-(49)	mg/kg	<0.010	0.010				7686963
22'35'-TetraCB-(44)	mg/kg	<0.010	0.010				7686963
244'5'-TetraCB-(74)	mg/kg	<0.010	0.010				7686963
23'4'5'-TetraCB-(70)	mg/kg	<0.010	0.010				7686963
22'35'6'-PentaCB-(95)	mg/kg	<0.010	0.010				7686963
22'455'-PentaCB-(101)	mg/kg	<0.010	0.010				7686963
22'44'5'-PentaCB-(99)	mg/kg	<0.010	0.010				7686963
22'345'-PentaCB-(87)	mg/kg	<0.010	0.010				7686963
233'4'6'-PentaCB-(110)	mg/kg	<0.010	0.010				7686963
22'33'4'-PentaCB-(82)	mg/kg	<0.010	0.010				7686963
22'355'6'-HexaCB-(151)	mg/kg	<0.010	0.010				7686963
22'34'5'6'-HexaCB-(149)	mg/kg	<0.010	0.010				7686963
23'44'5'-PentaCB-(118)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'44'55'-HexaCB-(153)	mg/kg	<0.010	0.010				7686963
22'33'46'-HexaCB-(132)	mg/kg	<0.010	0.010				7686963
233'44'-PentaCB-(105)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
HexaCB-(138)+(158)	mg/kg	<0.010	0.010				7686963
22'34'55'6'-HeptaCB-(187)	mg/kg	<0.010	0.010				7686963
22'344'5'6'-HeptaCB-(183)	mg/kg	<0.010	0.010				7686963
22'33'44'-HexaCB-(128)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-HeptaCB-(177)	mg/kg	<0.010	0.010				7686963
22'33'44'6'-HeptaCB-(171)	mg/kg	<0.010	0.010				7686963
233'44'5'-HexaCB-(156)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'344'55'-HeptaCB-(180)	mg/kg	<0.010	0.010				7686963
233'44'5'6'-HeptaCB-(191)	mg/kg	<0.010	0.010				7686963
33'44'55'-HexaCB-(169)	mg/kg	<0.010	0.010	0.030	0.00030		7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							





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Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

<b>Bureau Veritas ID</b>		RBV237					
<b>Sampling Date</b>		2021/09/17					
<b>COC Number</b>		D 57491		<b>TOXIC EQUIVALENCY</b>		# of	
	<b>UNITS</b>	<b>C6-A</b>	<b>RDL</b>	<b>TEF (2005 WHO)</b>	<b>TEQ(DL)</b>	<b>Isomers</b>	<b>QC Batch</b>
22'33'44'5-HeptaCB-(170)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-OctaCB-(199)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-NonaCB-(208)	mg/kg	<0.010	0.010				7686963
22'33'44'56-OctaCB-(195)	mg/kg	<0.010	0.010				7686963
22'33'44'55'-OctaCB-(194)	mg/kg	<0.010	0.010				7686963
233'44'55'6-OctaCB-(205)	mg/kg	<0.010	0.010				7686963
22'33'44'55'6-NonaCB-(206)	mg/kg	<0.010	0.010				7686963
DecaCB-(209)	mg/kg	<0.010	0.010				7686963
Trichlorobiphenyls	mg/kg	<0.010	0.010				7686963
Tetrachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Pentachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Hexachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Heptachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Octachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Nonachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Decachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Total PCB	mg/kg	<0.010	0.010				7686963
TOTAL TOXIC EQUIVALENCY	mg/kg				0.00030		
<b>Surrogate Recovery (%)</b>							
2,3,3',4,6-Pentachlorobiphenyl	%	81					7686963
2',3,5-Trichlorobiphenyl	%	83					7686963
22'33'44'566'-Nonachlorobiphenyl	%	82					7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



BUREAU  
VERITAS

Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		RBV238					
Sampling Date		2021/09/17					
COC Number		D 57491		TOXIC EQUIVALENCY		# of	
	UNITS	C6-B	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
<b>PCBs</b>							
TriCB-(17)+(18)	mg/kg	<0.010	0.010				7686963
TriCB-(28)+(31)	mg/kg	<0.010	0.010				7686963
2'34'-TriCB-(33)	mg/kg	<0.010	0.010				7686963
22'55'-TetraCB-(52)	mg/kg	<0.010	0.010				7686963
22'45'-TetraCB-(49)	mg/kg	<0.010	0.010				7686963
22'35'-TetraCB-(44)	mg/kg	<0.010	0.010				7686963
244'5'-TetraCB-(74)	mg/kg	<0.010	0.010				7686963
23'4'5'-TetraCB-(70)	mg/kg	<0.010	0.010				7686963
22'35'6'-PentaCB-(95)	mg/kg	<0.010	0.010				7686963
22'455'-PentaCB-(101)	mg/kg	<0.010	0.010				7686963
22'44'5'-PentaCB-(99)	mg/kg	<0.010	0.010				7686963
22'345'-PentaCB-(87)	mg/kg	<0.010	0.010				7686963
233'4'6'-PentaCB-(110)	mg/kg	<0.010	0.010				7686963
22'33'4'-PentaCB-(82)	mg/kg	<0.010	0.010				7686963
22'355'6'-HexaCB-(151)	mg/kg	<0.010	0.010				7686963
22'34'5'6'-HexaCB-(149)	mg/kg	<0.010	0.010				7686963
23'44'5'-PentaCB-(118)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'44'55'-HexaCB-(153)	mg/kg	<0.010	0.010				7686963
22'33'46'-HexaCB-(132)	mg/kg	<0.010	0.010				7686963
233'44'-PentaCB-(105)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
HexaCB-(138)+(158)	mg/kg	<0.010	0.010				7686963
22'34'55'6'-HeptaCB-(187)	mg/kg	<0.010	0.010				7686963
22'344'5'6'-HeptaCB-(183)	mg/kg	<0.010	0.010				7686963
22'33'44'-HexaCB-(128)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-HeptaCB-(177)	mg/kg	<0.010	0.010				7686963
22'33'44'6'-HeptaCB-(171)	mg/kg	<0.010	0.010				7686963
233'44'5'-HexaCB-(156)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'344'55'-HeptaCB-(180)	mg/kg	<0.010	0.010				7686963
233'44'5'6'-HeptaCB-(191)	mg/kg	<0.010	0.010				7686963
33'44'55'-HexaCB-(169)	mg/kg	<0.010	0.010	0.030	0.00030		7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



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Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

<b>Bureau Veritas ID</b>		RBV238					
<b>Sampling Date</b>		2021/09/17					
<b>COC Number</b>		D 57491		<b>TOXIC EQUIVALENCY</b>		# of	
	<b>UNITS</b>	<b>C6-B</b>	<b>RDL</b>	<b>TEF (2005 WHO)</b>	<b>TEQ(DL)</b>	<b>Isomers</b>	<b>QC Batch</b>
22'33'44'5-HeptaCB-(170)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-OctaCB-(199)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-NonaCB-(208)	mg/kg	<0.010	0.010				7686963
22'33'44'56-OctaCB-(195)	mg/kg	<0.010	0.010				7686963
22'33'44'55'-OctaCB-(194)	mg/kg	<0.010	0.010				7686963
233'44'55'6-OctaCB-(205)	mg/kg	<0.010	0.010				7686963
22'33'44'55'6-NonaCB-(206)	mg/kg	<0.010	0.010				7686963
DecaCB-(209)	mg/kg	<0.010	0.010				7686963
Trichlorobiphenyls	mg/kg	<0.010	0.010				7686963
Tetrachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Pentachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Hexachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Heptachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Octachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Nonachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Decachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Total PCB	mg/kg	<0.010	0.010				7686963
TOTAL TOXIC EQUIVALENCY	mg/kg				0.00030		
<b>Surrogate Recovery (%)</b>							
2,3,3',4,6-Pentachlorobiphenyl	%	80					7686963
2',3,5-Trichlorobiphenyl	%	83					7686963
22'33'44'566'-Nonachlorobiphenyl	%	83					7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							

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Englobe Corp

Client Project #: 1900182.118

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Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		RBV239					
Sampling Date		2021/09/17					
COC Number		D 57491		TOXIC EQUIVALENCY		# of	
	UNITS	C7-A	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
<b>PCBs</b>							
TriCB-(17)+(18)	mg/kg	<0.010	0.010				7686963
TriCB-(28)+(31)	mg/kg	<0.010	0.010				7686963
2'34'-TriCB-(33)	mg/kg	<0.010	0.010				7686963
22'55'-TetraCB-(52)	mg/kg	<0.010	0.010				7686963
22'45'-TetraCB-(49)	mg/kg	<0.010	0.010				7686963
22'35'-TetraCB-(44)	mg/kg	<0.010	0.010				7686963
244'5'-TetraCB-(74)	mg/kg	<0.010	0.010				7686963
23'4'5'-TetraCB-(70)	mg/kg	<0.010	0.010				7686963
22'35'6'-PentaCB-(95)	mg/kg	<0.010	0.010				7686963
22'455'-PentaCB-(101)	mg/kg	<0.010	0.010				7686963
22'44'5'-PentaCB-(99)	mg/kg	<0.010	0.010				7686963
22'345'-PentaCB-(87)	mg/kg	<0.010	0.010				7686963
233'4'6'-PentaCB-(110)	mg/kg	<0.010	0.010				7686963
22'33'4'-PentaCB-(82)	mg/kg	<0.010	0.010				7686963
22'355'6'-HexaCB-(151)	mg/kg	<0.010	0.010				7686963
22'34'5'6'-HexaCB-(149)	mg/kg	<0.010	0.010				7686963
23'44'5'-PentaCB-(118)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'44'55'-HexaCB-(153)	mg/kg	<0.010	0.010				7686963
22'33'46'-HexaCB-(132)	mg/kg	<0.010	0.010				7686963
233'44'-PentaCB-(105)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
HexaCB-(138)+(158)	mg/kg	<0.010	0.010				7686963
22'34'55'6'-HeptaCB-(187)	mg/kg	<0.010	0.010				7686963
22'344'5'6'-HeptaCB-(183)	mg/kg	<0.010	0.010				7686963
22'33'44'-HexaCB-(128)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-HeptaCB-(177)	mg/kg	<0.010	0.010				7686963
22'33'44'6'-HeptaCB-(171)	mg/kg	<0.010	0.010				7686963
233'44'5'-HexaCB-(156)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'344'55'-HeptaCB-(180)	mg/kg	<0.010	0.010				7686963
233'44'5'6'-HeptaCB-(191)	mg/kg	<0.010	0.010				7686963
33'44'55'-HexaCB-(169)	mg/kg	<0.010	0.010	0.030	0.00030		7686963
RDL = Reportable Detection Limit TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient, The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.  WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds QC Batch = Quality Control Batch							



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### RESULTS OF ANALYSES OF SEDIMENT

<b>Bureau Veritas ID</b>		RBV239					
<b>Sampling Date</b>		2021/09/17					
<b>COC Number</b>		D 57491		<b>TOXIC EQUIVALENCY</b>		# of	
	<b>UNITS</b>	<b>C7-A</b>	<b>RDL</b>	<b>TEF (2005 WHO)</b>	<b>TEQ(DL)</b>	<b>Isomers</b>	<b>QC Batch</b>
22'33'44'5-HeptaCB-(170)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-OctaCB-(199)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-NonaCB-(208)	mg/kg	<0.010	0.010				7686963
22'33'44'56-OctaCB-(195)	mg/kg	<0.010	0.010				7686963
22'33'44'55'-OctaCB-(194)	mg/kg	<0.010	0.010				7686963
233'44'55'6-OctaCB-(205)	mg/kg	<0.010	0.010				7686963
22'33'44'55'6-NonaCB-(206)	mg/kg	<0.010	0.010				7686963
DecaCB-(209)	mg/kg	<0.010	0.010				7686963
Trichlorobiphenyls	mg/kg	<0.010	0.010				7686963
Tetrachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Pentachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Hexachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Heptachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Octachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Nonachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Decachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Total PCB	mg/kg	<0.010	0.010				7686963
TOTAL TOXIC EQUIVALENCY	mg/kg				0.00030		
<b>Surrogate Recovery (%)</b>							
2,3,3',4,6-Pentachlorobiphenyl	%	81					7686963
2',3,5-Trichlorobiphenyl	%	85					7686963
22'33'44'566'-Nonachlorobiphenyl	%	84					7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							





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Client Project #: 1900182.118

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Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

<b>Bureau Veritas ID</b>		RBV239					
<b>Sampling Date</b>		2021/09/17					
<b>COC Number</b>		D 57491		<b>TOXIC EQUIVALENCY</b>		# of	
	<b>UNITS</b>	<b>C7-A Lab-Dup</b>	<b>RDL</b>	<b>TEF (2005 WHO)</b>	<b>TEQ(DL)</b>	<b>Isomers</b>	<b>QC Batch</b>
<b>PCBs</b>							
TriCB-(17)+(18)	mg/kg	<0.010	0.010				7686963
TriCB-(28)+(31)	mg/kg	<0.010	0.010				7686963
2'34'-TriCB-(33)	mg/kg	<0.010	0.010				7686963
22'55'-TetraCB-(52)	mg/kg	<0.010	0.010				7686963
22'45'-TetraCB-(49)	mg/kg	<0.010	0.010				7686963
22'35'-TetraCB-(44)	mg/kg	<0.010	0.010				7686963
244'5'-TetraCB-(74)	mg/kg	<0.010	0.010				7686963
23'4'5'-TetraCB-(70)	mg/kg	<0.010	0.010				7686963
22'35'6'-PentaCB-(95)	mg/kg	<0.010	0.010				7686963
22'455'-PentaCB-(101)	mg/kg	<0.010	0.010				7686963
22'44'5'-PentaCB-(99)	mg/kg	<0.010	0.010				7686963
22'345'-PentaCB-(87)	mg/kg	<0.010	0.010				7686963
233'4'6'-PentaCB-(110)	mg/kg	<0.010	0.010				7686963
22'33'4'-PentaCB-(82)	mg/kg	<0.010	0.010				7686963
22'355'6'-HexaCB-(151)	mg/kg	<0.010	0.010				7686963
22'34'5'6'-HexaCB-(149)	mg/kg	<0.010	0.010				7686963
23'44'5'-PentaCB-(118)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'44'55'-HexaCB-(153)	mg/kg	<0.010	0.010				7686963
22'33'46'-HexaCB-(132)	mg/kg	<0.010	0.010				7686963
233'44'-PentaCB-(105)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
HexaCB-(138)+(158)	mg/kg	<0.010	0.010				7686963
22'34'55'6'-HeptaCB-(187)	mg/kg	<0.010	0.010				7686963
22'344'5'6'-HeptaCB-(183)	mg/kg	<0.010	0.010				7686963
22'33'44'-HexaCB-(128)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-HeptaCB-(177)	mg/kg	<0.010	0.010				7686963
22'33'44'6'-HeptaCB-(171)	mg/kg	<0.010	0.010				7686963
233'44'5'-HexaCB-(156)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'344'55'-HeptaCB-(180)	mg/kg	<0.010	0.010				7686963
233'44'5'6'-HeptaCB-(191)	mg/kg	<0.010	0.010				7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p> <p>Lab-Dup = Laboratory Initiated Duplicate</p>							



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## RESULTS OF ANALYSES OF SEDIMENT

<b>Bureau Veritas ID</b>		RBV239					
<b>Sampling Date</b>		2021/09/17					
<b>COC Number</b>		D 57491		<b>TOXIC EQUIVALENCY</b>		# of	
	<b>UNITS</b>	<b>C7-A Lab-Dup</b>	<b>RDL</b>	<b>TEF (2005 WHO)</b>	<b>TEQ(DL)</b>	<b>Isomers</b>	<b>QC Batch</b>
33'44'55"-HexaCB-(169)	mg/kg	<0.010	0.010	0.030	0.00030		7686963
22'33'44'5"-HeptaCB-(170)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6"-OctaCB-(199)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6"-NonaCB-(208)	mg/kg	<0.010	0.010				7686963
22'33'44'56"-OctaCB-(195)	mg/kg	<0.010	0.010				7686963
22'33'44'55"-OctaCB-(194)	mg/kg	<0.010	0.010				7686963
233'44'55'6"-OctaCB-(205)	mg/kg	<0.010	0.010				7686963
22'33'44'55'6"-NonaCB-(206)	mg/kg	<0.010	0.010				7686963
DecaCB-(209)	mg/kg	<0.010	0.010				7686963
Trichlorobiphenyls	mg/kg	<0.010	0.010				7686963
Tetrachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Pentachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Hexachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Heptachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Octachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Nonachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Decachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Total PCB	mg/kg	<0.010	0.010				7686963
TOTAL TOXIC EQUIVALENCY	mg/kg				0.00030		
<b>Surrogate Recovery (%)</b>							
2,3,3',4,6-Pentachlorobiphenyl	%	76					7686963
2',3,5-Trichlorobiphenyl	%	80					7686963
22'33'44'56'6"-Nonachlorobiphenyl	%	81					7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p> <p>Lab-Dup = Laboratory Initiated Duplicate</p>							



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## RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		RBV240					
Sampling Date		2021/09/17					
COC Number		D 57491		TOXIC EQUIVALENCY		# of	
	UNITS	C7-B	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
<b>PCBs</b>							
TriCB-(17)+(18)	mg/kg	<0.010	0.010				7686963
TriCB-(28)+(31)	mg/kg	<0.010	0.010				7686963
2'34'-TriCB-(33)	mg/kg	<0.010	0.010				7686963
22'55'-TetraCB-(52)	mg/kg	<0.010	0.010				7686963
22'45'-TetraCB-(49)	mg/kg	<0.010	0.010				7686963
22'35'-TetraCB-(44)	mg/kg	<0.010	0.010				7686963
244'5'-TetraCB-(74)	mg/kg	<0.010	0.010				7686963
23'4'5'-TetraCB-(70)	mg/kg	<0.010	0.010				7686963
22'35'6'-PentaCB-(95)	mg/kg	<0.010	0.010				7686963
22'455'-PentaCB-(101)	mg/kg	<0.010	0.010				7686963
22'44'5'-PentaCB-(99)	mg/kg	<0.010	0.010				7686963
22'345'-PentaCB-(87)	mg/kg	<0.010	0.010				7686963
233'4'6'-PentaCB-(110)	mg/kg	<0.010	0.010				7686963
22'33'4'-PentaCB-(82)	mg/kg	<0.010	0.010				7686963
22'355'6'-HexaCB-(151)	mg/kg	<0.010	0.010				7686963
22'34'5'6'-HexaCB-(149)	mg/kg	<0.010	0.010				7686963
23'44'5'-PentaCB-(118)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'44'55'-HexaCB-(153)	mg/kg	<0.010	0.010				7686963
22'33'46'-HexaCB-(132)	mg/kg	<0.010	0.010				7686963
233'44'-PentaCB-(105)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
HexaCB-(138)+(158)	mg/kg	<0.010	0.010				7686963
22'34'55'6'-HeptaCB-(187)	mg/kg	<0.010	0.010				7686963
22'344'5'6'-HeptaCB-(183)	mg/kg	<0.010	0.010				7686963
22'33'44'-HexaCB-(128)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-HeptaCB-(177)	mg/kg	<0.010	0.010				7686963
22'33'44'6'-HeptaCB-(171)	mg/kg	<0.010	0.010				7686963
233'44'5'-HexaCB-(156)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'344'55'-HeptaCB-(180)	mg/kg	<0.010	0.010				7686963
233'44'5'6'-HeptaCB-(191)	mg/kg	<0.010	0.010				7686963
33'44'55'-HexaCB-(169)	mg/kg	<0.010	0.010	0.030	0.00030		7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



BUREAU  
VERITAS

Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

### RESULTS OF ANALYSES OF SEDIMENT

<b>Bureau Veritas ID</b>		RBV240					
<b>Sampling Date</b>		2021/09/17					
<b>COC Number</b>		D 57491		<b>TOXIC EQUIVALENCY</b>		# of	
	<b>UNITS</b>	<b>C7-B</b>	<b>RDL</b>	<b>TEF (2005 WHO)</b>	<b>TEQ(DL)</b>	<b>Isomers</b>	<b>QC Batch</b>
22'33'44'5-HeptaCB-(170)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-OctaCB-(199)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-NonaCB-(208)	mg/kg	<0.010	0.010				7686963
22'33'44'56-OctaCB-(195)	mg/kg	<0.010	0.010				7686963
22'33'44'55'-OctaCB-(194)	mg/kg	<0.010	0.010				7686963
233'44'55'6-OctaCB-(205)	mg/kg	<0.010	0.010				7686963
22'33'44'55'6-NonaCB-(206)	mg/kg	<0.010	0.010				7686963
DecaCB-(209)	mg/kg	<0.010	0.010				7686963
Trichlorobiphenyls	mg/kg	<0.010	0.010				7686963
Tetrachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Pentachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Hexachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Heptachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Octachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Nonachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Decachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Total PCB	mg/kg	<0.010	0.010				7686963
TOTAL TOXIC EQUIVALENCY	mg/kg				0.00030		
<b>Surrogate Recovery (%)</b>							
2,3,3',4,6-Pentachlorobiphenyl	%	82					7686963
2',3,5-Trichlorobiphenyl	%	85					7686963
22'33'44'566'-Nonachlorobiphenyl	%	82					7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



BUREAU  
VERITAS

Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		RBV241					
Sampling Date		2021/09/17					
COC Number		D 57491		TOXIC EQUIVALENCY		# of	
	UNITS	C7-C	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
<b>PCBs</b>							
TriCB-(17)+(18)	mg/kg	<0.010	0.010				7686963
TriCB-(28)+(31)	mg/kg	<0.010	0.010				7686963
2'34'-TriCB-(33)	mg/kg	<0.010	0.010				7686963
22'55'-TetraCB-(52)	mg/kg	<0.010	0.010				7686963
22'45'-TetraCB-(49)	mg/kg	<0.010	0.010				7686963
22'35'-TetraCB-(44)	mg/kg	<0.010	0.010				7686963
244'5'-TetraCB-(74)	mg/kg	<0.010	0.010				7686963
23'4'5'-TetraCB-(70)	mg/kg	<0.010	0.010				7686963
22'35'6'-PentaCB-(95)	mg/kg	<0.010	0.010				7686963
22'455'-PentaCB-(101)	mg/kg	<0.010	0.010				7686963
22'44'5'-PentaCB-(99)	mg/kg	<0.010	0.010				7686963
22'345'-PentaCB-(87)	mg/kg	<0.010	0.010				7686963
233'4'6'-PentaCB-(110)	mg/kg	<0.010	0.010				7686963
22'33'4'-PentaCB-(82)	mg/kg	<0.010	0.010				7686963
22'355'6'-HexaCB-(151)	mg/kg	<0.010	0.010				7686963
22'34'5'6'-HexaCB-(149)	mg/kg	<0.010	0.010				7686963
23'44'5'-PentaCB-(118)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'44'55'-HexaCB-(153)	mg/kg	<0.010	0.010				7686963
22'33'46'-HexaCB-(132)	mg/kg	<0.010	0.010				7686963
233'44'-PentaCB-(105)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
HexaCB-(138)+(158)	mg/kg	<0.010	0.010				7686963
22'34'55'6'-HeptaCB-(187)	mg/kg	<0.010	0.010				7686963
22'344'5'6'-HeptaCB-(183)	mg/kg	<0.010	0.010				7686963
22'33'44'-HexaCB-(128)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-HeptaCB-(177)	mg/kg	<0.010	0.010				7686963
22'33'44'6'-HeptaCB-(171)	mg/kg	<0.010	0.010				7686963
233'44'5'-HexaCB-(156)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'344'55'-HeptaCB-(180)	mg/kg	<0.010	0.010				7686963
233'44'5'6'-HeptaCB-(191)	mg/kg	<0.010	0.010				7686963
33'44'55'-HexaCB-(169)	mg/kg	<0.010	0.010	0.030	0.00030		7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							





BUREAU  
VERITAS

Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

### RESULTS OF ANALYSES OF SEDIMENT

<b>Bureau Veritas ID</b>		RBV241					
<b>Sampling Date</b>		2021/09/17					
<b>COC Number</b>		D 57491		<b>TOXIC EQUIVALENCY</b>		# of	
	<b>UNITS</b>	<b>C7-C</b>	<b>RDL</b>	<b>TEF (2005 WHO)</b>	<b>TEQ(DL)</b>	<b>Isomers</b>	<b>QC Batch</b>
22'33'44'5-HeptaCB-(170)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-OctaCB-(199)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-NonaCB-(208)	mg/kg	<0.010	0.010				7686963
22'33'44'56-OctaCB-(195)	mg/kg	<0.010	0.010				7686963
22'33'44'55'-OctaCB-(194)	mg/kg	<0.010	0.010				7686963
233'44'55'6-OctaCB-(205)	mg/kg	<0.010	0.010				7686963
22'33'44'55'6-NonaCB-(206)	mg/kg	<0.010	0.010				7686963
DecaCB-(209)	mg/kg	<0.010	0.010				7686963
Trichlorobiphenyls	mg/kg	<0.010	0.010				7686963
Tetrachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Pentachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Hexachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Heptachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Octachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Nonachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Decachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Total PCB	mg/kg	<0.010	0.010				7686963
TOTAL TOXIC EQUIVALENCY	mg/kg				0.00030		
<b>Surrogate Recovery (%)</b>							
2,3,3',4,6-Pentachlorobiphenyl	%	81					7686963
2',3,5-Trichlorobiphenyl	%	85					7686963
22'33'44'566'-Nonachlorobiphenyl	%	83					7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



BUREAU  
VERITAS

Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		RBV242					
Sampling Date		2021/09/17					
COC Number		D 57491		TOXIC EQUIVALENCY		# of	
	UNITS	C8-A	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
<b>PCBs</b>							
TriCB-(17)+(18)	mg/kg	<0.010	0.010				7686963
TriCB-(28)+(31)	mg/kg	<0.010	0.010				7686963
2'34'-TriCB-(33)	mg/kg	<0.010	0.010				7686963
22'55'-TetraCB-(52)	mg/kg	<0.010	0.010				7686963
22'45'-TetraCB-(49)	mg/kg	<0.010	0.010				7686963
22'35'-TetraCB-(44)	mg/kg	<0.010	0.010				7686963
244'5'-TetraCB-(74)	mg/kg	<0.010	0.010				7686963
23'4'5'-TetraCB-(70)	mg/kg	<0.010	0.010				7686963
22'35'6'-PentaCB-(95)	mg/kg	<0.010	0.010				7686963
22'455'-PentaCB-(101)	mg/kg	<0.010	0.010				7686963
22'44'5'-PentaCB-(99)	mg/kg	<0.010	0.010				7686963
22'345'-PentaCB-(87)	mg/kg	<0.010	0.010				7686963
233'4'6'-PentaCB-(110)	mg/kg	<0.010	0.010				7686963
22'33'4'-PentaCB-(82)	mg/kg	<0.010	0.010				7686963
22'355'6'-HexaCB-(151)	mg/kg	<0.010	0.010				7686963
22'34'5'6'-HexaCB-(149)	mg/kg	<0.010	0.010				7686963
23'44'5'-PentaCB-(118)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'44'55'-HexaCB-(153)	mg/kg	<0.010	0.010				7686963
22'33'46'-HexaCB-(132)	mg/kg	<0.010	0.010				7686963
233'44'-PentaCB-(105)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
HexaCB-(138)+(158)	mg/kg	<0.010	0.010				7686963
22'34'55'6'-HeptaCB-(187)	mg/kg	<0.010	0.010				7686963
22'344'5'6'-HeptaCB-(183)	mg/kg	<0.010	0.010				7686963
22'33'44'-HexaCB-(128)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-HeptaCB-(177)	mg/kg	<0.010	0.010				7686963
22'33'44'6'-HeptaCB-(171)	mg/kg	<0.010	0.010				7686963
233'44'5'-HexaCB-(156)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'344'55'-HeptaCB-(180)	mg/kg	<0.010	0.010				7686963
233'44'5'6'-HeptaCB-(191)	mg/kg	<0.010	0.010				7686963
33'44'55'-HexaCB-(169)	mg/kg	<0.010	0.010	0.030	0.00030		7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



BUREAU  
VERITAS

Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

<b>Bureau Veritas ID</b>		RBV242					
<b>Sampling Date</b>		2021/09/17					
<b>COC Number</b>		D 57491		<b>TOXIC EQUIVALENCY</b>		# of	
	<b>UNITS</b>	<b>C8-A</b>	<b>RDL</b>	<b>TEF (2005 WHO)</b>	<b>TEQ(DL)</b>	<b>Isomers</b>	<b>QC Batch</b>
22'33'44'5-HeptaCB-(170)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-OctaCB-(199)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-NonaCB-(208)	mg/kg	<0.010	0.010				7686963
22'33'44'56-OctaCB-(195)	mg/kg	<0.010	0.010				7686963
22'33'44'55'-OctaCB-(194)	mg/kg	<0.010	0.010				7686963
233'44'55'6-OctaCB-(205)	mg/kg	<0.010	0.010				7686963
22'33'44'55'6-NonaCB-(206)	mg/kg	<0.010	0.010				7686963
DecaCB-(209)	mg/kg	<0.010	0.010				7686963
Trichlorobiphenyls	mg/kg	<0.010	0.010				7686963
Tetrachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Pentachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Hexachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Heptachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Octachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Nonachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Decachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Total PCB	mg/kg	<0.010	0.010				7686963
TOTAL TOXIC EQUIVALENCY	mg/kg				0.00030		
<b>Surrogate Recovery (%)</b>							
2,3,3',4,6-Pentachlorobiphenyl	%	79					7686963
2',3,5-Trichlorobiphenyl	%	84					7686963
22'33'44'566'-Nonachlorobiphenyl	%	83					7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



BUREAU  
VERITAS

Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		RBV243					
Sampling Date		2021/09/17					
COC Number		D 57491		TOXIC EQUIVALENCY		# of	
	UNITS	C8-B	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
<b>PCBs</b>							
TriCB-(17)+(18)	mg/kg	<0.010	0.010				7686963
TriCB-(28)+(31)	mg/kg	<0.010	0.010				7686963
2'34'-TriCB-(33)	mg/kg	<0.010	0.010				7686963
22'55'-TetraCB-(52)	mg/kg	<0.010	0.010				7686963
22'45'-TetraCB-(49)	mg/kg	<0.010	0.010				7686963
22'35'-TetraCB-(44)	mg/kg	<0.010	0.010				7686963
244'5'-TetraCB-(74)	mg/kg	<0.010	0.010				7686963
23'4'5'-TetraCB-(70)	mg/kg	<0.010	0.010				7686963
22'35'6'-PentaCB-(95)	mg/kg	<0.010	0.010				7686963
22'455'-PentaCB-(101)	mg/kg	<0.010	0.010				7686963
22'44'5'-PentaCB-(99)	mg/kg	<0.010	0.010				7686963
22'345'-PentaCB-(87)	mg/kg	<0.010	0.010				7686963
233'4'6'-PentaCB-(110)	mg/kg	<0.010	0.010				7686963
22'33'4'-PentaCB-(82)	mg/kg	<0.010	0.010				7686963
22'355'6'-HexaCB-(151)	mg/kg	<0.010	0.010				7686963
22'34'5'6'-HexaCB-(149)	mg/kg	<0.010	0.010				7686963
23'44'5'-PentaCB-(118)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'44'55'-HexaCB-(153)	mg/kg	<0.010	0.010				7686963
22'33'46'-HexaCB-(132)	mg/kg	<0.010	0.010				7686963
233'44'-PentaCB-(105)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
HexaCB-(138)+(158)	mg/kg	<0.010	0.010				7686963
22'34'55'6'-HeptaCB-(187)	mg/kg	<0.010	0.010				7686963
22'344'5'6'-HeptaCB-(183)	mg/kg	<0.010	0.010				7686963
22'33'44'-HexaCB-(128)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-HeptaCB-(177)	mg/kg	<0.010	0.010				7686963
22'33'44'6'-HeptaCB-(171)	mg/kg	<0.010	0.010				7686963
233'44'5'-HexaCB-(156)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'344'55'-HeptaCB-(180)	mg/kg	<0.010	0.010				7686963
233'44'5'6'-HeptaCB-(191)	mg/kg	<0.010	0.010				7686963
33'44'55'-HexaCB-(169)	mg/kg	<0.010	0.010	0.030	0.00030		7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



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Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

<b>Bureau Veritas ID</b>		RBV243					
<b>Sampling Date</b>		2021/09/17					
<b>COC Number</b>		D 57491		<b>TOXIC EQUIVALENCY</b>		# of	
	<b>UNITS</b>	<b>C8-B</b>	<b>RDL</b>	<b>TEF (2005 WHO)</b>	<b>TEQ(DL)</b>	<b>Isomers</b>	<b>QC Batch</b>
22'33'44'5-HeptaCB-(170)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-OctaCB-(199)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-NonaCB-(208)	mg/kg	<0.010	0.010				7686963
22'33'44'56-OctaCB-(195)	mg/kg	<0.010	0.010				7686963
22'33'44'55'-OctaCB-(194)	mg/kg	<0.010	0.010				7686963
233'44'55'6-OctaCB-(205)	mg/kg	<0.010	0.010				7686963
22'33'44'55'6-NonaCB-(206)	mg/kg	<0.010	0.010				7686963
DecaCB-(209)	mg/kg	<0.010	0.010				7686963
Trichlorobiphenyls	mg/kg	<0.010	0.010				7686963
Tetrachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Pentachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Hexachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Heptachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Octachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Nonachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Decachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Total PCB	mg/kg	<0.010	0.010				7686963
TOTAL TOXIC EQUIVALENCY	mg/kg				0.00030		
<b>Surrogate Recovery (%)</b>							
2,3,3',4,6-Pentachlorobiphenyl	%	81					7686963
2',3,5-Trichlorobiphenyl	%	84					7686963
22'33'44'566'-Nonachlorobiphenyl	%	83					7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							





BUREAU  
VERITAS

Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

## RESULTS OF ANALYSES OF SEDIMENT

Bureau Veritas ID		RBV244					
Sampling Date		2021/09/17					
COC Number		D 57491		TOXIC EQUIVALENCY		# of	
	UNITS	C8-C	RDL	TEF (2005 WHO)	TEQ(DL)	Isomers	QC Batch
<b>PCBs</b>							
TriCB-(17)+(18)	mg/kg	<0.010	0.010				7686963
TriCB-(28)+(31)	mg/kg	<0.010	0.010				7686963
2'34'-TriCB-(33)	mg/kg	<0.010	0.010				7686963
22'55'-TetraCB-(52)	mg/kg	<0.010	0.010				7686963
22'45'-TetraCB-(49)	mg/kg	<0.010	0.010				7686963
22'35'-TetraCB-(44)	mg/kg	<0.010	0.010				7686963
244'5'-TetraCB-(74)	mg/kg	<0.010	0.010				7686963
23'4'5'-TetraCB-(70)	mg/kg	<0.010	0.010				7686963
22'35'6'-PentaCB-(95)	mg/kg	<0.010	0.010				7686963
22'455'-PentaCB-(101)	mg/kg	<0.010	0.010				7686963
22'44'5'-PentaCB-(99)	mg/kg	<0.010	0.010				7686963
22'345'-PentaCB-(87)	mg/kg	<0.010	0.010				7686963
233'4'6'-PentaCB-(110)	mg/kg	<0.010	0.010				7686963
22'33'4'-PentaCB-(82)	mg/kg	<0.010	0.010				7686963
22'355'6'-HexaCB-(151)	mg/kg	<0.010	0.010				7686963
22'34'5'6'-HexaCB-(149)	mg/kg	<0.010	0.010				7686963
23'44'5'-PentaCB-(118)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'44'55'-HexaCB-(153)	mg/kg	<0.010	0.010				7686963
22'33'46'-HexaCB-(132)	mg/kg	<0.010	0.010				7686963
233'44'-PentaCB-(105)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
HexaCB-(138)+(158)	mg/kg	<0.010	0.010				7686963
22'34'55'6'-HeptaCB-(187)	mg/kg	<0.010	0.010				7686963
22'344'5'6'-HeptaCB-(183)	mg/kg	<0.010	0.010				7686963
22'33'44'-HexaCB-(128)	mg/kg	<0.010	0.010				7686963
22'33'45'6'-HeptaCB-(177)	mg/kg	<0.010	0.010				7686963
22'33'44'6'-HeptaCB-(171)	mg/kg	<0.010	0.010				7686963
233'44'5'-HexaCB-(156)	mg/kg	<0.010	0.010	0.000030	0.00000030		7686963
22'344'55'-HeptaCB-(180)	mg/kg	<0.010	0.010				7686963
233'44'5'6'-HeptaCB-(191)	mg/kg	<0.010	0.010				7686963
33'44'55'-HexaCB-(169)	mg/kg	<0.010	0.010	0.030	0.00030		7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



BUREAU  
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Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

### RESULTS OF ANALYSES OF SEDIMENT

<b>Bureau Veritas ID</b>		RBV244					
<b>Sampling Date</b>		2021/09/17					
<b>COC Number</b>		D 57491		<b>TOXIC EQUIVALENCY</b>		# of	
	<b>UNITS</b>	<b>C8-C</b>	<b>RDL</b>	<b>TEF (2005 WHO)</b>	<b>TEQ(DL)</b>	<b>Isomers</b>	<b>QC Batch</b>
22'33'44'5-HeptaCB-(170)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-OctaCB-(199)	mg/kg	<0.010	0.010				7686963
22'33'45'5'6'-NonaCB-(208)	mg/kg	<0.010	0.010				7686963
22'33'44'56-OctaCB-(195)	mg/kg	<0.010	0.010				7686963
22'33'44'55'-OctaCB-(194)	mg/kg	<0.010	0.010				7686963
233'44'55'6-OctaCB-(205)	mg/kg	<0.010	0.010				7686963
22'33'44'55'6-NonaCB-(206)	mg/kg	<0.010	0.010				7686963
DecaCB-(209)	mg/kg	<0.010	0.010				7686963
Trichlorobiphenyls	mg/kg	<0.010	0.010				7686963
Tetrachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Pentachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Hexachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Heptachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Octachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Nonachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Decachlorobiphenyls	mg/kg	<0.010	0.010				7686963
Total PCB	mg/kg	<0.010	0.010				7686963
TOTAL TOXIC EQUIVALENCY	mg/kg				0.00030		
<b>Surrogate Recovery (%)</b>							
2,3,3',4,6-Pentachlorobiphenyl	%	83					7686963
2',3,5-Trichlorobiphenyl	%	88					7686963
22'33'44'566'-Nonachlorobiphenyl	%	82					7686963
<p>RDL = Reportable Detection Limit</p> <p>TEF = Toxic Equivalency Factor, TEQ = Toxic Equivalency Quotient,</p> <p>The Total Toxic Equivalency (TEQ) value reported is the sum of Toxic Equivalent Quotients for the congeners tested.</p> <p>WHO(2005): The 2005 World Health Organization, Human and Mammalian Toxic Equivalency Factors for Dioxins and Dioxin-like Compounds</p> <p>QC Batch = Quality Control Batch</p>							



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Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

### GENERAL COMMENTS

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

Package 1	9.0°C
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**Results relate only to the items tested.**



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Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

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Client Project #: 1900182.118

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Sampler Initials: LB

## QUALITY ASSURANCE REPORT

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7686963	éD5	Spiked Blank	2,3,3',4,6-Pentachlorobiphenyl	2021/11/05		79	%	60 - 130
			2',3,5-Trichlorobiphenyl	2021/11/05		85	%	60 - 130
			22'33'44'566'-Nonachlorobiphenyl	2021/11/05		83	%	60 - 130
			TriCB-(17)+(18)	2021/11/05		93	%	60 - 130
			TriCB-(28)+(31)	2021/11/05		94	%	60 - 130
			2'34-TriCB-(33)	2021/11/05		92	%	60 - 130
			22'55'-TetraCB-(52)	2021/11/05		99	%	60 - 130
			22'45'-TetraCB-(49)	2021/11/05		105	%	60 - 130
			22'35'-TetraCB-(44)	2021/11/05		105	%	60 - 130
			244'5-TetraCB-(74)	2021/11/05		105	%	60 - 130
			23'4'5-TetraCB-(70)	2021/11/05		99	%	60 - 130
			22'35'6-PentaCB-(95)	2021/11/05		109	%	60 - 130
			22'455'-PentaCB-(101)	2021/11/05		96	%	60 - 130
			22'44'5-PentaCB-(99)	2021/11/05		81	%	60 - 130
			22'345'-PentaCB-(87)	2021/11/05		111	%	60 - 130
			233'4'6-PentaCB-(110)	2021/11/05		122	%	60 - 130
			22'33'4-PentaCB-(82)	2021/11/05		88	%	60 - 130
			22'355'6-HexaCB-(151)	2021/11/05		121	%	60 - 130
			22'34'5'6-HexaCB-(149)	2021/11/05		107	%	60 - 130
			23'44'5-PentaCB-(118)	2021/11/05		114	%	60 - 130
			22'44'55'-HexaCB-(153)	2021/11/05		116	%	60 - 130
			22'33'46'-HexaCB-(132)	2021/11/05		107	%	60 - 130
			233'44'-PentaCB-(105)	2021/11/05		119	%	60 - 130
			HexaCB-(138)+(158)	2021/11/05		122	%	60 - 130
			22'34'55'6-HeptaCB-(187)	2021/11/05		92	%	60 - 130
			22'344'5'6-HeptaCB-(183)	2021/11/05		90	%	60 - 130
			22'33'44'-HexaCB-(128)	2021/11/05		100	%	60 - 130
			22'33'45'6'-HeptaCB-(177)	2021/11/05		81	%	60 - 130
			22'33'44'6-HeptaCB-(171)	2021/11/05		95	%	60 - 130
			233'44'5-HexaCB-(156)	2021/11/05		106	%	60 - 130
			22'344'55'-HeptaCB-(180)	2021/11/05		90	%	60 - 130
			233'44'5'6-HeptaCB-(191)	2021/11/05		88	%	60 - 130
			33'44'55'-HexaCB-(169)	2021/11/05		116	%	60 - 130
			22'33'44'5-HeptaCB-(170)	2021/11/05		96	%	60 - 130
			22'33'455'6'-OctaCB-(199)	2021/11/05		96	%	60 - 130
			22'33'455'66'-NonaCB-(208)	2021/11/05		82	%	60 - 130
			22'33'44'56-OctaCB-(195)	2021/11/05		93	%	60 - 130
			22'33'44'55'-OctaCB-(194)	2021/11/05		91	%	60 - 130
			233'44'55'6-OctaCB-(205)	2021/11/05		89	%	60 - 130
			22'33'44'55'6-NonaCB-(206)	2021/11/05		64	%	60 - 130
			DecaCB-(209)	2021/11/05		83	%	60 - 130
			Total PCB	2021/11/05		99	%	60 - 130
7686963	éD5	Method Blank	2,3,3',4,6-Pentachlorobiphenyl	2021/11/05		78	%	60 - 130
			2',3,5-Trichlorobiphenyl	2021/11/05		83	%	60 - 130
			22'33'44'566'-Nonachlorobiphenyl	2021/11/05		80	%	60 - 130
			TriCB-(17)+(18)	2021/11/05	<0.010		mg/kg	
			TriCB-(28)+(31)	2021/11/05	<0.010		mg/kg	
			2'34-TriCB-(33)	2021/11/05	<0.010		mg/kg	
			22'55'-TetraCB-(52)	2021/11/05	<0.010		mg/kg	
			22'45'-TetraCB-(49)	2021/11/05	<0.010		mg/kg	
			22'35'-TetraCB-(44)	2021/11/05	<0.010		mg/kg	
			244'5-TetraCB-(74)	2021/11/05	<0.010		mg/kg	
			23'4'5-TetraCB-(70)	2021/11/05	<0.010		mg/kg	



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Bureau Veritas Job #: C1V7357  
Report Date: 2021/11/08

Englobe Corp  
Client Project #: 1900182.118  
Your P.O. #: 24557  
Sampler Initials: LB

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			22'35'6-PentaCB-(95)	2021/11/05	<0.010		mg/kg	
			22'455'-PentaCB-(101)	2021/11/05	<0.010		mg/kg	
			22'44'5-PentaCB-(99)	2021/11/05	<0.010		mg/kg	
			22'345'-PentaCB-(87)	2021/11/05	<0.010		mg/kg	
			233'4'6-PentaCB-(110)	2021/11/05	<0.010		mg/kg	
			22'33'4-PentaCB-(82)	2021/11/05	<0.010		mg/kg	
			22'355'6-HexaCB-(151)	2021/11/05	<0.010		mg/kg	
			22'34'5'6-HexaCB-(149)	2021/11/05	<0.010		mg/kg	
			23'44'5-PentaCB-(118)	2021/11/05	<0.010		mg/kg	
			22'44'55'-HexaCB-(153)	2021/11/05	<0.010		mg/kg	
			22'33'46'-HexaCB-(132)	2021/11/05	<0.010		mg/kg	
			233'44'-PentaCB-(105)	2021/11/05	<0.010		mg/kg	
			HexaCB-(138)+(158)	2021/11/05	<0.010		mg/kg	
			22'34'55'6-HeptaCB-(187)	2021/11/05	<0.010		mg/kg	
			22'344'5'6-HeptaCB-(183)	2021/11/05	<0.010		mg/kg	
			22'33'44'-HexaCB-(128)	2021/11/05	<0.010		mg/kg	
			22'33'45'6'-HeptaCB-(177)	2021/11/05	<0.010		mg/kg	
			22'33'44'6-HeptaCB-(171)	2021/11/05	<0.010		mg/kg	
			233'44'5-HexaCB-(156)	2021/11/05	<0.010		mg/kg	
			22'344'55'-HeptaCB-(180)	2021/11/05	<0.010		mg/kg	
			233'44'5'6-HeptaCB-(191)	2021/11/05	<0.010		mg/kg	
			33'44'55'-HexaCB-(169)	2021/11/05	<0.010		mg/kg	
			22'33'44'5-HeptaCB-(170)	2021/11/05	<0.010		mg/kg	
			22'33'455'6'-OctaCB-(199)	2021/11/05	<0.010		mg/kg	
			22'33'455'66'-NonaCB-(208)	2021/11/05	<0.010		mg/kg	
			22'33'44'56-OctaCB-(195)	2021/11/05	<0.010		mg/kg	
			22'33'44'55'-OctaCB-(194)	2021/11/05	<0.010		mg/kg	
			233'44'55'6-OctaCB-(205)	2021/11/05	<0.010		mg/kg	
			22'33'44'55'6-NonaCB-(206)	2021/11/05	<0.010		mg/kg	
			DecaCB-(209)	2021/11/05	<0.010		mg/kg	
			Trichlorobiphenyls	2021/11/05	<0.010		mg/kg	
			Tetrachlorobiphenyls	2021/11/05	<0.010		mg/kg	
			Pentachlorobiphenyls	2021/11/05	<0.010		mg/kg	
			Hexachlorobiphenyls	2021/11/05	<0.010		mg/kg	
			Heptachlorobiphenyls	2021/11/05	<0.010		mg/kg	
			Octachlorobiphenyls	2021/11/05	<0.010		mg/kg	
			Nonachlorobiphenyls	2021/11/05	<0.010		mg/kg	
			Decachlorobiphenyls	2021/11/05	<0.010		mg/kg	
			Total PCB	2021/11/05	<0.010		mg/kg	
7686963	éD5	RPD [RBV239-01]	TriCB-(17)+(18)	2021/11/05	NC		%	N/A
			TriCB-(28)+(31)	2021/11/05	NC		%	N/A
			2'34-TriCB-(33)	2021/11/05	NC		%	N/A
			22'55'-TetraCB-(52)	2021/11/05	NC		%	N/A
			22'45'-TetraCB-(49)	2021/11/05	NC		%	N/A
			22'35'-TetraCB-(44)	2021/11/05	NC		%	N/A
			244'5-TetraCB-(74)	2021/11/05	NC		%	N/A
			23'4'5-TetraCB-(70)	2021/11/05	NC		%	N/A
			22'35'6-PentaCB-(95)	2021/11/05	NC		%	N/A
			22'455'-PentaCB-(101)	2021/11/05	NC		%	N/A
			22'44'5-PentaCB-(99)	2021/11/05	NC		%	N/A
			22'345'-PentaCB-(87)	2021/11/05	NC		%	N/A
			233'4'6-PentaCB-(110)	2021/11/05	NC		%	N/A
			22'33'4-PentaCB-(82)	2021/11/05	NC		%	N/A



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Bureau Veritas Job #: C1V7357  
Report Date: 2021/11/08

Englobe Corp  
Client Project #: 1900182.118  
Your P.O. #: 24557  
Sampler Initials: LB

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			22'355'6-HexaCB-(151)	2021/11/05	NC		%	N/A
			22'34'5'6-HexaCB-(149)	2021/11/05	NC		%	N/A
			23'44'5'-PentaCB-(118)	2021/11/05	NC		%	N/A
			22'44'55'-HexaCB-(153)	2021/11/05	NC		%	N/A
			22'33'46'-HexaCB-(132)	2021/11/05	NC		%	N/A
			233'44'-PentaCB-(105)	2021/11/05	NC		%	N/A
			HexaCB-(138)+(158)	2021/11/05	NC		%	N/A
			22'34'55'6-HeptaCB-(187)	2021/11/05	NC		%	N/A
			22'344'5'6-HeptaCB-(183)	2021/11/05	NC		%	N/A
			22'33'44'-HexaCB-(128)	2021/11/05	NC		%	N/A
			22'33'45'6'-HeptaCB-(177)	2021/11/05	NC		%	N/A
			22'33'44'6-HeptaCB-(171)	2021/11/05	NC		%	N/A
			233'44'5-HexaCB-(156)	2021/11/05	NC		%	N/A
			22'344'55'-HeptaCB-(180)	2021/11/05	NC		%	N/A
			233'44'5'6-HeptaCB-(191)	2021/11/05	NC		%	N/A
			33'44'55'-HexaCB-(169)	2021/11/05	NC		%	N/A
			22'33'44'5-HeptaCB-(170)	2021/11/05	NC		%	N/A
			22'33'455'6'-OctaCB-(199)	2021/11/05	NC		%	N/A
			22'33'455'66'-NonaCB-(208)	2021/11/05	NC		%	N/A
			22'33'44'56-OctaCB-(195)	2021/11/05	NC		%	N/A
			22'33'44'55'-OctaCB-(194)	2021/11/05	NC		%	N/A
			233'44'55'6-OctaCB-(205)	2021/11/05	NC		%	N/A
			22'33'44'55'6-NonaCB-(206)	2021/11/05	NC		%	N/A
			DecaCB-(209)	2021/11/05	NC		%	N/A
			Trichlorobiphenyls	2021/11/05	NC		%	30
			Tetrachlorobiphenyls	2021/11/05	NC		%	30
			Pentachlorobiphenyls	2021/11/05	NC		%	30
			Hexachlorobiphenyls	2021/11/05	NC		%	30
			Heptachlorobiphenyls	2021/11/05	NC		%	30
			Octachlorobiphenyls	2021/11/05	NC		%	30
			Nonachlorobiphenyls	2021/11/05	NC		%	30
			Decachlorobiphenyls	2021/11/05	NC		%	30
			Total PCB	2021/11/05	NC		%	30

N/A = Not Applicable

Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.

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.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

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).





BUREAU  
VERITAS

Bureau Veritas Job #: C1V7357

Report Date: 2021/11/08

Englobe Corp

Client Project #: 1900182.118

Your P.O. #: 24557

Sampler Initials: LB

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:



*Caroline Bougie*

Caroline Bougie, B.Sc. Chemist

---

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 49-55 Elizabeth Avenue, St John's, NL A1A 1W9 Tel: 709-754-0203 Fax: 709-754-8612 Toll Free: 1-888-492-7227  
 465 George Street, Unit G, Sydney, NS B1P 1K5 Tel: 902-567-1255 Fax: 902-539-6504 Toll Free: 1-888-535-7770

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# CHAIN OF CUSTODY RECORD

COC #: **D 57492**

Page \_\_\_\_ of \_\_\_\_

Invoice Information				Report Information (if differs from invoice)				Project Information (where applicable)				Turnaround Time (TAT) Required														
Company Name: <u>Englobe</u>				Company Name: _____				Quotation #: _____				<input type="checkbox"/> Regular TAT (5 business days) Most analyses PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS IF RUSH please specify date (Surcharges will be applied) <b>DATE REQUIRED:</b> <u>November 4, 2021</u>														
Contact Name: <u>Doreen Chenard</u>				Contact Name: _____				Purchase Order#: <u>24557</u>																		
Address: <u>97 Troop Ave</u> <u>Dartmouth</u> PC: _____				Address: <u>SAME</u> PC: _____				Project #: <u>1900182.118</u>																		
Phone: <u>902 468 6486</u>				Phone: _____				Site Location: _____																		
Email: <u>doreen.chenard@englobecorp.com</u>				Email: <u>lauren.bowser@englobecorp.com</u>				Site Province: _____																		
Report Copies: _____				Report Copies: _____				Site #: _____																		
Reported By: _____				Reported By: _____				Sampled By: <u>LB + NS</u>																		
Laboratory Use Only				Analysis Requested																						
CUSTODY SEAL		COOLER TEMPERATURES		COOLER TEMPERATURES																						
Present	Intact																									
		<u>9, 9, 9</u>																								
COOLING MEDIA PRESENT <u>Y</u> / <u>N</u>																										
SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS																										
SAMPLE IDENTIFICATION		DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED & PRESERVED	LAB FILTRATION REQUIRED	RCAP-MS (Total Metals) Well / Surface	RCAP-MS (Dissolved Metals) Ground water	Total Digest (Default Method) for well water & surface water	Dissolved for ground water	Mercury (CIRCLE) TOTAL / DISSOLVED	Metals & Mercury	Default Acid Extractable (Available) Digest	Hot Water Soluble Boron (required for CCME Agricultural / Landfill)	RBCA Hydrocarbons (BTEX, C6-C12)	CCME Hydrocarbons (CWS-PHC F1/BTEX, F2-F4)	PAHs (Default for water/soil)	PAHs (FWAL / CCME Sediment)	PCBs - Select One: Default or CCME Sediment	VOCS	Total Coliform/E.coli (Presence/Absence)	Total Coliform/E.coli (Count)	Regulatory Requirements (Specify)	COMMENTS	
1	G1	2021/9/1		SED																						
2	G2																									
3	G3																									
4	C2-A	2021/9/16																								
5	C1-A	2021/9/15																								
6	C2-B	2021/9/16																								
7	C2-C	2021/9/16																								
8	C3-A	2021/9/19																								
9	C3-B	2021/9/19																								
10	C4-A	2021/9/17																								
RELINQUISHED BY: (Signature/Print)		DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)		DATE: (YYYY/MM/DD)	TIME: (HH:MM)	BV LABS JOB #																		
<u>Lauren Bowser</u>		2021/10/29	11:45am	<u>MATT GRACE</u>				CIV7357																		

Unless otherwise agreed to in writing, work submitted on this Chain of Custody is subject to BV Labs 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.bvna.com

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# CHAIN OF CUSTODY RECORD

COC #: **D 57491**

Page      of     

Invoice Information				Report Information (if differs from invoice)				Project Information (where applicable)				Turnaround Time (TAT) Required													
Company Name: <u>Englobe</u>				Company Name: <u>    </u>				Quotation #: <u>    </u>				<input type="checkbox"/> Regular TAT (5 business days) Most analyses PLEASE PROVIDE ADVANCE NOTICE FOR RUSH PROJECTS IF RUSH please specify date (Surcharges will be applied) <b>DATE REQUIRED:</b> <u>November 4, 2021</u>													
Contact Name: <u>Doreen Chenard</u>				Contact Name: <u>SAME</u>				Purchase Order#: <u>24557</u>																	
Address: <u>97 Troop Ave</u>				Address: <u>    </u>				Project #: <u>1900182-118</u>																	
City: <u>Dartmouth</u> PC: <u>    </u>				City: <u>    </u> PC: <u>    </u>				Site Location: <u>    </u>																	
Phone: <u>902 468 6486</u>				Phone: <u>    </u>				Site Province: <u>    </u>																	
Email: <u>doreen.chenard@englobecorp.com</u>				Email: <u>lauren.bowser@englobecorp.com</u>				Site #: <u>    </u>																	
Report Copies: <u>    </u>				Report Copies: <u>    </u>				Sampled By: <u>LB + NS</u>																	
Laboratory Use Only				Analysis Requested																					
CUSTODY SEAL		COOLER TEMPERATURES		COOLER TEMPERATURES																					
Present	Intact																								
		<u>9, 9, 9</u>																							
COOLING MEDIA PRESENT Y / N																									
SAMPLES MUST BE KEPT COOL (< 10 °C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS																									
SAMPLE IDENTIFICATION		DATE SAMPLED (YYYY/MM/DD)	TIME SAMPLED (HH:MM)	MATRIX	# OF CONTAINERS SUBMITTED	FIELD FILTERED & PRESERVED	LAB FILTRATION REQUIRED	RCAP-MS (Total Metals) Well / Surface	RCAP-MS (Dissolved Metals) Ground water	Total Digest (Default Method) for well water & surface water	Dissolved for ground water	Mercury (CIRCLE) TOTAL / DISSOLVED	Metals (Water)	Metals (Soil)	Hot Water Soluble Boron (required for CCME Agricultural / Landfill)	RBCA Hydrocarbons (BTEX, C6-C10)	CCME Hydrocarbons (CWS-PHC FJ/BTEX, F2-F4)	PAHs (Default for water/soil)	PAHs (FWAL / CCME Sediment)	PCBs - Select One: Default or CCME Sediment	VOCs	Total Coliform/E. coli (Presence/Absence)	Total Coliform/E. coli (Count)	Regulatory Requirements (Specify)	COMMENTS
1	C5-A	2021/9/17		SED																					
2	C5-B																								
3	C6-A																								
4	C6-B																								
5	C7-A																								
6	C7-B																								
7	C7-C																								
8	C8-A																								
9	C8-B																								
10	C8-C																								
RELINQUISHED BY: (Signature/Print)		DATE: (YYYY/MM/DD)	TIME: (HH:MM)	RECEIVED BY: (Signature/Print)		DATE: (YYYY/MM/DD)	TIME: (HH:MM)	BV LABS JOB #																	
<u>Lauren Bowser</u>		2021/10/29	11:45am	<u>MATT GRACE</u>				CIV7357																	

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2021 OCT 29 11:51



Your P.O. #: 24557  
Your Project #: 1900182.118  
Site Location: Cheticamp Entrance Channel

**Attention: Alexandra Stevenson**

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

Your C.O.C. #: 843213-01-01, 843213-02-01, 843213-03-01

**Report Date: 2021/09/28**

Report #: R6830887

Version: 2 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C1R1907**

**Received: 2021/09/21, 12:24**

Sample Matrix: Soil  
# Samples Received: 17

Analyses	Quantity	Date Extracted	Date Analyzed	Laboratory Method	Analytical Method
Benzo(b/j)fluoranthene Sum (LL soil)	14	N/A	2021/09/27	N/A	Auto Calc.
Benzo(b/j)fluoranthene Sum (LL soil)	3	N/A	2021/09/28	N/A	Auto Calc.
Metals Solids Acid Extr. ICPMS	10	2021/09/24	2021/09/24	ATL SOP 00058	EPA 6020B R2 m
Metals Solids Acid Extr. ICPMS	7	2021/09/27	2021/09/27	ATL SOP 00058	EPA 6020B R2 m
Moisture	10	N/A	2021/09/23	ATL SOP 00001	OMOE Handbook 1983 m
Moisture	4	N/A	2021/09/24	ATL SOP 00001	OMOE Handbook 1983 m
Moisture	3	N/A	2021/09/28	ATL SOP 00001	OMOE Handbook 1983 m
PAH in sediment by GC/MS (Low Level) (1)	1	2021/09/24	2021/09/25	ATL SOP 00102	EPA 8270E R6 m
PAH in sediment by GC/MS (Low Level) (1)	16	2021/09/24	2021/09/26	ATL SOP 00102	EPA 8270E R6 m
PCB in Sediment by GC-ECD (low level)	17	2021/09/24	2021/09/27	ATL SOP 00106	EPA 8082A m
PCB Aroclor sum (low level sediment)	14	N/A	2021/09/27	N/A	Auto Calc.
PCB Aroclor sum (low level sediment)	3	N/A	2021/09/28	N/A	Auto Calc.
Particle size in solids (pipette&sieve) (2)	17	N/A	2021/09/28	ATL SOP 00012	MSAMS'78/WREP-125R3m
Total Carbon in Solids by Ind.	17	2021/09/28	2021/09/28	ATL SOP 00044	LECO203601224 1991 m
TIC in soil	17	2021/09/21	2021/09/28	ATL SOP 00044	LECO203601224 1991m
Total Organic Carbon in Soil	10	2021/09/23	2021/09/27	ATL SOP 00044	LECO203601224 1991 m
Total Organic Carbon in Soil	7	2021/09/27	2021/09/27	ATL SOP 00044	LECO203601224 1991 m

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas 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. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas has been retained to provide analysis of samples provided by the Client using the testing methodology referenced in this report.



Your P.O. #: 24557  
Your Project #: 1900182.118  
Site Location: Cheticamp Entrance Channel

**Attention: Alexandra Stevenson**

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

Your C.O.C. #: 843213-01-01, 843213-02-01, 843213-03-01

**Report Date: 2021/09/28**

Report #: R6830887

Version: 2 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C1R1907**

**Received: 2021/09/21, 12:24**

Interpretation and use of test results are the sole responsibility of the Client and are not within the scope of services provided by Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

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. When sampling is not conducted by Bureau Veritas, results relate to the supplied 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) Soils are reported on a dry weight basis unless otherwise specified.

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

**Encryption Key**

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

Keri Mackay, Customer Experience Team Lead

Email: Keri.MACKAY@bureauveritas.com

Phone# (902)420-0203 Ext:294

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BUREAU  
VERITASBV Labs Job #: C1R1907  
Report Date: 2021/09/28Englobe Corp  
Client Project #: 1900182.118  
Site Location: Cheticamp Entrance Channel  
Your P.O. #: 24557**ATLANTIC TOTAL ORGANIC/INORGANIC CARBON (SOIL)**

<b>BV Labs ID</b>		QSB951			QSB951			QSB952	QSB953		
<b>Sampling Date</b>		2021/09/15			2021/09/15			2021/09/16	2021/09/16		
<b>COC Number</b>		843213-01-01			843213-01-01			843213-01-01	843213-01-01		
	<b>UNITS</b>	<b>C1-A</b>	<b>RDL</b>	<b>QC Batch</b>	<b>C1-A Lab-Dup</b>	<b>RDL</b>	<b>QC Batch</b>	<b>C2-A</b>	<b>C2-B</b>	<b>RDL</b>	<b>QC Batch</b>

**Inorganics**

Total Inorganic Carbon (C)	g/kg	1.9	0.5	7590835				1.7	1.6	0.5	7590835
Organic Carbon (TOC)	g/kg	3.8	0.50	7595856				3.1	2.8	0.50	7595856
Total Carbon-combustion IR	g/kg	5.7	0.50	7604060	5.4	0.50	7604060	4.8	4.5	0.50	7604060

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

<b>BV Labs ID</b>		QSB954	QSB955	QSB956	QSB957	QSB980	QSB981		
<b>Sampling Date</b>		2021/09/16	2021/09/19	2021/09/19	2021/09/17	2021/09/17	2021/09/17		
<b>COC Number</b>		843213-01-01	843213-01-01	843213-01-01	843213-01-01	843213-02-01	843213-02-01		
	<b>UNITS</b>	<b>C2-C</b>	<b>C3-A</b>	<b>C3-B</b>	<b>C4-A</b>	<b>C5-A</b>	<b>C5-B</b>	<b>RDL</b>	<b>QC Batch</b>

**Inorganics**

Total Inorganic Carbon (C)	g/kg	3.6	3.2	3.3	1.1	<0.5	3.2	0.5	7590835
Organic Carbon (TOC)	g/kg	2.2	1.6	1.5	1.8	7.2	5.2	0.50	7595856
Total Carbon-combustion IR	g/kg	5.8	4.8	4.7	2.9	7.1	8.4	0.50	7604060

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

<b>BV Labs ID</b>		QSB982		QSB983	QSB984			QSB984		
<b>Sampling Date</b>		2021/09/17		2021/09/17	2021/09/17			2021/09/17		
<b>COC Number</b>		843213-02-01		843213-02-01	843213-02-01			843213-02-01		
	<b>UNITS</b>	<b>C6-A</b>	<b>QC Batch</b>	<b>C6-B</b>	<b>C7-A</b>	<b>RDL</b>	<b>QC Batch</b>	<b>C7-A Lab-Dup</b>	<b>RDL</b>	<b>QC Batch</b>

**Inorganics**

Total Inorganic Carbon (C)	g/kg	1.8	7590835	1.2	0.5	0.5	7590835			
Organic Carbon (TOC)	g/kg	1.7	7595856	2.2	1.0	0.50	7601700	0.65	0.50	7601700
Total Carbon-combustion IR	g/kg	3.6	7604060	3.3	1.6	0.50	7604060			

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate





BUREAU  
VERITAS

BV Labs Job #: C1R1907  
Report Date: 2021/09/28

Englobe Corp  
Client Project #: 1900182.118  
Site Location: Cheticamp Entrance Channel  
Your P.O. #: 24557

### ATLANTIC TOTAL ORGANIC/INORGANIC CARBON (SOIL)

BV Labs ID		QSB985	QSC007	QSC008	QSC009	QSC010		
Sampling Date		2021/09/17	2021/09/17	2021/09/17	2021/09/17	2021/09/17		
COC Number		843213-02-01	843213-03-01	843213-03-01	843213-03-01	843213-03-01		
	UNITS	C7-B	C7-C	C8-A	C8-B	C8-C	RDL	QC Batch
<b>Inorganics</b>								
Total Inorganic Carbon (C)	g/kg	1.0	1.4	1.3	1.7	2.1	0.5	7590835
Organic Carbon (TOC)	g/kg	1.1	1.1	1.3	0.83	2.3	0.50	7601700
Total Carbon-combustion IR	g/kg	2.1	2.5	2.7	2.6	4.5	0.50	7604060
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



BUREAU  
VERITAS

BV Labs Job #: C1R1907  
Report Date: 2021/09/28

Englobe Corp  
Client Project #: 1900182.118  
Site Location: Cheticamp Entrance Channel  
Your P.O. #: 24557

### RESULTS OF ANALYSES OF SOIL

BV Labs ID		QSB951	QSB952	QSB953	QSB954	QSB955		
Sampling Date		2021/09/15	2021/09/16	2021/09/16	2021/09/16	2021/09/19		
COC Number		843213-01-01	843213-01-01	843213-01-01	843213-01-01	843213-01-01		
	UNITS	C1-A	C2-A	C2-B	C2-C	C3-A	RDL	QC Batch
<b>Inorganics</b>								
Moisture	%	20	21	20	20	13	1.0	7595160
< -1 Phi (2 mm)	%	97	78	99	92 (1)	59	0.10	7595067
< 0 Phi (1 mm)	%	96	74	98 (1)	88 (1)	49	0.10	7595067
< +1 Phi (0.5 mm)	%	93	70	97 (1)	84 (1)	44	0.10	7595067
< +2 Phi (0.25 mm)	%	60	50	68	57	27	0.10	7595067
< +3 Phi (0.12 mm)	%	18	13	11	11	7.0	0.10	7595067
< +4 Phi (0.062 mm)	%	6.8	5.5	4.4	4.8	2.9	0.10	7595067
< +5 Phi (0.031 mm)	%	4.3	4.0	3.5	3.8	2.3	0.10	7595067
< +6 Phi (0.016 mm)	%	3.5	3.3	3.0	3.2	1.8	0.10	7595067
< +7 Phi (0.0078 mm)	%	2.7	2.5	2.2	2.5	1.3	0.10	7595067
< +8 Phi (0.0039 mm)	%	2.4	2.3	1.9	2.2	1.2	0.10	7595067
< +9 Phi (0.0020 mm)	%	2.0	1.9	1.6	1.7	1.1	0.10	7595067
Gravel	%	3.1	22	1.2	8.5	41	0.10	7595067
Sand	%	90	72	94	87	56	0.10	7595067
Silt	%	4.5	3.2	2.4	2.6	1.7	0.10	7595067
Clay	%	2.4	2.3	1.9	2.2	1.2	0.10	7595067
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								
(1) PSA sample observation comment: Fraction contained shells								

BUREAU  
VERITASBV Labs Job #: C1R1907  
Report Date: 2021/09/28Englobe Corp  
Client Project #: 1900182.118  
Site Location: Cheticamp Entrance Channel  
Your P.O. #: 24557

## RESULTS OF ANALYSES OF SOIL

BV Labs ID		QSB955			QSB956	QSB957	QSB980	QSB981		
Sampling Date		2021/09/19			2021/09/19	2021/09/17	2021/09/17	2021/09/17		
COC Number		843213-01-01			843213-01-01	843213-01-01	843213-02-01	843213-02-01		
	UNITS	C3-A Lab-Dup	RDL	QC Batch	C3-B	C4-A	C5-A	C5-B	RDL	QC Batch
<b>Inorganics</b>										
Moisture	%				14	19	26	25	1.0	7595160
< -1 Phi (2 mm)	%	54	0.10	7595067	48	81	99 (1)	100 (1)	0.10	7595067
< 0 Phi (1 mm)	%	45	0.10	7595067	37	74	99 (1)	99 (1)	0.10	7595067
< +1 Phi (0.5 mm)	%	41	0.10	7595067	31	72	99 (1)	99 (1)	0.10	7595067
< +2 Phi (0.25 mm)	%	26	0.10	7595067	22	60	91 (1)	91 (1)	0.10	7595067
< +3 Phi (0.12 mm)	%	6.2	0.10	7595067	9.3	13	26	21	0.10	7595067
< +4 Phi (0.062 mm)	%	2.5	0.10	7595067	4.5	3.9	7.1	6.2	0.10	7595067
< +5 Phi (0.031 mm)	%	1.9	0.10	7595067	3.3	3.3	5.7	5.4	0.10	7595067
< +6 Phi (0.016 mm)	%	1.5	0.10	7595067	2.3	2.7	4.7	4.5	0.10	7595067
< +7 Phi (0.0078 mm)	%	1.2	0.10	7595067	1.5	2.1	3.6	3.4	0.10	7595067
< +8 Phi (0.0039 mm)	%	1.1	0.10	7595067	1.3	2.0	3.2	3.1	0.10	7595067
< +9 Phi (0.0020 mm)	%	1.0	0.10	7595067	1.1	1.7	2.7	2.6	0.10	7595067
Gravel	%	46	0.10	7595067	52	19	0.51	0.36	0.10	7595067
Sand	%	52	0.10	7595067	43	77	92	93	0.10	7595067
Silt	%	1.4	0.10	7595067	3.1	1.9	3.9	3.1	0.10	7595067
Clay	%	1.1	0.10	7595067	1.3	2.0	3.2	3.1	0.10	7595067

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

(1) PSA sample observation comment: Fraction contained organic matter

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Site Location: Cheticamp Entrance Channel  
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## RESULTS OF ANALYSES OF SOIL

BV Labs ID		QSB982		QSB983	QSB984	QSB985		QSC007		
Sampling Date		2021/09/17		2021/09/17	2021/09/17	2021/09/17		2021/09/17		
COC Number		843213-02-01		843213-02-01	843213-02-01	843213-02-01		843213-03-01		
	UNITS	C6-A	QC Batch	C6-B	C7-A	C7-B	QC Batch	C7-C	RDL	QC Batch

<b>Inorganics</b>										
Moisture	%	25	7595160	22	22	20	7601846	22	1.0	7595421
< -1 Phi (2 mm)	%	100 (1)	7595067	99 (2)	100 (1)	100	7595067	99 (1)	0.10	7595067
< 0 Phi (1 mm)	%	99 (3)	7595067	99 (3)	100 (1)	99	7595067	99 (1)	0.10	7595067
< +1 Phi (0.5 mm)	%	99 (3)	7595067	99 (3)	99 (1)	99	7595067	99 (1)	0.10	7595067
< +2 Phi (0.25 mm)	%	96 (3)	7595067	96 (3)	98	97	7595067	96 (1)	0.10	7595067
< +3 Phi (0.12 mm)	%	30	7595067	29	28	32	7595067	31	0.10	7595067
< +4 Phi (0.062 mm)	%	6.7	7595067	7.2	5.1	5.5	7595067	6.4	0.10	7595067
< +5 Phi (0.031 mm)	%	5.3	7595067	6.1	4.3	4.7	7595067	5.2	0.10	7595067
< +6 Phi (0.016 mm)	%	3.9	7595067	4.8	3.3	3.6	7595067	4.1	0.10	7595067
< +7 Phi (0.0078 mm)	%	3.0	7595067	3.5	2.5	2.8	7595067	3.1	0.10	7595067
< +8 Phi (0.0039 mm)	%	2.6	7595067	3.1	2.3	2.5	7595067	2.8	0.10	7595067
< +9 Phi (0.0020 mm)	%	2.0	7595067	2.5	2.0	2.1	7595067	2.4	0.10	7595067
Gravel	%	0.46	7595067	0.54	0.14	0.44	7595067	0.75	0.10	7595067
Sand	%	93	7595067	92	95	94	7595067	93	0.10	7595067
Silt	%	4.1	7595067	4.1	2.8	2.9	7595067	3.6	0.10	7595067
Clay	%	2.6	7595067	3.1	2.3	2.5	7595067	2.8	0.10	7595067

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

(1) PSA sample observation comment: Fraction contained shells

(2) PSA sample observation comment: Fraction contained organic matter

(3) PSA sample observation comment: Fraction contained organic matter and shells



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### RESULTS OF ANALYSES OF SOIL

BV Labs ID		QSC008	QSC009	QSC010		
Sampling Date		2021/09/17	2021/09/17	2021/09/17		
COC Number		843213-03-01	843213-03-01	843213-03-01		
	UNITS	C8-A	C8-B	C8-C	RDL	QC Batch
<b>Inorganics</b>						
Moisture	%	19	21	22	1.0	7595421
< -1 Phi (2 mm)	%	98	99	99 (1)	0.10	7595067
< 0 Phi (1 mm)	%	97 (1)	99	98 (1)	0.10	7595067
< +1 Phi (0.5 mm)	%	96 (1)	98 (1)	98 (1)	0.10	7595067
< +2 Phi (0.25 mm)	%	90	95 (1)	95 (1)	0.10	7595067
< +3 Phi (0.12 mm)	%	28	32	35	0.10	7595067
< +4 Phi (0.062 mm)	%	5.5	7.8	9.0	0.10	7595067
< +5 Phi (0.031 mm)	%	4.4	5.4	6.3	0.10	7595067
< +6 Phi (0.016 mm)	%	3.5	4.1	5.1	0.10	7595067
< +7 Phi (0.0078 mm)	%	2.6	3.0	3.6	0.10	7595067
< +8 Phi (0.0039 mm)	%	2.5	2.7	3.4	0.10	7595067
< +9 Phi (0.0020 mm)	%	2.0	2.0	2.6	0.10	7595067
Gravel	%	2.4	0.66	1.3	0.10	7595067
Sand	%	92	92	90	0.10	7595067
Silt	%	3.0	5.2	5.6	0.10	7595067
Clay	%	2.5	2.7	3.4	0.10	7595067
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						
(1) PSA sample observation comment: Fraction contained shells						



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### ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

BV Labs ID		QSB951	QSB952	QSB953	QSB954	QSB955		
Sampling Date		2021/09/15	2021/09/16	2021/09/16	2021/09/16	2021/09/19		
COC Number		843213-01-01	843213-01-01	843213-01-01	843213-01-01	843213-01-01		
	UNITS	C1-A	C2-A	C2-B	C2-C	C3-A	RDL	QC Batch
<b>Metals</b>								
Acid Extractable Aluminum (Al)	mg/kg	2500	2400	1900	2400	3500	10	7598104
Acid Extractable Antimony (Sb)	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7598104
Acid Extractable Arsenic (As)	mg/kg	<2.0	<2.0	<2.0	<2.0	2.1	2.0	7598104
Acid Extractable Barium (Ba)	mg/kg	26	24	16	26	22	5.0	7598104
Acid Extractable Beryllium (Be)	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7598104
Acid Extractable Bismuth (Bi)	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7598104
Acid Extractable Boron (B)	mg/kg	<50	<50	<50	<50	<50	50	7598104
Acid Extractable Cadmium (Cd)	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	7598104
Acid Extractable Chromium (Cr)	mg/kg	5.6	6.3	4.6	5.6	9.7	2.0	7598104
Acid Extractable Cobalt (Co)	mg/kg	2.4	2.4	2.2	3.0	3.0	1.0	7598104
Acid Extractable Copper (Cu)	mg/kg	2.9	2.4	2.2	5.4	4.7	2.0	7598104
Acid Extractable Iron (Fe)	mg/kg	6500	6800	5500	6600	8800	50	7598104
Acid Extractable Lead (Pb)	mg/kg	3.4	4.0	2.6	3.1	6.7	0.50	7598104
Acid Extractable Lithium (Li)	mg/kg	6.5	7.0	4.9	6.3	9.1	2.0	7598104
Acid Extractable Manganese (Mn)	mg/kg	310	310	290	330	300	2.0	7598104
Acid Extractable Mercury (Hg)	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7598104
Acid Extractable Molybdenum (Mo)	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7598104
Acid Extractable Nickel (Ni)	mg/kg	15	4.7	3.9	4.5	6.8	2.0	7598104
Acid Extractable Rubidium (Rb)	mg/kg	2.4	2.2	2.0	2.2	2.3	2.0	7598104
Acid Extractable Selenium (Se)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7598104
Acid Extractable Silver (Ag)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7598104
Acid Extractable Strontium (Sr)	mg/kg	22	23	29	29	11	5.0	7598104
Acid Extractable Thallium (Tl)	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7598104
Acid Extractable Tin (Sn)	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7598104
Acid Extractable Uranium (U)	mg/kg	0.34	0.31	0.20	0.25	0.50	0.10	7598104
Acid Extractable Vanadium (V)	mg/kg	7.5	7.4	5.9	7.3	12	2.0	7598104
Acid Extractable Zinc (Zn)	mg/kg	20	20	16	21	36	5.0	7598104
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



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Client Project #: 1900182.118  
Site Location: Cheticamp Entrance Channel  
Your P.O. #: 24557**ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)**

BV Labs ID		QSB956	QSB957	QSB980	QSB981	QSB982		
Sampling Date		2021/09/19	2021/09/17	2021/09/17	2021/09/17	2021/09/17		
COC Number		843213-01-01	843213-01-01	843213-02-01	843213-02-01	843213-02-01		
	UNITS	C3-B	C4-A	C5-A	C5-B	C6-A	RDL	QC Batch
<b>Metals</b>								
Acid Extractable Aluminum (Al)	mg/kg	4100	3000	2700	2600	3100	10	7598104
Acid Extractable Antimony (Sb)	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7598104
Acid Extractable Arsenic (As)	mg/kg	3.0	<2.0	<2.0	<2.0	<2.0	2.0	7598104
Acid Extractable Barium (Ba)	mg/kg	24	23	23	24	31	5.0	7598104
Acid Extractable Beryllium (Be)	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7598104
Acid Extractable Bismuth (Bi)	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7598104
Acid Extractable Boron (B)	mg/kg	<50	<50	<50	<50	<50	50	7598104
Acid Extractable Cadmium (Cd)	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	7598104
Acid Extractable Chromium (Cr)	mg/kg	11	6.2	5.9	5.7	6.6	2.0	7598104
Acid Extractable Cobalt (Co)	mg/kg	4.2	2.8	2.9	2.8	3.2	1.0	7598104
Acid Extractable Copper (Cu)	mg/kg	26	3.6	3.7	3.7	4.2	2.0	7598104
Acid Extractable Iron (Fe)	mg/kg	11000	7800	6800	6500	7600	50	7598104
Acid Extractable Lead (Pb)	mg/kg	8.1	6.4	5.6	6.0	5.0	0.50	7598104
Acid Extractable Lithium (Li)	mg/kg	13	8.2	6.7	6.2	8.0	2.0	7598104
Acid Extractable Manganese (Mn)	mg/kg	290	220	170	180	170	2.0	7598104
Acid Extractable Mercury (Hg)	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7598104
Acid Extractable Molybdenum (Mo)	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7598104
Acid Extractable Nickel (Ni)	mg/kg	7.8	5.8	5.8	5.6	6.6	2.0	7598104
Acid Extractable Rubidium (Rb)	mg/kg	3.1	2.5	2.8	2.6	3.1	2.0	7598104
Acid Extractable Selenium (Se)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7598104
Acid Extractable Silver (Ag)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7598104
Acid Extractable Strontium (Sr)	mg/kg	10	8.8	19	22	15	5.0	7598104
Acid Extractable Thallium (Tl)	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7598104
Acid Extractable Tin (Sn)	mg/kg	1.8	<1.0	<1.0	<1.0	<1.0	1.0	7598104
Acid Extractable Uranium (U)	mg/kg	0.50	0.39	0.37	0.43	0.33	0.10	7598104
Acid Extractable Vanadium (V)	mg/kg	14	9.8	8.9	8.3	9.6	2.0	7598104
Acid Extractable Zinc (Zn)	mg/kg	60	29	28	26	28	5.0	7598104
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



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### ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

BV Labs ID		QSB983	QSB984	QSB985	QSC007	QSC008		
Sampling Date		2021/09/17	2021/09/17	2021/09/17	2021/09/17	2021/09/17		
COC Number		843213-02-01	843213-02-01	843213-02-01	843213-03-01	843213-03-01		
	UNITS	C6-B	C7-A	C7-B	C7-C	C8-A	RDL	QC Batch
<b>Metals</b>								
Acid Extractable Aluminum (Al)	mg/kg	2900	2600	3000	2900	2700	10	7601659
Acid Extractable Antimony (Sb)	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7601659
Acid Extractable Arsenic (As)	mg/kg	<2.0	2.1	2.2	<2.0	2.0	2.0	7601659
Acid Extractable Barium (Ba)	mg/kg	23	34	36	25	34	5.0	7601659
Acid Extractable Beryllium (Be)	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7601659
Acid Extractable Bismuth (Bi)	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7601659
Acid Extractable Boron (B)	mg/kg	<50	<50	<50	<50	<50	50	7601659
Acid Extractable Cadmium (Cd)	mg/kg	<0.30	<0.30	<0.30	<0.30	<0.30	0.30	7601659
Acid Extractable Chromium (Cr)	mg/kg	5.7	6.1	6.6	6.1	6.6	2.0	7601659
Acid Extractable Cobalt (Co)	mg/kg	2.8	2.7	3.0	2.9	2.8	1.0	7601659
Acid Extractable Copper (Cu)	mg/kg	3.3	3.4	3.6	4.1	3.5	2.0	7601659
Acid Extractable Iron (Fe)	mg/kg	6700	6900	7600	6900	7400	50	7601659
Acid Extractable Lead (Pb)	mg/kg	4.7	3.5	4.1	4.2	5.2	0.50	7601659
Acid Extractable Lithium (Li)	mg/kg	6.4	5.7	7.0	6.4	5.8	2.0	7601659
Acid Extractable Manganese (Mn)	mg/kg	150	170	180	170	200	2.0	7601659
Acid Extractable Mercury (Hg)	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7601659
Acid Extractable Molybdenum (Mo)	mg/kg	<2.0	<2.0	<2.0	<2.0	<2.0	2.0	7601659
Acid Extractable Nickel (Ni)	mg/kg	5.6	5.3	6.4	5.6	5.6	2.0	7601659
Acid Extractable Rubidium (Rb)	mg/kg	3.0	2.5	2.9	3.0	2.6	2.0	7601659
Acid Extractable Selenium (Se)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7601659
Acid Extractable Silver (Ag)	mg/kg	<0.50	<0.50	<0.50	<0.50	<0.50	0.50	7601659
Acid Extractable Strontium (Sr)	mg/kg	15	8.5	13	16	9.0	5.0	7601659
Acid Extractable Thallium (Tl)	mg/kg	<0.10	<0.10	<0.10	<0.10	<0.10	0.10	7601659
Acid Extractable Tin (Sn)	mg/kg	<1.0	<1.0	<1.0	<1.0	<1.0	1.0	7601659
Acid Extractable Uranium (U)	mg/kg	0.33	0.26	0.26	0.28	0.28	0.10	7601659
Acid Extractable Vanadium (V)	mg/kg	8.5	9.2	9.2	8.4	9.5	2.0	7601659
Acid Extractable Zinc (Zn)	mg/kg	22	18	21	21	19	5.0	7601659
RDL = Reportable Detection Limit								
QC Batch = Quality Control Batch								



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### ELEMENTS BY ATOMIC SPECTROSCOPY (SOIL)

BV Labs ID		QSC009	QSC010		
Sampling Date		2021/09/17	2021/09/17		
COC Number		843213-03-01	843213-03-01		
	UNITS	C8-B	C8-C	RDL	QC Batch
<b>Metals</b>					
Acid Extractable Aluminum (Al)	mg/kg	2900	3300	10	7601659
Acid Extractable Antimony (Sb)	mg/kg	<2.0	<2.0	2.0	7601659
Acid Extractable Arsenic (As)	mg/kg	2.3	2.4	2.0	7601659
Acid Extractable Barium (Ba)	mg/kg	32	33	5.0	7601659
Acid Extractable Beryllium (Be)	mg/kg	<1.0	<1.0	1.0	7601659
Acid Extractable Bismuth (Bi)	mg/kg	<2.0	<2.0	2.0	7601659
Acid Extractable Boron (B)	mg/kg	<50	<50	50	7601659
Acid Extractable Cadmium (Cd)	mg/kg	<0.30	<0.30	0.30	7601659
Acid Extractable Chromium (Cr)	mg/kg	6.5	7.1	2.0	7601659
Acid Extractable Cobalt (Co)	mg/kg	3.2	3.3	1.0	7601659
Acid Extractable Copper (Cu)	mg/kg	4.3	4.6	2.0	7601659
Acid Extractable Iron (Fe)	mg/kg	7600	8000	50	7601659
Acid Extractable Lead (Pb)	mg/kg	4.5	5.7	0.50	7601659
Acid Extractable Lithium (Li)	mg/kg	6.4	7.8	2.0	7601659
Acid Extractable Manganese (Mn)	mg/kg	190	190	2.0	7601659
Acid Extractable Mercury (Hg)	mg/kg	<0.10	<0.10	0.10	7601659
Acid Extractable Molybdenum (Mo)	mg/kg	<2.0	<2.0	2.0	7601659
Acid Extractable Nickel (Ni)	mg/kg	5.8	6.7	2.0	7601659
Acid Extractable Rubidium (Rb)	mg/kg	2.9	3.5	2.0	7601659
Acid Extractable Selenium (Se)	mg/kg	<0.50	<0.50	0.50	7601659
Acid Extractable Silver (Ag)	mg/kg	<0.50	<0.50	0.50	7601659
Acid Extractable Strontium (Sr)	mg/kg	13	23	5.0	7601659
Acid Extractable Thallium (Tl)	mg/kg	<0.10	<0.10	0.10	7601659
Acid Extractable Tin (Sn)	mg/kg	<1.0	<1.0	1.0	7601659
Acid Extractable Uranium (U)	mg/kg	0.27	0.31	0.10	7601659
Acid Extractable Vanadium (V)	mg/kg	9.4	9.9	2.0	7601659
Acid Extractable Zinc (Zn)	mg/kg	25	31	5.0	7601659
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



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### SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

BV Labs ID		QSB951			QSB951			QSB952		
Sampling Date		2021/09/15			2021/09/15			2021/09/16		
COC Number		843213-01-01			843213-01-01			843213-01-01		
	UNITS	C1-A	RDL	QC Batch	C1-A Lab-Dup	RDL	QC Batch	C2-A	RDL	QC Batch
<b>Polyaromatic Hydrocarbons</b>										
1-Methylnaphthalene	mg/kg	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841
2-Methylnaphthalene	mg/kg	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841
Acenaphthene	mg/kg	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841
Acenaphthylene	mg/kg	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841
Anthracene	mg/kg	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841
Benzo(a)anthracene	mg/kg	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841
Benzo(a)pyrene	mg/kg	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841
Benzo(b)fluoranthene	mg/kg	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841
Benzo(b/j)fluoranthene	mg/kg	<0.010	0.010	7589535				<0.010	0.010	7589535
Benzo(g,h,i)perylene	mg/kg	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841
Benzo(j)fluoranthene	mg/kg	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841
Benzo(k)fluoranthene	mg/kg	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841
Chrysene	mg/kg	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841
Dibenzo(a,h)anthracene	mg/kg	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841
Fluoranthene	mg/kg	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841
Fluorene	mg/kg	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841
Naphthalene	mg/kg	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841
Perylene	mg/kg	0.0070	0.0050	7597841	0.0073	0.0050	7597841	<0.0050	0.0050	7597841
Phenanthrene	mg/kg	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841
Pyrene	mg/kg	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841	<0.0050	0.0050	7597841
<b>Surrogate Recovery (%)</b>										
D10-Anthracene	%	94		7597841	94		7597841	94		7597841
D14-Terphenyl	%	81		7597841	74		7597841	63		7597841
D8-Acenaphthylene	%	109		7597841	119		7597841	115		7597841
RDL = Reportable Detection Limit										
QC Batch = Quality Control Batch										
Lab-Dup = Laboratory Initiated Duplicate										

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Client Project #: 1900182.118  
Site Location: Cheticamp Entrance Channel  
Your P.O. #: 24557

## SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

BV Labs ID		QSB953	QSB954	QSB955	QSB956	QSB957	QSB980		
Sampling Date		2021/09/16	2021/09/16	2021/09/19	2021/09/19	2021/09/17	2021/09/17		
COC Number		843213-01-01	843213-01-01	843213-01-01	843213-01-01	843213-01-01	843213-02-01		
	UNITS	C2-B	C2-C	C3-A	C3-B	C4-A	C5-A	RDL	QC Batch
<b>Polyaromatic Hydrocarbons</b>									
1-Methylnaphthalene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
2-Methylnaphthalene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0071	0.0050	7597841
Acenaphthene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Acenaphthylene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Anthracene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.015	0.0050	7597841
Benzo(a)anthracene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0081	0.0050	7597841
Benzo(a)pyrene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Benzo(b)fluoranthene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Benzo(b/j)fluoranthene	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7589535
Benzo(g,h,i)perylene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Benzo(j)fluoranthene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Benzo(k)fluoranthene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Chrysene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.010	0.0050	7597841
Dibenzo(a,h)anthracene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Fluoranthene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	0.0053	0.039	0.0050	7597841
Fluorene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Naphthalene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0068	0.0050	7597841
Perylene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.011	0.0050	7597841
Phenanthrene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.023	0.0050	7597841
Pyrene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.030	0.0050	7597841
<b>Surrogate Recovery (%)</b>									
D10-Anthracene	%	90	98	92	93	94	103		7597841
D14-Terphenyl	%	81	81	72	78	73	92		7597841
D8-Acenaphthylene	%	105	116	98	126	115	115		7597841
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									

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## SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

BV Labs ID		QSB981	QSB982	QSB983	QSB984	QSB985	QSC007		
Sampling Date		2021/09/17	2021/09/17	2021/09/17	2021/09/17	2021/09/17	2021/09/17		
COC Number		843213-02-01	843213-02-01	843213-02-01	843213-02-01	843213-02-01	843213-03-01		
	UNITS	C5-B	C6-A	C6-B	C7-A	C7-B	C7-C	RDL	QC Batch
<b>Polyaromatic Hydrocarbons</b>									
1-Methylnaphthalene	mg/kg	0.0082	<0.0050	<0.0050	<0.0050	0.0076	<0.0050	0.0050	7597841
2-Methylnaphthalene	mg/kg	0.011	<0.0050	<0.0050	<0.0050	0.010	0.0067	0.0050	7597841
Acenaphthene	mg/kg	0.0068	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Acenaphthylene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Anthracene	mg/kg	0.015	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Benzo(a)anthracene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Benzo(a)pyrene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Benzo(b)fluoranthene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Benzo(b/j)fluoranthene	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7589535
Benzo(g,h,i)perylene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Benzo(j)fluoranthene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Benzo(k)fluoranthene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Chrysene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Dibenzo(a,h)anthracene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Fluoranthene	mg/kg	0.028	0.014	0.010	<0.0050	<0.0050	0.0092	0.0050	7597841
Fluorene	mg/kg	0.016	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Naphthalene	mg/kg	0.0091	<0.0050	<0.0050	<0.0050	<0.0050	<0.0050	0.0050	7597841
Perylene	mg/kg	0.013	<0.0050	0.0072	<0.0050	<0.0050	0.0078	0.0050	7597841
Phenanthrene	mg/kg	0.047	0.0071	0.0092	<0.0050	<0.0050	0.0067	0.0050	7597841
Pyrene	mg/kg	0.017	0.0090	0.0091	<0.0050	<0.0050	0.0078	0.0050	7597841
<b>Surrogate Recovery (%)</b>									
D10-Anthracene	%	93	96	90	91	110	95		7597841
D14-Terphenyl	%	71	68	66	84	55	75		7597841
D8-Acenaphthylene	%	115	114	120	112	118	112		7597841
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									





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BV Labs Job #: C1R1907  
Report Date: 2021/09/28

Englobe Corp  
Client Project #: 1900182.118  
Site Location: Cheticamp Entrance Channel  
Your P.O. #: 24557

### SEMI-VOLATILE ORGANICS BY GC-MS (SOIL)

BV Labs ID		QSC008	QSC009	QSC010		
Sampling Date		2021/09/17	2021/09/17	2021/09/17		
COC Number		843213-03-01	843213-03-01	843213-03-01		
	UNITS	C8-A	C8-B	C8-C	RDL	QC Batch
<b>Polyaromatic Hydrocarbons</b>						
1-Methylnaphthalene	mg/kg	<0.0050	<0.0050	<0.0050	0.0050	7597841
2-Methylnaphthalene	mg/kg	<0.0050	<0.0050	0.0072	0.0050	7597841
Acenaphthene	mg/kg	<0.0050	<0.0050	<0.0050	0.0050	7597841
Acenaphthylene	mg/kg	<0.0050	<0.0050	<0.0050	0.0050	7597841
Anthracene	mg/kg	<0.0050	<0.0050	<0.0050	0.0050	7597841
Benzo(a)anthracene	mg/kg	<0.0050	<0.0050	0.0093	0.0050	7597841
Benzo(a)pyrene	mg/kg	<0.0050	<0.0050	<0.0050	0.0050	7597841
Benzo(b)fluoranthene	mg/kg	<0.0050	<0.0050	0.0099	0.0050	7597841
Benzo(b,j)fluoranthene	mg/kg	<0.010	<0.010	<0.010	0.010	7589535
Benzo(g,h,i)perylene	mg/kg	<0.0050	<0.0050	<0.0050	0.0050	7597841
Benzo(j)fluoranthene	mg/kg	<0.0050	<0.0050	<0.0050	0.0050	7597841
Benzo(k)fluoranthene	mg/kg	<0.0050	<0.0050	<0.0050	0.0050	7597841
Chrysene	mg/kg	<0.0050	<0.0050	0.013	0.0050	7597841
Dibenzo(a,h)anthracene	mg/kg	<0.0050	<0.0050	<0.0050	0.0050	7597841
Fluoranthene	mg/kg	<0.0050	<0.0050	0.021	0.0050	7597841
Fluorene	mg/kg	<0.0050	<0.0050	<0.0050	0.0050	7597841
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0050	<0.0050	<0.0050	0.0050	7597841
Naphthalene	mg/kg	<0.0050	<0.0050	<0.0050	0.0050	7597841
Perylene	mg/kg	<0.0050	<0.0050	0.0073	0.0050	7597841
Phenanthrene	mg/kg	<0.0050	<0.0050	0.013	0.0050	7597841
Pyrene	mg/kg	<0.0050	<0.0050	0.018	0.0050	7597841
<b>Surrogate Recovery (%)</b>						
D10-Anthracene	%	93	103	91		7597841
D14-Terphenyl	%	63	52	73		7597841
D8-Acenaphthylene	%	108	122	117		7597841
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



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BV Labs Job #: C1R1907  
Report Date: 2021/09/28

Englobe Corp  
Client Project #: 1900182.118  
Site Location: Cheticamp Entrance Channel  
Your P.O. #: 24557

### POLYCHLORINATED BIPHENYLS BY GC-ECD (SOIL)

BV Labs ID		QSB951			QSB951			QSB952	QSB953		
Sampling Date		2021/09/15			2021/09/15			2021/09/16	2021/09/16		
COC Number		843213-01-01			843213-01-01			843213-01-01	843213-01-01		
	UNITS	C1-A	RDL	QC Batch	C1-A Lab-Dup	RDL	QC Batch	C2-A	C2-B	RDL	QC Batch

<b>PCBs</b>											
Aroclor 1016	mg/kg	<0.010	0.010	7597871	<0.010	0.010	7597871	<0.010	<0.010	0.010	7597871
Aroclor 1221	mg/kg	<0.010	0.010	7597871	<0.010	0.010	7597871	<0.010	<0.010	0.010	7597871
Aroclor 1232	mg/kg	<0.010	0.010	7597871	<0.010	0.010	7597871	<0.010	<0.010	0.010	7597871
Aroclor 1248	mg/kg	<0.010	0.010	7597871	<0.010	0.010	7597871	<0.010	<0.010	0.010	7597871
Aroclor 1242	mg/kg	<0.010	0.010	7597871	<0.010	0.010	7597871	<0.010	<0.010	0.010	7597871
Aroclor 1254	mg/kg	<0.010	0.010	7597871	<0.010	0.010	7597871	<0.010	<0.010	0.010	7597871
Aroclor 1260	mg/kg	<0.010	0.010	7597871	<0.010	0.010	7597871	<0.010	<0.010	0.010	7597871
Calculated Total PCB	mg/kg	<0.010	0.010	7589762				<0.010	<0.010	0.010	7589762
<b>Surrogate Recovery (%)</b>											
Decachlorobiphenyl	%	100		7597871	90		7597871	91	87		7597871
RDL = Reportable Detection Limit											
QC Batch = Quality Control Batch											
Lab-Dup = Laboratory Initiated Duplicate											

BV Labs ID		QSB954	QSB955	QSB956	QSB957	QSB980	QSB981		
Sampling Date		2021/09/16	2021/09/19	2021/09/19	2021/09/17	2021/09/17	2021/09/17		
COC Number		843213-01-01	843213-01-01	843213-01-01	843213-01-01	843213-02-01	843213-02-01		
	UNITS	C2-C	C3-A	C3-B	C4-A	C5-A	C5-B	RDL	QC Batch
<b>PCBs</b>									
Aroclor 1016	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7597871
Aroclor 1221	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7597871
Aroclor 1232	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7597871
Aroclor 1248	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7597871
Aroclor 1242	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7597871
Aroclor 1254	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7597871
Aroclor 1260	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7597871
Calculated Total PCB	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7589762
<b>Surrogate Recovery (%)</b>									
Decachlorobiphenyl	%	96	93	92	94	91	86		7597871
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									

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Site Location: Cheticamp Entrance Channel  
Your P.O. #: 24557**POLYCHLORINATED BIPHENYLS BY GC-ECD (SOIL)**

BV Labs ID		QSB982	QSB983	QSB984	QSB985	QSC007	QSC008		
Sampling Date		2021/09/17	2021/09/17	2021/09/17	2021/09/17	2021/09/17	2021/09/17		
COC Number		843213-02-01	843213-02-01	843213-02-01	843213-02-01	843213-03-01	843213-03-01		
	UNITS	C6-A	C6-B	C7-A	C7-B	C7-C	C8-A	RDL	QC Batch
<b>PCBs</b>									
Aroclor 1016	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7597871
Aroclor 1221	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7597871
Aroclor 1232	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7597871
Aroclor 1248	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7597871
Aroclor 1242	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7597871
Aroclor 1254	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7597871
Aroclor 1260	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7597871
Calculated Total PCB	mg/kg	<0.010	<0.010	<0.010	<0.010	<0.010	<0.010	0.010	7589762
<b>Surrogate Recovery (%)</b>									
Decachlorobiphenyl	%	92	97	96	96	89	87		7597871
RDL = Reportable Detection Limit									
QC Batch = Quality Control Batch									

BV Labs ID		QSC009	QSC010		
Sampling Date		2021/09/17	2021/09/17		
COC Number		843213-03-01	843213-03-01		
	UNITS	C8-B	C8-C	RDL	QC Batch
<b>PCBs</b>					
Aroclor 1016	mg/kg	<0.010	<0.010	0.010	7597871
Aroclor 1221	mg/kg	<0.010	<0.010	0.010	7597871
Aroclor 1232	mg/kg	<0.010	<0.010	0.010	7597871
Aroclor 1248	mg/kg	<0.010	<0.010	0.010	7597871
Aroclor 1242	mg/kg	<0.010	<0.010	0.010	7597871
Aroclor 1254	mg/kg	<0.010	<0.010	0.010	7597871
Aroclor 1260	mg/kg	<0.010	<0.010	0.010	7597871
Calculated Total PCB	mg/kg	<0.010	<0.010	0.010	7589762
<b>Surrogate Recovery (%)</b>					
Decachlorobiphenyl	%	97	91		7597871
RDL = Reportable Detection Limit					
QC Batch = Quality Control Batch					



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BV Labs Job #: C1R1907  
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Your P.O. #: 24557

### GENERAL COMMENTS

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

Package 1	4.7°C
Package 2	12.7°C
Package 3	6.0°C

1 of 3 coolers was received >10°C at the lab for analysis.

**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
7595067	TPE	RPD [QSB955-01]	Gravel	2021/09/28	10		%	35
			Sand	2021/09/28	7.3		%	35
			Silt	2021/09/28	20		%	35
			Clay	2021/09/28	9.5		%	35
7595160	MNC	RPD	Moisture	2021/09/23	1.6		%	25
7595421	NLI	RPD	Moisture	2021/09/24	6.4		%	25
7595856	BBD	QC Standard	Organic Carbon (TOC)	2021/09/24		102	%	75 - 125
7595856	BBD	Method Blank	Organic Carbon (TOC)	2021/09/24	<0.50		g/kg	
7595856	BBD	RPD	Organic Carbon (TOC)	2021/09/24	16		%	35
7597841	LGE	Matrix Spike [QSB951-02]	D10-Anthracene	2021/09/26		95	%	50 - 130
			D14-Terphenyl	2021/09/26		80	%	50 - 130
			D8-Acenaphthylene	2021/09/26		111	%	50 - 130
			1-Methylnaphthalene	2021/09/26		92	%	50 - 130
			2-Methylnaphthalene	2021/09/26		91	%	50 - 130
			Acenaphthene	2021/09/26		102	%	50 - 130
			Acenaphthylene	2021/09/26		94	%	50 - 130
			Anthracene	2021/09/26		113	%	50 - 130
			Benzo(a)anthracene	2021/09/26		122	%	50 - 130
			Benzo(a)pyrene	2021/09/26		103	%	50 - 130
			Benzo(b)fluoranthene	2021/09/26		113	%	50 - 130
			Benzo(g,h,i)perylene	2021/09/26		97	%	50 - 130
			Benzo(j)fluoranthene	2021/09/26		108	%	50 - 130
			Benzo(k)fluoranthene	2021/09/26		109	%	50 - 130
			Chrysene	2021/09/26		123	%	50 - 130
			Dibenzo(a,h)anthracene	2021/09/26		74	%	50 - 130
			Fluoranthene	2021/09/26		90	%	50 - 130
			Fluorene	2021/09/26		115	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/09/26		76	%	50 - 130
			Naphthalene	2021/09/26		88	%	50 - 130
			Perylene	2021/09/26		97	%	50 - 130
			Phenanthrene	2021/09/26		108	%	50 - 130
			Pyrene	2021/09/26		113	%	50 - 130
7597841	LGE	Spiked Blank	D10-Anthracene	2021/09/25		95	%	50 - 130
			D14-Terphenyl	2021/09/25		68	%	50 - 130
			D8-Acenaphthylene	2021/09/25		116	%	50 - 130
			1-Methylnaphthalene	2021/09/25		92	%	50 - 130
			2-Methylnaphthalene	2021/09/25		94	%	50 - 130
			Acenaphthene	2021/09/25		99	%	50 - 130
			Acenaphthylene	2021/09/25		101	%	50 - 130
			Anthracene	2021/09/25		107	%	50 - 130
			Benzo(a)anthracene	2021/09/25		114	%	50 - 130
			Benzo(a)pyrene	2021/09/25		101	%	50 - 130
			Benzo(b)fluoranthene	2021/09/25		107	%	50 - 130
			Benzo(g,h,i)perylene	2021/09/25		98	%	50 - 130
			Benzo(j)fluoranthene	2021/09/25		106	%	50 - 130
			Benzo(k)fluoranthene	2021/09/25		104	%	50 - 130
			Chrysene	2021/09/25		120	%	50 - 130
			Dibenzo(a,h)anthracene	2021/09/25		91	%	50 - 130
			Fluoranthene	2021/09/25		96	%	50 - 130
			Fluorene	2021/09/25		109	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/09/25		92	%	50 - 130
			Naphthalene	2021/09/25		95	%	50 - 130
			Perylene	2021/09/25		98	%	50 - 130



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Your P.O. #: 24557

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7597841	LGE	Method Blank	Phenanthrene	2021/09/25		110	%	50 - 130
			Pyrene	2021/09/25		98	%	50 - 130
			D10-Anthracene	2021/09/25		97	%	50 - 130
			D14-Terphenyl	2021/09/25		79	%	50 - 130
			D8-Acenaphthylene	2021/09/25		113	%	50 - 130
			1-Methylnaphthalene	2021/09/25	<0.0050		mg/kg	
			2-Methylnaphthalene	2021/09/25	<0.0050		mg/kg	
			Acenaphthene	2021/09/25	<0.0050		mg/kg	
			Acenaphthylene	2021/09/25	<0.0050		mg/kg	
			Anthracene	2021/09/25	<0.0050		mg/kg	
			Benzo(a)anthracene	2021/09/25	<0.0050		mg/kg	
			Benzo(a)pyrene	2021/09/25	<0.0050		mg/kg	
			Benzo(b)fluoranthene	2021/09/25	<0.0050		mg/kg	
			Benzo(g,h,i)perylene	2021/09/25	<0.0050		mg/kg	
			Benzo(j)fluoranthene	2021/09/25	<0.0050		mg/kg	
			Benzo(k)fluoranthene	2021/09/25	<0.0050		mg/kg	
			Chrysene	2021/09/25	<0.0050		mg/kg	
			Dibenzo(a,h)anthracene	2021/09/25	<0.0050		mg/kg	
			Fluoranthene	2021/09/25	<0.0050		mg/kg	
			Fluorene	2021/09/25	<0.0050		mg/kg	
			Indeno(1,2,3-cd)pyrene	2021/09/25	<0.0050		mg/kg	
			Naphthalene	2021/09/25	<0.0050		mg/kg	
			Perylene	2021/09/25	<0.0050		mg/kg	
			Phenanthrene	2021/09/25	<0.0050		mg/kg	
			Pyrene	2021/09/25	<0.0050		mg/kg	
7597841	LGE	RPD [QSB951-02]	1-Methylnaphthalene	2021/09/26	NC		%	50
			2-Methylnaphthalene	2021/09/26	NC		%	50
			Acenaphthene	2021/09/26	NC		%	50
			Acenaphthylene	2021/09/26	NC		%	50
			Anthracene	2021/09/26	NC		%	50
			Benzo(a)anthracene	2021/09/26	NC		%	50
			Benzo(a)pyrene	2021/09/26	NC		%	50
			Benzo(b)fluoranthene	2021/09/26	NC		%	50
			Benzo(g,h,i)perylene	2021/09/26	NC		%	50
			Benzo(j)fluoranthene	2021/09/26	NC		%	50
			Benzo(k)fluoranthene	2021/09/26	NC		%	50
			Chrysene	2021/09/26	NC		%	50
			Dibenzo(a,h)anthracene	2021/09/26	NC		%	50
			Fluoranthene	2021/09/26	NC		%	50
			Fluorene	2021/09/26	NC		%	50
			Indeno(1,2,3-cd)pyrene	2021/09/26	NC		%	50
			Naphthalene	2021/09/26	NC		%	50
			Perylene	2021/09/26	3.5		%	50
			Phenanthrene	2021/09/26	NC		%	50
			Pyrene	2021/09/26	NC		%	50
7597871	APY	Matrix Spike [QSB951-02]	Decachlorobiphenyl	2021/09/27		96	%	70 - 130
			Aroclor 1254	2021/09/27		74	%	70 - 130
7597871	APY	Spiked Blank	Decachlorobiphenyl	2021/09/27		95	%	70 - 130
			Aroclor 1254	2021/09/27		75	%	70 - 130
7597871	APY	Method Blank	Decachlorobiphenyl	2021/09/27		87	%	70 - 130
			Aroclor 1016	2021/09/27	<0.010		mg/kg	
			Aroclor 1221	2021/09/27	<0.010		mg/kg	
			Aroclor 1232	2021/09/27	<0.010		mg/kg	





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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7597871	APY	RPD [QSB951-02]	Aroclor 1248	2021/09/27	<0.010		mg/kg	
			Aroclor 1242	2021/09/27	<0.010		mg/kg	
			Aroclor 1254	2021/09/27	<0.010		mg/kg	
			Aroclor 1260	2021/09/27	<0.010		mg/kg	
			Aroclor 1016	2021/09/27	NC		%	50
			Aroclor 1221	2021/09/27	NC		%	50
			Aroclor 1232	2021/09/27	NC		%	50
			Aroclor 1248	2021/09/27	NC		%	50
			Aroclor 1242	2021/09/27	NC		%	50
			Aroclor 1254	2021/09/27	NC		%	50
7598104	MLB	Matrix Spike	Aroclor 1260	2021/09/27	NC		%	50
			Acid Extractable Antimony (Sb)	2021/09/24		106	%	75 - 125
			Acid Extractable Arsenic (As)	2021/09/24		101	%	75 - 125
			Acid Extractable Barium (Ba)	2021/09/24		104	%	75 - 125
			Acid Extractable Beryllium (Be)	2021/09/24		96	%	75 - 125
			Acid Extractable Bismuth (Bi)	2021/09/24		101	%	75 - 125
			Acid Extractable Boron (B)	2021/09/24		96	%	75 - 125
			Acid Extractable Cadmium (Cd)	2021/09/24		104	%	75 - 125
			Acid Extractable Chromium (Cr)	2021/09/24		100	%	75 - 125
			Acid Extractable Cobalt (Co)	2021/09/24		100	%	75 - 125
			Acid Extractable Copper (Cu)	2021/09/24		103	%	75 - 125
			Acid Extractable Lead (Pb)	2021/09/24		99	%	75 - 125
			Acid Extractable Lithium (Li)	2021/09/24		102	%	75 - 125
			Acid Extractable Manganese (Mn)	2021/09/24		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2021/09/24		102	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2021/09/24		107	%	75 - 125
			Acid Extractable Nickel (Ni)	2021/09/24		101	%	75 - 125
			Acid Extractable Rubidium (Rb)	2021/09/24		101	%	75 - 125
			Acid Extractable Selenium (Se)	2021/09/24		107	%	75 - 125
			Acid Extractable Silver (Ag)	2021/09/24		102	%	75 - 125
			Acid Extractable Strontium (Sr)	2021/09/24		99	%	75 - 125
			Acid Extractable Thallium (Tl)	2021/09/24		102	%	75 - 125
			Acid Extractable Tin (Sn)	2021/09/24		108	%	75 - 125
			Acid Extractable Uranium (U)	2021/09/24		100	%	75 - 125
			Acid Extractable Vanadium (V)	2021/09/24		102	%	75 - 125
			Acid Extractable Zinc (Zn)	2021/09/24		102	%	75 - 125
7598104	MLB	Spiked Blank	Acid Extractable Antimony (Sb)	2021/09/24		101	%	75 - 125
			Acid Extractable Arsenic (As)	2021/09/24		99	%	75 - 125
			Acid Extractable Barium (Ba)	2021/09/24		96	%	75 - 125
			Acid Extractable Beryllium (Be)	2021/09/24		92	%	75 - 125
			Acid Extractable Bismuth (Bi)	2021/09/24		96	%	75 - 125
			Acid Extractable Boron (B)	2021/09/24		93	%	75 - 125
			Acid Extractable Cadmium (Cd)	2021/09/24		99	%	75 - 125
			Acid Extractable Chromium (Cr)	2021/09/24		98	%	75 - 125
			Acid Extractable Cobalt (Co)	2021/09/24		98	%	75 - 125
			Acid Extractable Copper (Cu)	2021/09/24		99	%	75 - 125
			Acid Extractable Lead (Pb)	2021/09/24		96	%	75 - 125
			Acid Extractable Lithium (Li)	2021/09/24		99	%	75 - 125
			Acid Extractable Manganese (Mn)	2021/09/24		97	%	75 - 125
			Acid Extractable Mercury (Hg)	2021/09/24		100	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2021/09/24		102	%	75 - 125
			Acid Extractable Nickel (Ni)	2021/09/24		99	%	75 - 125
			Acid Extractable Rubidium (Rb)	2021/09/24		96	%	75 - 125



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### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7598104	MLB	Method Blank	Acid Extractable Selenium (Se)	2021/09/24		104	%	75 - 125
			Acid Extractable Silver (Ag)	2021/09/24		98	%	75 - 125
			Acid Extractable Strontium (Sr)	2021/09/24		96	%	75 - 125
			Acid Extractable Thallium (Tl)	2021/09/24		98	%	75 - 125
			Acid Extractable Tin (Sn)	2021/09/24		99	%	75 - 125
			Acid Extractable Uranium (U)	2021/09/24		96	%	75 - 125
			Acid Extractable Vanadium (V)	2021/09/24		98	%	75 - 125
			Acid Extractable Zinc (Zn)	2021/09/24		102	%	75 - 125
			Acid Extractable Aluminum (Al)	2021/09/24	<10		mg/kg	
			Acid Extractable Antimony (Sb)	2021/09/24	<2.0		mg/kg	
			Acid Extractable Arsenic (As)	2021/09/24	<2.0		mg/kg	
			Acid Extractable Barium (Ba)	2021/09/24	<5.0		mg/kg	
			Acid Extractable Beryllium (Be)	2021/09/24	<1.0		mg/kg	
			Acid Extractable Bismuth (Bi)	2021/09/24	<2.0		mg/kg	
			Acid Extractable Boron (B)	2021/09/24	<50		mg/kg	
			Acid Extractable Cadmium (Cd)	2021/09/24	<0.30		mg/kg	
			Acid Extractable Chromium (Cr)	2021/09/24	<2.0		mg/kg	
			Acid Extractable Cobalt (Co)	2021/09/24	<1.0		mg/kg	
			Acid Extractable Copper (Cu)	2021/09/24	<2.0		mg/kg	
			Acid Extractable Iron (Fe)	2021/09/24	<50		mg/kg	
			Acid Extractable Lead (Pb)	2021/09/24	<0.50		mg/kg	
			Acid Extractable Lithium (Li)	2021/09/24	<2.0		mg/kg	
			Acid Extractable Manganese (Mn)	2021/09/24	<2.0		mg/kg	
			Acid Extractable Mercury (Hg)	2021/09/24	<0.10		mg/kg	
			Acid Extractable Molybdenum (Mo)	2021/09/24	<2.0		mg/kg	
			Acid Extractable Nickel (Ni)	2021/09/24	<2.0		mg/kg	
			Acid Extractable Rubidium (Rb)	2021/09/24	<2.0		mg/kg	
			Acid Extractable Selenium (Se)	2021/09/24	<0.50		mg/kg	
			Acid Extractable Silver (Ag)	2021/09/24	<0.50		mg/kg	
			Acid Extractable Strontium (Sr)	2021/09/24	<5.0		mg/kg	
			Acid Extractable Thallium (Tl)	2021/09/24	<0.10		mg/kg	
			Acid Extractable Tin (Sn)	2021/09/24	<1.0		mg/kg	
			Acid Extractable Uranium (U)	2021/09/24	<0.10		mg/kg	
			Acid Extractable Vanadium (V)	2021/09/24	<2.0		mg/kg	
			Acid Extractable Zinc (Zn)	2021/09/24	<5.0		mg/kg	
7598104	MLB	RPD	Acid Extractable Aluminum (Al)	2021/09/24	4.9		%	35
			Acid Extractable Antimony (Sb)	2021/09/24	NC		%	35
			Acid Extractable Arsenic (As)	2021/09/24	NC		%	35
			Acid Extractable Barium (Ba)	2021/09/24	6.7		%	35
			Acid Extractable Beryllium (Be)	2021/09/24	NC		%	35
			Acid Extractable Bismuth (Bi)	2021/09/24	NC		%	35
			Acid Extractable Boron (B)	2021/09/24	NC		%	35
			Acid Extractable Cadmium (Cd)	2021/09/24	NC		%	35
			Acid Extractable Chromium (Cr)	2021/09/24	15		%	35
			Acid Extractable Cobalt (Co)	2021/09/24	6.1		%	35
			Acid Extractable Copper (Cu)	2021/09/24	NC		%	35
			Acid Extractable Iron (Fe)	2021/09/24	11		%	35
			Acid Extractable Lead (Pb)	2021/09/24	14		%	35
			Acid Extractable Lithium (Li)	2021/09/24	7.3		%	35
			Acid Extractable Manganese (Mn)	2021/09/24	4.0		%	35
			Acid Extractable Mercury (Hg)	2021/09/24	NC		%	35
			Acid Extractable Molybdenum (Mo)	2021/09/24	NC		%	35
			Acid Extractable Nickel (Ni)	2021/09/24	9.7		%	35



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### QUALITY ASSURANCE REPORT(CONT'D)

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7601659	BAN	Matrix Spike	Acid Extractable Rubidium (Rb)	2021/09/24	NC		%	35
			Acid Extractable Selenium (Se)	2021/09/24	NC		%	35
			Acid Extractable Silver (Ag)	2021/09/24	NC		%	35
			Acid Extractable Strontium (Sr)	2021/09/24	NC		%	35
			Acid Extractable Thallium (Tl)	2021/09/24	NC		%	35
			Acid Extractable Tin (Sn)	2021/09/24	NC		%	35
			Acid Extractable Uranium (U)	2021/09/24	24		%	35
			Acid Extractable Vanadium (V)	2021/09/24	9.6		%	35
			Acid Extractable Zinc (Zn)	2021/09/24	1.5		%	35
			Acid Extractable Antimony (Sb)	2021/09/27		89	%	75 - 125
			Acid Extractable Arsenic (As)	2021/09/27		NC	%	75 - 125
			Acid Extractable Barium (Ba)	2021/09/27		NC	%	75 - 125
			Acid Extractable Beryllium (Be)	2021/09/27		99	%	75 - 125
			Acid Extractable Bismuth (Bi)	2021/09/27		103	%	75 - 125
			Acid Extractable Boron (B)	2021/09/27		96	%	75 - 125
			Acid Extractable Cadmium (Cd)	2021/09/27		101	%	75 - 125
			Acid Extractable Chromium (Cr)	2021/09/27		105	%	75 - 125
			Acid Extractable Cobalt (Co)	2021/09/27		104	%	75 - 125
			Acid Extractable Copper (Cu)	2021/09/27		104	%	75 - 125
			Acid Extractable Lead (Pb)	2021/09/27		NC	%	75 - 125
			Acid Extractable Lithium (Li)	2021/09/27		102	%	75 - 125
			Acid Extractable Manganese (Mn)	2021/09/27		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2021/09/27		100	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2021/09/27		109	%	75 - 125
			Acid Extractable Nickel (Ni)	2021/09/27		103	%	75 - 125
			Acid Extractable Rubidium (Rb)	2021/09/27		100	%	75 - 125
			Acid Extractable Selenium (Se)	2021/09/27		104	%	75 - 125
			Acid Extractable Silver (Ag)	2021/09/27		105	%	75 - 125
			Acid Extractable Strontium (Sr)	2021/09/27		99	%	75 - 125
			Acid Extractable Thallium (Tl)	2021/09/27		102	%	75 - 125
			Acid Extractable Tin (Sn)	2021/09/27		96	%	75 - 125
			Acid Extractable Uranium (U)	2021/09/27		105	%	75 - 125
			Acid Extractable Vanadium (V)	2021/09/27		105	%	75 - 125
			Acid Extractable Zinc (Zn)	2021/09/27		NC	%	75 - 125
7601659	BAN	Spiked Blank	Acid Extractable Antimony (Sb)	2021/09/27		100	%	75 - 125
			Acid Extractable Arsenic (As)	2021/09/27		101	%	75 - 125
			Acid Extractable Barium (Ba)	2021/09/27		95	%	75 - 125
			Acid Extractable Beryllium (Be)	2021/09/27		95	%	75 - 125
			Acid Extractable Bismuth (Bi)	2021/09/27		99	%	75 - 125
			Acid Extractable Boron (B)	2021/09/27		103	%	75 - 125
			Acid Extractable Cadmium (Cd)	2021/09/27		96	%	75 - 125
			Acid Extractable Chromium (Cr)	2021/09/27		99	%	75 - 125
			Acid Extractable Cobalt (Co)	2021/09/27		99	%	75 - 125
			Acid Extractable Copper (Cu)	2021/09/27		99	%	75 - 125
			Acid Extractable Lead (Pb)	2021/09/27		97	%	75 - 125
			Acid Extractable Lithium (Li)	2021/09/27		96	%	75 - 125
			Acid Extractable Manganese (Mn)	2021/09/27		99	%	75 - 125
			Acid Extractable Mercury (Hg)	2021/09/27		99	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2021/09/27		102	%	75 - 125
			Acid Extractable Nickel (Ni)	2021/09/27		100	%	75 - 125
			Acid Extractable Rubidium (Rb)	2021/09/27		101	%	75 - 125
			Acid Extractable Selenium (Se)	2021/09/27		103	%	75 - 125
			Acid Extractable Silver (Ag)	2021/09/27		99	%	75 - 125



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QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7601659	BAN	Method Blank	Acid Extractable Strontium (Sr)	2021/09/27		100	%	75 - 125
			Acid Extractable Thallium (Tl)	2021/09/27		100	%	75 - 125
			Acid Extractable Tin (Sn)	2021/09/27		101	%	75 - 125
			Acid Extractable Uranium (U)	2021/09/27		100	%	75 - 125
			Acid Extractable Vanadium (V)	2021/09/27		100	%	75 - 125
			Acid Extractable Zinc (Zn)	2021/09/27		96	%	75 - 125
			Acid Extractable Aluminum (Al)	2021/09/27	<10		mg/kg	
			Acid Extractable Antimony (Sb)	2021/09/27	<2.0		mg/kg	
			Acid Extractable Arsenic (As)	2021/09/27	<2.0		mg/kg	
			Acid Extractable Barium (Ba)	2021/09/27	<5.0		mg/kg	
			Acid Extractable Beryllium (Be)	2021/09/27	<1.0		mg/kg	
			Acid Extractable Bismuth (Bi)	2021/09/27	<2.0		mg/kg	
			Acid Extractable Boron (B)	2021/09/27	<50		mg/kg	
			Acid Extractable Cadmium (Cd)	2021/09/27	<0.30		mg/kg	
			Acid Extractable Chromium (Cr)	2021/09/27	<2.0		mg/kg	
			Acid Extractable Cobalt (Co)	2021/09/27	<1.0		mg/kg	
			Acid Extractable Copper (Cu)	2021/09/27	<2.0		mg/kg	
			Acid Extractable Iron (Fe)	2021/09/27	<50		mg/kg	
			Acid Extractable Lead (Pb)	2021/09/27	<0.50		mg/kg	
			Acid Extractable Lithium (Li)	2021/09/27	<2.0		mg/kg	
			Acid Extractable Manganese (Mn)	2021/09/27	<2.0		mg/kg	
			Acid Extractable Mercury (Hg)	2021/09/27	<0.10		mg/kg	
			Acid Extractable Molybdenum (Mo)	2021/09/27	<2.0		mg/kg	
			Acid Extractable Nickel (Ni)	2021/09/27	<2.0		mg/kg	
			Acid Extractable Rubidium (Rb)	2021/09/27	<2.0		mg/kg	
			Acid Extractable Selenium (Se)	2021/09/27	<0.50		mg/kg	
			Acid Extractable Silver (Ag)	2021/09/27	<0.50		mg/kg	
			Acid Extractable Strontium (Sr)	2021/09/27	<5.0		mg/kg	
			Acid Extractable Thallium (Tl)	2021/09/27	<0.10		mg/kg	
			Acid Extractable Tin (Sn)	2021/09/27	<1.0		mg/kg	
			Acid Extractable Uranium (U)	2021/09/27	<0.10		mg/kg	
			Acid Extractable Vanadium (V)	2021/09/27	<2.0		mg/kg	
			Acid Extractable Zinc (Zn)	2021/09/27	<5.0		mg/kg	
7601659	BAN	RPD	Acid Extractable Mercury (Hg)	2021/09/27	6.2		%	35
7601700	BBD	QC Standard	Organic Carbon (TOC)	2021/09/27		109	%	75 - 125
7601700	BBD	Method Blank	Organic Carbon (TOC)	2021/09/27	<0.50		g/kg	
7601700	BBD	RPD [QSB984-02]	Organic Carbon (TOC)	2021/09/27	NC		%	35
7601846	MNC	RPD	Moisture	2021/09/28	4.4		%	25
7604060	BBD	QC Standard	Total Carbon-combustion IR	2021/09/28		93	%	75 - 125
7604060	BBD	Method Blank	Total Carbon-combustion IR	2021/09/28	<0.50		g/kg	



BUREAU  
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BV Labs Job #: C1R1907  
Report Date: 2021/09/28

Englobe Corp  
Client Project #: 1900182.118  
Site Location: Cheticamp Entrance Channel  
Your P.O. #: 24557

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC	Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
	7604060	BBD	RPD [QSB951-02]	Total Carbon-combustion IR	2021/09/28	6.1		%	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.									
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.									
Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.									
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).									



BUREAU  
VERITAS

BV Labs Job #: C1R1907  
Report Date: 2021/09/28

Englobe Corp  
Client Project #: 1900182.118  
Site Location: Cheticamp Entrance Channel  
Your P.O. #: 24557

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

---

Gina Thompson, Inorganics General Chemistry Supervisor

---

Mike MacGillivray, Scientific Specialist (Inorganics)

---

Phil Deveau, Scientific Specialist (Organics)

---

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.





Bureau Veritas Laboratories  
200 Bluewater Road, Bedford, Nova Scotia Canada B4B 1G9 Tel: (902) 420-0203 Toll-free: 800-563-6266 Fax: (902) 420-8512 www.bvlabs.com

Page 1 of 3

### Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only												
Company Name	#41009 Englobe Corp	Company Name	Alexandra Stevenson / <i>Andrew Higgins</i>	Quotation #	B90647	BV Labs Job #	Bottle Order #:											
Contact Name	ACCOUNTS PAYABLE	Contact Name	<i>Lauren Bowzer</i>	P.O. #		CIR1907	843213											
Address	97 Troop Ave Dartmouth NS B3B 2A7	Address	<i>Doreen Chenard</i>	Project #	1900182.118	Chain Of Custody Record	Project Manager											
Phone	(902) 468-6486	Phone		Project Name			Keri Mackay											
Fax	(902) 468-4919	Fax		Site #														
Email	Atlantic.ap@englobecorp.com	Email	alexandra.stevenson@englobecorp.com, doreen.chenard	Sampled By														
Regulatory Criteria:		Special Instructions		ANALYSIS REQUESTED (PLEASE BE SPECIFIC)														
** Specify Matrix: Surface/Ground/Tapwater/Sewage/Effluent/Seawater Potable/Nonpotable/Tissue/Soil/Sediment/Metal				Turnaround Time (TAT) Required: Please provide advance notice for rush projects														
				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 Dioxins/Furans are > 5 days - contact your Project Manager for details.														
				Job Specific Rush TAT (if applies to entire submission) Date Required: Time Required:														
				# of Bottles Comments / Hazards / Other Required Analysis														
SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS																		
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered & Preserved Lab Filtration Required	PAH in sediment by GC/MS (Low Level)	Metals Solids Acid Extr. ICP/MS	Hexavalent Chromium in Soil by IC	Boron Solid MS - Hot Water Soluble	Low Level PCB in Sediment by GC-ECD	Atlantic Total Organic/Inorganic Carbon	Particle size in solids (pipette&sieve)						
1 SID#552626	C1-A					X	X	X	X	X	X	X						5
2 SID#552627	C1-B					X	X	X	X	X	X	X						
3 SID#552628	C1-C					X	X	X	X	X	X	X						
4 SID#552629	C2-A					X	X	X	X	X	X	X						5
5 SID#552630	C2-B					X	X	X	X	X	X	X						5
6 SID#552631	C2-C					X	X	X	X	X	X	X						5
7 SID#552632	C3-A					X	X	X	X	X	X	X						5
8 SID#552633	C3-B					X	X	X	X	X	X	X						5
9 SID#552634	C3-C					X	X	X	X	X	X	X						
10 SID#552635	C4-A					X	X	X	X	X	X	X						5
RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# jars used and not submitted		Lab Use Only		Time Sensitive		Temperature (°C) on Receipt		Custody Seal Intact on Cooler?		
<i>N. Jafar / N. M. Saharjan</i>		21/04/21		<i>J. JENNIFER</i>						Time Sensitive <input type="checkbox"/>		Temperature (°C) on Receipt <i>See Act 1</i>		Custody Seal Intact on Cooler? <input type="checkbox"/> Yes <input type="checkbox"/> No				
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/TERMS-AND-CONDITIONS.																		
* 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.																		



Bureau Veritas Laboratories  
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Page 2 of 3

Andrew Higgins @ Englobe corp. con  
Laurence Bowzer @  
Doreen Chenard @

### Chain Of Custody Record

INVOICE TO:		Report Information		Project Information		Laboratory Use Only									
Company Name	#41009 Englobe Corp	Company Name	Alexandra Stevenson / Andrew Higgins / Laurence Bowzer	Quotation #	B90647	BV Labs Job #	Bottle Order #:								
Contact Name	ACCOUNTS PAYABLE	Contact Name	Alexandra Stevenson / Andrew Higgins / Laurence Bowzer	P.O. #											
Address	97 Troop Ave	Address		Project #	1900182.118	Chain Of Custody Record	Project Manager								
Phone	(902) 468-6486	Phone		Site #											
Email	Atlantic.ap@Englobecorp.com	Email	alexandra.stevenson@englobecorp.com, doreen.chenard@	Sampled By											
Regulatory Criteria:		Special Instructions		ANALYSIS REQUESTED (PLEASE BE SPECIFIC)		Turnaround Time (TAT) Required:									
						Please provide advance notice for rush projects									
** Specify Matrix: Surface/Ground/Tapwater/Sewage/Effluent/Seawater Potable/Nonpotable/Tissue/Soil/Sludge/Metal						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 Dioxins/Furans are > 5 days - contact your Project Manager for details.									
SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS						Job Specific Rush TAT (if applies to entire submission) Date Required: Time Required:									
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered & Preserved	Lab Filtration Required	PAH in sediment by GC/MS (Low Level)	Metals Solids Acid Extr. ICP/MS	Hexavalent Chromium in Soil by IC	Boron Solid MS - Hot Water Soluble	Low Level PCB in Sediment by GC-ECD	Atlantic Total Organic/Inorganic Carbon	Particle size in solids (pipette& sieve)	# of Bottles	Comments / Hazards / Other Required Analysis
SID#552636	C4-B						X	X	X	X	X	X	X	5	
SID#552637	C3-D						X	X	X	X	X	X	X	5	
SID#552638	C5-A						X	X	X	X	X	X	X	5	
SID#552639	C5-B						X	X	X	X	X	X	X	5	
SID#552640	C5-C						X	X	X	X	X	X	X	5	
SID#552641	C6-A						X	X	X	X	X	X	X	5	
SID#552642	C6-B						X	X	X	X	X	X	X	5	
SID#552643	C6-C						X	X	X	X	X	X	X	5	
SID#552644	C7-A						X	X	X	X	X	X	X	5	
SID#552645	C7-B						X	X	X	X	X	X	X	5	
RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	# jars used and not submitted		Lab Use Only		Custody Seal Intact on Cooler?			
N. Salubyan / N. M. K. Saravanan		21/04/21		J. JENNIFER						Time Sensitive		Temperature (°C) on Receipt	<input type="checkbox"/> Yes <input type="checkbox"/> No		
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/TERMS-AND-CONDITIONS.														White: BV Labs Yellow: Client	
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



Your P.O. #: 24557  
Your Project #: 1900182.118  
Site Location: Cheticamp Inner Basin  
Your C.O.C. #: 843222-01-01

**Attention: Alexandra Stevenson**

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

**Report Date: 2021/10/13**  
Report #: R6851191  
Version: 5 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C1P6360**

**Received: 2021/09/03, 12:07**

Sample Matrix: Sediment  
# Samples Received: 3

Analyses	Date		Date Analyzed	Laboratory Method	Analytical Method
	Quantity	Extracted			
Benzo(b/j)fluoranthene Sum (LL soil)	3	N/A	2021/09/13	N/A	Auto Calc.
Boron Solid MS - Hot Water Soluble	1	2021/09/13	2021/09/13	ATL SOP 00058	EPA 6020B R2 m
Boron Solid MS - Hot Water Soluble	2	2021/09/13	2021/09/14	ATL SOP 00058	EPA 6020B R2 m
Hexavalent Chromium in Soil by IC (1, 2)	1	2021/09/14	2021/09/14	CAM SOP-00436	EPA 3060/7199 m
Hexavalent Chromium in Soil by IC (1, 2)	2	2021/09/14	2021/09/15	CAM SOP-00436	EPA 3060/7199 m
Metals Solids Acid Extr. ICPMS	3	2021/09/10	2021/09/11	ATL SOP 00058	EPA 6020B R2 m
Moisture	3	N/A	2021/09/09	ATL SOP 00001	OMOE Handbook 1983 m
PAH in sediment by GC/MS (Low Level) (2)	3	2021/09/09	2021/09/12	ATL SOP 00102	EPA 8270E R6 m
PCB in Sediment by GC-ECD (low level)	3	2021/09/09	2021/09/13	ATL SOP 00106	EPA 8082A m
PCB Aroclor sum (low level sediment)	3	N/A	2021/09/13	N/A	Auto Calc.
Particle size in solids (pipette&sieve) (3)	3	N/A	2021/10/13	ATL SOP 00012	MSAMS'78/WREP-125R3m
Total Carbon in Solids by Ind.	3	2021/09/10	2021/09/10	ATL SOP 00044	LECO203601224 1991 m
TIC in soil	3	2021/09/08	2021/09/10	ATL SOP 00044	LECO203601224 1991m
Total Organic Carbon in Soil	3	2021/09/10	2021/09/10	ATL SOP 00044	LECO203601224 1991 m

**Remarks:**

Bureau Veritas is accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by Bureau Veritas are based upon recognized Provincial, Federal or US method compendia such as CCME, MELCC, EPA, APHA.

All work recorded herein has been done in accordance with procedures and practices ordinarily exercised by professionals in Bureau Veritas' profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and Bureau Veritas 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. Where applicable, unless otherwise noted, Measurement Uncertainty has not been accounted for when stating conformity to the referenced standard.

Bureau Veritas liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. Bureau Veritas 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 Bureau Veritas, unless otherwise agreed in writing. Bureau Veritas is not responsible for the accuracy or any data impacts, that result from the information provided by the customer or their agent.

Solid sample results, except biota, are based on dry weight unless otherwise indicated. Organic analyses are not recovery corrected except for isotope dilution methods.



Your P.O. #: 24557  
Your Project #: 1900182.118  
Site Location: Cheticamp Inner Basin  
Your C.O.C. #: 843222-01-01

**Attention: Alexandra Stevenson**

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

**Report Date: 2021/10/13**  
Report #: R6851191  
Version: 5 - Final

**CERTIFICATE OF ANALYSIS**

**BV LABS JOB #: C1P6360**

**Received: 2021/09/03, 12:07**

Results relate to samples tested. When sampling is not conducted by Bureau Veritas, results relate to the supplied 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 Bureau Veritas Mississauga, 6740 Campobello Rd, Mississauga, ON, L5N 2L8

(2) Soils are reported on a dry weight basis unless otherwise specified.

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

**Encryption Key**

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

Keri Mackay, Customer Experience Team Lead

Email: Keri.MACKAY@bureauveritas.com

Phone# (902)420-0203 Ext:294

=====

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BV Labs Job #: C1P6360  
Report Date: 2021/10/13

Englobe Corp  
Client Project #: 1900182.118  
Site Location: Cheticamp Inner Basin  
Your P.O. #: 24557  
Sampler Initials: LB

### ATLANTIC TOTAL ORGANIC/INORGANIC CARBON (SEDIMENT)

<b>BV Labs ID</b>		QOV768	QOV769	QOV770		
<b>Sampling Date</b>		2021/09/01 04:30	2021/09/01 04:40	2021/09/01 04:50		
<b>COC Number</b>		843222-01-01	843222-01-01	843222-01-01		
	<b>UNITS</b>	<b>G1</b>	<b>G2</b>	<b>G3</b>	<b>RDL</b>	<b>QC Batch</b>
<b>Inorganics</b>						
Total Inorganic Carbon (C)	g/kg	<0.5	11	2.1	0.5	7564529
Organic Carbon (TOC)	g/kg	1.4	6.7	4.0	0.50	7569174
Total Carbon-combustion IR	g/kg	1.9	18	6.1	0.50	7569702
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



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VERITAS

BV Labs Job #: C1P6360  
Report Date: 2021/10/13

Englobe Corp  
Client Project #: 1900182.118  
Site Location: Cheticamp Inner Basin  
Your P.O. #: 24557  
Sampler Initials: LB

### RESULTS OF ANALYSES OF SEDIMENT

BV Labs ID		QOV768			QOV768			QOV769	QOV770		
Sampling Date		2021/09/01 04:30			2021/09/01 04:30			2021/09/01 04:40	2021/09/01 04:50		
COC Number		843222-01-01			843222-01-01			843222-01-01	843222-01-01		
	UNITS	G1	RDL	QC Batch	G1 Lab-Dup	RDL	QC Batch	G2	G3	RDL	QC Batch

#### Inorganics

Moisture	%	21	1.0	7565059	21	1.0	7565059	36	27	1.0	7565059
< -1 Phi (2 mm)	%	97 (1)	0.10	7610179				90 (2)	96 (2)	0.10	7610179
< 0 Phi (1 mm)	%	96	0.10	7610179				89 (1)	96 (1)	0.10	7610179
< +1 Phi (0.5 mm)	%	94	0.10	7610179				89 (1)	95 (1)	0.10	7610179
< +2 Phi (0.25 mm)	%	78	0.10	7610179				88 (1)	85 (1)	0.10	7610179
< +3 Phi (0.12 mm)	%	11	0.10	7610179				42	21	0.10	7610179
< +4 Phi (0.062 mm)	%	2.3	0.10	7610179				11	6.0	0.10	7610179
< +5 Phi (0.031 mm)	%	2.2	0.10	7610179				7.2	4.8	0.10	7610179
< +6 Phi (0.016 mm)	%	2.0	0.10	7610179				5.6	3.8	0.10	7610179
< +7 Phi (0.0078 mm)	%	1.8	0.10	7610179				4.3	3.1	0.10	7610179
< +8 Phi (0.0039 mm)	%	1.8	0.10	7610179				4.0	2.8	0.10	7610179
< +9 Phi (0.0020 mm)	%	1.8	0.10	7610179				3.1	2.3	0.10	7610179
Gravel	%	2.6	0.10	7610179				10	4.0	0.10	7610179
Sand	%	95	0.10	7610179				79	90	0.10	7610179
Silt	%	0.47	0.10	7610179				6.9	3.2	0.10	7610179
Clay	%	1.8	0.10	7610179				4.0	2.8	0.10	7610179

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

(1) PSA sample observation comment: Fraction contained organic material.

(2) PSA sample observation comment: Fraction contained rocks.





BUREAU  
VERITAS

BV Labs Job #: C1P6360  
Report Date: 2021/10/13

Englobe Corp  
Client Project #: 1900182.118  
Site Location: Cheticamp Inner Basin  
Your P.O. #: 24557  
Sampler Initials: LB

### ELEMENTS BY ICP/MS (SEDIMENT)

<b>BV Labs ID</b>		QOV768	QOV768		QOV769		QOV770		
<b>Sampling Date</b>		2021/09/01 04:30	2021/09/01 04:30		2021/09/01 04:40		2021/09/01 04:50		
<b>COC Number</b>		843222-01-01	843222-01-01		843222-01-01		843222-01-01		
	<b>UNITS</b>	<b>G1</b>	<b>G1 Lab-Dup</b>	<b>RDL</b>	<b>G2</b>	<b>RDL</b>	<b>G3</b>	<b>RDL</b>	<b>QC Batch</b>
<b>Metals</b>									
Soluble (Hot Water) Boron (B)	mg/kg	1.4	1.5	0.30	7.5	3.0	3.6	0.30	7572975
RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate									



BUREAU  
VERITAS

BV Labs Job #: C1P6360  
Report Date: 2021/10/13

Englobe Corp  
Client Project #: 1900182.118  
Site Location: Cheticamp Inner Basin  
Your P.O. #: 24557  
Sampler Initials: LB

### ELEMENTS BY ATOMIC SPECTROSCOPY (SEDIMENT)

BV Labs ID		QOV768	QOV769		QOV770		
Sampling Date		2021/09/01 04:30	2021/09/01 04:40		2021/09/01 04:50		
COC Number		843222-01-01	843222-01-01		843222-01-01		
	UNITS	G1	G2	QC Batch	G3	RDL	QC Batch
<b>Inorganics</b>							
Chromium (VI)	ug/g	<0.18	<0.18	7575704	<0.18	0.18	7575710
<b>Metals</b>							
Acid Extractable Aluminum (Al)	mg/kg	2200	3900	7569201	3000	10	7569201
Acid Extractable Antimony (Sb)	mg/kg	<2.0	<2.0	7569201	<2.0	2.0	7569201
Acid Extractable Arsenic (As)	mg/kg	2.4	2.7	7569201	<2.0	2.0	7569201
Acid Extractable Barium (Ba)	mg/kg	36	26	7569201	20	5.0	7569201
Acid Extractable Beryllium (Be)	mg/kg	<2.0	<2.0	7569201	<2.0	2.0	7569201
Acid Extractable Bismuth (Bi)	mg/kg	<2.0	<2.0	7569201	<2.0	2.0	7569201
Acid Extractable Boron (B)	mg/kg	<50	<50	7569201	<50	50	7569201
Acid Extractable Cadmium (Cd)	mg/kg	<0.30	<0.30	7569201	<0.30	0.30	7569201
Acid Extractable Chromium (Cr)	mg/kg	4.8	7.0	7569201	5.5	2.0	7569201
Acid Extractable Cobalt (Co)	mg/kg	2.5	4.1	7569201	3.1	1.0	7569201
Acid Extractable Copper (Cu)	mg/kg	2.2	7.2	7569201	3.7	2.0	7569201
Acid Extractable Iron (Fe)	mg/kg	6900	9300	7569201	7700	50	7569201
Acid Extractable Lead (Pb)	mg/kg	3.8	12	7569201	6.0	0.50	7569201
Acid Extractable Lithium (Li)	mg/kg	5.7	11	7569201	7.9	2.0	7569201
Acid Extractable Manganese (Mn)	mg/kg	240	190	7569201	180	2.0	7569201
Acid Extractable Mercury (Hg)	mg/kg	<0.10	<0.10	7569201	<0.10	0.10	7569201
Acid Extractable Molybdenum (Mo)	mg/kg	<2.0	<2.0	7569201	<2.0	2.0	7569201
Acid Extractable Nickel (Ni)	mg/kg	4.7	8.7	7569201	6.3	2.0	7569201
Acid Extractable Rubidium (Rb)	mg/kg	2.2	3.9	7569201	3.0	2.0	7569201
Acid Extractable Selenium (Se)	mg/kg	<0.50	<0.50	7569201	<0.50	0.50	7569201
Acid Extractable Silver (Ag)	mg/kg	<0.50	<0.50	7569201	<0.50	0.50	7569201
Acid Extractable Strontium (Sr)	mg/kg	6.3	19	7569201	10	5.0	7569201
Acid Extractable Thallium (Tl)	mg/kg	<0.10	<0.10	7569201	<0.10	0.10	7569201
Acid Extractable Tin (Sn)	mg/kg	<1.0	<1.0	7569201	<1.0	1.0	7569201
Acid Extractable Uranium (U)	mg/kg	0.27	0.58	7569201	0.44	0.10	7569201
Acid Extractable Vanadium (V)	mg/kg	9.4	12	7569201	8.9	2.0	7569201
Acid Extractable Zinc (Zn)	mg/kg	16	39	7569201	27	5.0	7569201
RDL = Reportable Detection Limit							
QC Batch = Quality Control Batch							



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BV Labs Job #: C1P6360  
Report Date: 2021/10/13

Englobe Corp  
Client Project #: 1900182.118  
Site Location: Cheticamp Inner Basin  
Your P.O. #: 24557  
Sampler Initials: LB

### SEMI-VOLATILE ORGANICS BY GC-MS (SEDIMENT)

BV Labs ID		QOV768	QOV769	QOV770		
Sampling Date		2021/09/01 04:30	2021/09/01 04:40	2021/09/01 04:50		
COC Number		843222-01-01	843222-01-01	843222-01-01		
	UNITS	G1	G2	G3	RDL	QC Batch
<b>Polyaromatic Hydrocarbons</b>						
1-Methylnaphthalene	mg/kg	<0.0050	0.014	<0.0050	0.0050	7566554
2-Methylnaphthalene	mg/kg	<0.0050	0.020	0.0073	0.0050	7566554
Acenaphthene	mg/kg	<0.0050	<0.0050	<0.0050	0.0050	7566554
Acenaphthylene	mg/kg	<0.0050	<0.0050	<0.0050	0.0050	7566554
Anthracene	mg/kg	<0.0050	0.018	<0.0050	0.0050	7566554
Benzo(a)anthracene	mg/kg	<0.0050	0.010	<0.0050	0.0050	7566554
Benzo(a)pyrene	mg/kg	<0.0050	<0.0050	<0.0050	0.0050	7566554
Benzo(b)fluoranthene	mg/kg	<0.0050	<0.0050	<0.0050	0.0050	7566554
Benzo(b,j)fluoranthene	mg/kg	<0.010	<0.010	<0.010	0.010	7564523
Benzo(g,h,i)perylene	mg/kg	<0.0050	<0.0050	<0.0050	0.0050	7566554
Benzo(j)fluoranthene	mg/kg	<0.0050	<0.0050	<0.0050	0.0050	7566554
Benzo(k)fluoranthene	mg/kg	<0.0050	<0.0050	<0.0050	0.0050	7566554
Chrysene	mg/kg	<0.0050	0.013	<0.0050	0.0050	7566554
Dibenzo(a,h)anthracene	mg/kg	<0.0050	<0.0050	<0.0050	0.0050	7566554
Fluoranthene	mg/kg	<0.0050	0.031	0.023	0.0050	7566554
Fluorene	mg/kg	<0.0050	0.0078	<0.0050	0.0050	7566554
Indeno(1,2,3-cd)pyrene	mg/kg	<0.0050	<0.0050	<0.0050	0.0050	7566554
Naphthalene	mg/kg	<0.0050	0.011	<0.0050	0.0050	7566554
Perylene	mg/kg	<0.0050	<0.0050	<0.0050	0.0050	7566554
Phenanthrene	mg/kg	<0.0050	0.030	0.019	0.0050	7566554
Pyrene	mg/kg	<0.0050	0.021	0.015	0.0050	7566554
<b>Surrogate Recovery (%)</b>						
D10-Anthracene	%	98	101	96		7566554
D14-Terphenyl	%	97	81	81		7566554
D8-Acenaphthylene	%	97	100	96		7566554
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



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BV Labs Job #: C1P6360  
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Englobe Corp  
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Sampler Initials: LB

### POLYCHLORINATED BIPHENYLS BY GC-ECD (SEDIMENT)

BV Labs ID		QOV768	QOV769	QOV770		
Sampling Date		2021/09/01 04:30	2021/09/01 04:40	2021/09/01 04:50		
COC Number		843222-01-01	843222-01-01	843222-01-01		
	UNITS	G1	G2	G3	RDL	QC Batch
<b>PCBs</b>						
Aroclor 1016	mg/kg	<0.010	<0.010	<0.010	0.010	7567507
Aroclor 1221	mg/kg	<0.010	<0.010	<0.010	0.010	7567507
Aroclor 1232	mg/kg	<0.010	<0.010	<0.010	0.010	7567507
Aroclor 1248	mg/kg	<0.010	<0.010	<0.010	0.010	7567507
Aroclor 1242	mg/kg	<0.010	<0.010	<0.010	0.010	7567507
Aroclor 1254	mg/kg	<0.010	<0.010	<0.010	0.010	7567507
Aroclor 1260	mg/kg	<0.010	<0.010	<0.010	0.010	7567507
Calculated Total PCB	mg/kg	<0.010	<0.010	<0.010	0.010	7564527
<b>Surrogate Recovery (%)</b>						
Decachlorobiphenyl	%	87	86	88		7567507
RDL = Reportable Detection Limit						
QC Batch = Quality Control Batch						



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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	4.0°C
Package 3	3.7°C

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
7565059	TJG	RPD [QOV768-01]	Moisture	2021/09/09	0.48		%	25
7566554	LGE	Matrix Spike	D10-Anthracene	2021/09/12		101	%	50 - 130
			D14-Terphenyl	2021/09/12		102	%	50 - 130
			D8-Acenaphthylene	2021/09/12		100	%	50 - 130
			1-Methylnaphthalene	2021/09/12		96	%	50 - 130
			2-Methylnaphthalene	2021/09/12		102	%	50 - 130
			Acenaphthene	2021/09/12		98	%	50 - 130
			Acenaphthylene	2021/09/12		100	%	50 - 130
			Anthracene	2021/09/12		107	%	50 - 130
			Benzo(a)anthracene	2021/09/12		91	%	50 - 130
			Benzo(a)pyrene	2021/09/12		54	%	50 - 130
			Benzo(b)fluoranthene	2021/09/12		62	%	50 - 130
			Benzo(g,h,i)perylene	2021/09/12		18 (1)	%	50 - 130
			Benzo(j)fluoranthene	2021/09/12		60	%	50 - 130
			Benzo(k)fluoranthene	2021/09/12		59	%	50 - 130
			Chrysene	2021/09/12		88	%	50 - 130
			Dibenzo(a,h)anthracene	2021/09/12		26 (1)	%	50 - 130
			Fluoranthene	2021/09/12		99	%	50 - 130
			Fluorene	2021/09/12		100	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/09/12		21 (1)	%	50 - 130
			Naphthalene	2021/09/12		93	%	50 - 130
			Perylene	2021/09/12		59	%	50 - 130
			Phenanthrene	2021/09/12		107	%	50 - 130
			Pyrene	2021/09/12		96	%	50 - 130
7566554	LGE	Spiked Blank	D10-Anthracene	2021/09/12		106	%	50 - 130
			D14-Terphenyl	2021/09/12		106	%	50 - 130
			D8-Acenaphthylene	2021/09/12		95	%	50 - 130
			1-Methylnaphthalene	2021/09/12		88	%	50 - 130
			2-Methylnaphthalene	2021/09/12		91	%	50 - 130
			Acenaphthene	2021/09/12		99	%	50 - 130
			Acenaphthylene	2021/09/12		97	%	50 - 130
			Anthracene	2021/09/12		112	%	50 - 130
			Benzo(a)anthracene	2021/09/12		111	%	50 - 130
			Benzo(a)pyrene	2021/09/12		97	%	50 - 130
			Benzo(b)fluoranthene	2021/09/12		101	%	50 - 130
			Benzo(g,h,i)perylene	2021/09/12		87	%	50 - 130
			Benzo(j)fluoranthene	2021/09/12		96	%	50 - 130
			Benzo(k)fluoranthene	2021/09/12		91	%	50 - 130
			Chrysene	2021/09/12		105	%	50 - 130
			Dibenzo(a,h)anthracene	2021/09/12		96	%	50 - 130
			Fluoranthene	2021/09/12		107	%	50 - 130
			Fluorene	2021/09/12		108	%	50 - 130
			Indeno(1,2,3-cd)pyrene	2021/09/12		87	%	50 - 130
			Naphthalene	2021/09/12		88	%	50 - 130
			Perylene	2021/09/12		101	%	50 - 130
			Phenanthrene	2021/09/12		113	%	50 - 130
			Pyrene	2021/09/12		103	%	50 - 130
7566554	LGE	Method Blank	D10-Anthracene	2021/09/12		105	%	50 - 130
			D14-Terphenyl	2021/09/12		129	%	50 - 130
			D8-Acenaphthylene	2021/09/12		101	%	50 - 130
			1-Methylnaphthalene	2021/09/12	<0.0050		mg/kg	
			2-Methylnaphthalene	2021/09/12	<0.0050		mg/kg	



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BV Labs Job #: C1P6360  
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Englobe Corp  
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Sampler Initials: LB

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7566554	LGE	RPD	Acenaphthene	2021/09/12	<0.0050		mg/kg	
			Acenaphthylene	2021/09/12	<0.0050		mg/kg	
			Anthracene	2021/09/12	<0.0050		mg/kg	
			Benzo(a)anthracene	2021/09/12	<0.0050		mg/kg	
			Benzo(a)pyrene	2021/09/12	<0.0050		mg/kg	
			Benzo(b)fluoranthene	2021/09/12	<0.0050		mg/kg	
			Benzo(g,h,i)perylene	2021/09/12	<0.0050		mg/kg	
			Benzo(j)fluoranthene	2021/09/12	<0.0050		mg/kg	
			Benzo(k)fluoranthene	2021/09/12	<0.0050		mg/kg	
			Chrysene	2021/09/12	<0.0050		mg/kg	
			Dibenzo(a,h)anthracene	2021/09/12	<0.0050		mg/kg	
			Fluoranthene	2021/09/12	<0.0050		mg/kg	
			Fluorene	2021/09/12	<0.0050		mg/kg	
			Indeno(1,2,3-cd)pyrene	2021/09/12	<0.0050		mg/kg	
			Naphthalene	2021/09/12	<0.0050		mg/kg	
			Perylene	2021/09/12	<0.0050		mg/kg	
			Phenanthrene	2021/09/12	<0.0050		mg/kg	
			Pyrene	2021/09/12	<0.0050		mg/kg	
			1-Methylnaphthalene	2021/09/12	NC		%	50
			2-Methylnaphthalene	2021/09/12	NC		%	50
			Acenaphthene	2021/09/12	NC		%	50
			Acenaphthylene	2021/09/12	NC		%	50
			Anthracene	2021/09/12	NC		%	50
			Benzo(a)anthracene	2021/09/12	NC		%	50
			Benzo(a)pyrene	2021/09/12	NC		%	50
			Benzo(b)fluoranthene	2021/09/12	NC		%	50
			Benzo(g,h,i)perylene	2021/09/12	NC		%	50
			Benzo(j)fluoranthene	2021/09/12	NC		%	50
			Benzo(k)fluoranthene	2021/09/12	NC		%	50
			Chrysene	2021/09/12	NC		%	50
			Dibenzo(a,h)anthracene	2021/09/12	NC		%	50
			Fluoranthene	2021/09/12	NC		%	50
			Fluorene	2021/09/12	NC		%	50
			Indeno(1,2,3-cd)pyrene	2021/09/12	NC		%	50
			Naphthalene	2021/09/12	NC		%	50
			Perylene	2021/09/12	NC		%	50
			Phenanthrene	2021/09/12	NC		%	50
			Pyrene	2021/09/12	NC		%	50
7567507	APY	Matrix Spike	Decachlorobiphenyl	2021/09/13		78	%	70 - 130
			Aroclor 1254	2021/09/13		64 (1)	%	70 - 130
7567507	APY	Spiked Blank	Decachlorobiphenyl	2021/09/13		92	%	70 - 130
			Aroclor 1254	2021/09/13		88	%	70 - 130
7567507	APY	Method Blank	Decachlorobiphenyl	2021/09/13		97	%	70 - 130
			Aroclor 1016	2021/09/13	<0.010		mg/kg	
			Aroclor 1221	2021/09/13	<0.010		mg/kg	
			Aroclor 1232	2021/09/13	<0.010		mg/kg	
			Aroclor 1248	2021/09/13	<0.010		mg/kg	
			Aroclor 1242	2021/09/13	<0.010		mg/kg	
			Aroclor 1254	2021/09/13	<0.010		mg/kg	
			Aroclor 1260	2021/09/13	<0.010		mg/kg	
7567507	APY	RPD	Aroclor 1016	2021/09/13	NC		%	50
			Aroclor 1221	2021/09/13	NC		%	50





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VERITAS

BV Labs Job #: C1P6360  
Report Date: 2021/10/13

Englobe Corp  
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Site Location: Cheticamp Inner Basin  
Your P.O. #: 24557  
Sampler Initials: LB

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Aroclor 1232	2021/09/13	NC		%	50
			Aroclor 1248	2021/09/13	NC		%	50
			Aroclor 1242	2021/09/13	NC		%	50
			Aroclor 1254	2021/09/13	34		%	50
			Aroclor 1260	2021/09/13	NC		%	50
7569174	BBD	QC Standard	Organic Carbon (TOC)	2021/09/10		104	%	75 - 125
7569174	BBD	Method Blank	Organic Carbon (TOC)	2021/09/10	<0.50		g/kg	
7569174	BBD	RPD	Organic Carbon (TOC)	2021/09/10	13		%	35
7569201	BAN	Matrix Spike	Acid Extractable Antimony (Sb)	2021/09/13		95	%	75 - 125
			Acid Extractable Arsenic (As)	2021/09/13		NC	%	75 - 125
			Acid Extractable Barium (Ba)	2021/09/13		NC	%	75 - 125
			Acid Extractable Beryllium (Be)	2021/09/13		103	%	75 - 125
			Acid Extractable Bismuth (Bi)	2021/09/13		101	%	75 - 125
			Acid Extractable Boron (B)	2021/09/13		100	%	75 - 125
			Acid Extractable Cadmium (Cd)	2021/09/13		95	%	75 - 125
			Acid Extractable Chromium (Cr)	2021/09/13		99	%	75 - 125
			Acid Extractable Cobalt (Co)	2021/09/13		99	%	75 - 125
			Acid Extractable Copper (Cu)	2021/09/13		93	%	75 - 125
			Acid Extractable Lead (Pb)	2021/09/13		94	%	75 - 125
			Acid Extractable Lithium (Li)	2021/09/13		108	%	75 - 125
			Acid Extractable Manganese (Mn)	2021/09/13		NC	%	75 - 125
			Acid Extractable Mercury (Hg)	2021/09/13		91	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2021/09/13		103	%	75 - 125
			Acid Extractable Nickel (Ni)	2021/09/13		98	%	75 - 125
			Acid Extractable Rubidium (Rb)	2021/09/13		98	%	75 - 125
			Acid Extractable Selenium (Se)	2021/09/13		95	%	75 - 125
			Acid Extractable Silver (Ag)	2021/09/13		102	%	75 - 125
			Acid Extractable Strontium (Sr)	2021/09/13		102	%	75 - 125
			Acid Extractable Thallium (Tl)	2021/09/13		101	%	75 - 125
			Acid Extractable Tin (Sn)	2021/09/13		101	%	75 - 125
			Acid Extractable Uranium (U)	2021/09/13		102	%	75 - 125
			Acid Extractable Vanadium (V)	2021/09/13		101	%	75 - 125
			Acid Extractable Zinc (Zn)	2021/09/13		89	%	75 - 125
7569201	BAN	Spiked Blank	Acid Extractable Antimony (Sb)	2021/09/10		103	%	75 - 125
			Acid Extractable Arsenic (As)	2021/09/10		97	%	75 - 125
			Acid Extractable Barium (Ba)	2021/09/10		101	%	75 - 125
			Acid Extractable Beryllium (Be)	2021/09/10		103	%	75 - 125
			Acid Extractable Bismuth (Bi)	2021/09/10		102	%	75 - 125
			Acid Extractable Boron (B)	2021/09/10		104	%	75 - 125
			Acid Extractable Cadmium (Cd)	2021/09/10		96	%	75 - 125
			Acid Extractable Chromium (Cr)	2021/09/10		101	%	75 - 125
			Acid Extractable Cobalt (Co)	2021/09/10		100	%	75 - 125
			Acid Extractable Copper (Cu)	2021/09/10		98	%	75 - 125
			Acid Extractable Lead (Pb)	2021/09/10		101	%	75 - 125
			Acid Extractable Lithium (Li)	2021/09/10		109	%	75 - 125
			Acid Extractable Manganese (Mn)	2021/09/10		99	%	75 - 125
			Acid Extractable Mercury (Hg)	2021/09/10		98	%	75 - 125
			Acid Extractable Molybdenum (Mo)	2021/09/10		100	%	75 - 125
			Acid Extractable Nickel (Ni)	2021/09/10		99	%	75 - 125
			Acid Extractable Rubidium (Rb)	2021/09/10		100	%	75 - 125
			Acid Extractable Selenium (Se)	2021/09/10		95	%	75 - 125
			Acid Extractable Silver (Ag)	2021/09/10		98	%	75 - 125



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Englobe Corp  
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Sampler Initials: LB

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
7569201	BAN	Method Blank	Acid Extractable Strontium (Sr)	2021/09/10		100	%	75 - 125
			Acid Extractable Thallium (Tl)	2021/09/10		102	%	75 - 125
			Acid Extractable Tin (Sn)	2021/09/10		100	%	75 - 125
			Acid Extractable Uranium (U)	2021/09/10		100	%	75 - 125
			Acid Extractable Vanadium (V)	2021/09/10		101	%	75 - 125
			Acid Extractable Zinc (Zn)	2021/09/10		94	%	75 - 125
			Acid Extractable Aluminum (Al)	2021/09/10	<10		mg/kg	
			Acid Extractable Antimony (Sb)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Arsenic (As)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Barium (Ba)	2021/09/10	<5.0		mg/kg	
			Acid Extractable Beryllium (Be)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Bismuth (Bi)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Boron (B)	2021/09/10	<50		mg/kg	
			Acid Extractable Cadmium (Cd)	2021/09/10	<0.30		mg/kg	
			Acid Extractable Chromium (Cr)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Cobalt (Co)	2021/09/10	<1.0		mg/kg	
			Acid Extractable Copper (Cu)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Iron (Fe)	2021/09/10	<50		mg/kg	
			Acid Extractable Lead (Pb)	2021/09/10	<0.50		mg/kg	
			Acid Extractable Lithium (Li)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Manganese (Mn)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Mercury (Hg)	2021/09/10	<0.10		mg/kg	
			Acid Extractable Molybdenum (Mo)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Nickel (Ni)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Rubidium (Rb)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Selenium (Se)	2021/09/10	<0.50		mg/kg	
			Acid Extractable Silver (Ag)	2021/09/10	<0.50		mg/kg	
			Acid Extractable Strontium (Sr)	2021/09/10	<5.0		mg/kg	
			Acid Extractable Thallium (Tl)	2021/09/10	<0.10		mg/kg	
			Acid Extractable Tin (Sn)	2021/09/10	<1.0		mg/kg	
			Acid Extractable Uranium (U)	2021/09/10	<0.10		mg/kg	
			Acid Extractable Vanadium (V)	2021/09/10	<2.0		mg/kg	
			Acid Extractable Zinc (Zn)	2021/09/10	<5.0		mg/kg	
7569201	BAN	RPD	Acid Extractable Aluminum (Al)	2021/09/11	1.3		%	35
			Acid Extractable Antimony (Sb)	2021/09/11	NC		%	35
			Acid Extractable Arsenic (As)	2021/09/11	6.6		%	35
			Acid Extractable Barium (Ba)	2021/09/11	0.64		%	35
			Acid Extractable Beryllium (Be)	2021/09/11	NC		%	35
			Acid Extractable Bismuth (Bi)	2021/09/11	NC		%	35
			Acid Extractable Boron (B)	2021/09/11	NC		%	35
			Acid Extractable Cadmium (Cd)	2021/09/11	NC		%	35
			Acid Extractable Chromium (Cr)	2021/09/11	2.1		%	35
			Acid Extractable Cobalt (Co)	2021/09/11	NC		%	35
			Acid Extractable Copper (Cu)	2021/09/11	0.34		%	35
			Acid Extractable Iron (Fe)	2021/09/11	4.6		%	35
			Acid Extractable Lead (Pb)	2021/09/11	2.4		%	35
			Acid Extractable Lithium (Li)	2021/09/11	4.6		%	35
			Acid Extractable Manganese (Mn)	2021/09/11	5.1		%	35
			Acid Extractable Mercury (Hg)	2021/09/11	10		%	35
			Acid Extractable Molybdenum (Mo)	2021/09/11	NC		%	35
			Acid Extractable Nickel (Ni)	2021/09/11	4.0		%	35
			Acid Extractable Rubidium (Rb)	2021/09/11	2.5		%	35



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BV Labs Job #: C1P6360  
Report Date: 2021/10/13

Englobe Corp  
Client Project #: 1900182.118  
Site Location: Cheticamp Inner Basin  
Your P.O. #: 24557  
Sampler Initials: LB

### QUALITY ASSURANCE REPORT(CONT'D)

QA/QC Batch	Init	QC Type	Parameter	Date Analyzed	Value	Recovery	UNITS	QC Limits
			Acid Extractable Selenium (Se)	2021/09/11	4.0		%	35
			Acid Extractable Silver (Ag)	2021/09/11	NC		%	35
			Acid Extractable Strontium (Sr)	2021/09/11	11		%	35
			Acid Extractable Thallium (Tl)	2021/09/11	NC		%	35
			Acid Extractable Tin (Sn)	2021/09/11	NC		%	35
			Acid Extractable Uranium (U)	2021/09/11	2.4		%	35
			Acid Extractable Vanadium (V)	2021/09/11	2.2		%	35
			Acid Extractable Zinc (Zn)	2021/09/11	7.6		%	35
7569702	BBD	QC Standard	Total Carbon-combustion IR	2021/09/10		94	%	75 - 125
7569702	BBD	Method Blank	Total Carbon-combustion IR	2021/09/10	<0.50		g/kg	
7569702	BBD	RPD	Total Carbon-combustion IR	2021/09/10	4.4		%	35
7572975	MLB	Matrix Spike [QOV768-02]	Soluble (Hot Water) Boron (B)	2021/09/14		NC	%	75 - 125
7572975	MLB	Spiked Blank	Soluble (Hot Water) Boron (B)	2021/09/13		102	%	75 - 125
7572975	MLB	Method Blank	Soluble (Hot Water) Boron (B)	2021/09/13	<0.30		mg/kg	
7572975	MLB	RPD [QOV768-02]	Soluble (Hot Water) Boron (B)	2021/09/14	10		%	35
7575704	LKH	Matrix Spike	Chromium (VI)	2021/09/15		47 (2)	%	70 - 130
7575704	LKH	Spiked Blank	Chromium (VI)	2021/09/15		93	%	80 - 120
7575704	LKH	Method Blank	Chromium (VI)	2021/09/15	<0.18		ug/g	
7575710	LKH	Matrix Spike	Chromium (VI)	2021/09/14		0 (3)	%	70 - 130
7575710	LKH	Spiked Blank	Chromium (VI)	2021/09/14		95	%	80 - 120
7575710	LKH	Method Blank	Chromium (VI)	2021/09/14	<0.18		ug/g	
7575710	LKH	RPD	Chromium (VI)	2021/09/14	NC		%	35
7610179	PK2	RPD	Gravel	2021/10/13	NC		%	35
			Sand	2021/10/13	15		%	35
			Silt	2021/10/13	26		%	35
			Clay	2021/10/13	9.3		%	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.

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.

Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.

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  $\leq 2 \times \text{RDL}$ ).

(1) Matrix Spike: results are outside acceptance limit due to probable matrix interference.

(2) The matrix spike recovery was below the lower control limit. This may be due in part to the reducing environment of the sample. The sample was reanalyzed with the same results

(3) The matrix spike recovery was below the lower control limit. This may be due in part to the reducing environment of the sample. The matrix spike was reanalyzed to confirm result.



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BV Labs Job #: C1P6360  
Report Date: 2021/10/13

Englobe Corp  
Client Project #: 1900182.118  
Site Location: Cheticamp Inner Basin  
Your P.O. #: 24557  
Sampler Initials: LB

### VALIDATION SIGNATURE PAGE

The analytical data and all QC contained in this report were reviewed and validated by:

Colleen Acker, B.Sc, Scientific Service Specialist

Ewa Pranjic, M.Sc., C.Chem, Scientific Specialist

Mike MacGillivray, Scientific Specialist (Inorganics)

Phil Deveau, Scientific Specialist (Organics)

BV Labs has procedures in place to guard against improper use of the electronic signature and have the required "signatories", as per ISO/IEC 17025, signing the reports. For Service Group specific validation please refer to the Validation Signature Page.



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# Chain Of Custody Record

Page 1 of 1

INVOICE TO:		Report Information		Project Information		Laboratory Use Only	
Company Name	#41009 Englobe Corp	Company Name		Quotation #	B90647	BV Labs Job #	Bottle Order #:
Contact Name	ACCOUNTS PAYABLE	Contact Name	Alexandra Stevenson	P.O. #	24557		
Address	97 Troop Ave	Address		Project #	1900182.118		843222
	Dartmouth NS B3B 2A7			Project Name	Cheticamp	Chain Of Custody Record	Project Manager
Phone	(902) 468-6486	Phone		Site #			
Fax	(902) 468-4919	Fax		Sampled By	LB		
Email	Atlantic.ap@Englobecorp.com	Email	alexandra.stevenson@englobecorp.com, doreen.chenar				Keri Mackay
Regulatory Criteria:		Special Instructions		ANALYSIS REQUESTED (PLEASE BE SPECIFIC)		Turnaround Time (TAT) Required:	
						Please provide advance notice for rush projects	
** Specify Matrix: Surface/Ground/Tapwater/Sewage/Effluent/Seawater Potable/Nonpotable/Tissue/Soil/Sludge/Metal						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 Dioxins/Furans are > 5 days - contact your Project Manager for details.	
SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS						Job Specific Rush TAT (if applies to entire submission) Date Required: Time Required:	
Sample Barcode Label	Sample (Location) Identification	Date Sampled	Time Sampled	Matrix	Field Filtered & Preserved	Lab Filtration Required	# of Bottles
1	G1	09/01/21	4:30pm	SED			5
2	G2	09/01/21	4:40pm	SED			5
3	G3	09/01/21	4:50pm	SED			5
4							
5							
6							
7							
8							
9							
10							
* RELINQUISHED BY: (Signature/Print)		Date: (YY/MM/DD)	Time	RECEIVED BY: (Signature/Print)		Date: (YY/MM/DD)	Time
Lauren Bowser		09/03/21	11:30am	PATR GRACE			
* UNLESS OTHERWISE AGREED TO IN WRITING, WORK SUBMITTED ON THIS CHAIN OF CUSTODY IS SUBJECT TO BV LABS' 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.BVLABS.COM/TERMS-AND-CONDITIONS.						# Jars used and not submitted	Lab Use Only
* 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.						Time Sensitive	Temperature (°C) on Receipt
							3, 4, 6, 5, 4, 5, 4, 2, 5
						Custody Seal Intact on Cooler?	
						Yes	No
						White: BV Labs	Yellow: Client

