

Nova Scotia Lands Inc.

**2020 ANNUAL GROUNDWATER QUALITY MONITORING REPORT
TRENTON COMMERCIAL PARK, CIVIC NO. 34 POWER PLANT
ROAD, TRENTON, NS**

February 23, 2021

2001756.000

FINAL REPORT



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Executive Summary

At the request of Nova Scotia Lands Inc. (NS Lands), Englobe Corp. (Englobe) conducted groundwater sampling events in May and October 2020 including the sampling and testing of seven (7) specified groundwater monitor wells with interpretation of the analytical results in an annual report. Toxicity testing of surface water collected at three (3) locations adjacent to the facility was also carried out in May 2020. This work was completed as per details outlined in Section 4 (Groundwater Monitoring) of the Nova Scotia Environment (NSE) Industrial Approval No. 2020-2690529-00.

Based on the field observations and analytical results obtained, we make the following conclusions and statements on the identification of any groundwater or surface water discharge impacts as a result of site activities during the 2020 calendar year:

- ▶ The concentration of modified total petroleum hydrocarbons (TPH) and benzene, toluene, ethylbenzene, and xylenes (BTEX) in groundwater collected from the seven monitoring wells did not exceed the NSE Approval criteria in May or October 2020.
- ▶ The pH values collected from the seven monitoring wells at Trenton Commercial Park were reported to be within the range specified in the NSE Approval.
- ▶ Concentrations of iron in monitoring wells MW1, MW3 (in October), and MW11 exceeded both the maximum grab sample concentration limit and the average annual concentration limit. The reason for the elevated iron concentrations at MW1, MW3 and MW11 is unknown.
- ▶ Concentrations of manganese in monitoring wells MW1, MW3, and MW4 exceeded both the maximum grab sample concentration limit and the average annual concentration limit. MacGregor (June 2013) reported similar manganese concentrations at these locations dating back to at least April 2003, suggesting that elevated manganese concentrations may be the result of historic buried fill materials on site.
- ▶ All remaining parameters that require monitoring by NSE have been documented to satisfy the limits or are within the ranges stipulated by NSE under Approval No. 2020-2690529-00.
- ▶ Concentrations of several volatile organic compounds (VOCs) in groundwater collected at monitoring well MW6 in May and October 2020 were reported above the laboratory detection limit. There are no NSE Approval limits for VOCs specified in the NSE Approval. The reported VOC concentrations satisfy the NSE Tier 1 EQS. The source of VOCs is likely not from site activities, as monitoring well MW6 is considered an upgradient well.

In conclusion, the annual groundwater sampling from 2020 has not identified any impacts resulting from on-site activities. Additional site work regarding petroleum hydrocarbons impacts at MW1 and continued sampling for VOCs at MW6 are recommended.

The next monitoring event is scheduled for April 2021 and will be conducted by Englobe using the sampling methodology discussed herein.

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1 Introduction

Englobe Corp. (Englobe) was retained by Nova Scotia Lands Inc. (NS Lands) to undertake semi-annual groundwater monitoring and annual toxicity testing for the Trenton Commercial Park in Trenton, Nova Scotia. The purpose of the work herein by Englobe is to satisfy requirements set out by Nova Scotia Environment (NSE) in their Approval 2020-2690529-00 (dated September 21, 2020). The groundwater program includes semi-annual sampling of seven (7) existing groundwater monitoring wells, laboratory testing for predetermined parameters, interpretation of results and publishing of the data with recommendations as required in an annual report as per Section 4 (Groundwater Monitoring – subsections 4(a), 4(b) and 4(e)). The annual toxicity testing includes the collection of toxicity samples from three (3) pre-assigned surface water sampling locations as per Section 5 (subsection 5(c) - toxicity testing only, and 5(d)) of the NSE Approval. A site plan showing the Trenton Commercial Park site, monitor well locations and toxicity sample locations is provided in Figure 1 (Appendix A).

The Trenton Commercial Park site is located at Civic No. 34 Power Plant Road on the eastern bank of the East River of Pictou County in Trenton, Nova Scotia. It has an approximate area of 0.4 square kilometres and extends almost 1.6 kilometers from end to end. The site is located on the west side of Main Street and the main Canadian National Railway (CNR) rail line and extends adjacent to the waters of the East River. The site slopes downward toward the west-northwest in the southern portion of the site, and toward the northeast in the northern reaches. Groundwater flow direction typically follows topography. Regional groundwater flow direction is northwest toward the East River.

Trenton Commercial Park has a history of industrial operations from 1872 until 2016 including steel mill and forge operations, shipbuilding, and wind tower production. The site has operated under several names throughout the years including Hope Iron Works, Nova Scotia Steel Company, Eastern Car Company, DOSCO, Hawker Siddeley Canada Inc., Trenton Works Lavalin Inc., TrentonWorks, and Daewoo Shipbuilding and Marine Engineering (DSME) Trenton; however, the collective legacy industrial lands inhabiting all of these former operations is currently named Trenton Commercial Park. There have been significant changes at the site throughout recent history including the closure of site operations in 2008, and the Industrial Approval for operation of a wind turbine manufacturing facility in 2010; the wind turbine facility ceased operations in February 2016.

2 Background

As discussed by MacGregor and Associates (MacGregor) in their Data Report: Groundwater and Discharge Monitoring - May 2013 - DSTN DSME TRENTON report (dated June 25, 2013), the property at 34 Power Plant Road was used as a railcar manufacturing facility operated by numerous owners from 1875 to May 2007. Between May 2007 and July 2010, the site was closed due to bankruptcy and managed by Ernst Young of Halifax, and in July 2010 DSME Trenton acquired the property from the Province of Nova Scotia. Since then, closure of the Nova Forge site, which shared a portion of the former TrentonWorks property with DSME Trenton, due to a large fire on January 24, 2012, was announced in December 2012. DSME Trenton obtained an Industrial Approval from NSE for 'operating a Windmill Manufacturing Facility where an anodizing process will be carried out' (effective January 1, 2013 and expiry February 27, 2018). We understand that, although the wind turbine facility is no longer in operation and the site was acquired by NS Lands, NS Lands is now responsible for fulfilling the monitoring requirements of the NSE Approval. The NSE Approval has been reissued under Approval No. 2020-2690526-00 on September 21, 2020, valid through September 21, 2030.

Monthly discharge and semi-annual groundwater monitoring have been conducted on the site since 1996. Previous monitoring at the site has been largely conducted by MacGregor, and their annual reports have been provided to the property owner and to NSE. Since the mid-2000s, Englobe has reviewed many of these historical reports and has been provided the report from MacGregor (June 2013) for our files. Englobe completed the 2014 annual groundwater quality monitoring report for DSME Trenton, which contained data from the 2013 groundwater and toxicity sampling (dated February 4, 2014) and included the MacGregor report as an appendix in the report.

The June 2013 MacGregor report also included analytical results and discussion of effluent sampling at TW1, TW3 and TW4 (April and May 2013) as well as annual toxicity monitoring. These results are required as per Sections 5(c) and 5(d) of the NSE Approval and were provided in Appendix 2 of the 2013 MacGregor report. However, additional monitoring of TW1, TW3 and TW4 has reportedly been conducted by DSME Trenton personnel and, apart from the annual toxicity testing results, are not included in this 'Groundwater Quality Monitoring' report by Englobe.

Englobe has completed annual groundwater quality monitoring and reporting from 2014-2018 for the former property owner, DSME Trenton, as well as for NS Lands. The annual groundwater sampling events have historically been conducted in April and October and included the sampling and testing of seven specified groundwater monitor wells with interpretation of the analytical results in an annual report. Toxicity testing of surface water collected at TW1, TW3 and TW4 has also been carried out during the April events. The work was completed to satisfy Section 4 (Groundwater Monitoring) of DSME Trenton's NSE Industrial Approval No. 2010-072182-R02.

Based on the field observations and analytical results obtained during the most recent year of monitoring in 2018, the following conclusions and statements on the identification of any groundwater or surface water discharge impacts as a result of site activities during the 2018 calendar year were made:

- ▶ The concentration of modified total petroleum hydrocarbons (TPH) in groundwater collected from MW1 in October 2018 was equal to, but did not exceed, the NSE Approval criteria.
- ▶ One of the groundwater monitoring wells (MW2) was located in an area of the site that was upgraded in 2011, and reportedly decommissioned. Englobe was unable to locate this well at the time of the site visit. For this reason, no groundwater samples were collected from this location in 2018.
- ▶ Concentrations of iron in groundwater at monitoring wells MW1, MW3, and MW11 exceeded both the maximum grab sample concentration limit and the average annual concentration limit. The reason for the elevated iron concentrations at MW1, MW3 and MW11 is unknown.
- ▶ Concentrations of manganese in monitoring wells MW1 and MW4 exceeded both the maximum grab sample concentration limit and the average annual concentration limit. Concentrations of manganese in monitoring wells MW3 and MW14 exceeded the average annual concentration limit. MacGregor (June 2013) reported similar manganese concentrations at these locations dating back to at least April 2003. They suggested that elevated manganese concentrations may be the result of buried fill materials on the site.
- ▶ All remaining parameters that require monitoring by NSE have been documented to satisfy the limits or are within the ranges stipulated by NSE under Approval No. 2010-072182-R02.

- ▶ Concentrations of several volatile organic compounds (VOCs) in groundwater collected at monitoring well MW6 in April and October 2018 were reported above the laboratory detection limits. There are no NSE Approval limits for VOCs specified in the industrial approval for the site. The reported VOC concentrations satisfy the NSE Tier 1 Environmental Quality Standards (EQS). The source of VOCs is likely not from activities at the Trenton Commercial Park site, as monitoring well MW6 is considered an upgradient well.

It was concluded that the annual groundwater sampling from 2018 did not identify any impacts resulting from on-site activities. Additional site work regarding the petroleum hydrocarbon impacts at MW1 and continued sampling for VOCs at MW6 were recommended as part of the annual monitoring program.

3 Scope of Work

The purpose of the current work by Englobe is to satisfy requirements set out by NSE in Section 10 (Groundwater Monitoring – subsections 10(a), 10(b) and 10(f)) and Section 7 (subsection 7(b) – toxicity testing only, and 7(c)) of the Approval 2020-2690529-00 (dated September 21, 2020). In the Request for Proposals from NS Lands, it specified that seven (7) groundwater monitoring wells and three (3) surface water (effluent) locations are to be sampled, followed by laboratory testing for the predetermined parameters on the samples. Interpretation of the analytical results are to be provided in an annual report as per details outlined in selected portions of Section 10 and Section 7 of the Industrial Approval from the NSE (Approval 2020-2690529-00, dated September 21, 2020).

Section 10 of the NSE Approval specifies that seven (7) groundwater monitoring stations identified as MW1, MW3, MW4, MW6, MW9, MW11, and MW14 shall be monitored twice annually, April and October, for the following parameters (as listed in Appendix 1 of the NSE Industrial Approval):

- ▶ Conductivity and pH;
- ▶ Total petroleum hydrocarbons (TPH); and
- ▶ Metals parameters including iron, zinc, manganese, lead, and arsenic.

According to MacGregor (2013), the groundwater monitoring location identified as MW2 was decommissioned with the approval of NSE in the summer of 2011. Therefore, monitoring well MW2 has not been sampled as part of Englobe's monitoring events since April 2014.

Section 5 of the NSE Approval specifies that acute toxicity shall be monitored on an annual basis during the month of April at the following locations:

- ▶ TW-1 (North Weir Discharge);
- ▶ TW-3 (Outfall at East River); and
- ▶ TW-4 (Theilacker Crane Discharge).

The annual report shall summarize and interpret the groundwater monitoring data and identify any impacts as a result of site activities (during the previous calendar year).

Halocarbons, a class of VOC, was reported by the laboratory in both groundwater samples collected from monitoring well MW6 in 2013. Additional VOC analysis at MW6 was recommended in 2014 but was not approved. TPH and benzene, toluene, ethylbenzene and xylene (BTEX) testing from both events in 2014 and 2015 did not report any halocarbon detections in the groundwater. VOCs were detected in the groundwater at MW6 during the October 2016 sampling event and the spring and fall sampling events in 2017 and 2018; the concentrations identified during these events satisfied the NSE Tier 1 EQS. There are no NSE Approval limits for VOCs specified in the Industrial Approval for the site. VOC assessment in groundwater at MW6 was continued in 2020.

4 Methodology

On May 28 and October 28, 2020 Englobe personnel conducted monitoring of the specified groundwater wells for static water level and accessed each well for the purpose of sampling for laboratory testing.

Static water levels were measured using a Solinst electronic water level tape. Wells were purged of three well volumes (with Waterra tubing, which was located in some wells, or a new, factory wrapped groundwater bailer) and left to recover. For collection of the water samples for laboratory testing, a 1-litre (1.5" diameter) clear dedicated PVC bailer was installed in each well to retrieve the groundwater samples. A site plan showing the location of the monitoring wells is provided in Figure 1 (Appendix A). Note: additional monitoring wells may be present at the Trenton Commercial Park site; however, they are not shown on the attached plan.

In accordance with laboratory protocols, groundwater samples were collected for metals, conductivity, pH, TPH/BTEX (Atlantic PIRI methodology), and VOC (at MW6 only) analysis.

Water samples for the May and October 2020 monitoring events were collected in laboratory-supplied containers (metals samples were field-filtered and preserved), placed in cool storage and transported to the Bureau Veritas laboratory in Bedford, NS for analysis.

Free phase petroleum product was encountered and measured by Englobe personnel in monitoring well MW11 in October 2013; one sample was collected in 2013 from MW11 for identification of the petroleum product and was identified by the laboratory as 'lube oil fraction'. Due to the presence of free product during the April/October 2014, June/November 2015, and April/October 2016 monitoring events, samples from MW11 were not collected. Samples were collected from this well during the 2017, 2018, and 2020 sampling events as there was no longer free product observed in this well.

On May 28, 2020 toxicity samples were collected from the three specified surface water (effluent) locations. For collection of the water samples, 20-litre buckets and liners (supplied by the laboratory) were used. The samples were delivered the same day to Harris Industrial Testing Service Ltd. in South Rawdon, NS for toxicity testing (96-hour single concentration acute lethality test using method EPS 1/RM/13 2nd Edition Dec. 2000 with May 2007 Amendments). The locations of the effluent samples are shown in Figure 1 (Appendix A).

5 Field Observations

During the site work, all monitoring wells appeared to be in good condition. Groundwater levels measured at each location are presented in Table 5-1 (page 5).

Table 5-1 - Groundwater Levels and Field Observations - DSME Trenton, Civic No. 34 Power Plant Road, Trenton, NS

| Location | Field Data | | | |
|----------|--------------|------------------|--------------|------------------|
| | May 28, 2020 | | Oct 28, 2020 | |
| | GW Depth (m) | Notes | GW Depth (m) | Notes |
| MW1 | 2.58 | PHC odour | 4.58 | PHC odour |
| MW3 | 2.56 | Silty | 1.63 | Silty |
| MW4 | 3.52 | Silty | 3.50 | Silty |
| MW6 | 2.66 | Sheen | 2.92 | - |
| MW9 | 4.20 | Silty | 3.66 | PHC odour |
| MW11 | 2.66 | PHC odour, sheen | 3.08 | PHC odour, sheen |
| MW14 | 2.59 | - | 3.18 | - |

During the May and October 2020 sampling events, all monitor wells were observed to be protected against tampering with locked covers, as per the NSE Approval Section 10 (g).

6 Groundwater Analytical Results

Groundwater analytical results are compared with concentration limits from Appendix A of the NSE Approval No. 2020-2690526-00 for the Trenton Commercial Park site. The 2013 NSE Tier 1 EQS for a non-potable site with commercial receptors and coarse-grained soil are also provided for reference in Table B1 (Appendix B). General chemistry results (pH and conductivity) as well as the five select metals parameters (iron, zinc, manganese, lead and arsenic) are presented in Table B2 (Appendix B) compared with the concentration limits from Appendix 1 of the NSE Approval No. 2020-2690526-00. VOCs analytical results are compared with the 2013 NSE Tier 1 EQS values, provided in Table B3 (Appendix B).

The tables include both the May and October 2020 analytical results (collected and reported by Englobe). Copies of the laboratory certificates are provided in Appendix C.

6.1 TPH/BTEX Compounds

Concentrations of modified TPH in groundwater samples collected from the seven monitoring wells did not exceed the NSE Approval criteria of 15 mg/L.

Concentrations of modified TPH in groundwater collected from MW3, MW4, and MW6 were reported as below the laboratory detection limit (0.090 mg/L) and below the NSE approval criteria during both the May and October 2020 sampling events.

Concentrations of modified TPH in groundwater collected from MW1, MW9, MW11 and MW14 ranged from 0.17 mg/L (MW14 in May) to 14 mg/L (MW1 in October). All concentrations of modified TPH were below the NSE Approval criteria during both the May and October 2020 sampling events.

Concentrations of BTEX in groundwater samples collected from MW3, MW4, MW6, MW9, MW11, and MW14 were reported as below the laboratory detection limits (0.0010 or 0.0020 mg/L) and below the NSE Tier 1 EQS during both the May and October 2020 sampling events. However, the concentration of BTEX in the samples collected from MW1 in May and October 2020 were

reported above the laboratory detection limits. The results reported from MW1 in both sampling events ranged from 0.009 mg/L (MW1 in May) to 0.014 mg/L (MW1 in October) for toluene, 0.79 mg/L (MW1 in May) to 0.87 mg/L (MW1 in October) for ethylbenzene, and 0.79 mg/L (MW1 in May) to 1.0 mg/L (MW1 in October) for xylenes. These concentrations for toluene, ethylbenzene and xylenes are below the NSE Approval criteria.

6.2 Conductivity and pH

There is no limit or range for conductivity specified in the Industrial Approval for Trenton Commercial Park. Conductivity in the wells ranged from 140 $\mu\text{S}/\text{cm}$ (MW6) to 4,100 $\mu\text{S}/\text{cm}$ (MW1) in May 2020, and 210 (MW6) to 3,300 $\mu\text{S}/\text{cm}$ (MW1) in October 2020.

The NSE Approval range for pH is 6.0 to 8.5. In May 2020 pH ranged from 6.58 (MW14) to 7.52 (MW9), while in October 2020, the pH ranged from 6.4 (MW6) to 7.39 (MW9). No pH values were reported outside the range of the NSE Approval.

6.3 Metals

The NSE Approval provides limits for maximum grab sample concentrations and average annual concentrations for arsenic, iron, lead, manganese and zinc. These results are tabulated in Table 3 (Appendix B) and discussed below.

6.3.1 Arsenic

Concentrations of arsenic in groundwater samples collected from the seven monitoring wells did not exceed the NSE Approval limits for grab samples (1,000 $\mu\text{g}/\text{L}$) or annual average (500 $\mu\text{g}/\text{L}$) during either the May or October 2020 sampling events.

6.3.2 Iron

Concentrations of iron in groundwater samples collected from MW1 (24,000 $\mu\text{g}/\text{L}$ in May and 14,000 $\mu\text{g}/\text{L}$ in October), MW3 (9,400 $\mu\text{g}/\text{L}$ in October), and MW11 (20,000 $\mu\text{g}/\text{L}$ in May and 4,900 $\mu\text{g}/\text{L}$ in October) exceeded the NSE Approval limit for grab samples (7,000 $\mu\text{g}/\text{L}$) and for annual average concentration (3,500 $\mu\text{g}/\text{L}$).

Concentrations of iron in groundwater samples collected from MW3 (May), MW4, MW6, MW9, and MW14 did not exceed the NSE Approval limits.

6.3.3 Lead

Concentrations of lead in groundwater samples collected from the seven monitoring wells did not exceed the NSE Approval limits for grab samples (400 $\mu\text{g}/\text{L}$) or annual average concentration (200 $\mu\text{g}/\text{L}$) during either the May or October 2020 sampling events.

6.3.4 Manganese

Concentrations of manganese in groundwater samples collected from MW1 (31,000 $\mu\text{g}/\text{L}$ in May and 15,000 $\mu\text{g}/\text{L}$ in October), MW3 (4,500 $\mu\text{g}/\text{L}$ in May and 5,700 $\mu\text{g}/\text{L}$ in October), and MW4 (5,600 $\mu\text{g}/\text{L}$ in May and 4,200 $\mu\text{g}/\text{L}$ in October) exceeded the NSE Approval limits for grab samples (4,000 $\mu\text{g}/\text{L}$) and for annual average concentration (2,000 $\mu\text{g}/\text{L}$).

Concentrations of manganese in groundwater samples collected from the seven monitoring wells did not exceed the NSE Approval limit for annual average concentration (2,000 µg/L) during either the May or October 2020 sampling events.

Concentrations of manganese in groundwater samples collected from MW6, MW9, MW11, and MW14 (May) did not exceed the NSE Approval limits.

6.3.5 Zinc

Concentrations of zinc in groundwater samples collected from the seven monitoring wells did not exceed the NSE Approval limits for grab samples (1,000 µg/L) or annual average concentration (500 µg/L) during either the May or October 2020 sampling events.

6.4 VOCs

Concentrations of VOCs in groundwater samples collected from MW6 were reported as below laboratory detection limits and below NSE Tier 1 EQS except for cis-1,2-dichloroethylene (2.5 µg/L in May and 8.6 µg/L in October), trichloroethylene (19 µg/L in May and 34 µg/L in October), and vinyl chloride (2.3 µg/L in October). These values are below the respective 2013 NSE Tier 1 EQS for cis-1,2-dichloroethylene (30 µg/L), trichloroethylene (250 µg/L), and vinyl chloride (13 µg/L).

7 Toxicity Testing Results

The NSE Approval indicates that samples collected for toxicity must “Pass” a 96-hour static fish toxicity test.

For all three locations tested (TW1, TW3 and TW4) in May 2020, the laboratory reported 0% Mortality (Pass). The laboratory certificates are provided in (Appendix C).

8 Conclusions

Based on the field observations and analytical results obtained, we make the following conclusions and statements on the identification of any groundwater or surface water discharge impacts as a result of site activities during the 2020 calendar year:

- ▶ The concentration of modified TPH and BTEX in groundwater collected from the seven monitoring wells did not exceed the NSE Approval criteria in May or October 2020.
- ▶ The pH values collected from the seven monitoring wells at Trenton Commercial Park were reported to be within the range specified in the NSE Approval.
- ▶ Concentrations of iron in monitoring wells MW1, MW3 (in October), and MW11 exceeded both the maximum grab sample concentration limit and the average annual concentration limit. The reason for the elevated iron concentrations at MW1, MW3 and MW11 is unknown.
- ▶ Concentrations of manganese in monitoring wells MW1, MW3, and MW4 exceeded both the maximum grab sample concentration limit and the average annual concentration limit. MacGregor (June 2013) reported similar manganese concentrations at these locations dating back to at least April 2003, suggesting that elevated manganese concentrations may be the result of historic buried fill materials on site.

- ▶ All remaining parameters that require monitoring by NSE have been documented to satisfy the limits or are within the ranges stipulated by NSE under Approval No. 2020-2690529-00.
- ▶ Concentrations of several VOCs in groundwater collected at monitoring well MW6 in May and October 2020 were reported above the laboratory detection limit. There are no NSE Approval limits for VOCs specified in the NSE Approval. The reported VOC concentrations satisfy the NSE Tier 1 EQS. The source of VOCs is likely not from site activities, as monitoring well MW6 is considered an upgradient well.

In conclusion, the annual groundwater sampling from 2020 has not identified any impacts resulting from on-site activities. Additional site work regarding petroleum hydrocarbon impacts at MW1 and continued sampling for VOCs at MW6 are recommended.

The next monitoring event is scheduled for April 2021 and will be conducted by Englobe using the sampling methodology discussed herein.

9 Report Use and Conditions

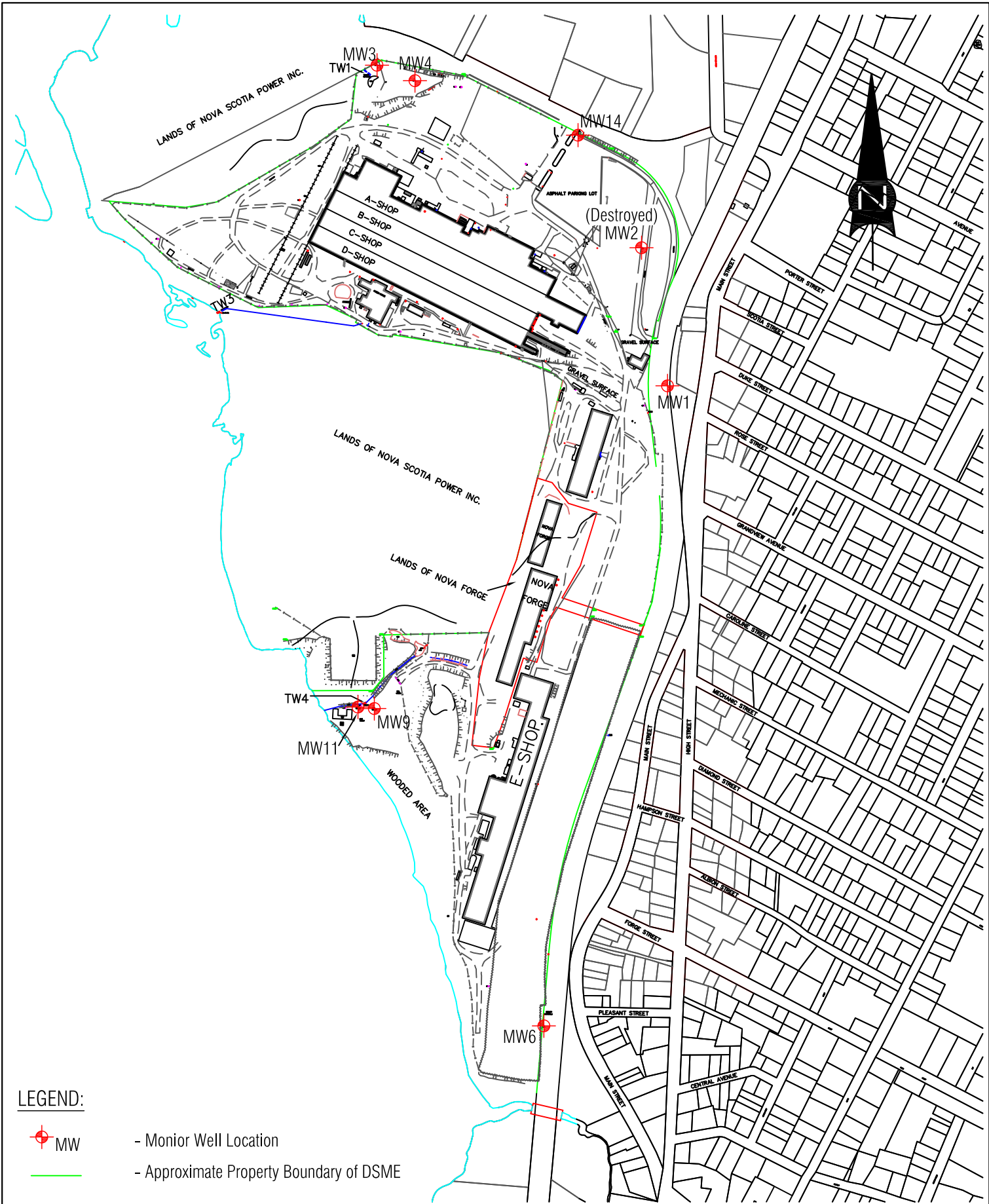
This report was prepared for the exclusive use of Nova Scotia Lands Inc. and is based on data and information obtained during site visits by Englobe Corp., personnel in May and October 2020 for the purpose of collection of groundwater samples from seven (7) existing monitoring wells and surface water discharge from three (3) sampling locations. The report is based solely upon the condition of the property on the dates of such site visits, supplemented by information obtained and described herein including tabulation and interpretation of selected laboratory groundwater and surface water toxicity analyses.

The scope of the services performed may not be appropriate to satisfy the needs of third parties. Any use which a third party makes of this report, or any reliance on or decisions made based on it, is the sole responsibility of the third party. Englobe Corp. accepts no responsibility for damages, if any, suffered by any third party as a result of decisions made or actions based on this report.


The statements and conclusions presented in this report are professional opinions based upon visual observations made during the scope of work identified herein.

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

Appendix A Site Map Showing Monitor Well and Surface Water Sampling Locations



LEGEND:

-  MW - Monitor Well Location
-  - Approximate Property Boundary of DSME



Site Plan Showing Monitor Well Locations
Nova Scotia Lands Inc. - 2020 Annual Report
Trenton Commercial Park, Trenton, NS

Appendix B Tabulated Analytical Results

TABLE B1: TOTAL PETROLEUM HYDROCARBON (TPH) COMPOUNDS in Groundwater

Client: Nova Scotia Lands Inc.

Site Location: Civic No. 34 Power Plant Road, Trenton, NS

Englobe Project No.: 2001756

| Parameter | | Units | 2013 NSE Tier 1 EQS ¹ | NSE Approval No. 2010-072182-R02 Concentration Limit | Sample ID | | | | | | | |
|------------------------------------|---|-------|---|--|--|---|------------|------------|------------|------------|------------|------------|
| | | | | | Date Sampled | | | | | | | |
| | | | | | MW1 | | MW3 | | MW4 | | MW6 | |
| | | | | | 2020-05-28 | 2020-10-28 | 2020-05-28 | 2020-10-28 | 2020-05-28 | 2020-10-28 | 2020-05-28 | 2020-10-28 |
| BTEX (mg/L) | Benzene | mg/L | 20 | - | <0.0030 | 0.009 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | Toluene | mg/L | 20 | - | 0.0089 | 0.014 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | Ethylbenzene | mg/L | 20 | - | 0.79 | 0.87 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | Xylenes | mg/L | 20 | - | 0.79 | 1.0 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 |
| Modified TPH (mg/L) | Gas Range | mg/L | - | - | 10 | 12 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 |
| | Fuel Range (C ₁₀ -C ₁₆) | mg/L | - | - | 2.5 | 2.7 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| | Fuel Range (C ₁₆ -C ₂₁) | mg/L | - | - | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 | <0.050 |
| | Lube Range (>C ₂₁ -C ₃₂) | mg/L | - | - | 0.092 | 0.1 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 |
| Total Modified TPH - Tier 1 (mg/L) | | mg/L | 20 as gas 20 as fuel oil 20 as lube oil | 15 | 13 | 14 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 |
| Product Resemblance | | - | - | - | One product in the gas/fuel oil range. Possible lube oil fraction. | One product in the gas/fuel oil range. Unidentified compound(s) in lube oil fraction. | - | - | - | - | - | - |

| Parameter | | Units | 2013 NSE Tier 1 EQS ¹ | NSE Approval No. 2010-072182-R02 Concentration Limit | Sample ID | | | | | | | |
|------------------------------------|---|-------|---|--|--------------------|--------------------|--------------------|---|------------|----------------|------------|----------------|
| | | | | | Date Sampled | | | | | | | |
| | | | | | MW9 | | MW11 | | MW14 | MW14 Duplicate | MW14 | MW14 Duplicate |
| | | | | | 2020-05-28 | 2020-10-28 | 2020-05-28 | 2020-10-28 | 2020-05-28 | 2020-05-28 | 2020-10-28 | 2020-10-28 |
| BTEX (mg/L) | Benzene | mg/L | 20 | - | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | Toluene | mg/L | 20 | - | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | Ethylbenzene | mg/L | 20 | - | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 |
| | Xylenes | mg/L | 20 | - | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 |
| Modified TPH (mg/L) | Gas Range | mg/L | - | - | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 |
| | Fuel Range (C ₁₀ -C ₁₆) | mg/L | - | - | <0.050 | 0.051 | 0.17 | 0.24 | 0.07 | <0.050 | <0.050 | <0.050 |
| | Fuel Range (C ₁₆ -C ₂₁) | mg/L | - | - | 0.08 | 0.21 | 0.47 | 0.76 | 0.10 | <0.050 | <0.050 | <0.050 |
| | Lube Range (>C ₂₁ -C ₃₂) | mg/L | - | - | 0.58 | 1.3 | 4.20 | 7.7 | <0.090 | <0.090 | <0.090 | <0.090 |
| Total Modified TPH - Tier 1 (mg/L) | | mg/L | 20 as gas 20 as fuel oil 20 as lube oil | 15 | 0.66 | 1.5 | 4.8 | 8.7 | 0.17 | <0.090 | <0.090 | <0.090 |
| Product Resemblance | | - | - | - | Lube oil fraction. | Lube oil fraction. | Lube oil fraction. | One product in fuel oil range. Lube oil fraction. | - | - | - | - |

Notes:

| | |
|-------|--|
| value | - value exceeds NSE Limit for Approval 2010-072182-R02 |
| value | - value exceeds NSE Limit for Approval 2010-072182-R02 and 2013 NSE Tier 1 EQS |

The NSE Approval Limit of 15 mg/L for TPH applies both to Average Annual Concentration Limit and Maximum Grab Sample Concentration Limit

¹ 2013 Nova Scotia Environment Tier 1 *Environmental Quality Standards* at a commercial site with non-potable groundwater and coarse-grained soil.

TABLE B2: METALS, pH and CONDUCTIVITY in Groundwater

Client: Nova Scotia Lands Inc.

Site Location: Civic No. 34 Power Plant Road, Trenton, NS

Englobe Project No.: 2001756

| Parameter | Units | NSE Approval No. 2010-072182-R02 Maximum Grab Sample Concentration Limit/Range | NSE Approval No. 2010-072182-R02 Average Annual Concentration Limit/Range | Sample ID | | | | | | | | | | | | | | | |
|--------------|-------|--|---|--------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|------------|--------------------|------------|--------------------|
| | | | | Date Sampled | | | | | | | | | | | | | | | |
| | | | | MW1 | | MW3 | | MW4 | | MW6 | | MW9 | | MW11 | | MW14 | MW14 Lab Duplicate | MW14 | MW14 Lab Duplicate |
| | | | | 2020-05-28 | 2020-10-28 | 2020-05-28 | 2020-10-28 | 2020-05-28 | 2020-10-28 | 2020-05-28 | 2020-10-28 | 2020-05-28 | 2020-10-28 | 2020-05-28 | 2020-10-28 | 2020-05-28 | 2020-05-28 | 2020-10-28 | 2020-10-28 |
| pH | pH | 6.0-8.5 | 6.0-8.5 | 7.01 | 7.03 | 6.99 | 6.91 | 6.59 | 6.57 | 6.65 | 6.4 | 7.52 | 7.39 | 7.11 | 7.38 | 6.71 | 6.63 | 6.58 | 6.63 |
| Conductivity | µS/cm | - | - | 4100 | 3300 | 820 | 680 | 330 | 330 | 140 | 210 | 540 | 700 | 600 | 640 | 530 | 550 | 630 | 640 |
| Arsenic | µg/L | 1000 | 500 | 1.0 | 3.1 | 3.7 | 2.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | <1.0 | 1.8 | 1.3 | <1.0 | <1.0 | <1.0 | <1.0 |
| Iron | µg/L | 7000 | 3500 | 24000 | 14000 | <50 | 9400 | <50 | <50 | <50 | <50 | 220 | 1500 | 20000 | 4900 | <50 | <50 | <50 | <50 |
| Lead | µg/L | 400 | 200 | <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 |
| Manganese | µg/L | 4000 | 2000 | 31000 | 15000 | 4500 | 5700 | 5600 | 4200 | 6.4 | 37 | 780 | 1400 | 1600 | 1500 | 1300 | 1300 | 1900 | 2000 |
| Zinc | µg/L | 1000 | 500 | 7 | <5.0 | 24 | <5.0 | 55 | 47 | 7.4 | 7.4 | 8.1 | 5.9 | 5.9 | <5.0 | 160 | 160 | 56 | 56 |

Notes:

- value - value exceeds NSE Limit (Approval 2010-072182-R02) for Grab Sample Concentration
- value - value exceeds NSE Limit (Approval 2010-072182-R02) for Annual Average Concentration
- value - value exceeds both NSE Approval Limits

TABLE B3: VOLATILE ORGANIC COMPOUNDS (VOCs) COMPOUNDS in Groundwater

Client: Nova Scotia Lands Inc.

Site Location: Civic No. 34 Power Plant Road, Trenton, NS

Englobe Project No.: 2001756

| Parameter | Units | 2013 NSE EQS ¹ | Sample ID | | |
|-------------------------------------|-------|---------------------------|--------------|-------------------|------------|
| | | | Date Sampled | | |
| | | | MW6 | MW6 Lab Duplicate | MW6 |
| | | | 2020-05-28 | 2020-05-28 | 2020-10-28 |
| Chlorobenzenes | | | | | |
| 1,2-Dichlorobenzene | µg/L | 64000 | <0.50 | <0.50 | <0.50 |
| 1,3-Dichlorobenzene | µg/L | - | <1.0 | <1.0 | <1.0 |
| 1,4-Dichlorobenzene | µg/L | 2600 | <1.0 | <1.0 | <1.0 |
| Chlorobenzene | µg/L | 180 | <1.0 | <1.0 | <1.0 |
| Volatile Organics | | | | | |
| 1,1,1-Trichloroethane | µg/L | 13000 | <1.0 | <1.0 | <1.0 |
| 1,1,2,2-Tetrachloroethane | µg/L | 630 | <0.50 | <0.50 | <0.50 |
| 1,1,2-Trichloroethane | µg/L | 910 | <1.0 | <1.0 | <1.0 |
| 1,1-Dichloroethane | µg/L | 6600 | <2.0 | <2.0 | <2.0 |
| 1,1-Dichloroethylene | µg/L | 490 | <0.50 | <0.50 | <0.50 |
| 1,2-Dichloroethane | µg/L | 11300 | <1.0 | <1.0 | <1.0 |
| 1,2-Dichloropropane | µg/L | 300 | <0.50 | <0.50 | <0.50 |
| Benzene | µg/L | 20000 | <1.0 | <1.0 | <1.0 |
| Bromodichloromethane | µg/L | - | <1.0 | <1.0 | <1.0 |
| Bromoform | µg/L | 84000 | <1.0 | <1.0 | <1.0 |
| Bromomethane | µg/L | 33 | <0.50 | <0.50 | <0.50 |
| Carbon Tetrachloride | µg/L | 6.8 | <0.50 | <0.50 | <0.50 |
| Chloroethane | µg/L | - | <8.0 | <8.0 | <8.0 |
| Chloroform | µg/L | 40 | <1.0 | <1.0 | <1.0 |
| Chloromethane | µg/L | - | <8.0 | <8.0 | <8.0 |
| cis-1,2-Dichloroethylene | µg/L | 30 | 2.5 | 2.5 | 8.6 |
| cis-1,3-Dichloropropene | µg/L | - | <0.50 | <0.50 | <0.50 |
| Dibromochloromethane | µg/L | 10000 | <1.0 | <1.0 | <1.0 |
| Ethylbenzene | µg/L | 20000 | <1.0 | <1.0 | <1.0 |
| Ethylene Dibromide | µg/L | 51 | <0.20 | <0.20 | <0.20 |
| Methyl t-butyl ether (MTBE) | µg/L | 4300 | <2.0 | <2.0 | <2.0 |
| Methylene Chloride(Dichloromethane) | µg/L | 43000 | <3.0 | <3.0 | <3.0 |
| o-Xylene | µg/L | - | <1.0 | <1.0 | <1.0 |
| p+m-Xylene | µg/L | - | <2.0 | <2.0 | <2.0 |
| Styrene | µg/L | 26000 | <1.0 | <1.0 | <1.0 |
| Tetrachloroethylene | µg/L | 1300 | <1.0 | <1.0 | <1.0 |
| Toluene | µg/L | 20000 | <1.0 | <1.0 | <1.0 |
| Total Trihalomethanes | µg/L | - | <1.0 | <1.0 | <1.0 |
| Total Xylenes | µg/L | 20000 | <1.0 | <1.0 | <1.0 |
| trans-1,2-Dichloroethylene | µg/L | 30 | <0.50 | <0.50 | <0.50 |
| trans-1,3-Dichloropropene | µg/L | - | <0.50 | <0.50 | <0.50 |
| Trichloroethylene | µg/L | 250 | 19 | 19 | 34 |
| Trichlorofluoromethane (FREON 11) | µg/L | - | <8.0 | <8.0 | <8.0 |
| Vinyl Chloride | µg/L | 13 | <0.50 | <0.50 | 2.3 |

Notes: value - value exceeds NSE Tier 1 EQS

¹ 2013 Nova Scotia Environment Tier 1 *Environmental Quality Standards* at a commercial site with non-potable groundwater and coarse-grained soil.

Appendix C Laboratory Certificates



Your Project #: 2001756
Your C.O.C. #: 774102-01-01

Attention: Ryan Pellerin

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

Report Date: 2020/06/08
Report #: R6202181
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C0D3175

Received: 2020/05/29, 09:23

Sample Matrix: Water
Samples Received: 10

| Analyses | Quantity | Date | Date | Laboratory Method | Analytical Method |
|-------------------------------------|----------|------------|------------|-------------------|-------------------|
| | | Extracted | Analyzed | | |
| Conductance - water | 10 | N/A | 2020/06/04 | ATL SOP 00004 | SM 23 2510B m |
| TEH in Water (PIRI) | 5 | 2020/06/02 | 2020/06/02 | ATL SOP 00113 | Atl. RBCA v3.1 m |
| TEH in Water (PIRI) | 5 | 2020/06/02 | 2020/06/03 | ATL SOP 00113 | Atl. RBCA v3.1 m |
| Metals Water Diss. MS (1) | 1 | N/A | 2020/06/05 | ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Diss. MS (as rec'd) | 9 | N/A | 2020/06/05 | ATL SOP 00058 | EPA 6020B R2 m |
| pH (2) | 10 | N/A | 2020/06/04 | ATL SOP 00003 | SM 23 4500-H+ B m |
| ModTPH (T1) Calc. for Water | 5 | N/A | 2020/06/03 | N/A | Atl. RBCA v3 m |
| ModTPH (T1) Calc. for Water | 5 | N/A | 2020/06/04 | N/A | Atl. RBCA v3 m |
| Volatile Organic Compounds in Water | 1 | N/A | 2020/06/04 | ATL SOP 00133 | EPA 8260D R4 m |
| VPH in Water (PIRI) | 10 | N/A | 2020/06/03 | ATL SOP 00130 | Atl. RBCA v3.1 m |

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, 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) Sample filtered in laboratory prior to analysis for dissolved metals.

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



Your Project #: 2001756
Your C.O.C. #: 774102-01-01

Attention: Ryan Pellerin

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

Report Date: 2020/06/08
Report #: R6202181
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C0D3175
Received: 2020/05/29, 09:23

Encryption Key

Please direct all questions regarding this Certificate of Analysis to your Project Manager.
Keri Mackay, Customer Experience Team Lead
Email: Keri.MACKAY@bvlabs.com
Phone# (902)420-0203 Ext:294

=====

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

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BUREAU
VERITASBV Labs Job #: COD3175
Report Date: 2020/06/08Englobe Corp
Client Project #: 2001756**RBCA HYDROCARBONS IN WATER (WATER)**

| BV Labs ID | | MTK166 | | MTK167 | MTK168 | MTK169 | MTK170 | | |
|---------------|-------|---------------------|-----|---------------------|---------------------|---------------------|---------------------|-----|----------|
| Sampling Date | | 2020/05/28 12:15 | | 2020/05/28 10:30 | 2020/05/28 10:00 | 2020/05/28 14:10 | 2020/05/28 13:30 | | |
| COC Number | | 774102-01-01 | | 774102-01-01 | 774102-01-01 | 774102-01-01 | 774102-01-01 | | |
| | UNITS | MW1 | RDL | MW3 | MW4 | MW6 | MW9 | RDL | QC Batch |

Petroleum Hydrocarbons

| | | | | | | | | | |
|-------------------------|------|-------------|--------|---------|---------|---------|-------------|--------|---------|
| Benzene | mg/L | <0.0030 (1) | 0.0030 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 6765244 |
| Toluene | mg/L | 0.0089 | 0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 6765244 |
| Ethylbenzene | mg/L | 0.79 | 0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 6765244 |
| Total Xylenes | mg/L | 0.79 | 0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 6765244 |
| C6 - C10 (less BTEX) | mg/L | 10 | 0.090 | <0.090 | <0.090 | <0.090 | <0.090 | 0.090 | 6765244 |
| >C10-C16 Hydrocarbons | mg/L | 2.5 | 0.050 | <0.050 | <0.050 | <0.050 | <0.050 | 0.050 | 6765157 |
| >C16-C21 Hydrocarbons | mg/L | <0.050 | 0.050 | <0.050 | <0.050 | <0.050 | 0.079 | 0.050 | 6765157 |
| >C21-<C32 Hydrocarbons | mg/L | 0.092 | 0.090 | <0.090 | <0.090 | <0.090 | 0.58 | 0.090 | 6765157 |
| Modified TPH (Tier1) | mg/L | 13 | 0.090 | <0.090 | <0.090 | <0.090 | 0.66 | 0.090 | 6763884 |
| Reached Baseline at C32 | mg/L | Yes | N/A | NA | NA | NA | Yes | N/A | 6765157 |
| Hydrocarbon Resemblance | mg/L | COMMENT (2) | N/A | NA | NA | NA | COMMENT (3) | N/A | 6765157 |

Surrogate Recovery (%)

| | | | | | | | | | |
|-------------------------------|---|-----|--|-----|-----|-----|-----|--|---------|
| Isobutylbenzene - Extractable | % | 85 | | 99 | 101 | 101 | 93 | | 6765157 |
| n-Dotriacontane - Extractable | % | 109 | | 114 | 110 | 109 | 105 | | 6765157 |
| Isobutylbenzene - Volatile | % | 104 | | 101 | 98 | 101 | 101 | | 6765244 |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

N/A = Not Applicable

(1) Elevated VPH RDL(s) due to matrix interference.

(2) One product in the gas/fuel oil range. Possible lube oil fraction.

(3) Lube oil fraction.

BUREAU
VERITASBV Labs Job #: COD3175
Report Date: 2020/06/08Englobe Corp
Client Project #: 2001756**RBCA HYDROCARBONS IN WATER (WATER)**

| BV Labs ID | | MTK171 | MTK172 | MTK173 | MTK174 | MTK175 | | |
|---|-------|---------------------|---------------------|--------------|-----------------|--------------|--------|----------|
| Sampling Date | | 2020/05/28 13:00 | 2020/05/28 11:00 | 2020/05/28 | 2020/05/28 | 2020/05/28 | | |
| COC Number | | 774102-01-01 | 774102-01-01 | 774102-01-01 | 774102-01-01 | 774102-01-01 | | |
| | UNITS | MW11 | MW14 | TRIP BLANK | EQUIPMENT BLANK | MW-DUP | RDL | QC Batch |
| Petroleum Hydrocarbons | | | | | | | | |
| Benzene | mg/L | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 6765244 |
| Toluene | mg/L | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 6765244 |
| Ethylbenzene | mg/L | <0.0010 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 6765244 |
| Total Xylenes | mg/L | <0.0020 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 6765244 |
| C6 - C10 (less BTEX) | mg/L | <0.090 | <0.090 | <0.090 | <0.090 | <0.090 | 0.090 | 6765244 |
| >C10-C16 Hydrocarbons | mg/L | 0.17 | 0.074 | <0.050 | <0.050 | <0.050 | 0.050 | 6765157 |
| >C16-C21 Hydrocarbons | mg/L | 0.47 | 0.096 | <0.050 | <0.050 | <0.050 | 0.050 | 6765157 |
| >C21-<C32 Hydrocarbons | mg/L | 4.2 | <0.090 | <0.090 | 0.098 | <0.090 | 0.090 | 6765157 |
| Modified TPH (Tier1) | mg/L | 4.8 | 0.17 | <0.090 | 0.098 | <0.090 | 0.090 | 6763884 |
| Reached Baseline at C32 | mg/L | No | Yes | NA | Yes | NA | N/A | 6765157 |
| Hydrocarbon Resemblance | mg/L | COMMENT (1) | COMMENT (2) | NA | COMMENT (3) | NA | N/A | 6765157 |
| Surrogate Recovery (%) | | | | | | | | |
| Isobutylbenzene - Extractable | % | 89 | 99 | 105 | 94 | 99 | | 6765157 |
| n-Dotriacontane - Extractable | % | 73 | 108 | 95 | 101 | 82 | | 6765157 |
| Isobutylbenzene - Volatile | % | 101 | 100 | 101 | 103 | 102 | | 6765244 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) Lube oil fraction. (2) One product in fuel oil range. (3) Possible lube oil fraction. | | | | | | | | |



ATLANTIC VOCS - NON-CHLORINATED WATER (WATER)

| BV Labs ID | | MTK169 | MTK169 | | |
|--|-------|---------------------|---------------------|------|----------|
| Sampling Date | | 2020/05/28 14:10 | 2020/05/28 14:10 | | |
| COC Number | | 774102-01-01 | 774102-01-01 | | |
| | UNITS | MW6 | MW6 Lab-Dup | RDL | QC Batch |
| Volatile Organics | | | | | |
| 1,1-Dichloroethane | ug/L | <2.0 | <2.0 | 2.0 | 6769412 |
| 1,1-Dichloroethylene | ug/L | <0.50 | <0.50 | 0.50 | 6769412 |
| 1,1,1-Trichloroethane | ug/L | <1.0 | <1.0 | 1.0 | 6769412 |
| 1,1,2-Trichloroethane | ug/L | <1.0 | <1.0 | 1.0 | 6769412 |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.50 | <0.50 | 0.50 | 6769412 |
| Ethylene Dibromide | ug/L | <0.20 | <0.20 | 0.20 | 6769412 |
| 1,2-Dichlorobenzene | ug/L | <0.50 | <0.50 | 0.50 | 6769412 |
| 1,2-Dichloroethane | ug/L | <1.0 | <1.0 | 1.0 | 6769412 |
| cis-1,2-Dichloroethylene | ug/L | 2.5 | 2.5 | 0.50 | 6769412 |
| trans-1,2-Dichloroethylene | ug/L | <0.50 | <0.50 | 0.50 | 6769412 |
| 1,2-Dichloropropane | ug/L | <0.50 | <0.50 | 0.50 | 6769412 |
| 1,3-Dichlorobenzene | ug/L | <1.0 | <1.0 | 1.0 | 6769412 |
| cis-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | 0.50 | 6769412 |
| trans-1,3-Dichloropropene | ug/L | <0.50 | <0.50 | 0.50 | 6769412 |
| 1,4-Dichlorobenzene | ug/L | <1.0 | <1.0 | 1.0 | 6769412 |
| Benzene | ug/L | <1.0 | <1.0 | 1.0 | 6769412 |
| Bromodichloromethane | ug/L | <1.0 | <1.0 | 1.0 | 6769412 |
| Bromoform | ug/L | <1.0 | <1.0 | 1.0 | 6769412 |
| Bromomethane | ug/L | <0.50 | <0.50 | 0.50 | 6769412 |
| Carbon Tetrachloride | ug/L | <0.50 | <0.50 | 0.50 | 6769412 |
| Chlorobenzene | ug/L | <1.0 | <1.0 | 1.0 | 6769412 |
| Chloroethane | ug/L | <8.0 | <8.0 | 8.0 | 6769412 |
| Chloroform | ug/L | <1.0 | <1.0 | 1.0 | 6769412 |
| Chloromethane | ug/L | <8.0 | <8.0 | 8.0 | 6769412 |
| Dibromochloromethane | ug/L | <1.0 | <1.0 | 1.0 | 6769412 |
| Methylene Chloride(Dichloromethane) | ug/L | <3.0 | <3.0 | 3.0 | 6769412 |
| Ethylbenzene | ug/L | <1.0 | <1.0 | 1.0 | 6769412 |
| Methyl t-butyl ether (MTBE) | ug/L | <2.0 | <2.0 | 2.0 | 6769412 |
| Styrene | ug/L | <1.0 | <1.0 | 1.0 | 6769412 |
| Tetrachloroethylene | ug/L | <1.0 | <1.0 | 1.0 | 6769412 |
| Toluene | ug/L | <1.0 | <1.0 | 1.0 | 6769412 |
| Trichloroethylene | ug/L | 19 | 19 | 1.0 | 6769412 |
| Trichlorofluoromethane (FREON 11) | ug/L | <8.0 | <8.0 | 8.0 | 6769412 |
| Vinyl Chloride | ug/L | <0.50 | <0.50 | 0.50 | 6769412 |
| RDL = Reportable Detection Limit | | | | | |
| QC Batch = Quality Control Batch | | | | | |
| Lab-Dup = Laboratory Initiated Duplicate | | | | | |



BUREAU
VERITAS

BV Labs Job #: COD3175
Report Date: 2020/06/08

Englobe Corp
Client Project #: 2001756

ATLANTIC VOCS - NON-CHLORINATED WATER (WATER)

| | | | | | |
|--|--------------|---------------------|------------------------|------------|-----------------|
| BV Labs ID | | MTK169 | MTK169 | | |
| Sampling Date | | 2020/05/28 14:10 | 2020/05/28 14:10 | | |
| COC Number | | 774102-01-01 | 774102-01-01 | | |
| | UNITS | MW6 | MW6 Lab-Dup | RDL | QC Batch |
| o-Xylene | ug/L | <1.0 | <1.0 | 1.0 | 6769412 |
| p+m-Xylene | ug/L | <2.0 | <2.0 | 2.0 | 6769412 |
| Total Xylenes | ug/L | <1.0 | <1.0 | 1.0 | 6769412 |
| Total Trihalomethanes | ug/L | <1.0 | <1.0 | 1.0 | 6769412 |
| Surrogate Recovery (%) | | | | | |
| 4-Bromofluorobenzene | % | 97 | 97 | | 6769412 |
| D4-1,2-Dichloroethane | % | 107 | 108 | | 6769412 |
| D8-Toluene | % | 95 | 94 | | 6769412 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch Lab-Dup = Laboratory Initiated Duplicate | | | | | |

**RESULTS OF ANALYSES OF WATER**

| BV Labs ID | | MTK166 | MTK167 | MTK168 | MTK169 | MTK170 | MTK171 | | |
|---------------|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|-----------------|
| Sampling Date | | 2020/05/28 12:15 | 2020/05/28 10:30 | 2020/05/28 10:00 | 2020/05/28 14:10 | 2020/05/28 13:30 | 2020/05/28 13:00 | | |
| COC Number | | 774102-01-01 | 774102-01-01 | 774102-01-01 | 774102-01-01 | 774102-01-01 | 774102-01-01 | | |
| | UNITS | MW1 | MW3 | MW4 | MW6 | MW9 | MW11 | RDL | QC Batch |

Inorganics

| | | | | | | | | | |
|--------------|-------|------|------|------|------|------|------|-----|---------|
| pH | pH | 7.01 | 6.99 | 6.59 | 6.65 | 7.52 | 7.11 | | 6769362 |
| Conductivity | uS/cm | 4100 | 820 | 330 | 140 | 540 | 600 | 1.0 | 6769360 |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

| BV Labs ID | | MTK172 | MTK173 | | MTK174 | MTK175 | | |
|---------------|--------------|---------------------|-------------------|-----------------|------------------------|---------------|------------|-----------------|
| Sampling Date | | 2020/05/28 11:00 | 2020/05/28 | | 2020/05/28 | 2020/05/28 | | |
| COC Number | | 774102-01-01 | 774102-01-01 | | 774102-01-01 | 774102-01-01 | | |
| | UNITS | MW14 | TRIP BLANK | QC Batch | EQUIPMENT BLANK | MW-DUP | RDL | QC Batch |

Inorganics

| | | | | | | | | |
|--------------|-------|------|------|---------|------|------|-----|---------|
| pH | pH | 6.71 | 6.14 | 6769362 | 6.06 | 6.63 | | 6769366 |
| Conductivity | uS/cm | 530 | <1.0 | 6769360 | 1.2 | 550 | 1.0 | 6769364 |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

BUREAU
VERITASBV Labs Job #: COD3175
Report Date: 2020/06/08Englobe Corp
Client Project #: 2001756**ELEMENTS BY ICP/MS (WATER)**

| BV Labs ID | | MTK166 | | MTK167 | | MTK168 | MTK169 | MTK170 | | |
|---------------|-------|---------------------|----------|---------------------|----------|---------------------|---------------------|---------------------|-----|----------|
| Sampling Date | | 2020/05/28 12:15 | | 2020/05/28 10:30 | | 2020/05/28 10:00 | 2020/05/28 14:10 | 2020/05/28 13:30 | | |
| COC Number | | 774102-01-01 | | 774102-01-01 | | 774102-01-01 | 774102-01-01 | 774102-01-01 | | |
| | UNITS | MW1 | QC Batch | MW3 | QC Batch | MW4 | MW6 | MW9 | RDL | QC Batch |

| Metals | | | | | | | | | | |
|--------------------------|------|-------|---------|-------|---------|-------|-------|-------|------|---------|
| Dissolved Arsenic (As) | ug/L | 1.0 | 6771614 | 3.7 | 6769739 | <1.0 | <1.0 | <1.0 | 1.0 | 6771614 |
| Dissolved Iron (Fe) | ug/L | 24000 | 6771614 | <50 | 6769739 | <50 | <50 | 220 | 50 | 6771614 |
| Dissolved Lead (Pb) | ug/L | <0.50 | 6771614 | <0.50 | 6769739 | <0.50 | <0.50 | <0.50 | 0.50 | 6771614 |
| Dissolved Manganese (Mn) | ug/L | 31000 | 6771614 | 4500 | 6769739 | 5600 | 6.4 | 780 | 2.0 | 6771614 |
| Dissolved Zinc (Zn) | ug/L | 7.0 | 6771614 | 24 | 6769739 | 55 | 7.4 | 8.1 | 5.0 | 6771614 |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

| BV Labs ID | | MTK171 | MTK172 | MTK173 | MTK174 | MTK175 | | |
|---------------|-------|---------------------|---------------------|--------------|-----------------|--------------|-----|----------|
| Sampling Date | | 2020/05/28 13:00 | 2020/05/28 11:00 | 2020/05/28 | 2020/05/28 | 2020/05/28 | | |
| COC Number | | 774102-01-01 | 774102-01-01 | 774102-01-01 | 774102-01-01 | 774102-01-01 | | |
| | UNITS | MW11 | MW14 | TRIP BLANK | EQUIPMENT BLANK | MW-DUP | RDL | QC Batch |

| Metals | | | | | | | | |
|--------------------------|------|-------|-------|-------|-------|-------|------|---------|
| Dissolved Arsenic (As) | ug/L | 1.8 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 6771614 |
| Dissolved Iron (Fe) | ug/L | 20000 | <50 | <50 | <50 | <50 | 50 | 6771614 |
| Dissolved Lead (Pb) | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 6771614 |
| Dissolved Manganese (Mn) | ug/L | 1600 | 1300 | <2.0 | 3.1 | 1300 | 2.0 | 6771614 |
| Dissolved Zinc (Zn) | ug/L | 5.9 | 160 | <5.0 | <5.0 | 160 | 5.0 | 6771614 |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



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VERITAS

BV Labs Job #: COD3175

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Englobe Corp

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GENERAL COMMENTS

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

| | |
|-----------|-------|
| Package 1 | 5.3°C |
| Package 2 | 4.7°C |

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: COD3175

Report Date: 2020/06/08

Englobe Corp

Client Project #: 2001756

QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|----------------|------|--------------|-------------------------------|---------------|---------|----------|-------|-----------|
| 6765157 | MSK | Matrix Spike | Isobutylbenzene - Extractable | 2020/06/02 | | 94 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2020/06/02 | | 103 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2020/06/02 | | 89 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2020/06/02 | | 88 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2020/06/02 | | 113 | % | 70 - 130 |
| 6765157 | MSK | Spiked Blank | Isobutylbenzene - Extractable | 2020/06/02 | | 101 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2020/06/02 | | 98 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2020/06/02 | | 97 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2020/06/02 | | 94 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2020/06/02 | | 109 | % | 70 - 130 |
| 6765157 | MSK | Method Blank | Isobutylbenzene - Extractable | 2020/06/02 | | 99 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2020/06/02 | | 93 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2020/06/02 | <0.050 | | mg/L | |
| | | | >C16-C21 Hydrocarbons | 2020/06/02 | <0.050 | | mg/L | |
| | | | >C21-<C32 Hydrocarbons | 2020/06/02 | <0.090 | | mg/L | |
| 6765157 | MSK | RPD | >C10-C16 Hydrocarbons | 2020/06/02 | NC | | % | 40 |
| | | | >C16-C21 Hydrocarbons | 2020/06/02 | NC | | % | 40 |
| | | | >C21-<C32 Hydrocarbons | 2020/06/02 | NC | | % | 40 |
| 6765244 | THL | Matrix Spike | Isobutylbenzene - Volatile | 2020/06/03 | | 102 | % | 70 - 130 |
| | | | Benzene | 2020/06/03 | | 103 | % | 70 - 130 |
| | | | Toluene | 2020/06/03 | | 103 | % | 70 - 130 |
| | | | Ethylbenzene | 2020/06/03 | | 106 | % | 70 - 130 |
| | | | Total Xylenes | 2020/06/03 | | 109 | % | 70 - 130 |
| 6765244 | THL | Spiked Blank | Isobutylbenzene - Volatile | 2020/06/03 | | 102 | % | 70 - 130 |
| | | | Benzene | 2020/06/03 | | 104 | % | 70 - 130 |
| | | | Toluene | 2020/06/03 | | 104 | % | 70 - 130 |
| | | | Ethylbenzene | 2020/06/03 | | 108 | % | 70 - 130 |
| | | | Total Xylenes | 2020/06/03 | | 111 | % | 70 - 130 |
| 6765244 | THL | Method Blank | Isobutylbenzene - Volatile | 2020/06/03 | | 103 | % | 70 - 130 |
| | | | Benzene | 2020/06/03 | <0.0010 | | mg/L | |
| | | | Toluene | 2020/06/03 | <0.0010 | | mg/L | |
| | | | Ethylbenzene | 2020/06/03 | <0.0010 | | mg/L | |
| | | | Total Xylenes | 2020/06/03 | <0.0020 | | mg/L | |
| | | | C6 - C10 (less BTEX) | 2020/06/03 | <0.090 | | mg/L | |
| 6765244 | THL | RPD | Benzene | 2020/06/03 | NC | | % | 40 |
| | | | Toluene | 2020/06/03 | NC | | % | 40 |
| | | | Ethylbenzene | 2020/06/03 | NC | | % | 40 |
| | | | Total Xylenes | 2020/06/03 | NC | | % | 40 |
| | | | C6 - C10 (less BTEX) | 2020/06/03 | NC | | % | 40 |
| 6769360 | SHW | Spiked Blank | Conductivity | 2020/06/04 | | 103 | % | 80 - 120 |
| 6769360 | SHW | Method Blank | Conductivity | 2020/06/04 | <1.0 | | uS/cm | |
| 6769360 | SHW | RPD | Conductivity | 2020/06/04 | 0.46 | | % | 10 |
| 6769362 | SHW | Spiked Blank | pH | 2020/06/04 | | 101 | % | 97 - 103 |
| 6769362 | SHW | RPD | pH | 2020/06/04 | 0.50 | | % | N/A |
| 6769364 | SHW | Spiked Blank | Conductivity | 2020/06/04 | | 102 | % | 80 - 120 |
| 6769364 | SHW | Method Blank | Conductivity | 2020/06/04 | <1.0 | | uS/cm | |
| 6769364 | SHW | RPD | Conductivity | 2020/06/04 | 1.2 | | % | 10 |
| 6769366 | SHW | Spiked Blank | pH | 2020/06/04 | | 101 | % | 97 - 103 |
| 6769366 | SHW | RPD | pH | 2020/06/04 | 0.87 | | % | N/A |
| 6769412 | ASL | Matrix Spike | 4-Bromofluorobenzene | 2020/06/04 | | 98 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2020/06/04 | | 108 | % | 70 - 130 |
| | | | D8-Toluene | 2020/06/04 | | 93 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2020/06/04 | | 108 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2020/06/04 | | 102 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2020/06/04 | | 107 | % | 70 - 130 |



BUREAU
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BV Labs Job #: COD3175
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QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|----------------|------|--------------|-------------------------------------|---------------|-------|----------|-------|-----------|
| 6769412 | ASL | Spiked Blank | 1,1,2-Trichloroethane | 2020/06/04 | | 113 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2020/06/04 | | 107 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2020/06/04 | | 110 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2020/06/04 | | 91 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2020/06/04 | | 103 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2020/06/04 | | 111 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2020/06/04 | | 110 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2020/06/04 | | 97 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2020/06/04 | | 92 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2020/06/04 | | 102 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2020/06/04 | | 98 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2020/06/04 | | 91 | % | 70 - 130 |
| | | | Benzene | 2020/06/04 | | 94 | % | 70 - 130 |
| | | | Bromodichloromethane | 2020/06/04 | | 103 | % | 70 - 130 |
| | | | Bromoform | 2020/06/04 | | 111 | % | 70 - 130 |
| | | | Bromomethane | 2020/06/04 | | 114 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2020/06/04 | | 107 | % | 70 - 130 |
| | | | Chlorobenzene | 2020/06/04 | | 95 | % | 70 - 130 |
| | | | Chloroethane | 2020/06/04 | | 103 | % | 60 - 140 |
| | | | Chloroform | 2020/06/04 | | 99 | % | 70 - 130 |
| | | | Chloromethane | 2020/06/04 | | 88 | % | 60 - 140 |
| | | | Dibromochloromethane | 2020/06/04 | | 108 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2020/06/04 | | 120 | % | 70 - 130 |
| | | | Ethylbenzene | 2020/06/04 | | 93 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2020/06/04 | | 94 | % | 70 - 130 |
| | | | Styrene | 2020/06/04 | | 100 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2020/06/04 | | 106 | % | 70 - 130 |
| | | | Toluene | 2020/06/04 | | 99 | % | 70 - 130 |
| | | | Trichloroethylene | 2020/06/04 | | 104 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2020/06/04 | | 100 | % | 60 - 140 |
| | | | Vinyl Chloride | 2020/06/04 | | 112 | % | 60 - 140 |
| | | | o-Xylene | 2020/06/04 | | 95 | % | 70 - 130 |
| | | | p+m-Xylene | 2020/06/04 | | 93 | % | 70 - 130 |
| | | | 4-Bromofluorobenzene | 2020/06/04 | | 98 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2020/06/04 | | 102 | % | 70 - 130 |
| | | | D8-Toluene | 2020/06/04 | | 94 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2020/06/04 | | 107 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2020/06/04 | | 103 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2020/06/04 | | 107 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2020/06/04 | | 107 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2020/06/04 | | 101 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2020/06/04 | | 103 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2020/06/04 | | 91 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2020/06/04 | | 98 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2020/06/04 | | 109 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2020/06/04 | | 110 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2020/06/04 | | 95 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2020/06/04 | | 93 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2020/06/04 | | 101 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2020/06/04 | | 96 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2020/06/04 | | 92 | % | 70 - 130 |
| | | | Benzene | 2020/06/04 | | 93 | % | 70 - 130 |
| | | | Bromodichloromethane | 2020/06/04 | | 101 | % | 70 - 130 |
| | | | Bromoform | 2020/06/04 | | 105 | % | 70 - 130 |
| | | | Bromomethane | 2020/06/04 | | 112 | % | 60 - 140 |

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BV Labs Job #: COD3175

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QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|----------------|------|--------------|-------------------------------------|---------------|-------|----------|-------|-----------|
| 6769412 | ASL | Method Blank | Carbon Tetrachloride | 2020/06/04 | | 107 | % | 70 - 130 |
| | | | Chlorobenzene | 2020/06/04 | | 96 | % | 70 - 130 |
| | | | Chloroethane | 2020/06/04 | | 102 | % | 60 - 140 |
| | | | Chloroform | 2020/06/04 | | 97 | % | 70 - 130 |
| | | | Chloromethane | 2020/06/04 | | 87 | % | 60 - 140 |
| | | | Dibromochloromethane | 2020/06/04 | | 104 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2020/06/04 | | 116 | % | 70 - 130 |
| | | | Ethylbenzene | 2020/06/04 | | 95 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2020/06/04 | | 93 | % | 70 - 130 |
| | | | Styrene | 2020/06/04 | | 101 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2020/06/04 | | 107 | % | 70 - 130 |
| | | | Toluene | 2020/06/04 | | 100 | % | 70 - 130 |
| | | | Trichloroethylene | 2020/06/04 | | 105 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2020/06/04 | | 100 | % | 60 - 140 |
| | | | Vinyl Chloride | 2020/06/04 | | 112 | % | 60 - 140 |
| | | | o-Xylene | 2020/06/04 | | 96 | % | 70 - 130 |
| | | | p+m-Xylene | 2020/06/04 | | 95 | % | 70 - 130 |
| | | | 4-Bromofluorobenzene | 2020/06/04 | | 98 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2020/06/04 | | 102 | % | 70 - 130 |
| | | | D8-Toluene | 2020/06/04 | | 95 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2020/06/04 | <2.0 | | ug/L | |
| | | | 1,1-Dichloroethylene | 2020/06/04 | <0.50 | | ug/L | |
| | | | 1,1,1-Trichloroethane | 2020/06/04 | <1.0 | | ug/L | |
| | | | 1,1,2-Trichloroethane | 2020/06/04 | <1.0 | | ug/L | |
| | | | 1,1,2,2-Tetrachloroethane | 2020/06/04 | <0.50 | | ug/L | |
| | | | Ethylene Dibromide | 2020/06/04 | <0.20 | | ug/L | |
| | | | 1,2-Dichlorobenzene | 2020/06/04 | <0.50 | | ug/L | |
| | | | 1,2-Dichloroethane | 2020/06/04 | <1.0 | | ug/L | |
| | | | cis-1,2-Dichloroethylene | 2020/06/04 | <0.50 | | ug/L | |
| | | | trans-1,2-Dichloroethylene | 2020/06/04 | <0.50 | | ug/L | |
| | | | 1,2-Dichloropropane | 2020/06/04 | <0.50 | | ug/L | |
| | | | 1,3-Dichlorobenzene | 2020/06/04 | <1.0 | | ug/L | |
| | | | cis-1,3-Dichloropropene | 2020/06/04 | <0.50 | | ug/L | |
| | | | trans-1,3-Dichloropropene | 2020/06/04 | <0.50 | | ug/L | |
| | | | 1,4-Dichlorobenzene | 2020/06/04 | <1.0 | | ug/L | |
| | | | Benzene | 2020/06/04 | <1.0 | | ug/L | |
| | | | Bromodichloromethane | 2020/06/04 | <1.0 | | ug/L | |
| | | | Bromoform | 2020/06/04 | <1.0 | | ug/L | |
| | | | Bromomethane | 2020/06/04 | <0.50 | | ug/L | |
| | | | Carbon Tetrachloride | 2020/06/04 | <0.50 | | ug/L | |
| | | | Chlorobenzene | 2020/06/04 | <1.0 | | ug/L | |
| | | | Chloroethane | 2020/06/04 | <8.0 | | ug/L | |
| | | | Chloroform | 2020/06/04 | <1.0 | | ug/L | |
| | | | Chloromethane | 2020/06/04 | <8.0 | | ug/L | |
| | | | Dibromochloromethane | 2020/06/04 | <1.0 | | ug/L | |
| | | | Methylene Chloride(Dichloromethane) | 2020/06/04 | <3.0 | | ug/L | |
| | | | Ethylbenzene | 2020/06/04 | <1.0 | | ug/L | |
| | | | Methyl t-butyl ether (MTBE) | 2020/06/04 | <2.0 | | ug/L | |
| | | | Styrene | 2020/06/04 | <1.0 | | ug/L | |
| | | | Tetrachloroethylene | 2020/06/04 | <1.0 | | ug/L | |
| | | | Toluene | 2020/06/04 | <1.0 | | ug/L | |
| | | | Trichloroethylene | 2020/06/04 | <1.0 | | ug/L | |
| | | | Trichlorofluoromethane (FREON 11) | 2020/06/04 | <8.0 | | ug/L | |
| | | | Vinyl Chloride | 2020/06/04 | <0.50 | | ug/L | |
| | | | o-Xylene | 2020/06/04 | <1.0 | | ug/L | |



BUREAU
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BV Labs Job #: COD3175
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QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|----------------|------|-----------------|-------------------------------------|---------------|-------|----------|-------|-----------|
| 6769412 | ASL | RPD [MTK169-05] | p+m-Xylene | 2020/06/04 | <2.0 | | ug/L | |
| | | | Total Xylenes | 2020/06/04 | <1.0 | | ug/L | |
| | | | Total Trihalomethanes | 2020/06/04 | <1.0 | | ug/L | |
| | | | 1,1-Dichloroethane | 2020/06/04 | NC | | % | 40 |
| | | | 1,1-Dichloroethylene | 2020/06/04 | NC | | % | 40 |
| | | | 1,1,1-Trichloroethane | 2020/06/04 | NC | | % | 40 |
| | | | 1,1,2-Trichloroethane | 2020/06/04 | NC | | % | 40 |
| | | | 1,1,2,2-Tetrachloroethane | 2020/06/04 | NC | | % | 40 |
| | | | Ethylene Dibromide | 2020/06/04 | NC | | % | 40 |
| | | | 1,2-Dichlorobenzene | 2020/06/04 | NC | | % | 40 |
| | | | 1,2-Dichloroethane | 2020/06/04 | NC | | % | 40 |
| | | | cis-1,2-Dichloroethylene | 2020/06/04 | 1.2 | | % | 40 |
| | | | trans-1,2-Dichloroethylene | 2020/06/04 | NC | | % | 40 |
| | | | 1,2-Dichloropropane | 2020/06/04 | NC | | % | 40 |
| | | | 1,3-Dichlorobenzene | 2020/06/04 | NC | | % | 40 |
| | | | cis-1,3-Dichloropropene | 2020/06/04 | NC | | % | 40 |
| | | | trans-1,3-Dichloropropene | 2020/06/04 | NC | | % | 40 |
| | | | 1,4-Dichlorobenzene | 2020/06/04 | NC | | % | 40 |
| | | | Benzene | 2020/06/04 | NC | | % | 40 |
| | | | Bromodichloromethane | 2020/06/04 | NC | | % | 40 |
| | | | Bromoform | 2020/06/04 | NC | | % | 40 |
| | | | Bromomethane | 2020/06/04 | NC | | % | 40 |
| | | | Carbon Tetrachloride | 2020/06/04 | NC | | % | 40 |
| | | | Chlorobenzene | 2020/06/04 | NC | | % | 40 |
| | | | Chloroethane | 2020/06/04 | NC | | % | 40 |
| | | | Chloroform | 2020/06/04 | NC | | % | 40 |
| | | | Chloromethane | 2020/06/04 | NC | | % | 40 |
| | | | Dibromochloromethane | 2020/06/04 | NC | | % | 40 |
| | | | Methylene Chloride(Dichloromethane) | 2020/06/04 | NC | | % | 40 |
| | | | Ethylbenzene | 2020/06/04 | NC | | % | 40 |
| | | | Methyl t-butyl ether (MTBE) | 2020/06/04 | NC | | % | 40 |
| | | | Styrene | 2020/06/04 | NC | | % | 40 |
| | | | Tetrachloroethylene | 2020/06/04 | NC | | % | 40 |
| | | | Toluene | 2020/06/04 | NC | | % | 40 |
| | | | Trichloroethylene | 2020/06/04 | 0.78 | | % | 40 |
| | | | Trichlorofluoromethane (FREON 11) | 2020/06/04 | NC | | % | 40 |
| | | | Vinyl Chloride | 2020/06/04 | NC | | % | 40 |
| | | | o-Xylene | 2020/06/04 | NC | | % | 40 |
| | | | p+m-Xylene | 2020/06/04 | NC | | % | 40 |
| | | | Total Xylenes | 2020/06/04 | NC | | % | 40 |
| | | | Total Trihalomethanes | 2020/06/04 | NC | | % | 40 |
| 6769739 | MLB | Matrix Spike | Dissolved Arsenic (As) | 2020/06/05 | | 92 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2020/06/05 | | 95 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2020/06/05 | | 94 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2020/06/05 | | 90 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2020/06/05 | | 91 | % | 80 - 120 |
| 6769739 | MLB | Spiked Blank | Dissolved Arsenic (As) | 2020/06/05 | | 92 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2020/06/05 | | 95 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2020/06/05 | | 96 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2020/06/05 | | 94 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2020/06/05 | | 95 | % | 80 - 120 |
| 6769739 | MLB | Method Blank | Dissolved Arsenic (As) | 2020/06/05 | <1.0 | | ug/L | |
| | | | Dissolved Iron (Fe) | 2020/06/05 | <50 | | ug/L | |
| | | | Dissolved Lead (Pb) | 2020/06/05 | <0.50 | | ug/L | |
| | | | Dissolved Manganese (Mn) | 2020/06/05 | <2.0 | | ug/L | |



BUREAU
VERITAS

BV Labs Job #: COD3175
Report Date: 2020/06/08

Englobe Corp
Client Project #: 2001756

QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|----------------|------|--------------|--------------------------|---------------|-------|----------|-------|-----------|
| 6769739 | MLB | RPD | Dissolved Zinc (Zn) | 2020/06/05 | <5.0 | | ug/L | |
| 6771614 | BAN | Matrix Spike | Dissolved Manganese (Mn) | 2020/06/05 | 0.48 | | % | 20 |
| | | | Dissolved Arsenic (As) | 2020/06/05 | | 95 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2020/06/05 | | 100 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2020/06/05 | | 95 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2020/06/05 | | NC | % | 80 - 120 |
| 6771614 | BAN | Spiked Blank | Dissolved Zinc (Zn) | 2020/06/05 | | 95 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2020/06/05 | | 93 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2020/06/05 | | 102 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2020/06/05 | | 96 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2020/06/05 | | 96 | % | 80 - 120 |
| 6771614 | BAN | Method Blank | Dissolved Zinc (Zn) | 2020/06/05 | | 95 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2020/06/06 | <1.0 | | ug/L | |
| | | | Dissolved Iron (Fe) | 2020/06/06 | <50 | | ug/L | |
| | | | Dissolved Lead (Pb) | 2020/06/06 | <0.50 | | ug/L | |
| | | | Dissolved Manganese (Mn) | 2020/06/06 | <2.0 | | ug/L | |
| | | | Dissolved Zinc (Zn) | 2020/06/06 | <5.0 | | ug/L | |
| 6771614 | BAN | RPD | Dissolved Arsenic (As) | 2020/06/05 | NC | | % | 20 |
| | | | Dissolved Iron (Fe) | 2020/06/05 | 0.67 | | % | 20 |
| | | | Dissolved Lead (Pb) | 2020/06/05 | NC | | % | 20 |
| | | | Dissolved Manganese (Mn) | 2020/06/05 | 0.92 | | % | 20 |
| | | | Dissolved Zinc (Zn) | 2020/06/05 | 13 | | % | 20 |

N/A = Not Applicable

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

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

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

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

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 #: COD3175
Report Date: 2020/06/08

Englobe Corp
Client Project #: 2001756

VALIDATION SIGNATURE PAGE

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

Mike MacGillivray, Scientific Specialist (Inorganics)

Rosemarie MacDonald, 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) 420-8612 www.bvlabs.com

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 # | C01957 | BV Labs Job # | Bottle Order #: | | | | | | | | | | | |
| Contact Name | ACCOUNTS PAYABLE | Contact Name | Ryan Pellerin | P.O. # | | C01957 | 774102 | | | | | | | | | | | |
| Address | 97 Troop Ave Dartmouth NS B3B 2A7 | Address | | Project # | 2001756 | | | | | | | | | | | | | |
| Phone | (902) 468-6486 | Phone | | Project Name | | Chain Of Custody Record | Project Manager | | | | | | | | | | | |
| Email | Heather.Mason@englobecorp.com | Email | ryan.pellerin@englobecorp.com | Site # | | C#774102-01-01 | Ken Mackay | | | | | | | | | | | |
| | | | | Sampled By | | | | | | | | | | | | | | |
| Regulatory Criteria: | | Special Instructions | | ANALYSIS REQUESTED (PLEASE BE SPECIFIC) | | | | Turnaround Time (TAT) Required: | | | | | | | | | | |
| ** Specify Matrix: Surface/Ground/Tapwater/Sewage/Effluent/Seawater Potable/Nonpotable/Tissue/Soil/Sediment/Metal | | | | | | | | Please provide advance notice for rush projects | | | | | | | | | | |
| SAMPLES MUST BE KEPT COOL (< 10°C) FROM TIME OF SAMPLING UNTIL DELIVERY TO BV LABS | | | | | | | | 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 | | | | | | | | | | |
| Sample Barcode Label | Sample (Location) Identification | Date Sampled | Time Sampled | Matrix | Field Filtered & Preserved Lab Filtration Required | RBGA Hydrocarbons in Water | As, Fe, Mn, Pb, Zn | pH | Conductance - water | Atlantic VOCs - Non-Chlorinated Water | | | | | | | | |
| 1 | MW1 | 2020/05/28 | 12:15 | GW | X | X | X | X | X | | | | | | | | | |
| 2 | MW3 | 2020/05/28 | 10:30 | GW | X | X | X | X | X | | | | | | | | | |
| 3 | MW4 | 2020/05/28 | 10:00 | GW | X | X | X | X | X | | | | | | | | | |
| 4 | MW6 | 2020/05/28 | 14:10 | GW | X | X | X | X | X | X | | | | | | | | |
| 5 | MW9 | 2020/05/28 | 13:30 | GW | X | X | X | X | X | | | | | | | | | |
| 6 | MW11 | 2020/05/28 | 13:00 | GW | X | X | X | X | X | | | | | | | | | |
| 7 | MW14 | 2020/05/28 | 11:00 | GW | X | X | X | X | X | | | | | | | | | |
| 8 | TRIP BLANK | 2020/05/28 | — | GW | X | X | X | X | X | | | | | | | | | |
| 9 | EQUIPMENT BLANK | 2020/05/28 | — | GW | X | X | X | X | X | | | | | | | | | |
| 10 | MW-DUP | 2020/05/28 | — | GW | X | X | X | X | X | | | | | | | | | |
| * 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 | | | | | | | | | |
| Adam Clarke | | 20/05/29 | 9:00 | | | | | | Time Sensitive | Temperature (°C) on Receipt | Custody Seal Intact on Cooler? | | | | | | | |
| | | 20/05/29 | 4:00 | | | | | | <input type="checkbox"/> | 74.5/4.4.6 | <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. | | | | | | | | | | | | | | | | | | |



Your Project #: 2001756
Your C.O.C. #: 798913-01-01

Attention: Ryan Pellerin

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

Report Date: 2020/11/05
Report #: R6399437
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C057681

Received: 2020/10/29, 12:15

Sample Matrix: Water
Samples Received: 10

| Analyses | Date | | Laboratory Method | Analytical Method |
|-------------------------------------|----------|------------|--------------------------|-------------------|
| | Quantity | Extracted | Analyzed | |
| Conductance - water | 8 | N/A | 2020/11/04 ATL SOP 00004 | SM 23 2510B m |
| Conductance - water | 2 | N/A | 2020/11/05 ATL SOP 00004 | SM 23 2510B m |
| TEH in Water (PIRI) | 9 | 2020/11/04 | 2020/11/04 ATL SOP 00113 | Atl. RBCA v3.1 m |
| TEH in Water (PIRI) | 1 | 2020/11/04 | 2020/11/05 ATL SOP 00113 | Atl. RBCA v3.1 m |
| Metals Water Diss. MS (1) | 1 | N/A | 2020/11/03 ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Diss. MS (as rec'd) | 6 | N/A | 2020/11/03 ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Diss. MS (as rec'd) | 1 | N/A | 2020/11/04 ATL SOP 00058 | EPA 6020B R2 m |
| Metals Water Diss. MS (as rec'd) | 2 | N/A | 2020/11/05 ATL SOP 00058 | EPA 6020B R2 m |
| pH (2) | 8 | N/A | 2020/11/04 ATL SOP 00003 | SM 23 4500-H+ B m |
| pH (2) | 2 | N/A | 2020/11/05 ATL SOP 00003 | SM 23 4500-H+ B m |
| ModTPH (T1) Calc. for Water | 10 | N/A | 2020/11/05 N/A | Atl. RBCA v3 m |
| Volatile Organic Compounds in Water | 1 | N/A | 2020/11/02 ATL SOP 00133 | EPA 8260D R4 m |
| VPH in Water (PIRI) | 1 | N/A | 2020/11/02 ATL SOP 00130 | Atl. RBCA v3.1 m |
| VPH in Water (PIRI) | 9 | N/A | 2020/11/03 ATL SOP 00130 | Atl. RBCA v3.1 m |

Remarks:

Bureau Veritas Laboratories are accredited to ISO/IEC 17025 for specific parameters on scopes of accreditation. Unless otherwise noted, procedures used by BV Labs 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 BV Labs profession using accepted testing methodologies, quality assurance and quality control procedures (except where otherwise agreed by the client and BV Labs 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.

BV Labs liability is limited to the actual cost of the requested analyses, unless otherwise agreed in writing. There is no other warranty expressed or implied. BV Labs 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 BV Labs, unless otherwise agreed in writing. BV Labs 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 BV Labs, results relate to the supplied samples tested.

This Certificate shall not be reproduced except in full, without the written approval of the laboratory.



Your Project #: 2001756
Your C.O.C. #: 798913-01-01

Attention: Ryan Pellerin

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

Report Date: 2020/11/05
Report #: R6399437
Version: 1 - Final

CERTIFICATE OF ANALYSIS

BV LABS JOB #: C0S7681

Received: 2020/10/29, 12:15

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

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

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

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

Encryption Key

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

Keri Mackay, Customer Experience Team Lead

Email: Keri.MACKAY@bvlabs.com

Phone# (902)420-0203 Ext:294

=====

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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.

**RBCA HYDROCARBONS IN WATER (WATER)**

| BV Labs ID | | OA0220 | OA0221 | OA0222 | OA0223 | OA0224 | | |
|--|-------|---------------------|---------------------|---------------------|---------------------|---------------------|--------|----------|
| Sampling Date | | 2020/10/28 12:40 | 2020/10/28 11:45 | 2020/10/28 11:20 | 2020/10/28 10:45 | 2020/10/28 09:45 | | |
| COC Number | | 798913-01-01 | 798913-01-01 | 798913-01-01 | 798913-01-01 | 798913-01-01 | | |
| | UNITS | MW1 | MW3 | MW4 | MW6 | MW9 | RDL | QC Batch |
| Petroleum Hydrocarbons | | | | | | | | |
| Benzene | mg/L | 0.0090 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 7033007 |
| Toluene | mg/L | 0.014 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 7033007 |
| Ethylbenzene | mg/L | 0.87 | <0.0010 | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 7033007 |
| Total Xylenes | mg/L | 1.0 | <0.0020 | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7033007 |
| C6 - C10 (less BTEX) | mg/L | 12 | <0.090 | <0.090 | <0.090 | <0.090 | 0.090 | 7033007 |
| >C10-C16 Hydrocarbons | mg/L | 2.7 | <0.050 | <0.050 | <0.050 | 0.051 | 0.050 | 7037043 |
| >C16-C21 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | <0.050 | 0.21 | 0.050 | 7037043 |
| >C21-<C32 Hydrocarbons | mg/L | 0.11 | <0.090 | <0.090 | <0.090 | 1.3 | 0.090 | 7037043 |
| Modified TPH (Tier1) | mg/L | 14 | <0.090 | <0.090 | <0.090 | 1.5 | 0.090 | 7030167 |
| Reached Baseline at C32 | mg/L | Yes | NA | NA | NA | Yes | N/A | 7037043 |
| Hydrocarbon Resemblance | mg/L | COMMENT (1) | NA | NA | NA | COMMENT (2) | N/A | 7037043 |
| Surrogate Recovery (%) | | | | | | | | |
| Isobutylbenzene - Extractable | % | 114 | 102 | 109 | 102 | 103 | | 7037043 |
| n-Dotriacontane - Extractable | % | 117 | 112 (3) | 116 (3) | 109 | 102 | | 7037043 |
| Isobutylbenzene - Volatile | % | 100 | 101 | 100 | 99 | 101 | | 7033007 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) One product in the gasoline range. Unidentified compound(s) in lube oil range. (2) Lube oil fraction. (3) TEH sample contained sediment. | | | | | | | | |

BUREAU
VERITASBV Labs Job #: COS7681
Report Date: 2020/11/05Englobe Corp
Client Project #: 2001756**RBCA HYDROCARBONS IN WATER (WATER)**

| | | | | | | | | | |
|----------------------|--------------|---------------------|-----------------|---------------------|------------|-----------------|-------------------------|------------|-----------------|
| BV Labs ID | | OA0225 | | OA0226 | | | OA0226 | | |
| Sampling Date | | 2020/10/28 10:30 | | 2020/10/28 12:05 | | | 2020/10/28 12:05 | | |
| COC Number | | 798913-01-01 | | 798913-01-01 | | | 798913-01-01 | | |
| | UNITS | MW11 | QC Batch | MW14 | RDL | QC Batch | MW14 Lab-Dup | RDL | QC Batch |

| | | | | | | | | | |
|-------------------------------|------|-------------|---------|---------|--------|---------|---------|--------|---------|
| Petroleum Hydrocarbons | | | | | | | | | |
| Benzene | mg/L | <0.0010 | 7033007 | <0.0010 | 0.0010 | 7033010 | <0.0010 | 0.0010 | 7033010 |
| Toluene | mg/L | <0.0010 | 7033007 | <0.0010 | 0.0010 | 7033010 | <0.0010 | 0.0010 | 7033010 |
| Ethylbenzene | mg/L | <0.0010 | 7033007 | <0.0010 | 0.0010 | 7033010 | <0.0010 | 0.0010 | 7033010 |
| Total Xylenes | mg/L | <0.0020 | 7033007 | <0.0020 | 0.0020 | 7033010 | <0.0020 | 0.0020 | 7033010 |
| C6 - C10 (less BTEX) | mg/L | <0.090 | 7033007 | <0.090 | 0.090 | 7033010 | <0.090 | 0.090 | 7033010 |
| >C10-C16 Hydrocarbons | mg/L | 0.24 | 7037043 | <0.050 | 0.050 | 7037043 | | | |
| >C16-C21 Hydrocarbons | mg/L | 0.76 | 7037043 | <0.050 | 0.050 | 7037043 | | | |
| >C21-<C32 Hydrocarbons | mg/L | 7.7 | 7037043 | <0.090 | 0.090 | 7037043 | | | |
| Modified TPH (Tier1) | mg/L | 8.7 | 7030167 | <0.090 | 0.090 | 7030167 | | | |
| Reached Baseline at C32 | mg/L | No | 7037043 | NA | N/A | 7037043 | | | |
| Hydrocarbon Resemblance | mg/L | COMMENT (1) | 7037043 | NA | N/A | 7037043 | | | |
| Surrogate Recovery (%) | | | | | | | | | |
| Isobutylbenzene - Extractable | % | 109 | 7037043 | 103 | | 7037043 | | | |
| n-Dotriacontane - Extractable | % | 115 | 7037043 | 112 (2) | | 7037043 | | | |
| Isobutylbenzene - Volatile | % | 101 | 7033007 | 91 | | 7033010 | 90 | | 7033010 |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

Lab-Dup = Laboratory Initiated Duplicate

N/A = Not Applicable

(1) One product in fuel oil range. Lube oil fraction.

(2) TEH sample contained sediment.

**RBCA HYDROCARBONS IN WATER (WATER)**

| BV Labs ID | | OA0227 | OA0228 | OA0229 | | |
|--|-------|--------------|-----------------|--------------|--------|----------|
| Sampling Date | | 2020/10/28 | 2020/10/28 | 2020/10/28 | | |
| COC Number | | 798913-01-01 | 798913-01-01 | 798913-01-01 | | |
| | UNITS | TRIP BLANK | EQUIPMENT BLANK | MW-DUP | RDL | QC Batch |
| Petroleum Hydrocarbons | | | | | | |
| Benzene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 7033010 |
| Toluene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 7033010 |
| Ethylbenzene | mg/L | <0.0010 | <0.0010 | <0.0010 | 0.0010 | 7033010 |
| Total Xylenes | mg/L | <0.0020 | <0.0020 | <0.0020 | 0.0020 | 7033010 |
| C6 - C10 (less BTEX) | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 7033010 |
| >C10-C16 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | 0.050 | 7037043 |
| >C16-C21 Hydrocarbons | mg/L | <0.050 | <0.050 | <0.050 | 0.050 | 7037043 |
| >C21-<C32 Hydrocarbons | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 7037043 |
| Modified TPH (Tier1) | mg/L | <0.090 | <0.090 | <0.090 | 0.090 | 7030167 |
| Reached Baseline at C32 | mg/L | NA | NA | NA | N/A | 7037043 |
| Hydrocarbon Resemblance | mg/L | NA | NA | NA | N/A | 7037043 |
| Surrogate Recovery (%) | | | | | | |
| Isobutylbenzene - Extractable | % | 104 | 104 | 102 | | 7037043 |
| n-Dotriacontane - Extractable | % | 108 | 113 | 110 (1) | | 7037043 |
| Isobutylbenzene - Volatile | % | 95 | 95 | 98 | | 7033010 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch N/A = Not Applicable (1) TEH sample contained sediment. | | | | | | |



ATLANTIC VOCS - NON-CHLORINATED WATER (WATER)

| | | | | |
|--|--------------|---------------------|------------|-----------------|
| BV Labs ID | | OA0223 | | |
| Sampling Date | | 2020/10/28 10:45 | | |
| COC Number | | 798913-01-01 | | |
| | UNITS | MW6 | RDL | QC Batch |
| Volatile Organics | | | | |
| 1,1-Dichloroethane | ug/L | <2.0 | 2.0 | 7032380 |
| 1,1-Dichloroethylene | ug/L | <0.50 | 0.50 | 7032380 |
| 1,1,1-Trichloroethane | ug/L | <1.0 | 1.0 | 7032380 |
| 1,1,2-Trichloroethane | ug/L | <1.0 | 1.0 | 7032380 |
| 1,1,2,2-Tetrachloroethane | ug/L | <0.50 | 0.50 | 7032380 |
| Ethylene Dibromide | ug/L | <0.20 | 0.20 | 7032380 |
| 1,2-Dichlorobenzene | ug/L | <0.50 | 0.50 | 7032380 |
| 1,2-Dichloroethane | ug/L | <1.0 | 1.0 | 7032380 |
| cis-1,2-Dichloroethylene | ug/L | 8.6 | 0.50 | 7032380 |
| trans-1,2-Dichloroethylene | ug/L | <0.50 | 0.50 | 7032380 |
| 1,2-Dichloropropane | ug/L | <0.50 | 0.50 | 7032380 |
| 1,3-Dichlorobenzene | ug/L | <1.0 | 1.0 | 7032380 |
| cis-1,3-Dichloropropene | ug/L | <0.50 | 0.50 | 7032380 |
| trans-1,3-Dichloropropene | ug/L | <0.50 | 0.50 | 7032380 |
| 1,4-Dichlorobenzene | ug/L | <1.0 | 1.0 | 7032380 |
| Benzene | ug/L | <1.0 | 1.0 | 7032380 |
| Bromodichloromethane | ug/L | <1.0 | 1.0 | 7032380 |
| Bromoform | ug/L | <1.0 | 1.0 | 7032380 |
| Bromomethane | ug/L | <0.50 | 0.50 | 7032380 |
| Carbon Tetrachloride | ug/L | <0.50 | 0.50 | 7032380 |
| Chlorobenzene | ug/L | <1.0 | 1.0 | 7032380 |
| Chloroethane | ug/L | <8.0 | 8.0 | 7032380 |
| Chloroform | ug/L | <1.0 | 1.0 | 7032380 |
| Chloromethane | ug/L | <8.0 | 8.0 | 7032380 |
| Dibromochloromethane | ug/L | <1.0 | 1.0 | 7032380 |
| Methylene Chloride(Dichloromethane) | ug/L | <3.0 | 3.0 | 7032380 |
| Ethylbenzene | ug/L | <1.0 | 1.0 | 7032380 |
| Methyl t-butyl ether (MTBE) | ug/L | <2.0 | 2.0 | 7032380 |
| Styrene | ug/L | <1.0 | 1.0 | 7032380 |
| Tetrachloroethylene | ug/L | <1.0 | 1.0 | 7032380 |
| Toluene | ug/L | <1.0 | 1.0 | 7032380 |
| Trichloroethylene | ug/L | 34 | 1.0 | 7032380 |
| Trichlorofluoromethane (FREON 11) | ug/L | <8.0 | 8.0 | 7032380 |
| Vinyl Chloride | ug/L | 2.3 | 0.50 | 7032380 |
| o-Xylene | ug/L | <1.0 | 1.0 | 7032380 |
| RDL = Reportable Detection Limit QC Batch = Quality Control Batch | | | | |



BUREAU
VERITAS

BV Labs Job #: COS7681
Report Date: 2020/11/05

Englobe Corp
Client Project #: 2001756

ATLANTIC VOCS - NON-CHLORINATED WATER (WATER)

| | | | | |
|----------------------------------|--------------|---------------------|------------|-----------------|
| BV Labs ID | | OA0223 | | |
| Sampling Date | | 2020/10/28 10:45 | | |
| COC Number | | 798913-01-01 | | |
| | UNITS | MW6 | RDL | QC Batch |
| p+m-Xylene | ug/L | <2.0 | 2.0 | 7032380 |
| Total Xylenes | ug/L | <1.0 | 1.0 | 7032380 |
| Total Trihalomethanes | ug/L | <1.0 | 1.0 | 7032380 |
| Surrogate Recovery (%) | | | | |
| 4-Bromofluorobenzene | % | 97 | | 7032380 |
| D4-1,2-Dichloroethane | % | 100 | | 7032380 |
| D8-Toluene | % | 96 | | 7032380 |
| RDL = Reportable Detection Limit | | | | |
| QC Batch = Quality Control Batch | | | | |



RESULTS OF ANALYSES OF WATER

| | | | | | | | | | |
|----------------------|--------------|---------------------|---------------------|---------------------|---------------------|---------------------|---------------------|------------|-----------------|
| BV Labs ID | | OA0220 | OA0221 | OA0222 | OA0223 | OA0224 | OA0225 | | |
| Sampling Date | | 2020/10/28 12:40 | 2020/10/28 11:45 | 2020/10/28 11:20 | 2020/10/28 10:45 | 2020/10/28 09:45 | 2020/10/28 10:30 | | |
| COC Number | | 798913-01-01 | 798913-01-01 | 798913-01-01 | 798913-01-01 | 798913-01-01 | 798913-01-01 | | |
| | UNITS | MW1 | MW3 | MW4 | MW6 | MW9 | MW11 | RDL | QC Batch |

Inorganics

| | | | | | | | | | |
|--------------|-------|------|------|------|------|------|------|-----|---------|
| pH | pH | 7.03 | 6.91 | 6.57 | 6.40 | 7.39 | 7.38 | | 7036961 |
| Conductivity | uS/cm | 3300 | 680 | 330 | 210 | 700 | 640 | 1.0 | 7036958 |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch

| | | | | | | | | | |
|----------------------|--------------|---------------------|-----------------|-------------------|------------------------|-----------------|---------------|------------|-----------------|
| BV Labs ID | | OA0226 | | OA0227 | OA0228 | | OA0229 | | |
| Sampling Date | | 2020/10/28 12:05 | | 2020/10/28 | 2020/10/28 | | 2020/10/28 | | |
| COC Number | | 798913-01-01 | | 798913-01-01 | 798913-01-01 | | 798913-01-01 | | |
| | UNITS | MW14 | QC Batch | TRIP BLANK | EQUIPMENT BLANK | QC Batch | MW-DUP | RDL | QC Batch |

Inorganics

| | | | | | | | | | |
|--------------|-------|------|---------|------|------|---------|------|-----|---------|
| pH | pH | 6.58 | 7039390 | 5.99 | 6.62 | 7036961 | 6.63 | | 7039390 |
| Conductivity | uS/cm | 630 | 7039388 | <1.0 | 17 | 7036958 | 640 | 1.0 | 7039388 |

RDL = Reportable Detection Limit

QC Batch = Quality Control Batch



BUREAU
VERITAS

BV Labs Job #: COS7681
Report Date: 2020/11/05

Englobe Corp
Client Project #: 2001756

ELEMENTS BY ICP/MS (WATER)

| BV Labs ID | | OAO220 | OAO221 | | OAO222 | | OAO223 | OAO224 | | |
|---------------|-------|---------------------|---------------------|----------|---------------------|----------|---------------------|---------------------|-----|----------|
| Sampling Date | | 2020/10/28 12:40 | 2020/10/28 11:45 | | 2020/10/28 11:20 | | 2020/10/28 10:45 | 2020/10/28 09:45 | | |
| COC Number | | 798913-01-01 | 798913-01-01 | | 798913-01-01 | | 798913-01-01 | 798913-01-01 | | |
| | UNITS | MW1 | MW3 | QC Batch | MW4 | QC Batch | MW6 | MW9 | RDL | QC Batch |

| Metals | | | | | | | | | | |
|----------------------------------|------|-------|-------|---------|-------|---------|-------|-------|------|---------|
| Dissolved Arsenic (As) | ug/L | 3.1 | 2.0 | 7034902 | <1.0 | 7034906 | <1.0 | <1.0 | 1.0 | 7034902 |
| Dissolved Iron (Fe) | ug/L | 14000 | 9400 | 7034902 | <50 | 7034906 | <50 | 1500 | 50 | 7034902 |
| Dissolved Lead (Pb) | ug/L | <0.50 | <0.50 | 7034902 | <0.50 | 7034906 | <0.50 | <0.50 | 0.50 | 7034902 |
| Dissolved Manganese (Mn) | ug/L | 15000 | 5700 | 7034902 | 4200 | 7034906 | 37 | 1400 | 2.0 | 7034902 |
| Dissolved Zinc (Zn) | ug/L | <5.0 | <5.0 | 7034902 | 47 | 7034906 | 7.4 | 5.9 | 5.0 | 7034902 |
| RDL = Reportable Detection Limit | | | | | | | | | | |
| QC Batch = Quality Control Batch | | | | | | | | | | |

| BV Labs ID | | OAO225 | OAO226 | OAO227 | OAO228 | OAO229 | | |
|---------------|-------|---------------------|---------------------|--------------|-----------------|--------------|-----|----------|
| Sampling Date | | 2020/10/28 10:30 | 2020/10/28 12:05 | 2020/10/28 | 2020/10/28 | 2020/10/28 | | |
| COC Number | | 798913-01-01 | 798913-01-01 | 798913-01-01 | 798913-01-01 | 798913-01-01 | | |
| | UNITS | MW11 | MW14 | TRIP BLANK | EQUIPMENT BLANK | MW-DUP | RDL | QC Batch |

| Metals | | | | | | | | |
|----------------------------------|------|-------|-------|-------|-------|-------|------|---------|
| Dissolved Arsenic (As) | ug/L | 1.3 | <1.0 | <1.0 | <1.0 | <1.0 | 1.0 | 7034902 |
| Dissolved Iron (Fe) | ug/L | 4900 | <50 | <50 | <50 | <50 | 50 | 7034902 |
| Dissolved Lead (Pb) | ug/L | <0.50 | <0.50 | <0.50 | <0.50 | <0.50 | 0.50 | 7034902 |
| Dissolved Manganese (Mn) | ug/L | 1500 | 1900 | <2.0 | <2.0 | 2000 | 2.0 | 7034902 |
| Dissolved Zinc (Zn) | ug/L | <5.0 | 56 | <5.0 | <5.0 | 56 | 5.0 | 7034902 |
| RDL = Reportable Detection Limit | | | | | | | | |
| QC Batch = Quality Control Batch | | | | | | | | |



GENERAL COMMENTS

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

| | |
|-----------|-------|
| Package 1 | 4.3°C |
|-----------|-------|

Results relate only to the items tested.



BUREAU
VERITAS

BV Labs Job #: COS7681
Report Date: 2020/11/05

Englobe Corp
Client Project #: 2001756

QUALITY ASSURANCE REPORT

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|----------------|------|--------------|-------------------------------------|---------------|-------|----------|-------|-----------|
| 7032380 | ASL | Matrix Spike | 4-Bromofluorobenzene | 2020/11/02 | | 99 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2020/11/02 | | 104 | % | 70 - 130 |
| | | | D8-Toluene | 2020/11/02 | | 93 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2020/11/02 | | 99 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2020/11/02 | | 97 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2020/11/02 | | 101 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2020/11/02 | | 101 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2020/11/02 | | 97 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2020/11/02 | | 102 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2020/11/02 | | 91 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2020/11/02 | | 89 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2020/11/02 | | 94 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2020/11/02 | | 99 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2020/11/02 | | 92 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2020/11/02 | | 92 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2020/11/02 | | 95 | % | 70 - 130 |
| | | | trans-1,3-Dichloropropene | 2020/11/02 | | 98 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2020/11/02 | | 91 | % | 70 - 130 |
| | | | Benzene | 2020/11/02 | | 91 | % | 70 - 130 |
| | | | Bromodichloromethane | 2020/11/02 | | 96 | % | 70 - 130 |
| | | | Bromoform | 2020/11/02 | | 104 | % | 70 - 130 |
| | | | Bromomethane | 2020/11/02 | | 93 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2020/11/02 | | 95 | % | 70 - 130 |
| | | | Chlorobenzene | 2020/11/02 | | 102 | % | 70 - 130 |
| | | | Chloroethane | 2020/11/02 | | 93 | % | 60 - 140 |
| | | | Chloroform | 2020/11/02 | | 96 | % | 70 - 130 |
| | | | Chloromethane | 2020/11/02 | | 78 | % | 60 - 140 |
| | | | Dibromochloromethane | 2020/11/02 | | 89 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2020/11/02 | | 95 | % | 70 - 130 |
| | | | Ethylbenzene | 2020/11/02 | | 99 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2020/11/02 | | 97 | % | 70 - 130 |
| | | | Styrene | 2020/11/02 | | 96 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2020/11/02 | | 94 | % | 70 - 130 |
| | | | Toluene | 2020/11/02 | | 90 | % | 70 - 130 |
| | | | Trichloroethylene | 2020/11/02 | | 90 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2020/11/02 | | 92 | % | 60 - 140 |
| | | | Vinyl Chloride | 2020/11/02 | | 99 | % | 60 - 140 |
| | | | o-Xylene | 2020/11/02 | | 97 | % | 70 - 130 |
| | | | p+m-Xylene | 2020/11/02 | | 98 | % | 70 - 130 |
| 7032380 | ASL | Spiked Blank | 4-Bromofluorobenzene | 2020/11/02 | | 98 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2020/11/02 | | 105 | % | 70 - 130 |
| | | | D8-Toluene | 2020/11/02 | | 98 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2020/11/02 | | 104 | % | 70 - 130 |
| | | | 1,1-Dichloroethylene | 2020/11/02 | | 97 | % | 70 - 130 |
| | | | 1,1,1-Trichloroethane | 2020/11/02 | | 106 | % | 70 - 130 |
| | | | 1,1,2-Trichloroethane | 2020/11/02 | | 107 | % | 70 - 130 |
| | | | 1,1,2,2-Tetrachloroethane | 2020/11/02 | | 97 | % | 70 - 130 |
| | | | Ethylene Dibromide | 2020/11/02 | | 106 | % | 70 - 130 |
| | | | 1,2-Dichlorobenzene | 2020/11/02 | | 94 | % | 70 - 130 |
| | | | 1,2-Dichloroethane | 2020/11/02 | | 100 | % | 70 - 130 |
| | | | cis-1,2-Dichloroethylene | 2020/11/02 | | 97 | % | 70 - 130 |
| | | | trans-1,2-Dichloroethylene | 2020/11/02 | | 102 | % | 70 - 130 |
| | | | 1,2-Dichloropropane | 2020/11/02 | | 103 | % | 70 - 130 |
| | | | 1,3-Dichlorobenzene | 2020/11/02 | | 96 | % | 70 - 130 |
| | | | cis-1,3-Dichloropropene | 2020/11/02 | | 105 | % | 70 - 130 |

BUREAU
VERITAS

BV Labs Job #: COS7681

Report Date: 2020/11/05

Englobe Corp

Client Project #: 2001756

QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|----------------|------|--------------|-------------------------------------|---------------|-------|----------|-------|-----------|
| 7032380 | ASL | Method Blank | trans-1,3-Dichloropropene | 2020/11/02 | | 109 | % | 70 - 130 |
| | | | 1,4-Dichlorobenzene | 2020/11/02 | | 96 | % | 70 - 130 |
| | | | Benzene | 2020/11/02 | | 100 | % | 70 - 130 |
| | | | Bromodichloromethane | 2020/11/02 | | 107 | % | 70 - 130 |
| | | | Bromoform | 2020/11/02 | | 101 | % | 70 - 130 |
| | | | Bromomethane | 2020/11/02 | | 93 | % | 60 - 140 |
| | | | Carbon Tetrachloride | 2020/11/02 | | 100 | % | 70 - 130 |
| | | | Chlorobenzene | 2020/11/02 | | 104 | % | 70 - 130 |
| | | | Chloroethane | 2020/11/02 | | 93 | % | 60 - 140 |
| | | | Chloroform | 2020/11/02 | | 99 | % | 70 - 130 |
| | | | Chloromethane | 2020/11/02 | | 113 | % | 60 - 140 |
| | | | Dibromochloromethane | 2020/11/02 | | 93 | % | 70 - 130 |
| | | | Methylene Chloride(Dichloromethane) | 2020/11/02 | | 92 | % | 70 - 130 |
| | | | Ethylbenzene | 2020/11/02 | | 99 | % | 70 - 130 |
| | | | Methyl t-butyl ether (MTBE) | 2020/11/02 | | 102 | % | 70 - 130 |
| | | | Styrene | 2020/11/02 | | 103 | % | 70 - 130 |
| | | | Tetrachloroethylene | 2020/11/02 | | 99 | % | 70 - 130 |
| | | | Toluene | 2020/11/02 | | 96 | % | 70 - 130 |
| | | | Trichloroethylene | 2020/11/02 | | 100 | % | 70 - 130 |
| | | | Trichlorofluoromethane (FREON 11) | 2020/11/02 | | 92 | % | 60 - 140 |
| | | | Vinyl Chloride | 2020/11/02 | | 99 | % | 60 - 140 |
| | | | o-Xylene | 2020/11/02 | | 99 | % | 70 - 130 |
| | | | p+m-Xylene | 2020/11/02 | | 94 | % | 70 - 130 |
| | | | 4-Bromofluorobenzene | 2020/11/02 | | 100 | % | 70 - 130 |
| | | | D4-1,2-Dichloroethane | 2020/11/02 | | 98 | % | 70 - 130 |
| | | | D8-Toluene | 2020/11/02 | | 101 | % | 70 - 130 |
| | | | 1,1-Dichloroethane | 2020/11/02 | <2.0 | | ug/L | |
| | | | 1,1-Dichloroethylene | 2020/11/02 | <0.50 | | ug/L | |
| | | | 1,1,1-Trichloroethane | 2020/11/02 | <1.0 | | ug/L | |
| | | | 1,1,2-Trichloroethane | 2020/11/02 | <1.0 | | ug/L | |
| | | | 1,1,2,2-Tetrachloroethane | 2020/11/02 | <0.50 | | ug/L | |
| | | | Ethylene Dibromide | 2020/11/02 | <0.20 | | ug/L | |
| | | | 1,2-Dichlorobenzene | 2020/11/02 | <0.50 | | ug/L | |
| | | | 1,2-Dichloroethane | 2020/11/02 | <1.0 | | ug/L | |
| | | | cis-1,2-Dichloroethylene | 2020/11/02 | <0.50 | | ug/L | |
| | | | trans-1,2-Dichloroethylene | 2020/11/02 | <0.50 | | ug/L | |
| | | | 1,2-Dichloropropane | 2020/11/02 | <0.50 | | ug/L | |
| | | | 1,3-Dichlorobenzene | 2020/11/02 | <1.0 | | ug/L | |
| | | | cis-1,3-Dichloropropene | 2020/11/02 | <0.50 | | ug/L | |
| | | | trans-1,3-Dichloropropene | 2020/11/02 | <0.50 | | ug/L | |
| | | | 1,4-Dichlorobenzene | 2020/11/02 | <1.0 | | ug/L | |
| | | | Benzene | 2020/11/02 | <1.0 | | ug/L | |
| | | | Bromodichloromethane | 2020/11/02 | <1.0 | | ug/L | |
| | | | Bromoform | 2020/11/02 | <1.0 | | ug/L | |
| | | | Bromomethane | 2020/11/02 | <0.50 | | ug/L | |
| | | | Carbon Tetrachloride | 2020/11/02 | <0.50 | | ug/L | |
| | | | Chlorobenzene | 2020/11/02 | <1.0 | | ug/L | |
| | | | Chloroethane | 2020/11/02 | <8.0 | | ug/L | |
| | | | Chloroform | 2020/11/02 | <1.0 | | ug/L | |
| | | | Chloromethane | 2020/11/02 | <8.0 | | ug/L | |
| | | | Dibromochloromethane | 2020/11/02 | <1.0 | | ug/L | |
| | | | Methylene Chloride(Dichloromethane) | 2020/11/02 | <3.0 | | ug/L | |
| | | | Ethylbenzene | 2020/11/02 | <1.0 | | ug/L | |
| | | | Methyl t-butyl ether (MTBE) | 2020/11/02 | <2.0 | | ug/L | |
| | | | Styrene | 2020/11/02 | <1.0 | | ug/L | |

BUREAU
VERITAS

BV Labs Job #: COS7681

Report Date: 2020/11/05

Englobe Corp

Client Project #: 2001756

QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|----------------|------|--------------|-------------------------------------|---------------|-------|----------|-------|-----------|
| 7032380 | ASL | RPD | Tetrachloroethylene | 2020/11/02 | <1.0 | | ug/L | |
| | | | Toluene | 2020/11/02 | <1.0 | | ug/L | |
| | | | Trichloroethylene | 2020/11/02 | <1.0 | | ug/L | |
| | | | Trichlorofluoromethane (FREON 11) | 2020/11/02 | <8.0 | | ug/L | |
| | | | Vinyl Chloride | 2020/11/02 | <0.50 | | ug/L | |
| | | | o-Xylene | 2020/11/02 | <1.0 | | ug/L | |
| | | | p+m-Xylene | 2020/11/02 | <2.0 | | ug/L | |
| | | | Total Xylenes | 2020/11/02 | <1.0 | | ug/L | |
| | | | Total Trihalomethanes | 2020/11/02 | <1.0 | | ug/L | |
| | | | 1,1-Dichloroethane | 2020/11/02 | NC | | % | 40 |
| | | | 1,1-Dichloroethylene | 2020/11/02 | NC | | % | 40 |
| | | | 1,1,1-Trichloroethane | 2020/11/02 | NC | | % | 40 |
| | | | 1,1,2-Trichloroethane | 2020/11/02 | NC | | % | 40 |
| | | | 1,1,2,2-Tetrachloroethane | 2020/11/02 | NC | | % | 40 |
| | | | Ethylene Dibromide | 2020/11/02 | NC | | % | 40 |
| | | | 1,2-Dichlorobenzene | 2020/11/02 | NC | | % | 40 |
| | | | 1,2-Dichloroethane | 2020/11/02 | NC | | % | 40 |
| | | | cis-1,2-Dichloroethylene | 2020/11/02 | NC | | % | 40 |
| | | | trans-1,2-Dichloroethylene | 2020/11/02 | NC | | % | 40 |
| | | | 1,2-Dichloropropane | 2020/11/02 | NC | | % | 40 |
| | | | 1,3-Dichlorobenzene | 2020/11/02 | NC | | % | 40 |
| | | | cis-1,3-Dichloropropene | 2020/11/02 | NC | | % | 40 |
| | | | trans-1,3-Dichloropropene | 2020/11/02 | NC | | % | 40 |
| | | | 1,4-Dichlorobenzene | 2020/11/02 | NC | | % | 40 |
| | | | Benzene | 2020/11/02 | NC | | % | 40 |
| | | | Bromodichloromethane | 2020/11/02 | NC | | % | 40 |
| | | | Bromoform | 2020/11/02 | NC | | % | 40 |
| | | | Bromomethane | 2020/11/02 | NC | | % | 40 |
| | | | Carbon Tetrachloride | 2020/11/02 | NC | | % | 40 |
| | | | Chlorobenzene | 2020/11/02 | NC | | % | 40 |
| | | | Chloroethane | 2020/11/02 | NC | | % | 40 |
| | | | Chloroform | 2020/11/02 | NC | | % | 40 |
| | | | Chloromethane | 2020/11/02 | NC | | % | 40 |
| | | | Dibromochloromethane | 2020/11/02 | NC | | % | 40 |
| | | | Methylene Chloride(Dichloromethane) | 2020/11/02 | NC | | % | 40 |
| | | | Ethylbenzene | 2020/11/02 | NC | | % | 40 |
| | | | Methyl t-butyl ether (MTBE) | 2020/11/02 | NC | | % | 40 |
| | | | Styrene | 2020/11/02 | NC | | % | 40 |
| | | | Tetrachloroethylene | 2020/11/02 | NC | | % | 40 |
| | | | Toluene | 2020/11/02 | NC | | % | 40 |
| | | | Trichloroethylene | 2020/11/02 | NC | | % | 40 |
| | | | Trichlorofluoromethane (FREON 11) | 2020/11/02 | NC | | % | 40 |
| | | | Vinyl Chloride | 2020/11/02 | NC | | % | 40 |
| | | | o-Xylene | 2020/11/02 | NC | | % | 40 |
| | | | p+m-Xylene | 2020/11/02 | NC | | % | 40 |
| | | | Total Xylenes | 2020/11/02 | NC | | % | 40 |
| | | | Total Trihalomethanes | 2020/11/02 | NC | | % | 40 |
| 7033007 | THL | Matrix Spike | Isobutylbenzene - Volatile | 2020/11/02 | | 99 | % | 70 - 130 |
| | | | Benzene | 2020/11/02 | | 93 | % | 70 - 130 |
| | | | Toluene | 2020/11/02 | | 96 | % | 70 - 130 |
| | | | Ethylbenzene | 2020/11/02 | | 95 | % | 70 - 130 |
| 7033007 | THL | Spiked Blank | Total Xylenes | 2020/11/02 | | 98 | % | 70 - 130 |
| | | | Isobutylbenzene - Volatile | 2020/11/02 | | 102 | % | 70 - 130 |
| | | | Benzene | 2020/11/02 | | 93 | % | 70 - 130 |
| | | | Toluene | 2020/11/02 | | 97 | % | 70 - 130 |



BUREAU
VERITAS

BV Labs Job #: COS7681
Report Date: 2020/11/05

Englobe Corp
Client Project #: 2001756

QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|----------------|------|-----------------------------|----------------------------|---------------|---------|----------|-------|-----------|
| 7033007 | THL | Method Blank | Ethylbenzene | 2020/11/02 | | 97 | % | 70 - 130 |
| | | | Total Xylenes | 2020/11/02 | | 98 | % | 70 - 130 |
| | | | Isobutylbenzene - Volatile | 2020/11/02 | | 100 | % | 70 - 130 |
| | | | Benzene | 2020/11/02 | <0.0010 | | mg/L | |
| | | | Toluene | 2020/11/02 | <0.0010 | | mg/L | |
| | | | Ethylbenzene | 2020/11/02 | <0.0010 | | mg/L | |
| 7033007 | THL | RPD | Total Xylenes | 2020/11/02 | <0.0020 | | mg/L | |
| | | | C6 - C10 (less BTEX) | 2020/11/02 | <0.090 | | mg/L | |
| | | | Benzene | 2020/11/02 | NC | | % | 40 |
| | | | Toluene | 2020/11/02 | NC | | % | 40 |
| | | | Ethylbenzene | 2020/11/02 | NC | | % | 40 |
| | | | Total Xylenes | 2020/11/02 | NC | | % | 40 |
| 7033010 | THL | Matrix Spike [OAO227-02] | C6 - C10 (less BTEX) | 2020/11/02 | NC | | % | 40 |
| | | | Isobutylbenzene - Volatile | 2020/11/03 | | 92 | % | 70 - 130 |
| | | | Benzene | 2020/11/03 | | 86 | % | 70 - 130 |
| | | | Toluene | 2020/11/03 | | 94 | % | 70 - 130 |
| | | | Ethylbenzene | 2020/11/03 | | 92 | % | 70 - 130 |
| | | | Total Xylenes | 2020/11/03 | | 97 | % | 70 - 130 |
| 7033010 | THL | Spiked Blank | Isobutylbenzene - Volatile | 2020/11/02 | | 98 | % | 70 - 130 |
| | | | Benzene | 2020/11/02 | | 91 | % | 70 - 130 |
| | | | Toluene | 2020/11/02 | | 99 | % | 70 - 130 |
| | | | Ethylbenzene | 2020/11/02 | | 97 | % | 70 - 130 |
| | | | Total Xylenes | 2020/11/02 | | 100 | % | 70 - 130 |
| | | | Isobutylbenzene - Volatile | 2020/11/02 | | 97 | % | 70 - 130 |
| 7033010 | THL | Method Blank | Benzene | 2020/11/02 | <0.0010 | | mg/L | |
| | | | Toluene | 2020/11/02 | <0.0010 | | mg/L | |
| | | | Ethylbenzene | 2020/11/02 | <0.0010 | | mg/L | |
| | | | Total Xylenes | 2020/11/02 | <0.0020 | | mg/L | |
| | | | C6 - C10 (less BTEX) | 2020/11/02 | <0.090 | | mg/L | |
| | | | Benzene | 2020/11/03 | NC | | % | 40 |
| 7033010 | THL | RPD [OAO226-02] | Toluene | 2020/11/03 | NC | | % | 40 |
| | | | Ethylbenzene | 2020/11/03 | NC | | % | 40 |
| | | | Total Xylenes | 2020/11/03 | NC | | % | 40 |
| | | | C6 - C10 (less BTEX) | 2020/11/03 | NC | | % | 40 |
| | | | Dissolved Arsenic (As) | 2020/11/03 | | 94 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2020/11/03 | | NC | % | 80 - 120 |
| 7034902 | BAN | Matrix Spike | Dissolved Lead (Pb) | 2020/11/03 | | 99 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2020/11/03 | | NC | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2020/11/03 | | 99 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2020/11/03 | | 93 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2020/11/03 | | 98 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2020/11/03 | | 99 | % | 80 - 120 |
| 7034902 | BAN | Spiked Blank | Dissolved Manganese (Mn) | 2020/11/03 | | 97 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2020/11/03 | | 98 | % | 80 - 120 |
| | | | Dissolved Arsenic (As) | 2020/11/03 | <1.0 | | ug/L | |
| | | | Dissolved Iron (Fe) | 2020/11/03 | <50 | | ug/L | |
| | | | Dissolved Lead (Pb) | 2020/11/03 | <0.50 | | ug/L | |
| | | | Dissolved Manganese (Mn) | 2020/11/03 | <2.0 | | ug/L | |
| 7034902 | BAN | Method Blank | Dissolved Zinc (Zn) | 2020/11/03 | <5.0 | | ug/L | |
| | | | Dissolved Arsenic (As) | 2020/11/03 | NC | | % | 20 |
| | | | Dissolved Iron (Fe) | 2020/11/03 | 0.10 | | % | 20 |
| | | | Dissolved Lead (Pb) | 2020/11/03 | NC | | % | 20 |
| | | | Dissolved Manganese (Mn) | 2020/11/03 | 0.95 | | % | 20 |
| | | | Dissolved Zinc (Zn) | 2020/11/03 | 2.9 | | % | 20 |



BUREAU
VERITAS

BV Labs Job #: COS7681
Report Date: 2020/11/05

Englobe Corp
Client Project #: 2001756

QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits |
|----------------|------|--------------|-------------------------------|---------------|---------------------|----------|-------|-----------|
| 7034906 | BAN | Matrix Spike | Dissolved Arsenic (As) | 2020/11/03 | | 95 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2020/11/03 | | 97 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2020/11/03 | | 99 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2020/11/03 | | 95 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2020/11/03 | | 99 | % | 80 - 120 |
| 7034906 | BAN | Spiked Blank | Dissolved Arsenic (As) | 2020/11/03 | | 92 | % | 80 - 120 |
| | | | Dissolved Iron (Fe) | 2020/11/03 | | 98 | % | 80 - 120 |
| | | | Dissolved Lead (Pb) | 2020/11/03 | | 98 | % | 80 - 120 |
| | | | Dissolved Manganese (Mn) | 2020/11/03 | | 97 | % | 80 - 120 |
| | | | Dissolved Zinc (Zn) | 2020/11/03 | | 99 | % | 80 - 120 |
| 7034906 | BAN | Method Blank | Dissolved Arsenic (As) | 2020/11/03 | <1.0 | | ug/L | |
| | | | Dissolved Iron (Fe) | 2020/11/03 | <50 | | ug/L | |
| | | | Dissolved Lead (Pb) | 2020/11/03 | <0.50 | | ug/L | |
| | | | Dissolved Manganese (Mn) | 2020/11/03 | <2.0 | | ug/L | |
| | | | Dissolved Zinc (Zn) | 2020/11/03 | <5.0 | | ug/L | |
| 7034906 | BAN | RPD | Dissolved Arsenic (As) | 2020/11/03 | NC | | % | 20 |
| | | | Dissolved Iron (Fe) | 2020/11/03 | NC | | % | 20 |
| | | | Dissolved Lead (Pb) | 2020/11/03 | NC | | % | 20 |
| | | | Dissolved Manganese (Mn) | 2020/11/03 | 2.9 | | % | 20 |
| | | | Dissolved Zinc (Zn) | 2020/11/03 | NC | | % | 20 |
| 7036958 | SHW | Spiked Blank | Conductivity | 2020/11/04 | | 101 | % | 80 - 120 |
| 7036958 | SHW | Method Blank | Conductivity | 2020/11/04 | 1.0, RDL=1.0 (1) | | uS/cm | |
| 7036958 | SHW | RPD | Conductivity | 2020/11/04 | 0.51 | | % | 10 |
| 7036961 | SHW | Spiked Blank | pH | 2020/11/04 | | 100 | % | 97 - 103 |
| 7036961 | SHW | RPD | pH | 2020/11/04 | 0.039 | | % | N/A |
| 7037043 | DBF | Matrix Spike | Isobutylbenzene - Extractable | 2020/11/04 | | 102 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2020/11/04 | | 104 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2020/11/04 | | 99 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2020/11/04 | | 100 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2020/11/04 | | 94 | % | 70 - 130 |
| 7037043 | DBF | Spiked Blank | Isobutylbenzene - Extractable | 2020/11/04 | | 97 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2020/11/04 | | 106 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2020/11/04 | | 100 | % | 70 - 130 |
| | | | >C16-C21 Hydrocarbons | 2020/11/04 | | 100 | % | 70 - 130 |
| | | | >C21-<C32 Hydrocarbons | 2020/11/04 | | 91 | % | 70 - 130 |
| 7037043 | DBF | Method Blank | Isobutylbenzene - Extractable | 2020/11/04 | | 91 | % | 70 - 130 |
| | | | n-Dotriacontane - Extractable | 2020/11/04 | | 107 | % | 70 - 130 |
| | | | >C10-C16 Hydrocarbons | 2020/11/04 | <0.050 | | mg/L | |
| | | | >C16-C21 Hydrocarbons | 2020/11/04 | <0.050 | | mg/L | |
| | | | >C21-<C32 Hydrocarbons | 2020/11/04 | <0.090 | | mg/L | |
| 7037043 | DBF | RPD | >C10-C16 Hydrocarbons | 2020/11/04 | 3.0 | | % | 40 |
| | | | >C16-C21 Hydrocarbons | 2020/11/04 | NC | | % | 40 |
| | | | >C21-<C32 Hydrocarbons | 2020/11/04 | NC | | % | 40 |
| 7039388 | SHW | Spiked Blank | Conductivity | 2020/11/05 | | 101 | % | 80 - 120 |
| 7039388 | SHW | Method Blank | Conductivity | 2020/11/05 | <1.0 | | uS/cm | |
| 7039388 | SHW | RPD | Conductivity | 2020/11/05 | 2.1 | | % | 10 |
| 7039390 | SHW | Spiked Blank | pH | 2020/11/05 | | 100 | % | 97 - 103 |



BUREAU
VERITAS

BV Labs Job #: COS7681
Report Date: 2020/11/05

Englobe Corp
Client Project #: 2001756

QUALITY ASSURANCE REPORT(CONT'D)

| QA/QC | | | | | | | | | |
|--|------|---------|-----------|---------------|-------|----------|-------|-----------|--|
| Batch | Init | QC Type | Parameter | Date Analyzed | Value | Recovery | UNITS | QC Limits | |
| 7039390 | SHW | RPD | pH | 2020/11/05 | 2.1 | | % | N/A | |
| <p>N/A = Not Applicable</p> <p>Duplicate: Paired analysis of a separate portion of the same sample. Used to evaluate the variance in the measurement.</p> <p>Matrix Spike: A sample to which a known amount of the analyte of interest has been added. Used to evaluate sample matrix interference.</p> <p>Spiked Blank: A blank matrix sample to which a known amount of the analyte, usually from a second source, has been added. Used to evaluate method accuracy.</p> <p>Method Blank: A blank matrix containing all reagents used in the analytical procedure. Used to identify laboratory contamination.</p> <p>Surrogate: A pure or isotopically labeled compound whose behavior mirrors the analytes of interest. Used to evaluate extraction efficiency.</p> <p>NC (Matrix Spike): The recovery in the matrix spike was not calculated. The relative difference between the concentration in the parent sample and the spike amount was too small to permit a reliable recovery calculation (matrix spike concentration was less than the native sample concentration)</p> <p>NC (Duplicate RPD): The duplicate RPD was not calculated. The concentration in the sample and/or duplicate was too low to permit a reliable RPD calculation (absolute difference <= 2x RDL).</p> <p>(1) Elevated blank result due to lab contamination.</p> | | | | | | | | | |



BUREAU
VERITAS

BV Labs Job #: COS7681
Report Date: 2020/11/05

Englobe Corp
Client Project #: 2001756

VALIDATION SIGNATURE PAGE

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

Eric Dearman, Scientific Specialist

Mike MacGillivray, Scientific Specialist (Inorganics)

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: 800-563-5266 Fax: (902) 420-8612 www.bvlabs.com

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Chain Of Custody Record

| INVOICE TO: | | Report Information | | Project Information | | Laboratory Use Only | | | | | | |
|--|--------------------------------------|----------------------|-------------------------------|---|---|----------------------------|--------------------|-------------------------------|---------------------|---------------------------------------|--|----------------|
| Company Name | #41009 Englobe Corp | Company Name | Ryan Pellerin | Quotation # | C01957 | BV Labs Job # | Bottle Order #: | | | | | |
| Contact Name | ACCOUNTS PAYABLE | Contact Name | | P.O. # | | C057681 | 798913 | | | | | |
| Address | 97 Troop Ave Dartmouth NS B3B 2A7 | Address | | Project # | 2001756 | Chain Of Custody Record | Project Manager | | | | | |
| Phone | (902) 468-6486 | Phone | | Project Name | | | | | | | | |
| Fax | (902) 468-4919 | Fax | | Site # | | | | | | | | |
| Email | Heather.Mason@englobecorp.com | Email | ryan.pellerin@englobecorp.com | Sampled By | | | Keri Mackay | | | | | |
| Regulatory Criteria: | | Special Instructions | | ANALYSIS REQUESTED (PLEASE BE SPECIFIC) | | | | | | | | |
| ** Specify Matrix: Surface/Ground/Tapwater/Sewage/Effluent/Seawater Potable/Nonpotable/Tissue/Soil/Sludge/Metal | | | | | | | | | | | | |
| 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 | RBGA Hydrocarbons in Water | As, Fe, Mn, Pb, Zn | pH | Conductance - water | Atlantic VOCs - Non-Chlorinated Water | Turnaround Time (TAT) Required: | |
| 1 | MW1 | Oct 28/2020 | 12:40 | GW | X | X | X | X | X | | 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. | |
| 2 | MW3 | | 11:45 | | X | X | X | X | X | | Job Specific Rush TAT (if applies to entire submission) Date Required: Time Required: | |
| 3 | MW4 | | 11:20 | | X | X | X | X | X | | # of Bottles: Comments / Hazards / Other Required Analysis | |
| 4 | MW6 | | 10:45 | | X | X | X | X | X | X | | |
| 5 | MW9 | | 09:45 | | X | X | X | X | X | | | |
| 6 | MW11 | | 10:30 | | X | X | X | X | X | | | |
| 7 | MW14 | | 12:05 | | X | X | X | X | X | | | |
| 8 | TRIP BLANK | | | | X | X | X | X | X | | | |
| 9 | EQUIPMENT BLANK | | | | X | X | X | X | X | | | |
| 10 | MW-DUP | | | | X | X | X | X | X | | | |
| * 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 | | | |
| Adam (M) / Adam Clarke | | 20/10/29 | | K. Tomlinson | | | | | Time Sensitive | Temperature (°C) on Receipt | Custody Seal intact on Cooler? | |
| | | | | | | | | | | 6.2, 5 | Yes 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. | | | | | | | | | | | | |

FISH TOXICITY REPORT (Single Concentration)



| CLIENT INFORMATION | TEST FACILITY INFORMATION |
|---|--|
| Englobe 97 Troop Ave., Dartmouth, NS, B3B 2A7 Contact: Ryan Pellerin | Harris Industrial Testing Service Ltd. 1320 Ashdale Rd., South Rawdon Nova Scotia B0N 1Z0 Ph: 902 757-0232 Fax: 902 757-2839 office@harrisindustrial.info |

| SAMPLE INFORMATION (Client-provided data italicised) | GENERAL TEST INFORMATION |
|--|---|
| Lab Identification #: 20-267-A Sample Name/Location: TW1 Sampling Method: Grab Sample Homogenized: No Sampler Name: A. Clarke Date & Time Sampled: May 28 2020 1030 hrs Date & Time Received: May 28 2020 1650 hrs Sample Description: Pale yellow, translucent liquid | Reference Method: EPS 1/RM/13 2 nd Ed. Dec. 2000 with Feb. 2016 Amendments Type: Single Concentration (Pass/Fail) Tox 9A General Test Procedures held on file Test Organism: <i>Oncorhynchus mykiss</i> (Rainbow trout) |

| PRE-TEST PARAMETERS | SAMPLE PRE-TREATMENT |
|--|---|
| Pre-test Temp. (°C): 14.5 Pre-test D.O. (mg/L): 8.5 Pre-test D.O. Saturation (%): 84 Pre-test pH: 7.3 pH Adjusted: No Sample Conductivity (µS/cm): 537 | Mandatory 30 minute Pre-aeration: Yes Rate (ml/min/L): 6.5 ± 1 Time: 1350 hrs D.O. (mg/L): 8.6 D.O. Saturation (%): 87 Pre-aeration Continued: No Duration: -- min. @ -- hrs D.O. (mg/L): -- D.O. Saturation (%): -- Aeration continued throughout test by airstone @ 6.5 ± 1 ml/min/L |

| TEST CONDITIONS | | |
|--|---|--|
| Date & Time Test Initiated: May 29 2020 1420 Hrs Date & Time Test Terminated: Jun. 02 2020 1420 Hrs | | Deviations from Test Method: No Description: N/A |
| Fish Batch #: 313 % Mortality over 7 days prior to test: 0.3 | Loading Density (g/L): 0.35 Mean Fork Length (mm): 39 ± 4.1 SD Range (mm): 34 – 46 Mean Wet Weight (g): 0.62 ± 0.21 SD Range (g): 0.37 – 1.04 | Temperature: 15 ± 1°C Photoperiod: 16L/8D Lux: 100 – 500 Static Test, Duration: 96 hours Control/Dilution Water: HITS Well Water |
| Test Volume (L): 18 Depth (cm): 31.2 Replicates: No Number of fish per vessel: 10 | | |

| TEST PARAMETERS | | | | | | | |
|-----------------|-------------|--------------|-----|----------------|----------------|--------------|-----|
| INITIAL (0 hrs) | | | | | FINAL (96 hrs) | | |
| CONC. % | TEMP. °C | D.O. mg/L | pH | COND. µS/cm | TEMP. °C | D.O. mg/L | pH |
| 100 | 15.5 | 8.6 | 7.4 | 540 | 16.0 | 8.9 | 8.2 |
| Control | 15.5 | 10.2 | 7.7 | 147 | 16.0 | 8.6 | 7.7 |

TEST RESULTS

| | | TOTAL MORTALITY | | | | PERCENT MORTALITY | | | |
|---------|--|-----------------|--------|--------|--------|-------------------|--------|--------|--------|
| | | # | | | | % | | | |
| CONC. | | 24 hrs | 48 hrs | 72 hrs | 96 hrs | 24 hrs | 48 hrs | 72 hrs | 96 hrs |
| % | | | | | | | | | |
| 100 | | 0/10 | 0/10 | 0/10 | 0/10 | 0 | 0 | 0 | 0 |
| Control | | 0/10 | 0/10 | 0/10 | 0/10 | 0 | 0 | 0 | 0 |

| | | TOTAL STRESS | | | | PERCENT STRESS | | | |
|---------|--|--------------|--------|--------|--------|----------------|--------|--------|--------|
| | | # | | | | % | | | |
| CONC. | | 24 hrs | 48 hrs | 72 hrs | 96 hrs | 24 hrs | 48 hrs | 72 hrs | 96 hrs |
| % | | | | | | | | | |
| 100 | | 0/10 | 0/10 | 0/10 | 0/10 | 0 | 0 | 0 | 0 |
| Control | | 0/10 | 0/10 | 0/10 | 0/10 | 0 | 0 | 0 | 0 |

96 HR ACUTE LETHALITY RESULTS

TOTAL MORTALITY: 0 %
Result: Pass

REFERENCE TOXICANT DATA

Performed under laboratory conditions as above, no deviations

Batch: 313 Test Date: May 26 – 30 2020

Reference Substance: Phenol

LC₅₀ Value: 12.4 mg/L
 95% Confidence Limits: 11.2 – 13.7 mg/L
 Historical Mean: 11.1 mg/L
 Warning Limits \pm 2 SD: 8.20 – 15.1 mg/L

COMMENTS

Test meets all conditions for test validity.

TEST AUTHORIZATION AND VERIFICATION

Analyst(s): K. Marks & J. Fraser

Verified by: D. Robinson

Date: Jun. 02 2020

Signed:


REFERENCES

Tidepool Scientific Software, 2001 - 2014. Comprehensive Environmental Toxicity Information System – CETIS v1.8.7.20

Accredited by the Canadian Association for Laboratory Accreditation Inc. (CALA Inc.).

The test included in this report is within the scope of this accreditation.

Results apply to the sample as received. Results reported apply only to the sample tested. Results are based on nominal concentrations.

FISH TOXICITY REPORT (Single Concentration)



| CLIENT INFORMATION | TEST FACILITY INFORMATION |
|---|--|
| Englobe 97 Troop Ave., Dartmouth, NS, B3B 2A7 Contact: Ryan Pellerin | Harris Industrial Testing Service Ltd. 1320 Ashdale Rd., South Rawdon Nova Scotia B0N 1Z0 Ph: 902 757-0232 Fax: 902 757-2839 office@harrisindustrial.info |

| SAMPLE INFORMATION (Client-provided data italicised) | GENERAL TEST INFORMATION |
|--|---|
| Lab Identification #: 20-267-B Sample Name/Location: TW3 Sampling Method: Grab Sample Homogenized: No Sampler Name: A. Clarke Date & Time Sampled: May 28 2020 1345 hrs Date & Time Received: May 28 2020 1650 hrs Sample Description: Yellow, opaque liquid | Reference Method: EPS 1/RM/13 2 nd Ed. Dec. 2000 with Feb. 2016 Amendments Type: Single Concentration (Pass/Fail) Tox 9A General Test Procedures held on file Test Organism: <i>Oncorhynchus mykiss</i> (Rainbow trout) |

| PRE-TEST PARAMETERS | SAMPLE PRE-TREATMENT |
|---|---|
| Pre-test Temp. (°C): 14.0 Pre-test D.O. (mg/L): 9.6 Pre-test D.O. Saturation (%): 94 Pre-test pH: 7.2 pH Adjusted: No Sample Conductivity (µS/cm): 1031 | Mandatory 30 minute Pre-aeration: Yes Rate (ml/min/L): 6.5 ± 1 Time: 1350 hrs D.O. (mg/L): 9.7 D.O. Saturation (%): 97 Pre-aeration Continued: No Duration: -- min. @ -- hrs D.O. (mg/L): -- D.O. Saturation (%): -- Aeration continued throughout test by airstone @ 6.5 ± 1 ml/min/L |

| TEST CONDITIONS | | |
|--|---|--|
| Date & Time Test Initiated: May 29 2020 1420 Hrs Date & Time Test Terminated: Jun. 02 2020 1420 Hrs | | Deviations from Test Method: No Description: N/A |
| Fish Batch #: 313 % Mortality over 7 days prior to test: 0.3 | Loading Density (g/L): 0.38 Mean Fork Length (mm): 37 ± 4.3 SD Range (mm): 30 – 44 Mean Wet Weight (g): 0.69 ± 0.20 SD Range (g): 0.42 – 0.95 | Temperature: 15 ± 1°C Photoperiod: 16L/8D Lux: 100 – 500 Static Test, Duration: 96 hours Control/Dilution Water: HITS Well Water |
| Test Volume (L): 18 Depth (cm): 31.2 Replicates: No Number of fish per vessel: 10 | | |

| TEST PARAMETERS | | | | | | | |
|-----------------|-------------|--------------|-----|----------------|----------------|--------------|-----|
| INITIAL (0 hrs) | | | | | FINAL (96 hrs) | | |
| CONC. % | TEMP. °C | D.O. mg/L | pH | COND. µS/cm | TEMP. °C | D.O. mg/L | pH |
| 100 | 15.5 | 9.7 | 7.3 | 1044 | 16.0 | 8.8 | 8.1 |
| Control | 15.5 | 10.1 | 7.7 | 153 | 16.0 | 8.5 | 7.7 |

TEST RESULTS

| | | TOTAL MORTALITY | | | | PERCENT MORTALITY | | | |
|---------|--|-----------------|--------|--------|--------|-------------------|--------|--------|--------|
| | | # | | | | % | | | |
| CONC. | | 24 hrs | 48 hrs | 72 hrs | 96 hrs | 24 hrs | 48 hrs | 72 hrs | 96 hrs |
| % | | | | | | | | | |
| 100 | | 0/10 | 0/10 | 0/10 | 0/10 | 0 | 0 | 0 | 0 |
| Control | | 0/10 | 0/10 | 0/10 | 0/10 | 0 | 0 | 0 | 0 |

| | | TOTAL STRESS | | | | PERCENT STRESS | | | |
|---------|--|--------------|--------|--------|--------|----------------|--------|--------|--------|
| | | # | | | | % | | | |
| CONC. | | 24 hrs | 48 hrs | 72 hrs | 96 hrs | 24 hrs | 48 hrs | 72 hrs | 96 hrs |
| % | | | | | | | | | |
| 100 | | 0/10 | 0/10 | 0/10 | 0/10 | 0 | 0 | 0 | 0 |
| Control | | 0/10 | 0/10 | 0/10 | 0/10 | 0 | 0 | 0 | 0 |

96 HR ACUTE LETHALITY RESULTS

TOTAL MORTALITY: 0 %
Result: Pass

REFERENCE TOXICANT DATA

Performed under laboratory conditions as above, no deviations

Batch: 313 Test Date: May 26 – 30 2020

Reference Substance: Phenol

LC₅₀ Value: 12.4 mg/L
 95% Confidence Limits: 11.2 – 13.7 mg/L
 Historical Mean: 11.1 mg/L
 Warning Limits \pm 2 SD: 8.20 – 15.1 mg/L

COMMENTS

Test meets all conditions for test validity.

TEST AUTHORIZATION AND VERIFICATION

Analyst(s): K. Marks & J. Fraser

Verified by: D. Robinson

Date: Jun. 02 2020

Signed:


REFERENCES

Tidepool Scientific Software, 2001 - 2014. Comprehensive Environmental Toxicity Information System – CETIS v1.8.7.20

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The test included in this report is within the scope of this accreditation.

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FISH TOXICITY REPORT (Single Concentration)



| CLIENT INFORMATION | TEST FACILITY INFORMATION |
|---|--|
| Englobe 97 Troop Ave., Dartmouth, NS, B3B 2A7 Contact: Ryan Pellerin | Harris Industrial Testing Service Ltd. 1320 Ashdale Rd., South Rawdon Nova Scotia B0N 1Z0 Ph: 902 757-0232 Fax: 902 757-2839 office@harrisindustrial.info |

| SAMPLE INFORMATION (Client-provided data italicised) | GENERAL TEST INFORMATION |
|--|---|
| Lab Identification #: 20-267-C Sample Name/Location: TW4 Sampling Method: Grab Sample Homogenized: No Sampler Name: A. Clarke Date & Time Sampled: May 28 2020 1430 hrs Date & Time Received: May 28 2020 1650 hrs Sample Description: Pale yellow, transparent liquid with sediment | Reference Method: EPS 1/RM/13 2 nd Ed. Dec. 2000 with Feb. 2016 Amendments Type: Single Concentration (Pass/Fail) Tox 9A General Test Procedures held on file Test Organism: <i>Oncorhynchus mykiss</i> (Rainbow trout) |

| PRE-TEST PARAMETERS | SAMPLE PRE-TREATMENT |
|--|---|
| Pre-test Temp. (°C): 15.5 Pre-test D.O. (mg/L): 7.2 Pre-test D.O. Saturation (%): 73 Pre-test pH: 7.6 pH Adjusted: No Sample Conductivity (µS/cm): 723 | Mandatory 30 minute Pre-aeration: Yes Rate (ml/min/L): 6.5 ± 1 Time: 1350 hrs D.O. (mg/L): 7.4 D.O. Saturation (%): 74 Pre-aeration Continued: No Duration: -- min. @ -- hrs D.O. (mg/L): -- D.O. Saturation (%): -- Aeration continued throughout test by airstone @ 6.5 ± 1 ml/min/L |

| TEST CONDITIONS | | | |
|--|---|--|--|
| Date & Time Test Initiated: May 29 2020 1420 Hrs Date & Time Test Terminated: Jun. 02 2020 1420 Hrs | | Deviations from Test Method: No Description: N/A | |
| Fish Batch #: 313 % Mortality over 7 days prior to test: 0.3 | Loading Density (g/L): 0.33 Mean Fork Length (mm): 35 ± 5.3 SD Range (mm): 27 – 43 Mean Wet Weight (g): 0.53 ± 0.26 SD Range (g): 0.22 – 0.88 | Temperature: 15 ± 1°C Photoperiod: 16L/8D Lux: 100 – 500 Static Test, Duration: 96 hours Control/Dilution Water: HITS Well Water | |
| Test Volume (L): 16 Depth (cm): 28.3 Replicates: No Number of fish per vessel: 10 | | | |

| TEST PARAMETERS | | | | | | | |
|-----------------|-------------|--------------|-----|----------------|----------------|--------------|-----|
| INITIAL (0 hrs) | | | | | FINAL (96 hrs) | | |
| CONC. % | TEMP. °C | D.O. mg/L | pH | COND. µS/cm | TEMP. °C | D.O. mg/L | pH |
| 100 | 15.5 | 7.4 | 7.6 | 711 | 16.0 | 8.3 | 8.1 |
| Control | 16.0 | 9.8 | 7.9 | 154 | 16.0 | 8.8 | 7.8 |

TEST RESULTS

| | | TOTAL MORTALITY | | | | PERCENT MORTALITY | | | |
|---------|--|-----------------|--------|--------|--------|-------------------|--------|--------|--------|
| | | # | | | | % | | | |
| CONC. | | 24 hrs | 48 hrs | 72 hrs | 96 hrs | 24 hrs | 48 hrs | 72 hrs | 96 hrs |
| % | | | | | | | | | |
| 100 | | 0/10 | 0/10 | 0/10 | 0/10 | 0 | 0 | 0 | 0 |
| Control | | 0/10 | 0/10 | 0/10 | 0/10 | 0 | 0 | 0 | 0 |

| | | TOTAL STRESS | | | | PERCENT STRESS | | | |
|---------|--|--------------|--------|--------|--------|----------------|--------|--------|--------|
| | | # | | | | % | | | |
| CONC. | | 24 hrs | 48 hrs | 72 hrs | 96 hrs | 24 hrs | 48 hrs | 72 hrs | 96 hrs |
| % | | | | | | | | | |
| 100 | | 0/10 | 0/10 | 0/10 | 0/10 | 0 | 0 | 0 | 0 |
| Control | | 0/10 | 0/10 | 0/10 | 0/10 | 0 | 0 | 0 | 0 |

96 HR ACUTE LETHALITY RESULTS

TOTAL MORTALITY: 0 %
Result: Pass

REFERENCE TOXICANT DATA

Performed under laboratory conditions as above, no deviations

Batch: 313 Test Date: May 26 – 30 2020

Reference Substance: Phenol

LC₅₀ Value: 12.4 mg/L
 95% Confidence Limits: 11.2 – 13.7 mg/L
 Historical Mean: 11.1 mg/L
 Warning Limits \pm 2 SD: 8.20 – 15.1 mg/L

COMMENTS

Test meets all conditions for test validity.

TEST AUTHORIZATION AND VERIFICATION

Analyst(s): K. Marks & J. Fraser

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