

CERTIFICATE OF ANALYSIS

Tony DeBruyn
Bustins Island Village Corporation
175 Bluff Road
Yarmouth, ME 04096

RE: Road Samples (N/A)
ESS Laboratory Work Order Number: 21F0358

This signed Certificate of Analysis is our approved release of your analytical results. These results are only representative of sample aliquots received at the laboratory. ESS Laboratory expects its clients to follow all regulatory sampling guidelines. Beginning with this page, the entire report has been paginated. This report should not be copied except in full without the approval of the laboratory. Samples will be disposed of thirty days after the final report has been delivered. If you have any questions or concerns, please feel free to call our Customer Service Department.



Laurel Stoddard
Laboratory Director

REVIEWED**By ESS Laboratory at 6:14 pm, Jul 07, 2021****Analytical Summary**

The project as described above has been analyzed in accordance with the ESS Quality Assurance Plan. This plan utilizes the following methodologies: US EPA SW-846, US EPA Methods for Chemical Analysis of Water and Wastes per 40 CFR Part 136, APHA Standard Methods for the Examination of Water and Wastewater, American Society for Testing and Materials (ASTM), and other recognized methodologies. The analyses with these noted observations are in conformance to the Quality Assurance Plan. In chromatographic analysis, manual integration is frequently used instead of automated integration because it produces more accurate results.

The test results present in this report are in compliance with TNI and relative state standards, and/or client Quality Assurance Project Plans (QAPP). The laboratory has reviewed the following: Sample Preservations, Hold Times, Initial Calibrations, Continuing Calibrations, Method Blanks, Blank Spikes, Blank Spike Duplicates, Duplicates, Matrix Spikes, Matrix Spike Duplicates, Surrogates and Internal Standards. Any results which were found to be outside of the recommended ranges stated in our SOPs will be noted in the Project Narrative.



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
Client Project ID: Road Samples

ESS Laboratory Work Order: 21F0358

SAMPLE RECEIPT

The following samples were received on May 26, 2021 for the analyses specified on the enclosed Chain of Custody Record.

For VOA analysis sample -03 there is one internal standard failing and no additional vials were sent for re-analysis.

Low Level VOA vials were frozen by ESS Laboratory on 5/28/21 at 1230.

<u>Lab Number</u>	<u>Sample Name</u>	<u>Matrix</u>	<u>Analysis</u>
21F0358-01	██████ Samples	Soil	6010C, 8100M, 8260B Low
21F0358-02	Stump Dump	Soil	6010C, 8100M, 8260B Low
21F0358-03	██████ Sample	Soil	6010C, 8100M, 8260B Low



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
Client Project ID: Road Samples

ESS Laboratory Work Order: 21F0358

PROJECT NARRATIVE

5035/8260B Volatile Organic Compounds / Low Level

- 21F0358-01 [Estimated value. Sample hold times were exceeded \(H\).](#)
- 21F0358-02 [Estimated value. Sample hold times were exceeded \(H\).](#)
- 21F0358-03 [Estimated value. Sample hold times were exceeded \(H\).](#)
- 21F0358-03 [Internal Standard\(s\) outside of criteria \(I\).](#)
1,4-Dichlorobenzene-D4 (30% @ 50-200%)
- D1F0196-CCV1 [Continuing Calibration %Diff/Drift is above control limit \(CD+\).](#)
2,2-Dichloropropane (21% @ 20%), Tetrachloroethene (25% @ 20%)
- DF11029-BS1 [Blank Spike recovery is above upper control limit \(B+\).](#)
Acetone (173% @ 70-130%)
- DF11029-BSD1 [Blank Spike recovery is above upper control limit \(B+\).](#)
Acetone (169% @ 70-130%)

8100M Total Petroleum Hydrocarbons

- 21F0358-01 [Estimated value. Sample hold times were exceeded \(H\).](#)
- 21F0358-01 [Surrogate recovery\(ies\) diluted below the MRL \(SD\).](#)
O-Terphenyl (% @ 40-140%)
- 21F0358-02 [Estimated value. Sample hold times were exceeded \(H\).](#)
- 21F0358-02 [Surrogate recovery\(ies\) diluted below the MRL \(SD\).](#)
O-Terphenyl (% @ 40-140%)
- 21F0358-03 [Estimated value. Sample hold times were exceeded \(H\).](#)
- 21F0358-03 [Surrogate recovery\(ies\) diluted below the MRL \(SD\).](#)
O-Terphenyl (% @ 40-140%)

No other observations noted.

End of Project Narrative.

DATA USABILITY LINKS

To ensure you are viewing the most current version of the documents below, please clear your internet cookies for www.ESSLaboratory.com. Consult your IT Support personnel for information on how to clear your internet cookies.

- [Definitions of Quality Control Parameters](#)
- [Semivolatile Organics Internal Standard Information](#)
- [Semivolatile Organics Surrogate Information](#)
- [Volatile Organics Internal Standard Information](#)
- [Volatile Organics Surrogate Information](#)
- [EPH and VPH Alkane Lists](#)



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
Client Project ID: Road Samples

ESS Laboratory Work Order: 21F0358

CURRENT SW-846 METHODOLOGY VERSIONS

Analytical Methods

- 1010A - Flashpoint
- 6010C - ICP
- 6020A - ICP MS
- 7010 - Graphite Furnace
- 7196A - Hexavalent Chromium
- 7470A - Aqueous Mercury
- 7471B - Solid Mercury
- 8011 - EDB/DBCP/TCP
- 8015C - GRO/DRO
- 8081B - Pesticides
- 8082A - PCB
- 8100M - TPH
- 8151A - Herbicides
- 8260B - VOA
- 8270D - SVOA
- 8270D SIM - SVOA Low Level
- 9014 - Cyanide
- 9038 - Sulfate
- 9040C - Aqueous pH
- 9045D - Solid pH (Corrosivity)
- 9050A - Specific Conductance
- 9056A - Anions (IC)
- 9060A - TOC
- 9095B - Paint Filter
- MADEP 04-1.1 - EPH
- MADEP 18-2.1 - VPH

Prep Methods

- 3005A - Aqueous ICP Digestion
- 3020A - Aqueous Graphite Furnace / ICP MS Digestion
- 3050B - Solid ICP / Graphite Furnace / ICP MS Digestion
- 3060A - Solid Hexavalent Chromium Digestion
- 3510C - Separatory Funnel Extraction
- 3520C - Liquid / Liquid Extraction
- 3540C - Manual Soxhlet Extraction
- 3541 - Automated Soxhlet Extraction
- 3546 - Microwave Extraction
- 3580A - Waste Dilution
- 5030B - Aqueous Purge and Trap
- 5030C - Aqueous Purge and Trap
- 5035A - Solid Purge and Trap

SW846 Reactivity Methods 7.3.3.2 (Reactive Cyanide) and 7.3.4.1 (Reactive Sulfide) have been withdrawn by EPA. These methods are reported per client request and are not NELAP accredited.



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
Client Project ID: Road Samples
Client Sample ID: [REDACTED] Samples
Date Sampled: 05/26/21 11:55
Percent Solids: 97

ESS Laboratory Work Order: 21F0358
ESS Laboratory Sample ID: 21F0358-01
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	8.35 (2.57)		6010C		1	KJK	06/11/21 0:11	2	100	DF11034
Cadmium	ND (1.03)		6010C		2	KJK	06/11/21 14:43	2	100	DF11034
Lead	7.18 (5.13)		6010C		1	KJK	06/11/21 0:11	2	100	DF11034



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
 Client Project ID: Road Samples
 Client Sample ID: [REDACTED] Samples
 Date Sampled: 05/26/21 11:55
 Percent Solids: 97
 Initial Volume: 13.9
 Final Volume: 10
 Extraction Method: 5035

ESS Laboratory Work Order: 21F0358
 ESS Laboratory Sample ID: 21F0358-01
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
1,1,1-Trichloroethane	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
1,1,2,2-Tetrachloroethane	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
1,1,2-Trichloroethane	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
1,1-Dichloroethane	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
1,1-Dichloroethene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
1,1-Dichloropropene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
1,2,3-Trichlorobenzene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
1,2,3-Trichloropropane	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
1,2,4-Trichlorobenzene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
1,2,4-Trimethylbenzene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
1,2-Dibromo-3-Chloropropane	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
1,2-Dibromoethane	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
1,2-Dichlorobenzene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
1,2-Dichloroethane	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
1,2-Dichloropropane	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
1,3,5-Trimethylbenzene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
1,3-Dichlorobenzene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
1,3-Dichloropropane	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
1,4-Dichlorobenzene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
1,4-Dioxane	ND (0.0369)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
2,2-Dichloropropane	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
2-Butanone	ND (0.0185)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
2-Chlorotoluene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
2-Hexanone	ND (0.0185)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
4-Chlorotoluene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
4-Isopropyltoluene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
4-Methyl-2-Pentanone	ND (0.0185)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Acetone	0.0332 (0.0185)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Acrolein	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Acrylonitrile	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Benzene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
 Client Project ID: Road Samples
 Client Sample ID: [REDACTED] Samples
 Date Sampled: 05/26/21 11:55
 Percent Solids: 97
 Initial Volume: 13.9
 Final Volume: 10
 Extraction Method: 5035

ESS Laboratory Work Order: 21F0358
 ESS Laboratory Sample ID: 21F0358-01
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromobenzene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Bromochloromethane	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Bromodichloromethane	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Bromoform	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Bromomethane	ND (0.0037)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Carbon Disulfide	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Carbon Tetrachloride	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Chlorobenzene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Chloroethane	ND (0.0037)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Chloroform	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Chloromethane	ND (0.0037)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
cis-1,2-Dichloroethene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
cis-1,3-Dichloropropene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Dibromochloromethane	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Dibromomethane	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Dichlorodifluoromethane	ND (0.0037)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Diethyl Ether	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Di-isopropyl ether	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Ethyl tertiary-butyl ether	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Ethylbenzene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Hexachlorobutadiene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Isopropylbenzene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Methyl acetate	0.0500 (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Methyl tert-Butyl Ether	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Methylene Chloride	ND (0.0092)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Naphthalene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
n-Butylbenzene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
n-Propylbenzene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
sec-Butylbenzene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Styrene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
tert-Butylbenzene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Tertiary-amyl methyl ether	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
 Client Project ID: Road Samples
 Client Sample ID: [REDACTED] Samples
 Date Sampled: 05/26/21 11:55
 Percent Solids: 97
 Initial Volume: 13.9
 Final Volume: 10
 Extraction Method: 5035

ESS Laboratory Work Order: 21F0358
 ESS Laboratory Sample ID: 21F0358-01
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrachloroethene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Tetrahydrofuran	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Toluene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
trans-1,2-Dichloroethene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
trans-1,3-Dichloropropene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Trichloroethene	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Trichlorofluoromethane	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Vinyl Acetate	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Vinyl Chloride	ND (0.0037)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Xylene O	ND (0.0018)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029
Xylene P,M	ND (0.0037)		8260B Low		1	06/10/21 13:52	D1F0196	DF11029

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>106 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>90 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>106 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>98 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
Client Project ID: Road Samples
Client Sample ID: [REDACTED] Samples
Date Sampled: 05/26/21 11:55
Percent Solids: 97
Initial Volume: 19.8
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 21F0358
ESS Laboratory Sample ID: 21F0358-01
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TLW
Prepared: 6/10/21 16:03

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	783 (311)		8100M		20	06/12/21 19:40	D1F0216	DF11014
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		<i>%</i>	<i>SD</i>	<i>40-140</i>				



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
Client Project ID: Road Samples
Client Sample ID: Stump Dump
Date Sampled: 05/26/21 12:08
Percent Solids: 99

ESS Laboratory Work Order: 21F0358
ESS Laboratory Sample ID: 21F0358-02
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	5.48 (2.53)		6010C		1	KJK	06/11/21 0:13	2	100	DF11034
Cadmium	ND (1.01)		6010C		2	KJK	06/11/21 14:51	2	100	DF11034
Lead	7.60 (5.06)		6010C		1	KJK	06/11/21 0:13	2	100	DF11034



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
Client Project ID: Road Samples
Client Sample ID: Stump Dump
Date Sampled: 05/26/21 12:08
Percent Solids: 99
Initial Volume: 7.4
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 21F0358
ESS Laboratory Sample ID: 21F0358-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
1,1,1-Trichloroethane	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
1,1,2,2-Tetrachloroethane	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
1,1,2-Trichloroethane	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
1,1-Dichloroethane	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
1,1-Dichloroethene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
1,1-Dichloropropene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
1,2,3-Trichlorobenzene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
1,2,3-Trichloropropane	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
1,2,4-Trichlorobenzene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
1,2,4-Trimethylbenzene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
1,2-Dibromo-3-Chloropropane	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
1,2-Dibromoethane	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
1,2-Dichlorobenzene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
1,2-Dichloroethane	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
1,2-Dichloropropane	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
1,3,5-Trimethylbenzene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
1,3-Dichlorobenzene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
1,3-Dichloropropane	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
1,4-Dichlorobenzene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
1,4-Dioxane	ND (0.0684)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
2,2-Dichloropropane	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
2-Butanone	ND (0.0342)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
2-Chlorotoluene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
2-Hexanone	ND (0.0342)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
4-Chlorotoluene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
4-Isopropyltoluene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
4-Methyl-2-Pentanone	ND (0.0342)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Acetone	ND (0.0342)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Acrolein	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Acrylonitrile	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Benzene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
Client Project ID: Road Samples
Client Sample ID: Stump Dump
Date Sampled: 05/26/21 12:08
Percent Solids: 99
Initial Volume: 7.4
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 21F0358
ESS Laboratory Sample ID: 21F0358-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromobenzene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Bromochloromethane	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Bromodichloromethane	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Bromoform	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Bromomethane	ND (0.0068)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Carbon Disulfide	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Carbon Tetrachloride	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Chlorobenzene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Chloroethane	ND (0.0068)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Chloroform	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Chloromethane	ND (0.0068)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
cis-1,2-Dichloroethene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
cis-1,3-Dichloropropene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Dibromochloromethane	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Dibromomethane	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Dichlorodifluoromethane	ND (0.0068)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Diethyl Ether	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Di-isopropyl ether	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Ethyl tertiary-butyl ether	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Ethylbenzene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Hexachlorobutadiene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Isopropylbenzene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Methyl acetate	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Methyl tert-Butyl Ether	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Methylene Chloride	ND (0.0171)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Naphthalene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
n-Butylbenzene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
n-Propylbenzene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
sec-Butylbenzene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Styrene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
tert-Butylbenzene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Tertiary-amyl methyl ether	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
Client Project ID: Road Samples
Client Sample ID: Stump Dump
Date Sampled: 05/26/21 12:08
Percent Solids: 99
Initial Volume: 7.4
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 21F0358
ESS Laboratory Sample ID: 21F0358-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrachloroethene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Tetrahydrofuran	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Toluene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
trans-1,2-Dichloroethene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
trans-1,3-Dichloropropene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Trichloroethene	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Trichlorofluoromethane	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Vinyl Acetate	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Vinyl Chloride	ND (0.0068)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Xylene O	ND (0.0034)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029
Xylene P,M	ND (0.0068)		8260B Low		1	06/10/21 14:43	D1F0196	DF11029

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>117 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>91 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>107 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>98 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
Client Project ID: Road Samples
Client Sample ID: Stump Dump
Date Sampled: 05/26/21 12:08
Percent Solids: 99
Initial Volume: 19.9
Final Volume: 1
Extraction Method: 3546

ESS Laboratory Work Order: 21F0358
ESS Laboratory Sample ID: 21F0358-02
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TLW
Prepared: 6/10/21 16:03

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	1240 (305)		8100M		20	06/12/21 20:13	D1F0216	DF11014
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		<i>%</i>	<i>SD</i>	<i>40-140</i>				



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
Client Project ID: Road Samples
Client Sample ID: [REDACTED] Sample
Date Sampled: 05/26/21 12:25
Percent Solids: 95

ESS Laboratory Work Order: 21F0358
ESS Laboratory Sample ID: 21F0358-03
Sample Matrix: Soil
Units: mg/kg dry

Extraction Method: 3050B

Total Metals

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyst</u>	<u>Analyzed</u>	<u>I/V</u>	<u>F/V</u>	<u>Batch</u>
Arsenic	8.47 (2.44)		6010C		1	KJK	06/11/21 0:21	2.15	100	DF11034
Cadmium	ND (0.98)		6010C		2	KJK	06/11/21 14:52	2.15	100	DF11034
Lead	8.44 (4.88)		6010C		1	KJK	06/11/21 0:21	2.15	100	DF11034



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
 Client Project ID: Road Samples
 Client Sample ID: [REDACTED] Sample
 Date Sampled: 05/26/21 12:25
 Percent Solids: 95
 Initial Volume: 5.6
 Final Volume: 10
 Extraction Method: 5035

ESS Laboratory Work Order: 21F0358
 ESS Laboratory Sample ID: 21F0358-03
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
1,1,1,2-Tetrachloroethane	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
1,1,1-Trichloroethane	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
1,1,2,2-Tetrachloroethane	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
1,1,2-Trichloroethane	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
1,1-Dichloroethane	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
1,1-Dichloroethene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
1,1-Dichloropropene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
1,2,3-Trichlorobenzene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
1,2,3-Trichloropropane	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
1,2,4-Trichlorobenzene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
1,2,4-Trimethylbenzene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
1,2-Dibromo-3-Chloropropane	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
1,2-Dibromoethane	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
1,2-Dichlorobenzene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
1,2-Dichloroethane	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
1,2-Dichloropropane	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
1,3,5-Trimethylbenzene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
1,3-Dichlorobenzene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
1,3-Dichloropropane	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
1,4-Dichlorobenzene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
1,4-Dioxane	ND (0.0937)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
2,2-Dichloropropane	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
2-Butanone	ND (0.0469)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
2-Chlorotoluene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
2-Hexanone	ND (0.0469)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
4-Chlorotoluene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
4-Isopropyltoluene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
4-Methyl-2-Pentanone	ND (0.0469)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Acetone	ND (0.0469)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Acrolein	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Acrylonitrile	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Benzene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
 Client Project ID: Road Samples
 Client Sample ID: [REDACTED] Sample
 Date Sampled: 05/26/21 12:25
 Percent Solids: 95
 Initial Volume: 5.6
 Final Volume: 10
 Extraction Method: 5035

ESS Laboratory Work Order: 21F0358
 ESS Laboratory Sample ID: 21F0358-03
 Sample Matrix: Soil
 Units: mg/kg dry
 Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Bromobenzene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Bromochloromethane	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Bromodichloromethane	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Bromoform	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Bromomethane	ND (0.0094)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Carbon Disulfide	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Carbon Tetrachloride	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Chlorobenzene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Chloroethane	ND (0.0094)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Chloroform	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Chloromethane	ND (0.0094)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
cis-1,2-Dichloroethene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
cis-1,3-Dichloropropene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Dibromochloromethane	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Dibromomethane	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Dichlorodifluoromethane	ND (0.0094)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Diethyl Ether	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Di-isopropyl ether	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Ethyl tertiary-butyl ether	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Ethylbenzene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Hexachlorobutadiene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Isopropylbenzene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Methyl acetate	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Methyl tert-Butyl Ether	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Methylene Chloride	ND (0.0234)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Naphthalene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
n-Butylbenzene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
n-Propylbenzene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
sec-Butylbenzene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Styrene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
tert-Butylbenzene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Tertiary-amyl methyl ether	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
Client Project ID: Road Samples
Client Sample ID: [REDACTED] Sample
Date Sampled: 05/26/21 12:25
Percent Solids: 95
Initial Volume: 5.6
Final Volume: 10
Extraction Method: 5035

ESS Laboratory Work Order: 21F0358
ESS Laboratory Sample ID: 21F0358-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: MEK

5035/8260B Volatile Organic Compounds / Low Level

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Tetrachloroethene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Tetrahydrofuran	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Toluene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
trans-1,2-Dichloroethene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
trans-1,3-Dichloropropene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Trichloroethene	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Trichlorofluoromethane	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Vinyl Acetate	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Vinyl Chloride	ND (0.0094)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Xylene O	ND (0.0047)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029
Xylene P,M	ND (0.0094)		8260B Low		1	06/10/21 14:17	D1F0196	DF11029

	<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>
<i>Surrogate: 1,2-Dichloroethane-d4</i>	<i>126 %</i>		<i>70-130</i>
<i>Surrogate: 4-Bromofluorobenzene</i>	<i>71 %</i>		<i>70-130</i>
<i>Surrogate: Dibromofluoromethane</i>	<i>116 %</i>		<i>70-130</i>
<i>Surrogate: Toluene-d8</i>	<i>112 %</i>		<i>70-130</i>



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
Client Project ID: Road Samples
Client Sample ID: [REDACTED] Sample
Date Sampled: 05/26/21 12:25
Percent Solids: 95
Initial Volume: 19.2
Final Volume: 2
Extraction Method: 3546

ESS Laboratory Work Order: 21F0358
ESS Laboratory Sample ID: 21F0358-03
Sample Matrix: Soil
Units: mg/kg dry
Analyst: TLW
Prepared: 6/10/21 16:03

8100M Total Petroleum Hydrocarbons

<u>Analyte</u>	<u>Results (MRL)</u>	<u>MDL</u>	<u>Method</u>	<u>Limit</u>	<u>DF</u>	<u>Analyzed</u>	<u>Sequence</u>	<u>Batch</u>
Total Petroleum Hydrocarbons	2100 (656)		8100M		20	06/12/21 20:47	D1F0216	DF11014
		<i>%Recovery</i>	<i>Qualifier</i>	<i>Limits</i>				
<i>Surrogate: O-Terphenyl</i>		<i>%</i>	<i>SD</i>	<i>40-140</i>				



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
Client Project ID: Road Samples

ESS Laboratory Work Order: 21F0358

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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Total Metals

Batch DF11034 - 3050B

Blank

Arsenic	ND	2.50	mg/kg wet							
Cadmium	ND	0.50	mg/kg wet							
Lead	ND	5.00	mg/kg wet							

LCS

Arsenic	223	7.94	mg/kg wet	281.0		79	70-130			
Cadmium	215	1.59	mg/kg wet	276.0		78	75-125			
Lead	179	15.9	mg/kg wet	228.0		79	74-126			

LCS Dup

Arsenic	225	8.20	mg/kg wet	281.0		80	70-130	1	20	
Cadmium	219	1.64	mg/kg wet	276.0		79	75-125	2	20	
Lead	185	16.4	mg/kg wet	228.0		81	74-126	3	20	

5035/8260B Volatile Organic Compounds / Low Level

Batch DF11029 - 5035

Blank

1,1,1,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,1-Trichloroethane	ND	0.0050	mg/kg wet							
1,1,2,2-Tetrachloroethane	ND	0.0050	mg/kg wet							
1,1,2-Trichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethane	ND	0.0050	mg/kg wet							
1,1-Dichloroethene	ND	0.0050	mg/kg wet							
1,1-Dichloropropene	ND	0.0050	mg/kg wet							
1,2,3-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,3-Trichloropropane	ND	0.0050	mg/kg wet							
1,2,4-Trichlorobenzene	ND	0.0050	mg/kg wet							
1,2,4-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,2-Dibromo-3-Chloropropane	ND	0.0050	mg/kg wet							
1,2-Dibromoethane	ND	0.0050	mg/kg wet							
1,2-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,2-Dichloroethane	ND	0.0050	mg/kg wet							
1,2-Dichloropropane	ND	0.0050	mg/kg wet							
1,3,5-Trimethylbenzene	ND	0.0050	mg/kg wet							
1,3-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,3-Dichloropropane	ND	0.0050	mg/kg wet							
1,4-Dichlorobenzene	ND	0.0050	mg/kg wet							
1,4-Dioxane	ND	0.100	mg/kg wet							
2,2-Dichloropropane	ND	0.0050	mg/kg wet							
2-Butanone	ND	0.0500	mg/kg wet							
2-Chlorotoluene	ND	0.0050	mg/kg wet							
2-Hexanone	ND	0.0500	mg/kg wet							
4-Chlorotoluene	ND	0.0050	mg/kg wet							
4-Isopropyltoluene	ND	0.0050	mg/kg wet							
4-Methyl-2-Pentanone	ND	0.0500	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
Client Project ID: Road Samples

ESS Laboratory Work Order: 21F0358

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DF11029 - 5035

Acetone	ND	0.0500	mg/kg wet
Acrolein	ND	0.0050	mg/kg wet
Acrylonitrile	ND	0.0050	mg/kg wet
Benzene	ND	0.0050	mg/kg wet
Bromobenzene	ND	0.0050	mg/kg wet
Bromochloromethane	ND	0.0050	mg/kg wet
Bromodichloromethane	ND	0.0050	mg/kg wet
Bromoform	ND	0.0050	mg/kg wet
Bromomethane	ND	0.0100	mg/kg wet
Carbon Disulfide	ND	0.0050	mg/kg wet
Carbon Tetrachloride	ND	0.0050	mg/kg wet
Chlorobenzene	ND	0.0050	mg/kg wet
Chloroethane	ND	0.0100	mg/kg wet
Chloroform	ND	0.0050	mg/kg wet
Chloromethane	ND	0.0100	mg/kg wet
cis-1,2-Dichloroethene	ND	0.0050	mg/kg wet
cis-1,3-Dichloropropene	ND	0.0050	mg/kg wet
Dibromochloromethane	ND	0.0050	mg/kg wet
Dibromomethane	ND	0.0050	mg/kg wet
Dichlorodifluoromethane	ND	0.0100	mg/kg wet
Diethyl Ether	ND	0.0050	mg/kg wet
Di-isopropyl ether	ND	0.0050	mg/kg wet
Ethyl tertiary-butyl ether	ND	0.0050	mg/kg wet
Ethylbenzene	ND	0.0050	mg/kg wet
Hexachlorobutadiene	ND	0.0050	mg/kg wet
Isopropylbenzene	ND	0.0050	mg/kg wet
Methyl acetate	ND	0.0050	mg/kg wet
Methyl tert-Butyl Ether	ND	0.0050	mg/kg wet
Methylene Chloride	ND	0.0250	mg/kg wet
Naphthalene	ND	0.0050	mg/kg wet
n-Butylbenzene	ND	0.0050	mg/kg wet
n-Propylbenzene	ND	0.0050	mg/kg wet
sec-Butylbenzene	ND	0.0050	mg/kg wet
Styrene	ND	0.0050	mg/kg wet
tert-Butylbenzene	ND	0.0050	mg/kg wet
Tertiary-amyl methyl ether	ND	0.0050	mg/kg wet
Tetrachloroethene	ND	0.0050	mg/kg wet
Tetrahydrofuran	ND	0.0050	mg/kg wet
Toluene	ND	0.0050	mg/kg wet
trans-1,2-Dichloroethene	ND	0.0050	mg/kg wet
trans-1,3-Dichloropropene	ND	0.0050	mg/kg wet
Trichloroethene	ND	0.0050	mg/kg wet
Trichlorofluoromethane	ND	0.0050	mg/kg wet
Vinyl Acetate	ND	0.0050	mg/kg wet
Vinyl Chloride	ND	0.0100	mg/kg wet



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
Client Project ID: Road Samples

ESS Laboratory Work Order: 21F0358

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DF11029 - 5035

Xylene O	ND	0.0050	mg/kg wet							
Xylene P,M	ND	0.0100	mg/kg wet							
Surrogate: 1,2-Dichloroethane-d4	0.0539		mg/kg wet	0.05000		108	70-130			
Surrogate: 4-Bromofluorobenzene	0.0477		mg/kg wet	0.05000		95	70-130			
Surrogate: Dibromofluoromethane	0.0508		mg/kg wet	0.05000		102	70-130			
Surrogate: Toluene-d8	0.0469		mg/kg wet	0.05000		94	70-130			

LCS

1,1,1,2-Tetrachloroethane	0.0549	0.0050	mg/kg wet	0.05000		110	70-130			
1,1,1-Trichloroethane	0.0548	0.0050	mg/kg wet	0.05000		110	70-130			
1,1,2,2-Tetrachloroethane	0.0528	0.0050	mg/kg wet	0.05000		106	70-130			
1,1,2-Trichloroethane	0.0516	0.0050	mg/kg wet	0.05000		103	70-130			
1,1-Dichloroethane	0.0502	0.0050	mg/kg wet	0.05000		100	70-130			
1,1-Dichloroethene	0.0549	0.0050	mg/kg wet	0.05000		110	70-130			
1,1-Dichloropropene	0.0541	0.0050	mg/kg wet	0.05000		108	70-130			
1,2,3-Trichlorobenzene	0.0581	0.0050	mg/kg wet	0.05000		116	70-130			
1,2,3-Trichloropropane	0.0530	0.0050	mg/kg wet	0.05000		106	70-130			
1,2,4-Trichlorobenzene	0.0568	0.0050	mg/kg wet	0.05000		114	70-130			
1,2,4-Trimethylbenzene	0.0516	0.0050	mg/kg wet	0.05000		103	70-130			
1,2-Dibromo-3-Chloropropane	0.0522	0.0050	mg/kg wet	0.05000		104	70-130			
1,2-Dibromoethane	0.0537	0.0050	mg/kg wet	0.05000		107	70-130			
1,2-Dichlorobenzene	0.0520	0.0050	mg/kg wet	0.05000		104	70-130			
1,2-Dichloroethane	0.0507	0.0050	mg/kg wet	0.05000		101	70-130			
1,2-Dichloropropane	0.0485	0.0050	mg/kg wet	0.05000		97	70-130			
1,3,5-Trimethylbenzene	0.0521	0.0050	mg/kg wet	0.05000		104	70-130			
1,3-Dichlorobenzene	0.0518	0.0050	mg/kg wet	0.05000		104	70-130			
1,3-Dichloropropane	0.0526	0.0050	mg/kg wet	0.05000		105	70-130			
1,4-Dichlorobenzene	0.0514	0.0050	mg/kg wet	0.05000		103	70-130			
1,4-Dioxane	1.03	0.100	mg/kg wet	1.000		103	70-130			
2,2-Dichloropropane	0.0592	0.0050	mg/kg wet	0.05000		118	70-130			
2-Butanone	0.308	0.0500	mg/kg wet	0.2500		123	70-130			
2-Chlorotoluene	0.0501	0.0050	mg/kg wet	0.05000		100	70-130			
2-Hexanone	0.305	0.0500	mg/kg wet	0.2500		122	70-130			
4-Chlorotoluene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130			
4-Isopropyltoluene	0.0517	0.0050	mg/kg wet	0.05000		103	70-130			
4-Methyl-2-Pentanone	0.278	0.0500	mg/kg wet	0.2500		111	70-130			
Acetone	0.432	0.0500	mg/kg wet	0.2500		173	70-130			B+
Acrolein	0.0480	0.0050	mg/kg wet	0.05000		96	60-140			
Acrylonitrile	0.0549	0.0050	mg/kg wet	0.05000		110	70-130			
Benzene	0.0506	0.0050	mg/kg wet	0.05000		101	70-130			
Bromobenzene	0.0515	0.0050	mg/kg wet	0.05000		103	70-130			
Bromochloromethane	0.0532	0.0050	mg/kg wet	0.05000		106	70-130			
Bromodichloromethane	0.0544	0.0050	mg/kg wet	0.05000		109	70-130			
Bromoform	0.0487	0.0050	mg/kg wet	0.05000		97	70-130			
Bromomethane	0.0496	0.0100	mg/kg wet	0.05000		99	70-130			
Carbon Disulfide	0.0558	0.0050	mg/kg wet	0.05000		112	70-130			



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
Client Project ID: Road Samples

ESS Laboratory Work Order: 21F0358

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DF11029 - 5035

Carbon Tetrachloride	0.0576	0.0050	mg/kg wet	0.05000		115	70-130			
Chlorobenzene	0.0511	0.0050	mg/kg wet	0.05000		102	70-130			
Chloroethane	0.0545	0.0100	mg/kg wet	0.05000		109	70-130			
Chloroform	0.0515	0.0050	mg/kg wet	0.05000		103	70-130			
Chloromethane	0.0540	0.0100	mg/kg wet	0.05000		108	70-130			
cis-1,2-Dichloroethene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130			
cis-1,3-Dichloropropene	0.0552	0.0050	mg/kg wet	0.05000		110	70-130			
Dibromochloromethane	0.0509	0.0050	mg/kg wet	0.05000		102	70-130			
Dibromomethane	0.0521	0.0050	mg/kg wet	0.05000		104	70-130			
Dichlorodifluoromethane	0.0508	0.0100	mg/kg wet	0.05000		102	70-130			
Diethyl Ether	0.0538	0.0050	mg/kg wet	0.05000		108	70-130			
Di-isopropyl ether	0.0496	0.0050	mg/kg wet	0.05000		99	70-130			
Ethyl tertiary-butyl ether	0.0488	0.0050	mg/kg wet	0.05000		98	70-130			
Ethylbenzene	0.0515	0.0050	mg/kg wet	0.05000		103	70-130			
Hexachlorobutadiene	0.0569	0.0050	mg/kg wet	0.05000		114	70-130			
Isopropylbenzene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130			
Methyl acetate	0.0566	0.0050	mg/kg wet	0.05000		113	70-130			
Methyl tert-Butyl Ether	0.0545	0.0050	mg/kg wet	0.05000		109	70-130			
Methylene Chloride	0.0510	0.0250	mg/kg wet	0.05000		102	70-130			
Naphthalene	0.0505	0.0050	mg/kg wet	0.05000		101	70-130			
n-Butylbenzene	0.0538	0.0050	mg/kg wet	0.05000		108	70-130			
n-Propylbenzene	0.0509	0.0050	mg/kg wet	0.05000		102	70-130			
sec-Butylbenzene	0.0500	0.0050	mg/kg wet	0.05000		100	70-130			
Styrene	0.0521	0.0050	mg/kg wet	0.05000		104	70-130			
tert-Butylbenzene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130			
Tertiary-amyl methyl ether	0.0522	0.0050	mg/kg wet	0.05000		104	70-130			
Tetrachloroethene	0.0615	0.0050	mg/kg wet	0.05000		123	70-130			
Tetrahydrofuran	0.0543	0.0050	mg/kg wet	0.05000		109	70-130			
Toluene	0.0517	0.0050	mg/kg wet	0.05000		103	70-130			
trans-1,2-Dichloroethene	0.0515	0.0050	mg/kg wet	0.05000		103	70-130			
trans-1,3-Dichloropropene	0.0486	0.0050	mg/kg wet	0.05000		97	70-130			
Trichloroethene	0.0527	0.0050	mg/kg wet	0.05000		105	70-130			
Trichlorofluoromethane	0.0518	0.0050	mg/kg wet	0.05000		104	70-130			
Vinyl Acetate	0.0422	0.0050	mg/kg wet	0.05000		84	70-130			
Vinyl Chloride	0.0572	0.0100	mg/kg wet	0.05000		114	70-130			
Xylene O	0.0544	0.0050	mg/kg wet	0.05000		109	70-130			
Xylene P,M	0.109	0.0100	mg/kg wet	0.1000		109	70-130			
Surrogate: 1,2-Dichloroethane-d4	0.0496		mg/kg wet	0.05000		99	70-130			
Surrogate: 4-Bromofluorobenzene	0.0486		mg/kg wet	0.05000		97	70-130			
Surrogate: Dibromofluoromethane	0.0495		mg/kg wet	0.05000		99	70-130			
Surrogate: Toluene-d8	0.0468		mg/kg wet	0.05000		94	70-130			

LCS Dup

1,1,1,2-Tetrachloroethane	0.0562	0.0050	mg/kg wet	0.05000		112	70-130	2	20	
1,1,1-Trichloroethane	0.0547	0.0050	mg/kg wet	0.05000		109	70-130	0.3	20	
1,1,2,2-Tetrachloroethane	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	1	20	



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
Client Project ID: Road Samples

ESS Laboratory Work Order: 21F0358

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DF11029 - 5035

1,1,2-Trichloroethane	0.0494	0.0050	mg/kg wet	0.05000		99	70-130	4	20	
1,1-Dichloroethane	0.0501	0.0050	mg/kg wet	0.05000		100	70-130	0.2	20	
1,1-Dichloroethene	0.0557	0.0050	mg/kg wet	0.05000		111	70-130	1	20	
1,1-Dichloropropene	0.0526	0.0050	mg/kg wet	0.05000		105	70-130	3	20	
1,2,3-Trichlorobenzene	0.0568	0.0050	mg/kg wet	0.05000		114	70-130	2	20	
1,2,3-Trichloropropane	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	1	20	
1,2,4-Trichlorobenzene	0.0563	0.0050	mg/kg wet	0.05000		113	70-130	0.8	20	
1,2,4-Trimethylbenzene	0.0529	0.0050	mg/kg wet	0.05000		106	70-130	2	20	
1,2-Dibromo-3-Chloropropane	0.0506	0.0050	mg/kg wet	0.05000		101	70-130	3	20	
1,2-Dibromoethane	0.0540	0.0050	mg/kg wet	0.05000		108	70-130	0.6	20	
1,2-Dichlorobenzene	0.0523	0.0050	mg/kg wet	0.05000		105	70-130	0.5	20	
1,2-Dichloroethane	0.0501	0.0050	mg/kg wet	0.05000		100	70-130	1	20	
1,2-Dichloropropane	0.0477	0.0050	mg/kg wet	0.05000		95	70-130	2	20	
1,3,5-Trimethylbenzene	0.0535	0.0050	mg/kg wet	0.05000		107	70-130	3	20	
1,3-Dichlorobenzene	0.0517	0.0050	mg/kg wet	0.05000		103	70-130	0.2	20	
1,3-Dichloropropane	0.0533	0.0050	mg/kg wet	0.05000		107	70-130	1	20	
1,4-Dichlorobenzene	0.0531	0.0050	mg/kg wet	0.05000		106	70-130	3	20	
1,4-Dioxane	1.06	0.100	mg/kg wet	1.000		106	70-130	3	20	
2,2-Dichloropropane	0.0589	0.0050	mg/kg wet	0.05000		118	70-130	0.5	20	
2-Butanone	0.297	0.0500	mg/kg wet	0.2500		119	70-130	3	20	
2-Chlorotoluene	0.0507	0.0050	mg/kg wet	0.05000		101	70-130	1	20	
2-Hexanone	0.303	0.0500	mg/kg wet	0.2500		121	70-130	0.9	20	
4-Chlorotoluene	0.0512	0.0050	mg/kg wet	0.05000		102	70-130	3	20	
4-Isopropyltoluene	0.0532	0.0050	mg/kg wet	0.05000		106	70-130	3	20	
4-Methyl-2-Pentanone	0.265	0.0500	mg/kg wet	0.2500		106	70-130	5	20	
Acetone	0.424	0.0500	mg/kg wet	0.2500		169	70-130	2	20	B+
Acrolein	0.0480	0.0050	mg/kg wet	0.05000		96	60-140	0.08	25	
Acrylonitrile	0.0534	0.0050	mg/kg wet	0.05000		107	70-130	3	25	
Benzene	0.0504	0.0050	mg/kg wet	0.05000		101	70-130	0.4	20	
Bromobenzene	0.0516	0.0050	mg/kg wet	0.05000		103	70-130	0.2	20	
Bromochloromethane	0.0519	0.0050	mg/kg wet	0.05000		104	70-130	3	20	
Bromodichloromethane	0.0533	0.0050	mg/kg wet	0.05000		107	70-130	2	20	
Bromoform	0.0493	0.0050	mg/kg wet	0.05000		99	70-130	1	20	
Bromomethane	0.0500	0.0100	mg/kg wet	0.05000		100	70-130	0.8	20	
Carbon Disulfide	0.0563	0.0050	mg/kg wet	0.05000		113	70-130	0.9	20	
Carbon Tetrachloride	0.0576	0.0050	mg/kg wet	0.05000		115	70-130	0.1	20	
Chlorobenzene	0.0527	0.0050	mg/kg wet	0.05000		105	70-130	3	20	
Chloroethane	0.0506	0.0100	mg/kg wet	0.05000		101	70-130	7	20	
Chloroform	0.0510	0.0050	mg/kg wet	0.05000		102	70-130	1	20	
Chloromethane	0.0541	0.0100	mg/kg wet	0.05000		108	70-130	0.04	20	
cis-1,2-Dichloroethene	0.0515	0.0050	mg/kg wet	0.05000		103	70-130	1	20	
cis-1,3-Dichloropropene	0.0542	0.0050	mg/kg wet	0.05000		108	70-130	2	20	
Dibromochloromethane	0.0511	0.0050	mg/kg wet	0.05000		102	70-130	0.4	20	
Dibromomethane	0.0517	0.0050	mg/kg wet	0.05000		103	70-130	0.8	20	
Dichlorodifluoromethane	0.0503	0.0100	mg/kg wet	0.05000		101	70-130	1	20	



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
Client Project ID: Road Samples

ESS Laboratory Work Order: 21F0358

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
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5035/8260B Volatile Organic Compounds / Low Level

Batch DF11029 - 5035

Diethyl Ether	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	3	20	
Di-isopropyl ether	0.0488	0.0050	mg/kg wet	0.05000		98	70-130	2	20	
Ethyl tertiary-butyl ether	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	3	20	
Ethylbenzene	0.0533	0.0050	mg/kg wet	0.05000		107	70-130	3	20	
Hexachlorobutadiene	0.0571	0.0050	mg/kg wet	0.05000		114	70-130	0.4	20	
Isopropylbenzene	0.0521	0.0050	mg/kg wet	0.05000		104	70-130	3	20	
Methyl acetate	0.0549	0.0050	mg/kg wet	0.05000		110	70-130	3	25	
Methyl tert-Butyl Ether	0.0526	0.0050	mg/kg wet	0.05000		105	70-130	4	20	
Methylene Chloride	0.0507	0.0250	mg/kg wet	0.05000		101	70-130	0.6	20	
Naphthalene	0.0495	0.0050	mg/kg wet	0.05000		99	70-130	2	20	
n-Butylbenzene	0.0551	0.0050	mg/kg wet	0.05000		110	70-130	2	20	
n-Propylbenzene	0.0524	0.0050	mg/kg wet	0.05000		105	70-130	3	20	
sec-Butylbenzene	0.0517	0.0050	mg/kg wet	0.05000		103	70-130	3	20	
Styrene	0.0539	0.0050	mg/kg wet	0.05000		108	70-130	3	20	
tert-Butylbenzene	0.0539	0.0050	mg/kg wet	0.05000		108	70-130	3	20	
Tertiary-amyl methyl ether	0.0504	0.0050	mg/kg wet	0.05000		101	70-130	4	20	
Tetrachloroethene	0.0598	0.0050	mg/kg wet	0.05000		120	70-130	3	20	
Tetrahydrofuran	0.0523	0.0050	mg/kg wet	0.05000		105	70-130	4	20	
Toluene	0.0514	0.0050	mg/kg wet	0.05000		103	70-130	0.5	20	
trans-1,2-Dichloroethene	0.0522	0.0050	mg/kg wet	0.05000		104	70-130	1	20	
trans-1,3-Dichloropropene	0.0472	0.0050	mg/kg wet	0.05000		94	70-130	3	20	
Trichloroethene	0.0519	0.0050	mg/kg wet	0.05000		104	70-130	2	20	
Trichlorofluoromethane	0.0518	0.0050	mg/kg wet	0.05000		104	70-130	0	20	
Vinyl Acetate	0.0430	0.0050	mg/kg wet	0.05000		86	70-130	2	25	
Vinyl Chloride	0.0573	0.0100	mg/kg wet	0.05000		115	70-130	0.1	20	
Xylene O	0.0568	0.0050	mg/kg wet	0.05000		114	70-130	4	20	
Xylene P,M	0.114	0.0100	mg/kg wet	0.1000		114	70-130	5	20	
Surrogate: 1,2-Dichloroethane-d4	0.0474		mg/kg wet	0.05000		95	70-130			
Surrogate: 4-Bromofluorobenzene	0.0487		mg/kg wet	0.05000		97	70-130			
Surrogate: Dibromofluoromethane	0.0483		mg/kg wet	0.05000		97	70-130			
Surrogate: Toluene-d8	0.0478		mg/kg wet	0.05000		96	70-130			

8100M Total Petroleum Hydrocarbons

Batch DF11014 - 3546

Blank										
Decane (C10)	ND	0.2	mg/kg wet							
Docosane (C22)	ND	0.2	mg/kg wet							
Dodecane (C12)	ND	0.2	mg/kg wet							
Eicosane (C20)	ND	0.2	mg/kg wet							
Hexacosane (C26)	ND	0.2	mg/kg wet							
Hexadecane (C16)	ND	0.2	mg/kg wet							
Nonadecane (C19)	ND	0.2	mg/kg wet							
Nonane (C9)	ND	0.2	mg/kg wet							
Octacosane (C28)	ND	0.2	mg/kg wet							
Octadecane (C18)	ND	0.2	mg/kg wet							



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
 Client Project ID: Road Samples

ESS Laboratory Work Order: 21F0358

Quality Control Data

Analyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8100M Total Petroleum Hydrocarbons										
Batch DF11014 - 3546										
Tetracosane (C24)	ND	0.2	mg/kg wet							
Tetradecane (C14)	ND	0.2	mg/kg wet							
Total Petroleum Hydrocarbons	ND	15.0	mg/kg wet							
Triacontane (C30)	ND	0.2	mg/kg wet							
<i>Surrogate: O-Terphenyl</i>	<i>4.28</i>		mg/kg wet	<i>5.000</i>		<i>86</i>	<i>40-140</i>			
LCS										
Decane (C10)	2.0	0.2	mg/kg wet	2.500		81	40-140			
Docosane (C22)	2.4	0.2	mg/kg wet	2.500		97	40-140			
Dodecane (C12)	2.2	0.2	mg/kg wet	2.500		86	40-140			
Eicosane (C20)	2.4	0.2	mg/kg wet	2.500		96	40-140			
Hexacosane (C26)	2.4	0.2	mg/kg wet	2.500		98	40-140			
Hexadecane (C16)	2.3	0.2	mg/kg wet	2.500		91	40-140			
Nonadecane (C19)	2.4	0.2	mg/kg wet	2.500		98	40-140			
Nonane (C9)	1.8	0.2	mg/kg wet	2.500		70	30-140			
Octacosane (C28)	2.5	0.2	mg/kg wet	2.500		98	40-140			
Octadecane (C18)	2.3	0.2	mg/kg wet	2.500		93	40-140			
Tetracosane (C24)	2.4	0.2	mg/kg wet	2.500		98	40-140			
Tetradecane (C14)	2.2	0.2	mg/kg wet	2.500		88	40-140			
Total Petroleum Hydrocarbons	33.4	15.0	mg/kg wet	35.00		96	40-140			
Triacontane (C30)	2.4	0.2	mg/kg wet	2.500		97	40-140			
<i>Surrogate: O-Terphenyl</i>	<i>4.89</i>		mg/kg wet	<i>5.000</i>		<i>98</i>	<i>40-140</i>			
LCS Dup										
Decane (C10)	2.1	0.2	mg/kg wet	2.500		84	40-140	4	50	
Docosane (C22)	2.5	0.2	mg/kg wet	2.500		100	40-140	3	50	
Dodecane (C12)	2.2	0.2	mg/kg wet	2.500		89	40-140	3	50	
Eicosane (C20)	2.5	0.2	mg/kg wet	2.500		100	40-140	4	50	
Hexacosane (C26)	2.5	0.2	mg/kg wet	2.500		101	40-140	3	50	
Hexadecane (C16)	2.4	0.2	mg/kg wet	2.500		94	40-140	4	50	
Nonadecane (C19)	2.5	0.2	mg/kg wet	2.500		101	40-140	4	50	
Nonane (C9)	1.8	0.2	mg/kg wet	2.500		72	30-140	3	50	
Octacosane (C28)	2.5	0.2	mg/kg wet	2.500		102	40-140	4	50	
Octadecane (C18)	2.4	0.2	mg/kg wet	2.500		97	40-140	4	50	
Tetracosane (C24)	2.5	0.2	mg/kg wet	2.500		101	40-140	3	50	
Tetradecane (C14)	2.3	0.2	mg/kg wet	2.500		91	40-140	3	50	
Total Petroleum Hydrocarbons	34.6	15.0	mg/kg wet	35.00		99	40-140	3	50	
Triacontane (C30)	2.5	0.2	mg/kg wet	2.500		100	40-140	3	50	
<i>Surrogate: O-Terphenyl</i>	<i>5.04</i>		mg/kg wet	<i>5.000</i>		<i>101</i>	<i>40-140</i>			



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
Client Project ID: Road Samples

ESS Laboratory Work Order: 21F0358

Notes and Definitions

- U Analyte included in the analysis, but not detected
- SD Surrogate recovery(ies) diluted below the MRL (SD).
- I Internal Standard(s) outside of criteria (I).
- H Estimated value. Sample hold times were exceeded (H).
- D Diluted.
- CD+ Continuing Calibration %Diff/Drift is above control limit (CD+).
- B+ Blank Spike recovery is above upper control limit (B+).
- ND Analyte NOT DETECTED at or above the MRL (LOQ), LOD for DoD Reports, MDL for J-Flagged Analytes
- dry Sample results reported on a dry weight basis
- RPD Relative Percent Difference
- MDL Method Detection Limit
- MRL Method Reporting Limit
- LOD Limit of Detection
- LOQ Limit of Quantitation
- DL Detection Limit
- I/V Initial Volume
- F/V Final Volume
- § Subcontracted analysis; see attached report
- 1 Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
- 2 Range result excludes concentrations of target analytes eluting in that range.
- 3 Range result excludes the concentration of the C9-C10 aromatic range.
- Avg Results reported as a mathematical average.
- NR No Recovery
- [CALC] Calculated Analyte
- SUB Subcontracted analysis; see attached report
- RL Reporting Limit
- EDL Estimated Detection Limit
- MF Membrane Filtration
- MPN Most Probably Number
- TNTC Too numerous to Count
- CFU Colony Forming Units



CERTIFICATE OF ANALYSIS

Client Name: Bustins Island Village Corporation
Client Project ID: Road Samples

ESS Laboratory Work Order: 21F0358

ESS LABORATORY CERTIFICATIONS AND ACCREDITATIONS

ENVIRONMENTAL

Rhode Island Potable and Non Potable Water: LAI00179

<http://www.health.ri.gov/find/labs/analytical/ESS.pdf>

Connecticut Potable and Non Potable Water, Solid and Hazardous Waste: PH-0750

http://www.ct.gov/dph/lib/dph/environmental_health/environmental_laboratories/pdf/OutofStateCommercialLaboratories.pdf

Maine Potable and Non Potable Water, and Solid and Hazardous Waste: RI00002

<http://www.maine.gov/dhhs/mecdc/environmental-health/dwp/partners/labCert.shtml>

Massachusetts Potable and Non Potable Water: M-RI002

<http://public.dep.state.ma.us/Labcert/Labcert.aspx>

New Hampshire (NELAP accredited) Potable and Non Potable Water, Solid and Hazardous Waste: 2424

<http://des.nh.gov/organization/divisions/water/dwgb/nhelap/index.htm>

New York (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: 11313

<http://www.wadsworth.org/labcert/elap/comm.html>

New Jersey (NELAP accredited) Non Potable Water, Solid and Hazardous Waste: RI006

http://datamine2.state.nj.us/DEP_OPRA/OpraMain/pi_main?mode=pi_by_site&sort_order=PI_NAMEA&Select+a+Site:=58715

United States Department of Agriculture Soil Permit: P330-12-00139

Pennsylvania: 68-01752

<http://www.dep.pa.gov/Business/OtherPrograms/Labs/Pages/Laboratory-Accreditation-Program.aspx>

ESS Laboratory Sample and Cooler Receipt Checklist

Client: 001 Admin - ESS

ESS Project ID: 21F0358

Shipped/Delivered Via: ESS Courier

Date Received: 5/27/2021

Project Due Date: 6/17/2021

Days for Project: 5 Day

- 1. Air bill manifest present? No
Air No.: NA
- 2. Were custody seals present? No
- 3. Is radiation count <100 CPM? Yes
- 4. Is a Cooler Present? Yes
Temp: 5.9 Iced with: Ice
- 5. Was COC signed and dated by client? Yes

- 6. Does COC match bottles? Yes
- 7. Is COC complete and correct? Yes
- 8. Were samples received intact? Yes
- 9. Were labs informed about short holds & rushes? Yes / No NA
- 10. Were any analyses received outside of hold time? Yes No

- 11. Any Subcontracting needed? Yes No
- ESS Sample IDs: _____
- Analysis: _____
- TAT: _____

- 12. Were VOAs received? Yes / No
- a. Air bubbles in aqueous VOAs? Yes / No
- b. Does methanol cover soil completely? Yes / No / NA

- 13. Are the samples properly preserved? Yes / No
- a. If metals preserved upon receipt: Date: _____ Time: _____ By: _____
- b. Low Level VOA vials frozen: Date: _____ Time: _____ By: _____

Sample Receiving Notes:

- 14. Was there a need to contact Project Manager? Yes / No No
- a. Was there a need to contact the client? Yes / No No
- Who was contacted? _____ Date: _____ Time: _____ By: _____

Sample Number	Container ID	Proper Container	Air Bubbles Present	Sufficient Volume	Container Type	Preservative	Record pH (Cyanide and 608 Pesticides)
1	175497	Yes	N/A	Yes	VOA Vial	DI Water	
1	175498	Yes	N/A	Yes	VOA Vial	DI Water	TO 6/10
1	175503	Yes	N/A	Yes	VOA Vial	MeOH	
1	175506	Yes	N/A	Yes	8 oz jar	NP	
2	175499	Yes	N/A	Yes	VOA Vial	DI Water	
2	175500	Yes	N/A	Yes	VOA Vial	DI Water	
2	175504	Yes	N/A	Yes	VOA Vial	MeOH	
2	175507	Yes	N/A	Yes	8 oz jar	NP	
3	175501	Yes	N/A	Yes	VOA Vial	DI Water	
3	175502	Yes	N/A	Yes	VOA Vial	DI Water	TO 6/10 ID
3	175505	Yes	N/A	Yes	VOA Vial	MeOH	
3	175508	Yes	N/A	Yes	8 oz jar	NP	

2nd Review

Were all containers scanned into storage/lab?

Are barcode labels on correct containers?

Are all Flashpoint stickers attached/container ID # circled?

Initials TD
Yes / No
Yes / No / NA

ESS Laboratory Sample and Cooler Receipt Checklist

Client: 001 Admin - ESS

ESS Project ID: 21F0358

Date Received: 5/27/2021

Are all Hex Chrome stickers attached?

Yes / No / NA

Are all QC stickers attached?

Yes / No / NA

Are VOA stickers attached if bubbles noted?

Yes / No / NA

Completed

By:

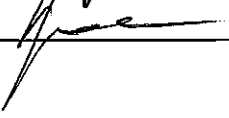


Date & Time:

6/10/21 1:31

Reviewed

By:



Date & Time:

6/10/21 11:52



185 Frances Avenue
Cranston, RI 02921
Phone: 401-461-7181
Fax: 401-461-4486
www.esslaboratory.com

CHAIN OF CUSTODY

ESS Lab # 21F0358

Page of

Turn Time > 5 5 4 3 2 1 Same Day

ELECTRONIC DELIVERABLES (Final Reports are PDF)

Regulatory State:

Criteria:

- Limit Checker State Forms EQaIS
 Excel Hard Copy Enviro Data
 CLP-Like Package Other (Specify) →

Is this project for any of the following?:

- CT RCP MA MCP RGP Permit 401 WQ

CLIENT INFORMATION			PROJECT INFORMATION			REQUESTED ANALYSIS										Total Number of Batches					
Client:	Bustins Island Village Corp.		Project Name:	ROAD SAMPLES		Client acknowledges that sampling is compliant with all EPA / State regulatory programs															
Address:	175 Bluff Rd. Yarmouth, ME 04096		Project Location:	BUSTINS ISLAND			H														
Phone:	207 847-3226		Project Number:				A														
Email Distribution List:			Project Manager:				S														
			Bill to:	bivc.treasurer@gmail.com			A														
			PO#:	none																	
			Quote#:																		
ESS Lab ID	Collection Date	Collection Time	Sample Type	Sample Matrix	Sample ID																
1	5/26/21	11:55	Soil	SOLID	[REDACTED] SAMPLES	/															
			Soil	WATER	" "	/															
2		12:08	Soil	SOLID	STUMP DUMP	/															
			Soil	WATER	" "	/															
			Soil	MCL	" "	/															
3		12:25	Soil	SOLID	[REDACTED] SAMPLE	/															
			Soil	WATER	" "	/															
			Soil	MCL	" "	/															
ML - 6/10/21																					
Container Type: AC-Air Cassette AG-Amber Glass B-BOD Bottle C-Cubitainer J-Jar O-Other P-Poly S-Sterile V-Vial																					
Container Volume: 1-100 mL 2-2.5 gal 3-250 mL 4-300 mL 5-500 mL 6-1L 7-VOA 8-2 oz 9-4 oz 10-8 oz 11-Other*																					
Preservation Code: 1-Non Preserved 2-HCl 3-H2SO4 4-HNO3 5-NaOH 6-Methanol 7-Na2S2O3 8-ZnAcce, NaOH 9-NH4Cl 10-DI H2O 11-Other*																					
Sampled by: Christopher Baldwin										Chain needs to be filled out neatly and completely for on time delivery.											
Comments: * Please specify "Other" preservative and containers types in this space. S.A. Ice Christopher Baldwin is a P.E. CPESC with the Cumberland County Soil/Water Conservation District										All samples submitted are subject to ESS Laboratory's payment terms and conditions.						Dissolved Filtration <input type="checkbox"/> Lab Filter					
Relinquisher (Signature)		Date		Time		Received by (Signature)		Relinquisher (Signature)		Date		Time		Received by (Signature)							
[Signature]		5/27/21		10:30am		[Signature]		[Signature]		5/26/21		12:35		[Signature]							
Relinquisher (Signature)		Date		Time		Received by (Signature)		Relinquisher (Signature)		Date		Time		Received by (Signature)							

