Stericycle
Environmental Solutions

May 13, 2016

Mr. David Slayton
Michigan Department of Environmental Quality
Permits and Corrective Action Unit
Hazardous Waste Section
PO Box 30241
Lansing, MI 48909

Subject: **Corrective Measures Study Investigation Report**
Petro-Chem Processing Group of Nortru, LLC
Detroit, MI MID 980 615 298

Dear Mr. Slayton:

Enclosed is a report outlining the findings of the investigation described in Section 2.0 of the Corrective Measures Study Work Plan. The results of this investigation will be used to evaluate potential remedial alternatives, and to assess the need for pilot studies prior to submitting the CMS Report.

If you have any questions, please contact me at 425-227-6170.

Sincerely,

Andy Maloy
Director, Environmental Liability Management

cc: Ed Burke, Stericycle
Kellie Wing, Bureau Veritas

Corrective Measures Study Investigation Report
Nortru, LLC
Petro-Chem Processing Group Facility
421 Lycaste Street, Detroit, MI

May 13, 2016

CERTIFICATION STATEMENT

I certify under penalty of law that this document and all attachments were prepared under my direction or supervision according to a system designed to assure that qualified personnel properly gather and evaluate the information submitted. Based on my inquiry of the person or persons who manage the system, or those persons directly responsible for gathering the information, the information submitted is, to the best of my knowledge and belief, true, accurate and complete. I am aware that there are significant penalties for submitting false information, including the possibility of fine and imprisonment for knowing violations.

John A. Maloy
Director, EH&S Risk Management

Corrective Measures Study Investigation Report

Stericycle Environmental Solutions, Inc.
Petro-Chem Processing Group Facility
421 Lycaste Street
Detroit, Michigan

May 13, 2016
11016-000075.00

Prepared for
Stericycle Environmental Solutions, Inc.
Detroit, Michigan

BUREAU VERITAS

For the benefit of business and people

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CONTENTS

1.0 INTRODUCTION

Stericycle Environmental Solutions, Inc. (Stericycle) retained Bureau Veritas North America, Inc. (Bureau Veritas) to prepare this Corrective Measures Study (CMS) Investigation Report for the evaluation of soil and groundwater at the Philip Environmental Services Division (PESD), Petro-Chem Processing Group Facility (facility) located at 421 Lycaste Street in Detroit, Michigan (Figure 1). The CMS investigation was conducted as outlined in Section 2.0 of the CMS Work Plan, dated December 12, 2015. The purpose of this investigation was to further evaluate the horizontal extent of soil and groundwater impact on the Site and western adjacent property, as well as, to evaluate the potential presence of non-aqueous phase liquids (NAPLs). Data collected in this investigation will be used to evaluate potential remedial alternatives in the CMS report.

The Site is located at 421 Lycaste Street, Wayne County, Detroit, Michigan, at the northwestern corner of Lycaste Street and Freud Street. An Amoco refinery once operated on parts of the Site. PSC currently operates a fuel blending and solvent recycling plant. Spent solvents, rags, fuel sludges, and tank bottoms are processed and are either cleaned and recycled, or sold as fuel to cement kilns. Materials that cannot be recycled are sent offsite for incineration.

Background

The facility prepared a Corrective Action Investigation Work Plan (CAIWP) as part of RCRA Corrective Action proceedings and submitted it to the MDEQ in February 2013. MDEQ approved the final CAIWP in May 2013. From August 2013 to September 2014, the work described in the approved CAIWP, including the drilling of 28 soil borings, was conducted at both onsite and offsite locations. The primary objective of the CAIWP was to evaluate potential sources of contamination and, if found, to delineate soil and groundwater contamination with respect to MDEQ Generic Nonresidential Cleanup Criteria.

The CAIWP specified that soil and groundwater samples were to be collected and analyzed in locations approved by the MDEQ to address the nature and extent of contamination. Semi-annual groundwater sampling events were completed, as specified in the Facility Operating License, and incorporated into the data set utilized to evaluate the nature and extent of contamination addressed in the CAI. The CAI Report, dated February 12, 2015, included a summary of the investigation that was conducted in accordance with the approved CAIWP and Sampling Plan Addendum.

Upon review of the CAI report by MDEQ, it was determined that a CMS was required to address WMU-15, AOC1/AOC2, and AOC3, along with WMU-17 and WMU-18. As part of the CMS, MDEQ required that additional borings be conducted on the western adjacent property to address contaminants potentially migrating offsite. Additionally, the potential for NAPLs was required to be investigated. A CMS Work Plan was prepared and submitted to the MDEQ on December 23, 2015. MDEQ approved the work plan on January 25, 2016.

2.0 FIELD ACTIVITIES

Prior to conducting field activities, MISS DIG was contacted greater than 72 hours prior to the start of fieldwork to locate and mark subsurface utility lines in the area.

On March 15, 2016, Bureau Veritas:

- Drilled a total of 10 soil borings (BSB-39 through BSB-48) to depths of 10 to 20 feet below ground surface (bgs).
- Installed two additional permanent monitoring wells (MW-11 and MW-12)
- Collected soil samples continuously from each soil boring and screened each sample with a photoionization detector (PID), calibrated prior to field activities, for the possible presence of volatile organic compounds (VOCs).
- Completed boring logs, which include relevant information necessary to the assessment of subsurface geology.
- Collected two soil samples from each of the soil borings, including the soil sample exhibiting the highest PID reading above the water table.
- Collected a groundwater sample from each of the borings and newly installed permanent monitoring wells.
- Analyzed soil and groundwater samples from each soil boring/monitoring well for VOCs.

2.1 SOIL SAMPLING

Bureau Veritas collected soil samples continuously from the 10 soil borings (see Figure 3). Soil boring logs are included as Appendix A. A summary of the soil borings is presented in Table 1.

Table 1
Summary of Sampling
Sampling Dates: March 15 and 18, 2016

Sample	Sample Location	Boring Depth (feet)	Groundwater Encountered	No. of Samples Selected for Analysis		Soil Sample Depth (feet)	Laboratory Analysis
				Soil	Water		
BSB-39/ MW-12	At the northwest corner of the facility, near BSB-24	10	Yes	2	1	1-3 3-5 (Dup-01)	VOCs
BSB-40	In the northwest portion of the facility, southeast of BSB-24	10	Yes	2	1	3-5 8-10	VOCs
BSB-41	In the northwest portion of the facility, south of BSB-24	10	Yes	2	1	1.5-3.5 3.5-5.5	VOCs
BSB-42	In the northern portion of the berm, along the west side of the facility, north of BSB-12	15	Yes	2	1	5-7 8-10	VOCs
BSB-43/ MW-11	In the northern portion of the berm, along the west side of the property, near BSB-12	20	Yes	2	1	10-12 16-18	VOCs
BSB-44	In the southern portion of the berm, along the west side of the property, south of BSB-12	10	Yes	2	1	2-4 4-6	VOCs
BSB-45	In the southern portion of the berm, along the west side of the property, south of BSB-12	15	Yes	2	1	9-11 13-15	VOCs
BSB-46	East of the berm, along the west side of the property, east of BSB-12	15	Yes	2	1	6-8 9-11	VOCs
BSB-47	West of Old St. Jean Avenue, and southwest of BSB-12	10	Yes	2	1	3-5 5-7	VOCs
BSB-48	West of Old St. Jean Avenue, and west-northwest of BSB-12	10	Yes	2	1	3-5 5-7	VOCs

The soil borings were drilled using a Geoprobe® direct push rig. The drilling contractor extracted each soil sample from a 5-foot-long, clear acetate liner installed within a 2-inch-diameter stainless-steel sampler attached to the Geoprobe® rod. The soil borings were hydraulically advanced to a maximum depth of 20 feet. One duplicate soil sample was collected during sampling activities.

At the completion of drilling, the soil borings were backfilled with native material and/or bentonite chips, and the ground surface was restored to its original condition.

Soil Observations: During drilling, Bureau Veritas (1) visually examined soil samples to provide data on subsurface soil type, (2) inspected the soil for visible and olfactory evidence of contamination, and (3) screened soil samples using a photoionization detector (PID) for the

possible presence of VOCs. Additionally, Oil-in-Soil™ soil test kits were utilized at select boring locations to test for the presence of NAPL.

During drilling, Bureau Veritas observed the following:

- A silty sand fill, with silty clay layers, was encountered below the ground surface to depths ranging from 8 to 13 feet. The fill material included pieces of brick, concrete, coal, metal, glass, plastic, and slag.

- In general, a peat layer was noted beneath the silty sand fill. In Soil Borings BSB-42 and BSB-43, a 1.5 to 2 foot silty sand layer was noted between peat layers. Peat was not identified in the offsite Soil Boring BSB-47, while a 1-inch peat lense was noted in offsite Soil Boring BSB-48 at a depth of 6.5 feet.

- In the soil boring drilled to a depth of 20 feet (Soil Boring BSB-43), a brown and gray, silty clay was encountered below the peat to the final depth of the boring.

- Evidence of soil contamination (i.e., stained soil, elevated PID readings, and/or odors) was identified in the following soil borings:

    - BSB-41: PID reading of 0.2 to 0.9 parts per million (ppm) from 5 to 10 feet bgs

    - BSB-42: PID readings ranging 1.9 to 9.7 ppm in the unsaturated zone; PID readings of 365 to 2,915 ppm were noted in the saturated peat and silty sand at depths of 9.5 to 15 feet bgs; a slight solvent or hydrocarbon odor was encountered at 5.5 feet bgs with increasing odor strength in saturated soils

    - BSB-43: PID readings ranging 0.4 to 15.6 ppm in the unsaturated zone; PID readings of 145.2 to 5,992 ppm were noted in the saturated peat and silty sand at depths of 11 to 16 feet bgs; PID readings of 103 to 433 in the silty clay below the saturated soils; strong solvent or hydrocarbon odor was encountered from 10.5 feet bgs to the final depth of the boring, 20 feet bgs

    - BSB-44: PID readings ranging 0.5 to 15 ppm in the unsaturated zone; PID readings of 124 to 1,848 ppm were noted in the saturated peat and silty sand at depths of 6 to 10 feet bgs; a solvent or hydrocarbon odor was encountered at 7 to 10 feet bgs

    - BSB-45: PID readings ranging 0.2 to 5.9 ppm in the unsaturated zone; PID readings of 13.8 to 4,440 ppm were noted in the saturated peat and silty sand at depths of 11 to 15 feet bgs; a solvent or hydrocarbon odor was encountered at 11 to 15 feet bgs

    - BSB-46: PID readings ranging 0.2 to 1 ppm in the unsaturated zone; PID readings of 0.4 to 1.3 ppm were noted in the saturated peat and silty sand at depths of 11.5 to 15 feet bgs; blue stained soil was encountered at 7 feet bgs

    - BSB-47: PID readings ranging 0.1 to 1 ppm in the unsaturated zone

- BSB-48: PID readings ranging 00.5 to 19.8 ppm in the unsaturated zone; PID readings of 0.4 to 7 ppm were noted in the saturated peat and silty clay at depths of 6.5 to 10 feet bgs

Soil boring logs and the results of soil screening are presented in Appendix A.

2.2 GROUNDWATER SAMPLING – TEMPORARY WELLS

To evaluate groundwater quality, Bureau Veritas installed temporary monitoring wells in all of the soil borings, with the exception of Soil Borings BSB-39 and BSB-43, to allow for collection of groundwater samples. The temporary wells were constructed using a threaded 1-inch-diameter polyvinyl chloride (PVC) casing and a 5-foot-long section of PVC well screen. The well screens had a slot thickness of 0.01 inches.

Bureau Veritas purged the temporary monitoring wells by evacuating groundwater from the well using disposable tubing and a peristaltic pump. A duplicate groundwater sample was collected during sampling activities (BSB-47). Also, one equipment blank from the disposable tubing was collected during sampling activities.

After the samples were collected, the PVC temporary wells were removed from the boring, the borings were backfilled with native material and/or bentonite chips, and the ground surface was restored to its original condition.

Based on observations made during drilling and water sampling:

- Groundwater was encountered at depths ranging from 5.5 to 11.5 feet.

- Bureau Veritas did not observe evidence of contamination (i.e., sheen on water or odors) in the groundwater samples, with the exception of Soil Borings BSB-42, BSB-43, and BSB-44.

2.3 MONITORING WELL INSTALLATION

Two permanent monitoring wells were installed in the western portion of the property using a Geoprobe® drill rig. The monitoring wells were installed in the vicinity of Soil Borings BSB-12 (BSB-43) and BSB-24 (BSB-39) to evaluate the presence of NAPL in those locations.

The monitoring wells were constructed using 2-inch diameter polyvinyl chloride (PVC) well screen and casing. A five-foot-long section of No. 10 slot screen was used to construct the wells. The annular void between the well screen and the borehole was filled with coarse-grained, silica sand filter pack (from the bottom of the well to a vertical position of approximately 2 feet above the well screen). A 1-foot-deep granular bentonite seal was then placed immediately above the filter pack. The remaining borehole annulus, from the granular bentonite seal to within 2 feet of surface grade, was filled with a cement/bentonite slurry. At grade the wells were protected by 4 inch diameter stick up well covers set in concrete pads. The monitoring wells were secured with padlocks and expanding seals to prevent unauthorized access.

The newly installed monitoring wells were developed using purge development techniques. Well development occurred until the groundwater was essentially sediment free. Development water was stored onsite in a 55-gallon drum pending proper disposal.

2.4 GROUNDWATER SAMPLING - PERMANENT WELLS

During the monitoring well sampling conducted on March 18, 2016, Bureau Veritas performed the following tasks:

- Measured the total depth of the newly installed monitoring wells.
- Measured the depth to groundwater in the wells after the static water level stabilized to atmospheric equilibrium. Measurements were performed using an electronic interface probe.
- Purged the two new monitoring wells using low-flow purging methods (e.g., using a YSI Pro purge pump). The low-flow purging flow rates were on the order of 0.15 to 0.40 liters per minute (L/min). Field parameters (e.g., temperature, pH, and dissolved oxygen, etc.) stabilized prior to sampling the monitoring wells. See Appendix B for well development and purging data sheets.
- Collected groundwater samples for VOC analysis.
- Decontaminated re-usable equipment (e.g., interface probe) between each monitoring well. Decontamination included: distilled water wash with Liqui-Nox detergent and distilled water rinse.
- Placed purge water in a drum for disposal

2.5 NAPL ASSESSMENT

Visual identification of the presence of NAPL was logged in the field and included noting the presence of the following: stained or otherwise discolored soils; NAPL-saturated soils; the presence of sheens in the saturated zone; and the presence of NAPL, or NAPL staining, on drilling equipment, and high PID readings. Additionally, a NAPL soil test kit (i.e., Oil-in-Soil™) was completed at selected boring locations at 2.5-foot intervals form the ground surface to the final depth of the boring.

The NAPL soil test kits were used to document the absence/presence of NAPL in site soil samples and to allow for one the following classifications:

- No evidence of NAPL – No visual evidence of NAPL and negative NAPL soil test kit.
- Evidence of NAPL – Soils exhibit signs of being stained, drilling and/or sampling equipment stained or sheens noted and positive NAPL soil test kit.
- Zone of potentially mobile NAPL – Soils are either saturated with NAPL or exhibit signs of NAPL ganglia. Soils are discolored and readily stain sampling and drilling equipment. Positive NAPL soil test kit.
- Zone of mobile NAPL – NAPL is present as free phase liquid or soils are visibly saturated with NAPL. NAPL readily flows from the soil with little or no agitation. NAPL soil test is not required

The following procedures were used to identify NAPL in groundwater samples:

- Collect water samples and look for iridescent sheen.
- Look for irregular blobs of free product, if a floating layer of NAPL was intercepted.
- Look for small black particles that sink to the bottom of the water sample, this may indicate the following:
    - Presence of DNAPL
    - Weathered LNAPL

Evidence of contamination (i.e., stained soil, elevated PID readings, sheen, and/or positive soil test kit results) was identified in the following soil borings:

- BSB-39/MW-12: **Potential Evidence of NAPL -** Although there were no elevated PID readings in this boring, a soil test kit indicated a "slightly positive hydrocarbon in soil" in the saturated zone from 5 to 7.5 feet bgs.
- BSB-42: **Potential Evidence of NAPL -** A sheen and PID readings greater than 1,000 ppm were noted in the saturated zone of this boring. Additionally, a soil test kit indicated a "slightly positive hydrocarbon in soil" in the saturated zone from 10 to 12.5 feet bgs.
- BSB-43/MW-11: **Potential Evidence of NAPL -** A sheen and PID readings greater than 1,000 ppm were noted in the saturated zone of this boring. Additionally, a soil test kit indicated a "slightly positive hydrocarbon in soil" in the saturated zone from 12.5 to 15 feet bgs. However, a sheen was not noted on the water sampled from the permanent monitoring well at this location.
- BSB-44: **No Evidence of NAPL** - A PID reading greater than 1,000 ppm was noted in the saturated zone of this boring. However, a soil test kit indicated a negative result for hydrocarbons.
- BSB-45: **No Evidence of NAPL** - PID readings greater than 1,000 ppm were noted in the saturated zone of this boring.

2.6 EQUIPMENT DECONTAMINATION

Decontamination was conducted between each soil boring. Drilling tools and sampling equipment were decontaminated using a high temperature/high pressure wash.

2.7 SAMPLE COLLECTION AND PRESERVATION

Bureau Veritas analyzed two soil samples and one groundwater sample from each of the soil borings, with the exception of Soil Borings BSB-39 and BSB-43 where permanent monitoring wells were installed. In these locations, groundwater samples were collected from the permanent monitoring wells. Bureau Veritas analyzed the soil samples that displayed visible and/or odorous evidence of contamination or represented the most likely zone of contamination, if visible or odorous evidence of contamination was not observed.

The soil and groundwater samples were collected in laboratory-grade containers, and preserved and stored following procedures outlined in United States Environmental Protection Agency (USEPA) Publication SW-846, *Testing Methods for Evaluating Solid Waste*, and with RRD

Operational Memorandum No. 2, Attachments 4 (*Sample Preservation, Sample Handling, and Holding Time Specifications*), and 6 (*Sampling Methods for Volatile Organic Compounds*). The samples were transported, under proper chain-of-custody, in an ice-cooled container to Bureau Veritas' analytical laboratory in Novi, Michigan. The chain-of-custody included the sample number, date and time of collection, depth, number of containers, requested analyses, and sample handling sequence.

Soil samples analyzed for VOCs were collected in a 40-mL preweighed glass vial with 1:1 methanol/soil ratio and a 125-mL glass bottle with a Teflon-lined cap. Groundwater samples were collected in three 40-mL glass vials with a Teflon-lined septum and preserved in the field with hydrochloric acid.

Upon delivery of the samples to the laboratory, the samples were kept cool at 4°C and analyzed within the 14-day holding time.

3.0 LABORATORY ANALYSIS

Bureau Veritas analyzed the soil and groundwater samples in accordance with the protocols in the document *EPA SW-846 – Test Methods for Evaluating Solid Waste* and Table 1 of Operational Memo GEN-8, Revision 8, dated December 22, 2006.

For quality assurance and quality control (QA/QC) purposes, duplicates, trip blanks, field blanks, equipment blanks, laboratory blanks, and extraction blanks were analyzed as part of this investigation. All quality control results associated with the samples were within acceptable limits and/or did not adversely affect the reported results.

Detailed analytical results and QA/QC summaries are presented as Appendix B.

4.0 SUMMARY OF ANALYTICAL RESULTS

Tables 2 and 3 summarize the soil and groundwater analytical results. Detailed analytical results are presented in Appendix B.

Soil. VOCs were detected in the following samples at concentrations exceeding MDEQ nonresidential cleanup criteria and/or screening levels (dated September 28, 2012):

- BSB-39 (3-5 feet): Tetrachloroethene (PCE)
- BSB-42 (5-7 feet): Carbon tetrachloride, PCE, and trichloroethene (TCE)
- BSB-42 (8-10 feet): Benzene, carbon tetrachloride, 1,2-dichlorobenzene, ethylbenzene, isopropylbenzene, methylene chloride, PCE, toluene, 1,1,1-trichloroethane, TCE, 1,2,4-trimethylbenzene (TMB), 1,3,5- TMB, and xylenes
- BSB-43 (10-12 feet): Benzene, 1,2-dichlorobenzene, cis-1,2-dichloroethene, ethylbenzene, isopropylbenzene, methylene chloride, MTBE, n-propylbenzene, PCE, toluene, TCE, 1,2,4- TMB, 1,3,5- TMB, and xylenes
- BSB-43 (16-18 feet): Ethylbenzene, MTBE, tetrahydrofuran (THF), toluene, and xylenes
- BSB-44 (2-4 feet): Benzene, ethylbenzene, methylene chloride, and xylenes

- BSB-44 (4-6 feet): Benzene, ethylbenzene, naphthalene, 1,2,4- TMB, and xylenes
- BSB-45 (9-11 feet): PCE and TCE
- BSB-45 (13-15 feet): Benzene, 1,2-dichlorobenzene, ethylbenzene, isopropylbenzene, MTBE, THF, toluene, 1,2,4- TMB, 1,3,5- TMB, and xylenes
- BSB-47 (3-5 feet): PCE
- BSB-48 (3-5 feet): Cis-1,2-dichloroethene, PCE, TCE, and vinyl chloride
- BSB-48 (5-7 feet): Cis-1,2-dichloroethene, PCE, TCE, and vinyl chloride

Bureau Veritas did not detect VOCs at concentrations above the laboratory reporting limits and/or MDEQ nonresidential cleanup criteria in the soil samples collected and analyzed from Soil Borings BSB-39 (1-3 feet), BSB-40 (3-5 and 8-10 feet), BSB-41 (1.5-3.5 and 3.5-5.5 feet), BSB-46 (6-8 and 9-11 feet), and BSB-47 (5-7 feet).

Groundwater. VOCs were detected in the following temporary monitoring wells at concentrations exceeding the MDEQ nonresidential cleanup criteria and/or screening levels (dated September 28, 2012):

- BSB-42: Acetone, 2-butanone, 1,1-dichloroethane, cis-1,2-dichloroethene, ethylbenzene, 4-methyl-2-pentanone, MTBE, THF, toluene, 1,2,4- TMB, and xylenes
- BSB-44: Acetone, 2-butanone, 1,1-dichloroethane, cis-1,2-dichloroethene, ethylbenzene, 4-methyl-2-pentanone, MTBE, THF, toluene, 1,2,4- TMB, and xylenes
- BSB-45: Acetone, 2-butanone, ethylbenzene, 4-methyl-2-pentanone, MTBE, THF, toluene, and xylenes
- BSB-48: Cis-1,2-dichloroethene, PCE, TCE, and vinyl chloride

VOCs were detected in the following permanent monitoring well at concentrations exceeding the MDEQ nonresidential cleanup criteria and/or screening levels (dated September 28, 2012):

- MW-11: Acetone, benzene, 2-butanone, 1,1-dichloroethane, cis-1,2-dichloroethene, ethylbenzene, 4-methyl-2-pentanone, MTBE, THF, toluene, and xylenes

Bureau Veritas did not detect VOCs at concentrations above the laboratory reporting limits and/or MDEQ nonresidential cleanup criteria in the groundwater samples collected and analyzed from Soil Borings BSB-41, BSB-41, BSB-46, BSB-47, and Monitoring Well MW-12.

5.0 CONCLUSIONS

Bureau Veritas has completed the scope of work outlined in Section 2.0 of the CMS Work Plan dated December 23, 2015, for the Philip Environmental Services Division, Petro-Chem Processing Group facility located at 421 Lycaste Street in Detroit, Michigan. The purpose of this investigation was to further evaluate the horizontal extent of soil and groundwater impact at the

facility and western adjacent property, as well as, to evaluate for the potential presence of NAPLs. The data will be used to evaluate potential remedial options in the CMS report.

VOCs were detected in soil at concentrations exceeding the MDEQ nonresidential cleanup criteria in 7 of the 10 soil borings and in groundwater at 5 of the 10 soil borings/monitoring wells. The highest concentrations of contaminants in soil and groundwater were generally detected in the berm area along the western property boundary.

The following VOCs were detected at concentrations exceeding the MDEQ nonresidential cleanup criteria:

SOIL	GROUNDWATER
• Benzene • Carbon tetrachloride • 1,2-Dichlorobenzene • Cis-1,2-dichloroethene • Ethylbenzene • Isopropylbenzene • Methylene chloride • MTBE • 2-Methylnaphthalene • Naphthalene • n-Propylbenzene • Tetrachloroethene • Tetrahydrofuran • Toluene • 1,1,1-Trichloroethane • Trichloroethene • 1,2,4-Trimethylbenzene • 1,3,5-Trimethylbenzene • Xylenes • Vinyl chloride	• Acetone • Benzene • 2-Butanone • 1,1-Dichloroethane • Cis-1,2-dichloroethene • Ethylbenzene • 4-Methyl-2-pentanone • MTBE • Tetrachloroethene • Tetrahydrofuran • Toluene • 1,2,4-Trimethylbenzene • Xylenes • Vinyl chloride

The highest concentrations of cis-1,2-dichloroethene, PCE, TCE, and vinyl chloride in soil were detected in Soil Boring BSB-48 (3-5 feet), which is located offsite and west of Old St Jean Avenue. In general, the highest concentrations of the remaining contaminants detected in soil were noted in Soil Boring BSB-43, located within the berm.

Potential evidence of NAPL (but not potentially mobile NAPL) was identified in the saturated zones of Soil Borings BSB-39, BSB-42, and BSB-43. This evidence consisted of soil test kits indicating “slightly positive hydrocarbon in soil”, as well as, sheen on the water in the saturated zone.

Corrective Measures Study Investigation Report
for
Stericycle Environmental Solutions, Inc.
Petro-Chem Processing Group Facility
421 Lycaste Street
Detroit, Michigan

Bureau Veritas Project No. 11016-000075.00

This report prepared by: _____

Kellie L. Wing
Project Manager
Health, Safety and Environmental Services
Detroit Regional Office

This report reviewed by: _____

Steve Kulpanowski
Senior Geologist
Health, Safety, and Environmental Services
Detroit Regional Office

May 13, 2015

FIGURES

(SOURCE OF MAP IS USGS 7.5 MINUTE QUADRANGLE MAP, BELLE ISLE(1980), MICHIGAN)

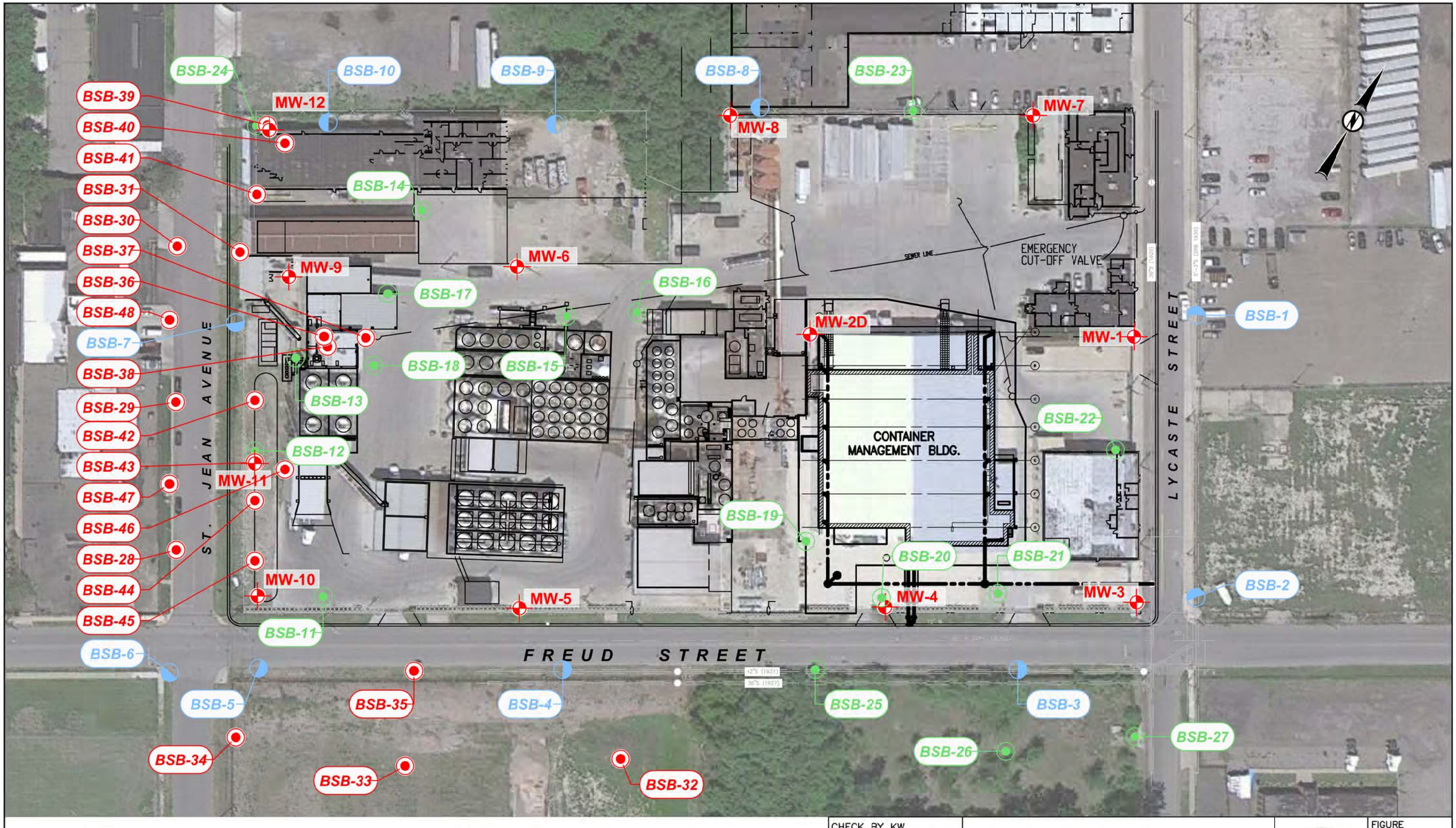
CHECK BY	KLW
DRAWN BY	JL
DATE	January 7, 2014
SCALE	AS SHOWN
CAD NO.	109200.02_A
PRJ NO.	11013-000191.00

SITE LOCATION MAP

PETRO–CHEM PROCESSING GROUP
421 LYCASTE STREET
DETROIT, MICHIGAN

BUREAU VERITAS

FIGURE
1



LEGEND

MW-# MONITORING WELL

BSB-# 2014 SOIL BORING

BSB-# 2013 SOIL BORING

BSB-# 2010 SOIL BORING

SCALE IN FEET

0 40 80 160

CHECK BY	KW
DRAWN BY	JL
DATE	3/28/2016
SCALE	AS SHOWN
CAD NO.	11.16.075.00sb
PRJ NO.	11016-000075.00

SOIL BORING AND MONITORING WELL LOCATIONS

PETRO-CHEM PROCESSING GROUP
421 LYCASTE STREET
DETROIT, MICHIGAN

BUREAU VERITAS 1828

FIGURE 2

TABLES

Table 2
Corrective Measures Study Investigation
Laboratory Analytical Results for Volatile Organic Compounds in Soil

PSC Petro-Chem Processing Group Facility - Detroit, Michigan

Sample Identification	MDEQ TDL 10/2006	**BSB-39**		**BSB-40**		**BSB-41**		**BSB-42**		**BSB-43**		MDEQ Nonresidential Cleanup Criteria**						
(sample interval - feet)		(1-3)	(3-5)	(3-5)	(8-10)	(1.5-3.5)	(3.5-5.5)	(5-7)	(8-10)	(10-12)	(16-18)	Drinking Water Protection	Groundwater Surface Water Interface Protection	Groundwater Contact Protection	Volatilization to Indoor Air	Volatilization to Ambient Air (Infinite Source)	Direct Contact	Soil Saturation Concentration Screening Levels
Collection Date		3/15/2016	3/15/2016	3/15/2016	3/15/2016	3/15/2016	3/15/2016	3/15/2016	3/15/2016	3/15/2016	3/15/2016							
Analysis Date		3/22/2016	3/18/2016	3/18/2016	3/18/2016	3/18/2016	3/21/2016	3/18/2016	3/18/2016 3/21/2016	3/18/2016 3/21/2016	3/18/2016							
Collection Method		Grab																
VOCs																		
Acetone	1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<6,700	<1,000	42,000	34,000	110,000,000 C	110,000,000 C	160,000,000	73,000,000	110,000,000
Benzene	50	<50	<50	<50	<50	<50	<50	<50	**110**	**820**	<50	100	4,000 X	220,000	8,400	45,000	400,000 C	400,000
2-Butanone	250	<250	<250	<250	<250	<250	<250	<250	1,200	<1,300	<250	760,000	44,000	27,000,000 C	27,000,000 C	35,000,000	27,000,000 C, DD	27,000,000
n -Butylbenzene	50	<50	<50	<50	<50	<50	<50	<50	<50	440	<50	4,600	ID	120,000	880,000,000	ID	8,000,000	10,000,000
sec -Butylbenzene	50	<50	<50	<50	<50	<50	<50	<50	<50	410	<50	4,600	ID	88,000	180,000,000	ID	8,000,000	10,000,000
tert -Butylbenzene	50	<50	<50	<50	<50	<50	<50	<50	<50	<330	<50	4,600	ID	180,000	290,000,000	ID	8,000,000	10,000,000
Carbon tetrachloride	50	<50	<50	<50	<50	<50	<50	**120**	**420**	<330	<50	100	900 X	92,000	990	12,000	390,000 C	390,000
Chloroethane	250	<300	<250	<250	<250	<250	<310	<250	<250	<1,300	<250	34,000	22,000 X	950,000 C	950,000 C	36,000,000	950,000 C	950,000
Cyclohexane	250	<250	<250	<250	<250	<250	<250	<250	330	<330	<250	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	50	<50	<50	<50	<50	<50	<50	<50	**1,100**	**6,800**	<50	14,000	280	210,000 C	210,000 C	46,000,000	210,000 C	210,000
1,1-Dichloroethane	50	<50	<50	<50	<50	<50	<50	1,000	2,500	900	<50	50,000	15,000	890,000 C	430,000	2,500,000	890,000 C	890,000
1,2-Dichloroethane	50	<50	<50	<50	<50	<50	<50	<50	<50	<330	<50	100	7,200 X	380,000	11,000	21,000	420,000	1,200,000
1,1-Dichloroethene	50	<50	<50	<50	<50	<50	<50	<50	<50	<330	<50	140	2,600	220,000	330	3,700	570,000 C	570,000
cis -1,2-Dichloroethene	50	<50	<50	<50	<50	<50	<50	<50	<78	**5,000**	<110	1,400	12,000	640,000 C	41,000	210,000	640,000 C	640,000
trans -1,2-Dichloroethene	50	<50	<50	<50	<50	<50	<50	<50	<50	<330	<50	2,000	30,000 X	1,400,000 C	43,000	330,000	1,400,000 C	1,400,000
Ethylbenzene	50	<50	<50	<50	<50	<50	<50	<50	**36,000**	**490,000**	**2,800**	1,500	360	140,000 C	140,000 C	2,400,000	140,000 C	140,000
Isopropylbenzene	50	<50	<50	<50	<50	<50	<50	<50	480	**5,500**	<50	260,000	3,200	390,000 C	390,000 C	2,000,000	390,000 C	390,000
4-Isopropyltoluene	50	<50	<50	<50	<50	<50	<50	<50	<60	<330	<50	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	100	<100	<100	<100	<100	<100	<100	<100	**980**	**530**	<100	100	30,000 X	2,300,000 C	240,000	700,000	2,300,000 C	2,300,000
2-Methylnaphthalene	250	<300	<300	<310	<290	<310	<250	<310	<400	<3,300	<290	170,000	4,200	5,500,000 C	1,800,000	1,800,000	26,000,000	NA
4-Methyl-2-Pentanone	250	<250	<300	<310	<290	<310	<310	<310	2,300	9,400	<290	100,000	ID	2,700,000 C	2,700,000 C	53,000,000	2,700,000 C	2,700,000
Methyl *tert* -butyl ether (MtBE)	50	<50	<50	<50	<50	<50	<50	<50	690	**1,400**	**850**	800	140,000 X	5,900,000 C	5,900,000 C	30,000,000	5,900,000 C	5,900,000
Naphthalene	250	<250	<250	<250	<250	<250	<250	<310	<400	<3,300	<290	100,000	730	2,100,000	350,000	350,000	52,000,000	NA
n -Propylbenzene	50	<50	<50	<50	<50	<50	<50	<50	790	**9,700**	80	4,600	ID	300,000	590,000,000	ID	8,000,000	10,000,000
Tetrachloroethene	50	<50	**120**	<50	<50	<50	<50	**830**	**2,600**	**5,000**	<50	100	1,200 X	88,0000 C	21,000	210,000	88,0000 C	88,000
Tetrahydrofuran	250	<250	<250	<250	<250	<250	<250	<250	1,600	<670	**7,800**	5,400	220,000 X	32,000,000	2,400,000	15,000,000	9,500,000	120,000,000
Toluene	50	<50	<50	<50	<50	<50	<50	<50	**25,000**	**930,000**	**7,000**	16,000	5,400	250,000 C	250,000 C	3,300,000	250,000 C	250,000
1,2,4-Trichlorobenzene	250	<250	<250	<250	<250	<250	<250	<250	<250	<330	<250	4,200	5,900 X	1,100,000 C	1,100,000 C	34,000,000	1,100,000 C,DD	1,100,000
1,1,1-Trichloroethane	50	<50	<50	<50	<50	<50	<50	720	**2,500**	<330	<50	4,000	1,800	460,000 C	460,000	4,500,000	460,000 C	460,000
Trichloroethene	50	<50	<50	<50	<50	<50	<50	**290**	**750**	**740**	<50	100	4,000 X	440,000	1,900	14,000	500,000 C,DD	500,000
1,2,3-Trimethylbenzene	50	<50	<50	<50	<50	<50	<50	<50	340	3,800	<50	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	50	<50	<50	<50	<50	<50	<50	<120	**2,700**	**34,000**	280	2,100	570	110,000 C	110,000 C	25,000,000	110,000 C	110,000
1,3,5-Trimethylbenzene	50	<50	<50	<50	<50	<50	<50	<50	**1,200**	**13,000**	130	1,800	1,100	94,000 C	94,000 C	19,000,000	94,000 C	94,000
Vinyl Chloride	50	<50	<50	<50	<50	<50	<50	<50	<50	<330	<50	40	260 X	20,000	2,800	29,000	34,000	490,000
Xylenes	100	<150	<150	<150	<150	<150	<150	<150	**130,000**	**2,300,000**	**13,000**	5,600	820	150,000 C	150,000 C	54,000,000	150,000 C	150,000
Other VOCs	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Vary	Vary	Vary	Vary	Vary	Vary	Vary
Moisture Content (%)		16	16	20	13	20	19	18	37	25	15							

All soil sample results in micrograms per kilogram (µg/kg) or parts per billion (ppb)
MDEQ = Michigan Department of Environmental Quality
** = Part 201 Generic Cleanup Criteria and Screening Levels, dated September 28, 2012
TDL = Target Detection Limit
VOCs = volatile organic compounds
< = limit of detection for sample
Reporting limits for some analytes may vary depending on the percent moisture content of the sample.
Yellow Shaded/Bold typeface indicates that concentration exceeds MDEQ Generic Nonresidential Cleanup Criteria
Gray Shaded indicates that concentrations exceed this MDEQ Generic Nonresidential Cleanup Criteria

Criteria Footnotes
NA = criterion is not available
ND = non-detect
ID = insufficient data to develop criterion
C = the criterion developed exceeds the chemical-specific soil saturation screening level (Csat)
D = calculated criterion exceeds 100 percent, hence it is reducted to 100 percent or 1.0E+9 parts per billion (ppb)
DD = hazardous substance causes developmental effects
X = the GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source

Table 2 (continued)
Corrective Measures Study Investigation
Laboratory Analytical Results for Volatile Organic Compounds in Soil

PSC Petro-Chem Processing Group Facility - Detroit, Michigan

Sample Identification	MDEQ TDL 10/2006	**BSB-44**		**BSB-45**		**BSB-46**		**BSB-47**		**BSB-48**		**Dup-01**	MDEQ Nonresidential Cleanup Criteria**						
(sample interval - feet)		(2-4)	(4-6)	(9-11)	(13-15)	(6-8)	(9-11)	(3-5)	(5-7)	(3-5)	(5-7)								
Collection Date		3/15/2016	3/15/2016	3/15/2016	3/15/2016	3/15/2016	3/15/2016	3/15/2016	3/15/2016	3/15/2016	3/15/2016	3/15/2016							
Analysis Date		3/18/2016	3/18/2016 3/22/2016	3/18/2016 3/22/2016	3/21/2016 3/22/2016	3/18/2016	3/18/2016	3/18/2016	3/18/2016	3/18/2016	3/18/2016	3/18/2016							
Collection Method		Grab																	
													Drinking Water Protection	Groundwater Surface Water Interface Protection	Groundwater Contact Protection	Volatilization to Indoor Air	Volatilization to Ambient Air (Infinite Source)	Direct Contact	Soil Saturation Concentration Screening Levels
VOCs																			
Acetone	1,000	<1,000	<1,000	<1,000	3,700	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	<1,000	42,000	34,000	110,000,000 C	110,000,000 C	160,000,000	73,000,000	110,000,000
Benzene	50	**170**	**230**	<50	**1,100**	<50	<50	<50	<50	<50	<50	<50	100	4,000 X	220,000	8,400	45,000	400,000 C	400,000
2-Butanone	250	<250	<250	<250	<640	<250	<250	<250	<250	<250	<250	<250	760,000	44,000	27,000,000 C	27,000,000 C	35,000,000	27,000,000 C, DD	27,000,000
n -Butylbenzene	50	<50	<50	<50	<160	<50	<50	<50	<50	<50	<50	<50	4,600	ID	120,000	880,000,000	ID	8,000,000	10,000,000
sec -Butylbenzene	50	<50	<50	<50	<160	<50	<50	<50	<50	<50	<50	<50	4,600	ID	88,000	ID	ID	8,000,000	10,000,000
tert -Butylbenzene	50	<50	<50	<50	<160	<50	<50	<50	<50	<50	<50	<50	4,600	ID	180,000	ID	ID	8,000,000	10,000,000
Carbon tetrachloride	50	<50	<50	<50	<160	<50	<50	<50	<50	<50	<50	<50	100	900 X	92,000	990	12,000	390,000 C	390,000
Chloroethane	250	<250	<250	<250	<1,600	<250	<250	<250	<250	<250	<250	<250	34,000	22,000 X	950,000 C	950,000 C	36,000,000	950,000 C	950,000
Cyclohexane	250	<250	330	<250	330	<250	<250	<250	<250	<250	<250	<250	NA	NA	NA	NA	NA	NA	NA
1,2-Dichlorobenzene	50	<50	<93	<50	**6,600**	<50	<50	<50	<50	<50	<50	<50	14,000	280	210,000 C	210,000 C	46,000,000	210,000 C	210,000
1,1-Dichloroethane	50	180	93	110	<160	<50	<50	<50	<50	<50	<50	<50	50,000	15,000	890,000 C	430,000	2,500,000	890,000 C	890,000
1,2-Dichloroethane	50	<50	<50	<50	<160	<50	<50	<50	<50	<50	<50	<50	100	7,200 X	380,000	11,000	21,000	420,000	1,200,000
1,1-Dichloroethene	50	<50	<50	<50	<160	<50	<50	<50	<50	<50	<50	<50	140	2,600	220,000	330	3,700	570,000 C	570,000
cis -1,2-Dichloroethene	50	90	<50	<50	340	<50	<50	<50	<50	**9,400**	**8,700**	<50	1,400	12,000	640,000 C	41,000	210,000	640,000 C	640,000
trans -1,2-Dichloroethene	50	<50	<50	<50	<160	<50	<50	<50	<50	<82	66	<50	2,000	30,000 X	1,400,000 C	43,000	330,000	1,400,000 C	1,400,000
Ethylbenzene	50	**4,700**	**35,000**	81	**260,000**	<50	<50	<50	<50	<50	<50	<50	1,500	360	140,000 C	140,000 C	2,400,000	140,000 C	140,000
Isopropylbenzene	50	130	530	<50	**3,700**	<50	<50	<50	<50	<50	<50	<50	260,000	3,200	390,000 C	390,000 C	2,000,000	390,000 C	390,000
4-Isopropyltoluene	50	<50	<50	<50	440	<50	<50	<50	<50	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA
Methylene Chloride	100	**200**	<100	<100	<320	<100	<100	<100	<100	<100	<100	<100	100	30,000 X	2,300,000 C	240,000	700,000	2,300,000 C	2,300,000
2-Methylnaphthalene	250	<290	1,300	<330	<320	<320	<310	<300	<320	<290	<300	<290	170,000	4,200	5,500,000	4,900,000	1,800,000	26,000,000	NA
4-Methyl-2-Pentanone	250	<290	<360	<330	2,700	<320	<310	<300	<320	<290	<300	<290	100,000	ID	2,700,000 C	2,700,000 C	53,000,000	2,700,000 C	2,700,000
Methyl *tert* -butyl ether (MtBE)	50	<50	<50	<50	**5,600**	<50	<50	<50	<50	<50	<50	<50	800	140,000 X	5,900,000 C	5,900,000 C	30,000,000	5,900,000 C	5,900,000
Naphthalene	250	<250	**4,800**	<250	<560	<320	<310	<300	<320	<290	<300	<290	100,000	730	2,100,000	350,000	350,000	52,000,000	NA
n -Propylbenzene	50	140	870	<50	4,200	<50	<50	<50	<50	<50	<50	<50	4,600	ID	300,000	ID	ID	8,000,000	10,000,000
Tetrachloroethene	50	<50	<50	**300**	<160	73	<50	**990**	100	**28,000**	**10,000**	**280**	100	1,200 X	88,0000 C	21,000	210,000	88,0000 C	88,000
Tetrahydrofuran	250	<250	<250	<250	**38,000**	<250	<250	<250	<250	<250	<250	<250	5,400	220,000 X	32,000,000	2,400,000	15,000,000	9,500,000	120,000,000
Toluene	50	2,000	2,600	91	**98,000**	<50	<50	<50	<50	<50	<50	<50	16,000	5,400	250,000 C	250,000 C	3,300,000	250,000 C	250,000
1,2,4-Trichlorobenzene	250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	<250	4,200	5,900 X	1,100,000 C	1,100,000 C	34,000,000	1,100,000 C,DD	1,100,000
1,1,1-Trichloroethane	50	110	140	200	<160	<50	<50	<50	<50	<50	<50	<50	4,000	1,800	460,000 C	460,000	4,500,000	460,000 C	460,000
Trichloroethene	50	<50	<50	**120**	<160	<50	<50	<50	<50	**8,500**	**4,600**	<50	100	4,000 X	440,000	1,900	14,000	500,000 C,DD	500,000
1,2,3-Trimethylbenzene	50	<50	<120	<50	2,400	<50	<50	<50	<50	<50	<50	<50	NA	NA	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	50	150	**1,600**	<130	**17,000**	<130	<120	<120	<130	<120	<120	<120	2,100	570	110,000 C	110,000 C	25,000,000	110,000 C	110,000
1,3,5-Trimethylbenzene	50	130	1,100	<50	**6,700**	<50	<50	<50	<50	<50	<50	<50	1,800	1,100	94,000 C	94,000 C	19,000,000	94,000 C	94,000
Vinyl Chloride	50	<50	<50	<50	<160	<50	<50	<50	<50	**210**	**680**	<50	40	260 X	20,000	2,800	29,000	34,000	490,000
Xylenes	100	**4,500**	**78,000**	480	**1,200,000**	<150	<150	<150	<150	<150	<150	<150	5,600	820	150,000 C	150,000 C	54,000,000	150,000 C	150,000
Other VOCs	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Vary	Vary	Vary	Vary	Vary	Vary	Vary
Moisture Content (%)		13	30	24	69	22	18	16	21	15	17	15							

All soil sample results in micrograms per kilogram (µg/kg) or parts per billion (ppb)
MDEQ = Michigan Department of Environmental Quality
** = Part 201 Generic Cleanup Criteria and Screening Levels, dated September 28, 2012
TDL = Target Detection Limit
VOCs = volatile organic compounds
< = limit of detection for sample
Reporting limits for some analytes may vary depending on the percent moisture content of the sample.
Yellow Shaded/Bold typeface indicates that concentration exceeds MDEQ Generic Nonresidential Cleanup Criteria
Gray Shaded indicates that concentrations exceed this MDEQ Generic Nonresidential Cleanup Criteria

Criteria Footnotes
NA = criterion is not available
ND = non-detect
ID = insufficient data to develop criterion
C = the criterion developed exceeds the chemical-specific soil saturation screening level (Csat)
D = calculated criterion exceeds 100 percent, hence it is reducted to 100 percent or 1.0E+9 parts per billion (ppb)
DD = hazardous substance causes developmental effects
X = the GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source

Table 3
Corrective Measures Study Investigation
Laboratory Analytical Results for Volatile Organic Compounds in Groundwater

PSC Petro-Chem Processing Group Facility - Detroit, Michigan

Sample Identification	MDEQ TDL 10/2006	**BSB-40**	**BSB-41**	**BSB-42**	**BSB-44**	**BSB-45**	**BSB-46**	**BSB-47**	**BSB-48**	**Dup-01**	**MW-11**	**MW-12**	**Trip Blank**	**Rinsate Blank**	MDEQ Nonresidential Cleanup Criteria**				
(screen depth - feet)		(8-10)	(8-10)	(10-15)	(8-10)	(10-15)	(10-15)	(8-10)	(8-10)	(8-10)	(10.68-15.68)	(6.35-11.35)							
Collection Date		3/15/2016	3/15/2016	3/15/2016	3/15/2016	3/15/2016	3/15/2016	3/15/2016	3/15/2016	3/15/2016	3/18/2016	3/18/2016	3/15/2016	3/18/2016					
Analysis Date		3/18/2016	3/18/2016	3/18/2016	3/18/2016	3/18/2016	3/18/2016 3/21/2016	3/18/2016	3/17/2016	3/17/2016	3/25/2016	3/25/2016	3/22/2016	3/25/2016	Drinking Water	Groundwater Surface Water Interface	Volatilization to Indoor Air	Groundwater Contact	Flammability and Explosivity Screening Level
Collection Method		Temporary Monitoring Well									Low-Flow								
VOCs																			
Acetone	20	<20	<20	**24,000**	**20,000**	**17,000**	<20	36	57	22	**34,000**	<20	<20	<20	2,100	1,700	1,000,000,000 D,S	31,000,000	15,000,000
Benzene	1.0	<1.0	<1.0	<1,000	<1,000	<1,000	<1.0	<1.0	<1.0	<1.0	**640**	<1.0	<1.0	<1.0	5.0 A	200 X	35,000	11,000	68,000
Bromochloromethane	1.0	<1.0	<1.0	<1,000	<1,000	<1,000	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA
tert-Butyl alcohol	50	<50	<50	<10,000	<10,000	<10,000	<50	<50	<50	<50	<10,000	<50	<50	<50	11,000	NA	1,000,000,000 D,S	79,000,000	61,000,000
2-Butanone	5.0	<5.0	<5.0	**8,100**	**9,100**	**2,600**	<5.0	<5.0	<5.0	<5.0	**17,000**	<5.0	<5.0	<5.0	38,000	2,200	240,000,000 S	240,000,000 S	ID
n-Butylbenzene	1.0	<1.0	<1.0	<1,000	<1,000	<1,000	<1.0	<1.0	<1.0	<1.0	<1,000	<1.0	<1.0	<1.0	230	ID	ID	5,900	ID
sec-Butylbenzene	1.0	<1.0	<1.0	<1,000	<1,000	<1,000	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<1.0	<1.0	230	ID	ID	4,400	ID
Chlorobenzene	1.0	<1.0	<1.0	<1,000	<1,000	<1,000	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<1.0	<1.0	100 A	25	470,000 S	86,000	160,000
Chloroethane	5.0	<5.0	<5.0	<2,000	<2,000	<2,000	<5.0	<5.0	<5.0	<5.0	<1,000	<5.0	<5.0	<5.0	1,700	1,100 X	5,700,000 S	440,000	110,000
Chloroform	1.0	<1.0	<1.0	<1,000	<1,000	<1,000	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<1.0	<1.0	80 A,W	350	180,000	150,000	ID
1,2-Dichlorobenzene	1.0	<1.0	<1.0	<1,000	<1,000	<1,000	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<1.0	<1.0	600 A	13	160,000 S	160,000 S	NA
1,4-Dichlorobenzene	1.0	<1.0	<1.0	<1,000	<1,000	<1,000	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<1.0	<1.0	75 A	17	74,000 S	6,400	NA
1,1-Dichloroethane	1.0	<1.0	<1.0	**1,100**	**1,100**	<1,000	<1.0	<1.0	<1.0	<1.0	**1,300**	<1.0	<1.0	<1.0	2,500	740	2,300,000	2,400,000	380,000
1,2-Dichloroethane	1.0	<1.0	<1.0	<1,000	<1,000	<1,000	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<1.0	<1.0	5.0 A	360 X	59,000	19,000	2,500,000
1,1-Dichloroethene	1.0	<1.0	<1.0	<1,000	<1,000	<1,000	<1.0	<1.0	3.5	<1.0	<500	<1.0	<1.0	<1.0	7.0 A	130	1,300	11,000	97,000
cis-1,2-Dichloroethene	1.0	<1.0	<1.0	**2,600**	**11,000**	<1,000	<1.0	<1.0	**2,400**	<1.0	**8,700**	<1.0	<1.0	<1.0	70 A	620	210,000	200,000	530,000
trans-1,2-Dichloroethene	1.0	<1.0	<1.0	<500	<500	<500	<1.0	<1.0	13	<1.0	<500	<1.0	<1.0	<1.0	100 A	1,500 X	200,000	220,000	230,000
Diethyl ether	5.0	<5.0	<5.0	<1,000	<1,000	<1,000	<5.0	<5.0	<5.0	<5.0	<500	<5.0	<5.0	<5.0	10 E	ID	61,000,000 S	35,000,000	650,000
Diisopropyl ether	5.0	<5.0	<5.0	<1,000	<1,000	<1,000	<5.0	<5.0	<5.0	<5.0	<500	<5.0	<5.0	<5.0	86	ID	8,000 S	8,000 S	8,000 S
Ethylbenzene	1.0	<1.0	<1.0	**18,000**	**19,000**	**13,000**	<1.0	<1.0	6.8	<1.0	**15,000**	<1.0	<1.0	<1.0	74 E	18	170,000 S	170,000 S	43,000
2-Hexanone	5.0	<5.0	<5.0	<1,000	<1,000	<1,000	<5.0	<5.0	<5.0	<5.0	<1,000	<5.0	<5.0	<5.0	2,900	ID	8,700,000	5,200,000	NA
Isopropylbenzene	1.0	<1.0 L+	<1.0 L+	<500	<500	<500	<1.0 L+	<1.0 L+	<1.0	<1.0	<500	<1.0	<1.0	<1.0	2,300	28	56,000 S	56,000 S	29,000
4-Isopropyltoluene	1.0	<1.0	<1.0	<500	<500	<500	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA
2-Methylnaphthalene	5.0	<5.0	<5.0	<1,000	<1,000	<1,000	<5.0	<5.0	<5.0	<5.0	<2,000	<5.0	<5.0	<5.0	750	19	25,000 S	25,000 S	ID
4-Methyl-2-Pentanone	5.0	<5.0	<5.0	**95,000**	**54,000**	**13,000**	<5.0	<5.0	<5.0	<5.0	**89,000**	<5.0	<5.0	<5.0	5,200	ID	20,000,000 S	13,000,000	ID
Methyl *tert*-butyl ether (MtBE)	1.0	<1.0	7.7	**20,000**	**10,000**	**2,900**	13	<1.0	<1.0	<1.0	**20,000**	<1.0	<1.0	<1.0	40 E	7,100 X	47,000,000 S	610,000	ID
Naphthalene	5.0	<5.0	<5.0	<1,000	<1,000	<1,000	<5.0	<5.0	<5.0	<5.0	<1,000	<5.0	<5.0	<5.0	1,500	11	31,000 S	31,000 S	NA
n-Propylbenzene	1.0	<1.0	<1.0	<500	<500	<500	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<1.0	<1.0	230	ID	ID	15,000	ID
Styrene	1.0	<1.0	<1.0	<1,000	<1,000	<1,000	<1.0	<1.0	<1.0	<1.0	<1,000	<1.0	<1.0	<1.0	100 A	80 X	310,000 S	9,700	140,000
tert-Amylmethyl ether	5.0	<5.0	<5.0	<1,000	<1,000	<1,000	<5.0	<5.0	<5.0	<5.0	<1,000	<5.0	<5.0	<5.0	190 E	NA	570,000	2,000,000 S	NA
Tetrachloroethene	1.0	<1.0	<1.0	<500	<500	<500	<1.0	<1.0	**18**	<1.0	<500	<1.0	<1.0	<1.0	5.0 A	60 X	170,000	12,000	ID
Tetrahydrofuran	5.0	<5.0	<5.0	**35,000**	**22,000**	**12,000**	<5.0	<5.0	<5.0	<5.0	**38,000**	<5.0	<5.0	<5.0	270	11,000 X	16,000,000	1,600,000	60,000
Toluene	1.0	<1.0	<1.0	**94,000**	**130,000**	**84,000**	<1.0	1.0	13	<1.0	**110,000**	<1.0	<1.0	<1.0	790 E	270	530,000 S	530,000 S	61,000
1,1,1-Trichloroethane	1.0	<1.0	<1.0	<500	<500	<500	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<1.0	<1.0	200 A	89	1,300,000 S	1,300,000 S	ID
Trichloroethene	1.0	<1.0	<1.0	<500	<500	<500	<1.0	<1.0	**8.3**	<1.0	<500	<1.0	<1.0	<1.0	5.0 A	200 X	4,900	22,000	ID
1,2,3-Trimethylbenzene	1.0	<1.0	<1.0	<1,000	<1,000	<1,000	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<1.0	<1.0	NA	NA	NA	NA	NA
1,2,4-Trimethylbenzene	1.0	<1.0	<1.0	**880**	**990**	<500	<1.0	<1.0	<1.0	<1.0	<1,000	<1.0	<1.0	<1.0	63 E	17	56,000 S	56,000 S	56,000 S
1,3,5-Trimethylbenzene	1.0	<1.0	<1.0	<1,000	<1,000	<1,000	<1.0	<1.0	<1.0	<1.0	<500	<1.0	<1.0	<1.0	72 E	45	61,000 S	61,000 S	ID
Vinyl Chloride	1.0	<1.0	<1.0	<500	<500	<500	<1.0	<1.0	**490**	<1.0	<500	<1.0	<1.0	<1.0	2.0 A	13 X	13,000	1,000	33,000
Xylenes	3.0	<3.0	<3.0	**82,000**	**85,000**	**55,000**	<3.0	3.2	32	<3.0	**68,000**	<3.0	<3.0	<3.0	280 E	41	190,000 S	190,000 S	70,000
Other VOCs	NA	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	ND	Vary	Vary	Vary	Vary	Vary

All groundwater sample results in micrograms per Liter (µg/L) or parts per billion (ppb)
MDEQ = Michigan Department of Environmental Quality
** = Part 201 Generic Cleanup Criteria and Screening Levels, dated September 28, 2012
TDL = Target Detection Limit
VOCs = volatile organic compounds
ND = not detected
L+ = Recovery in the associated laboratory sample (LCS) exceeds the upper control limit. Results may be biased high.
< = limit of detection for sample
Yellow Shaded/Bold typeface indicates that concentration exceeds MDEQ Generic Nonresidential Cleanup Criteria
Gray Shaded indicates that concentrations exceed this MDEQ Generic Nonresidential Cleanup Criteria

Criteria Footnotes
ID = insufficient data to develop criterion
A = Criterion is the state of Michigan drinking water standard established pursuant to Sceoin 5 of 1976 PA 399, MCL 325.1005
D = Calculated criterion exceeds 100 percent, hence it is reduced to 100 percent of 1.0E+9 parts per billion (ppb)
E = Criterion is the aesthetic drinking water value, as required by Section 20120a(5) of NREPA, 1994 PA 451, as amended
S = Criterion defaults to the hazardous substance-specific water solubility limit
W = Concentrations of trihalomethanes in groundwaer shall be added together to determine compliance with the Michigan drinking water standard of 80 µg/L.
X = The GSI criterion shown in the generic cleanup criteria tables is not protective for surface water that is used as a drinking water source
NA = not available

APPENDIX A

SOIL BORING LOGS

Bureau Veritas
22345 Roethel Dr
Novi, MI 48375
Telephone: (248) 344-1770

BORING NUMBER BSB-39/MW-12

CLIENT Stericycle Environmental Solutions, Inc.
PROJECT NAME CMS Investigation
PROJECT NUMBER 11016-000075.00
PROJECT LOCATION 421 Lycaste, Detroit, MI
DATE STARTED 3/15/16 **COMPLETED** 3/15/16
GROUND ELEVATION _____ **HOLE SIZE** 2 inches
DRILLING CONTRACTOR Fibertec Environmental
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
▽ **AT TIME OF DRILLING** 6.00 ft
LOGGED BY K. Wing **CHECKED BY** K. Wing
AT END OF DRILLING ---
NOTES Duplicate Soil Sample (Dup-01)
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (ft)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0			PID = 0		CONCRETE	
					0.5 SILTY SAND, black and brown, damp, with pebbles, glass, and brick fragments	
	1'-3'	2.25	PID = 0		Brown	
			PID = 0			
	3'-5'		PID = 0		4.0 SITLY CLAY, brown, damp	
5			PID = 0		5.0 GRAVEL WITH SAND, dark brown, moist to wet, with plastic fragments	
		2.75	PID = 0			
			PID = 0		8.0 PEAT, black, moist	
			PID = 0		9.0 SILTY SAND, gray, moist	
10			PID = 0		10.0	

Bottom of borehole at 10.0 feet.

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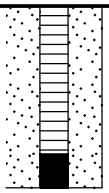
BORING NUMBER BSB-39/MW-12

CLIENT Stericycle Environmental Solutions, Inc.
PROJECT NAME CMS Investigation
PROJECT NUMBER 11016-000075.00
PROJECT LOCATION 421 Lycaste, Detroit, MI

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (ft)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM



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BORING NUMBER BSB-40

CLIENT Stericycle Environmental Solutions, Inc.
PROJECT NAME CMS Investigation
PROJECT NUMBER 11016-000075.00
PROJECT LOCATION 421 Lycaste, Detroit, MI
DATE STARTED 3/15/16 **COMPLETED** 3/15/16
GROUND ELEVATION _____ **HOLE SIZE** 2 inches
DRILLING CONTRACTOR Fibertec Environmental
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
▽ **AT TIME OF DRILLING** 8.50 ft
LOGGED BY K. Wing **CHECKED BY** K. Wing
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (ft)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0			PID = 0		CONCRETE	
					0.5 SLITY SAND, brown and dark brown, dry, with pebbles and brick fragments	
			PID = 0			
		2.25	PID = 0			
	3'-3.5'		PID = 0			
5			PID = 0			
			PID = 0			
			PID = 0			
		1	PID = 0			
			PID = 0		8.5 PEAT, black, moist	▽
	8'-10'		PID = 0			
10					10.0	

Bottom of borehole at 10.0 feet.

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BORING NUMBER BSB-41

CLIENT Stericycle Environmental Solutions, Inc.
PROJECT NAME CMS Investigation
PROJECT NUMBER 11016-000075.00
PROJECT LOCATION 421 Lycaste, Detroit, MI
DATE STARTED 3/15/16 **COMPLETED** 3/15/16
GROUND ELEVATION _____ **HOLE SIZE** 2 inches
DRILLING CONTRACTOR Fibertec Environmental
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
▽ **AT TIME OF DRILLING** 5.50 ft
LOGGED BY K. Wing **CHECKED BY** K. Wing
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (ft)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					ASPHALT, black	
			PID = 0		0.5 SILTY SAND, light brown, dry, with pebbles	
			PID = 0		1.5 SILT, brown, moist	
	1.5'-3.5'	3.25	PID = 0		2.5 SILTY CLAY, brown, moist, with brick fragments	
			PID = 0		4.0 SILTY SAND, brown, moist, with pebbles	
	3.5'-5.5'					
5			PID = 0.9		Gray, wet, with pebbles and a slight petroleum-like odor	
			PID = 0.6			
			PID = 0.2			
		2.75				
			PID = 0.3			
			PID = 0.4		9.0 PEAT, black, moist	
10					10.0	

Bottom of borehole at 10.0 feet.

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Telephone: (248) 344-1770

BORING NUMBER BSB-42

CLIENT Stericycle Environmental Solutions, Inc.
PROJECT NAME CMS Investigation
PROJECT NUMBER 11016-000075.00
PROJECT LOCATION 421 Lycaste, Detroit, MI
DATE STARTED 3/15/16 **COMPLETED** 3/15/16
GROUND ELEVATION _____ **HOLE SIZE** 2 inches
DRILLING CONTRACTOR Fibertec Environmental
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
▽ **AT TIME OF DRILLING** 9.50 ft
LOGGED BY K. Wing **CHECKED BY** K. Wing
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (ft)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					BERM	
					0.5 SILTY SAND, dark brown, damp, with pebbles and slag	
			PID = 9.7			
			PID = 9.5			
		3	PID = 8.8			
			PID = 9.7			
					4.5 SILTY CLAY, gray and brown, damp	
5						
			PID = 3.5		5.5 SILTY SAND, brown, damp, with a slight solvent-like odor	
	5'-7'		PID = 3.7			
		3.25	PID = 6.5		With glass fragments	
			PID = 1.9			
			PID = 2.6			
	8'-10'					
			PID = 2915		9.5 PEAT, black, moist, with a solvent-like odor	▽
10						

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BORING NUMBER BSB-42

CLIENT Stericycle Environmental Solutions, Inc. **PROJECT NAME** CMS Investigation

PROJECT NUMBER 11016-000075.00 **PROJECT LOCATION** 421 Lycaste, Detroit, MI

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (ft)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10			PID = 1302		PEAT, black, moist, with a solvent-like odor *(continued)*	
					10.5 SILTY SAND, wet, with pebbles, a sheen, and a solvent-like odor	
			PID = 932		12.0 PEAT, black, moist	
		3.5	PID = 749			
			PID = 365			
15					15.0	

Bottom of borehole at 15.0 feet.

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BORING NUMBER BSB-43/MW-11

CLIENT Stericycle Environmental Solutions, Inc.
PROJECT NAME CMS Investigation
PROJECT NUMBER 11016-000075.00
PROJECT LOCATION 421 Lycaste, Detroit, MI
DATE STARTED 3/15/16 **COMPLETED** 3/15/16
GROUND ELEVATION _____ **HOLE SIZE** 2 inches
DRILLING CONTRACTOR Fibertec Environmental
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
▽ **AT TIME OF DRILLING** 11.00 ft
LOGGED BY K. Wing **CHECKED BY** K. Wing
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (ft)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0			PID = 0		BERM	
					1.0 SILTY SAND, brown, damp, with pebbles and glass fragments	
			PID = 0			
		3	PID = 0		With brick fragments	
			PID = 0			
					With concrete fragments	
			PID = 0			
5					5.5	
			PID = 0		SILTY CLAY, brown, dry	
			PID = 0.4		With brick fragments	
			PID = 6.6		7.0 SILTY SAND, brown, dry	
		4	PID = 20.5			
			PID = 2.2			
			PID = 0.7			
			PID = 0			
10			PID = 0		With slag fragments	

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BORING NUMBER BSB-43/MW-11

CLIENT Stericycle Environmental Solutions, Inc. **PROJECT NAME** CMS Investigation

PROJECT NUMBER 11016-000075.00 **PROJECT LOCATION** 421 Lycaste, Detroit, MI

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (ft)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10			PID = 10.5		With slag fragments *(continued)*	
			PID = 15.6		With a strong solvent-like odor	
	10'-12'		PID = 844.8		11.0 PEAT, black, moist	
			PID = 3155		12.0	
			PID = 5992		SILTY SAND, brown, wet, with pebbles and trace coarse sand	
		2.75	PID = 2504			
			PID = 756		14.0 PEAT, black and dark brown, moist	
15			PID = 145.2			
			PID = 1173		15.5 SILTY SAND, brown and gray, damp, with a sheen	
					16.0	
			PID = 344		SILTY CLAY, brown and gray, dry	
			PID = 103			
	16'-18'		PID = 433			
		3.5				
			PID = 175			
			PID = 155			
20					20.0	

Bottom of borehole at 20.0 feet.

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BORING NUMBER BSB-44

CLIENT Stericycle Environmental Solutions, Inc.
PROJECT NAME CMS Investigation
PROJECT NUMBER 11016-000075.00
PROJECT LOCATION 421 Lycaste, Detroit, MI
DATE STARTED 3/15/16 **COMPLETED** 3/15/16
GROUND ELEVATION _____ **HOLE SIZE** 2 inches
DRILLING CONTRACTOR Fibertec Environmental
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
▽ **AT TIME OF DRILLING** 6.00 ft
LOGGED BY K. Wing **CHECKED BY** K. Wing
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (ft)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0			PID = 2.6		BERM	
			PID = 0.5		SILTY SAND, brown, moist, with pebbles and trace fine grained sand With glass, brick, and plastic fragments	
	2'-4'	2	PID = 1.8			
			PID = 5.3			
5	4'-6'		PID = 12.2		With coal fragments	
			PID = 15		Wet	
			PID = 124		With a solvent-like odor	
		3	PID = 611			
			PID = 1848		8.5 PEAT, brown, moist	
			PID = 299			
10					10.0	

Bottom of borehole at 10.0 feet.

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BORING NUMBER BSB-45

CLIENT Stericycle Environmental Solutions, Inc.
PROJECT NAME CMS Investigation
PROJECT NUMBER 11016-000075.00
PROJECT LOCATION 421 Lycaste, Detroit, MI
DATE STARTED 3/15/16 **COMPLETED** 3/15/16
GROUND ELEVATION _____ **HOLE SIZE** 2 inches
DRILLING CONTRACTOR Fibertec Environmental
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
▽ **AT TIME OF DRILLING** 11.00 ft
LOGGED BY K. Wing **CHECKED BY** K. Wing
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (ft)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					BERM	
			PID = 0		0.5 SILTY SAND, brown, dry, with concrete	
			PID = 1.1			
		3.5	PID = 0.4			
			PID = 0.2			
			PID = 0.4			
5						
			PID = 0.6		6.0 SILTY CLAY, brown, dry	
			PID = 0.3		7.0 SILTY SAND, dark brown, damp, with slag, coal, metal, and glass fragments	
		3.5	PID = 0.2			
			PID = 0			
10			PID = 0			

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BORING NUMBER BSB-45

CLIENT Stericycle Environmental Solutions, Inc. **PROJECT NAME** CMS Investigation

PROJECT NUMBER 11016-000075.00 **PROJECT LOCATION** 421 Lycaste, Detroit, MI

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (ft)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10	9'-11'	3.25	PID = 5.9 PID = 13.8 PID = 4440		With brick, trace coarse sand, and pebbles With a solvent-like odor Brown and gray, wet	
					13.0 PEAT, brown, moist	
15	13'-15'		PID = 1601 PID = 342		15.0	

Bottom of borehole at 15.0 feet.

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BORING NUMBER BSB-46

CLIENT Stericycle Environmental Solutions, Inc.
PROJECT NAME CMS Investigation
PROJECT NUMBER 11016-000075.00
PROJECT LOCATION 421 Lycaste, Detroit, MI
DATE STARTED 3/15/16 **COMPLETED** 3/15/16
GROUND ELEVATION _____ **HOLE SIZE** 2 inches
DRILLING CONTRACTOR Fibertec Environmental
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
▽ **AT TIME OF DRILLING** 11.50 ft
LOGGED BY K. Wing **CHECKED BY** K. Wing
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (ft)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0			PID = 0		SILTY SAND, brown, moist, with brick and glass fragments	
			PID = 0			
		3.5	PID = 0		2.5	
			PID = 0		SILTY CLAY, brown, dry, with brick, slag, and coal fragments	
			PID = 0		4.5	
5			PID = 0		SILTY SAND, brown, damp, with coal and slag fragments	
			PID = 0			
	6'-8'		PID = 0		With blue soil staining	
		2.25	PID = 0			
			PID = 0.2			
10			PID = 1			

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BORING NUMBER BSB-46

CLIENT Stericycle Environmental Solutions, Inc. **PROJECT NAME** CMS Investigation

PROJECT NUMBER 11016-000075.00 **PROJECT LOCATION** 421 Lycaste, Detroit, MI

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (ft)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
10	9'-11'	2.5	PID = 0.2 PID = 0.4 PID = 0.8 PID = 1.3		With blue soil staining *(continued)* Gray, wet, with pebbles 13.0 PEAT, brown, moist 15.0	
15					Bottom of borehole at 15.0 feet.	

Bureau Veritas
22345 Roethel Dr
Novi, MI 48375
Telephone: (248) 344-1770

BORING NUMBER BSB-47

CLIENT Stericycle Environmental Solutions, Inc.
PROJECT NAME CMS Investigation
PROJECT NUMBER 11016-000075.00
PROJECT LOCATION 421 Lycaste, Detroit, MI
DATE STARTED 3/15/16 **COMPLETED** 3/15/16
GROUND ELEVATION _____ **HOLE SIZE** 2 inches
DRILLING CONTRACTOR Fibertec Environmental
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
▽ **AT TIME OF DRILLING** 7.00 ft
LOGGED BY K. Wing **CHECKED BY** K. Wing
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (ft)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0			PID = 0.7		TOPSOIL, dark brown, damp	
					1.0 SILTY SAND, brown, damp, with some clay, brick, slag, and glass fragments	
			PID = 0.7			
		2	PID = 1			
			PID = 0.1			
	3'-5'		PID = 0			
5					5.0 SILTY CLAY, brown, moist	
	5'-7'		PID = 0			
			PID = 0		7.0 GRAVEL AND SAND, gray, wet	▽
		2.5	PID = 0			
			PID = 0		9.0 SILTY CLAY, gray, moist	
10			PID = 0		10.0	

Bottom of borehole at 10.0 feet.

Bureau Veritas
22345 Roethel Dr
Novi, MI 48375
Telephone: (248) 344-1770

BORING NUMBER BSB-48

CLIENT Stericycle Environmental Solutions, Inc.
PROJECT NAME CMS Investigation
PROJECT NUMBER 11016-000075.00
PROJECT LOCATION 421 Lycaste, Detroit, MI
DATE STARTED 3/15/16 **COMPLETED** 3/15/16
GROUND ELEVATION _____ **HOLE SIZE** 2 inches
DRILLING CONTRACTOR Fibertec Environmental
GROUND WATER LEVELS:
DRILLING METHOD Direct Push
▽ **AT TIME OF DRILLING** 7.00 ft
LOGGED BY K. Wing **CHECKED BY** K. Wing
AT END OF DRILLING ---
NOTES
AFTER DRILLING ---

DEPTH (ft)	SAMPLE TYPE NUMBER	RECOVERY (ft)	ENVIRONMENTAL DATA	GRAPHIC LOG	MATERIAL DESCRIPTION	WELL DIAGRAM
0					CONCRETE	
			PID = 0.8		0.5 SILTY SAND, brown, dry	
					1.0 SILTY CLAY, brown and gray, dry, stiff	
			PID = 3			
		3.25	PID = 0.7			
			PID = 2		Becoming moderately soft	
	3'-5'		PID = 0.5			
5						
			PID = 19.8			
	5'-7'		PID = 7		Gray, wet, becoming soft, with a 1 inch peat lense	
		2.5	PID = 1.2			
			PID = 2.3			
			PID = 0.4		9.5 GRAVEL, wet	
10					10.0	

Bottom of borehole at 10.0 feet.

APPENDIX B

LOW-FLOW SAMPLING LOGS

Well Number: 11

Well Development and Purging Data

Project Name: CMS Investigation
Client Company: Stericycle Environmental Solutions
Site Name: Petro-Chem

Project Manager: Kellie Wing
Site Address: 421 Lycaste, Detroit, MI

Project No.: 11016-000075

Development Criteria

- ____ 3 to 5 Casing Volumes of Water Removal
- X Stabilization of Indicator Parameters
- ____ Other____

Methods of Development

Pump	Bailer
____ Centrifugal	____ Bottom Valve
____ Submersible	____ Double Check Valve
X Peristaltic	____ Stainless-stell Kemmerer

Water Volume Calculation (2" = 0.1632; 4" = 0.6528)

Initial Depth of Well (feet): 19.33
Initial Depth to Water (feet): 14.03
Height of Water Column in Well (feet):____
Diameter (inches): Well____ Gravel Pack____

Item	Water Volume in Well		Gallons - Removed
	Cubic Feet	Gallons	
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Instruments

- X Temperature Meter
- X Conductivity Meter (+/- 3%)
- X DO Meter (+/- 0.3 mg/L)
- X pH Meter (+/- 0.1 unit)
- X ORP Meter (+/- 10mV)
- X Turbidity Meter (+/- 10%)

Water Disposal: 55-gallon drum

Water Removal Data

Date	Time	Development Method		Removal Rate	Intake Depth	Ending Water Depth (feet)	Water Volume Removed (gallons)		Product Volume Removed (gallons)		Temp (°C)	Conductivity (mS/cm) (ppm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (<10 NTUs)	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative							
3/18/16	1026	X	--	300		14.21			--	--	10.3	3.293	1.05	6.55	-75.5	6.4	Start Purging
	1028	X	--			14.21			--	--	10.4	3.295	1.07	6.52	-80.3	13.7	
	1030	X	--			14.21			--	--	10.4	3.297	1.11	6.52	-82.0	12.7	
	1032	X	--			14.21			--	--	10.4	3.296	0.81	6.52	-83.6	29.4	
	1034	X	--			14.21			--	--	10.4	3.299	0.73	6.52	-84.8	29.5	
	1042	X	--			14.22			--	--	10.4	3.298	1.46	6.52	-70.1	4.5	
	1044	X	--			14.23			--	--	10.4	3.300	1.27	6.52	-77.9	4.9	
	1046	X	--			14.25			--	--	10.3	3.300	1.19	6.53	-79.0	5.5	
	1048	X	--			14.26			--	--	10.3	3.302	1.12	6.53	-80.0	4.6	
	1050	X	--			14.27			--	--	10.3	3.303	1.08	6.53	-80.7	4.5	
	1052	X	--			14.27			--	--	10.3	3.306	1.01	6.53	-81.7	4.3	
	1054	X	--					7gal	--	--							Sampled
		X	--						--	--							
		X	--						--	--							

Circle the date and time that the development criteria are met

Comments: solvent / hydrocarbon odor

Developer's Signature: Kellie Wing Date: 3/18/16 Reviewer: KW Date: 3/18/16

Well Number: 12

Well Development and Purging Data

Project Name: CMS Investigation
Client Company: Stericycle Environmental Solutions
Site Name: Petro-Chem

Project Manager: Kellie Wing
Site Address: 421 Lycaste, Detroit, MI

Project No.: 11016-000075

Development Criteria

_____ 3 to 5 Casing Volumes of Water Removal
X Stabilization of Indicator Parameters
_____ Other_____

Methods of Development

Pump
_____ Centrifugal
_____ Submersible
X Peristaltic

Bailer
_____ Bottom Valve
_____ Double Check Valve
_____ Stainless-stell Kemmerer

Water Volume Calculation (2" = 0.1632; 4" = 0.6528)

Initial Depth of Well (feet): 14.38
Initial Depth to Water (feet): 8.85
Height of Water Column in Well (feet):_____
Diameter (inches): Well_____ Gravel Pack_____

Item	Water Volume in Well		Gallons - Removed
	Cubic Feet	Gallons	
Well Casing			
Gravel Pack			
Drilling Fluids			
Total			

Instruments

X Temperature Meter
X Conductivity Meter (+/- 3%)
X DO Meter (+/- 0.3 mg/L)
X pH Meter (+/- 0.1 unit)
X ORP Meter (+/- 10mV)
X Turbidity Meter (+/- 10%)

Water Disposal: 55-gallon drum

Water Removal Data

Date	Time	Development Method		Removal Rate	Intake Depth	Ending Water Depth (feet)	Water Volume Removed (gallons)		Product Volume Removed (gallons)		Temp (°C)	Conductivity (mS/cm) (ppm)	Dissolved Oxygen (mg/L)	pH	ORP (mV)	Turbidity (<10 NTUs)	Comments
		Pump	Bailer				Increment	Cumulative	Increment	Cumulative							
3/18/16	917	X	--	320		8.87			--	--	8.5	.568	5.15	7.20	161.9	23.3	Start Purging
	919	X	--			8.38			--	--	8.5	.567	4.91	7.46	163.4	13.3	
	921	X	--			8.88			--	--	8.5	.568	4.95	7.41	162.8	11.6	
	923	X	--			8.88			--	--	8.4	.569	4.87	7.38	164.4	11.3	
	925	X	--			8.88			--	--	8.4	.570	4.85	7.37	160.4	9.5	
	927	X	--			8.88			--	--	8.4	.571	4.85	7.38	159.4	8.4	
	929	X	--			8.88			--	--	8.4	.572	4.86	7.38	158.9	7.6	
	931	X	--			8.88			--	--	8.4	.573	4.85	7.38	158.8	6.5	
	933	X	--			8.88			--	--	8.4	.574	4.93	7.37	159.0	5.9	
	935	X	--			8.88			--	--	8.4	.574	4.80	7.37	159.0	6.5	
	937	X	--			8.88		5gal	--	--	8.4	.575	4.77	7.37	159.1	5.4	
	939	X	--						--	--							Sampled
		X	--						--	--							
		X	--						--	--							

Circle the date and time that the development criteria are met

Comments:_____

Developer's Signature: Kellie Wing Date: 3/18/16 Reviewer: KW Date: 3/18/16

APPENDIX C

LABORATORY ANALTYICAL RESULTS

Fibertec environmental services

Wednesday, March 23, 2016

Fibertec Project Number: 72301
Project Identification: PSC - Detroit /
Submittal Date: 03/16/2016

Ms. Kellie Wing
Bureau Veritas North America, Inc.
22345 Roethel Drive
Novi, MI 48375

Dear Ms. Wing,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 14 days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

By Cheyanne Juntunen at 4:29 PM, Mar 23, 2016

For Daryl P. Strandbergh
Laboratory Director

Enclosures

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-39 (1-3)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**1**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:25**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: 72301-001** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: BSB-39 (1-3)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**16**		%	1	1.0	03/18/16	MC160318	03/21/16	MC160318	BMG

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-001A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-39 (1-3)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U	*	µg/kg	1000	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 2. Acrylonitrile	U		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
3. Benzene	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
4. Bromobenzene	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
5. Bromochloromethane	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
6. Bromodichloromethane	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
7. Bromoform	U		µg/kg	120	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
8. Bromomethane	U		µg/kg	240	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
9. t-Butanol	U		µg/kg	2500	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
10. 2-Butanone	U	*	µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
11. n-Butylbenzene	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
12. sec-Butylbenzene	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
13. tert-Butylbenzene	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
14. Carbon Disulfide	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
15. Carbon Tetrachloride	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
16. Chlorobenzene	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
17. Chloroethane	U		µg/kg	300	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
18. Chloroform	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
19. Chloromethane	U		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 20. Cyclohexane	U		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
21. Dibromochloromethane	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
23. Dibromomethane	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
25. 1,3-Dichlorobenzene	U		µg/kg	59	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
26. 1,4-Dichlorobenzene	U		µg/kg	59	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
28. Dichlorodifluoromethane	U		µg/kg	300	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
29. 1,1-Dichloroethane	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
30. 1,2-Dichloroethane	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-39 (1-3)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**1**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:25**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-001A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-39 (1-3)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
34. 1,2-Dichloropropane	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
37. Diethyl Ether	U		µg/kg	200	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 38. Diisopropyl Ether	U		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 39. ETBE	U		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
40. Ethylbenzene	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
41. Ethylene Dibromide	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 42. Hexachloroethane	U		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
43. 2-Hexanone	U	*	µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
44. Isopropylbenzene	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
45. 4-Isopropyltoluene	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
46. Methylene Chloride	U		µg/kg	100	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 47. 2-Methylnaphthalene	U		µg/kg	300	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
48. 4-Methyl-2-pentanone	U		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
49. MTBE	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
50. Naphthalene	U		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
51. n-Propylbenzene	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
52. Styrene	U		µg/kg	59	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 53. TAME	U		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
54. 1,1,1,2-Tetrachloroethane	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
55. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
56. Tetrachloroethene	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 57. Tetrahydrofuran	U		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
58. Toluene	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
59. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
60. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
61. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
62. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
63. Trichloroethene	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
64. Trichlorofluoromethane	U		µg/kg	120	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
65. 1,2,3-Trichloropropane	U		µg/kg	59	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 66. 1,2,3-Trimethylbenzene	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
67. 1,2,4-Trimethylbenzene	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-39 (1-3)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**1**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:25**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-001A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-39 (1-3)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
68. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
69. Vinyl Chloride	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
70. m&p-Xylene	U		µg/kg	100	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
71. o-Xylene	U		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 72. Xylenes	U		µg/kg	150	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-39 (3-5)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**2**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:23**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: 72301-002** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: BSB-39 (3-5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**16**		%	1	1.0	03/18/16	MC160318	03/21/16	MC160318	BMG

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-002A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-39 (3-5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 2. Acrylonitrile	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
3. Benzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
4. Bromobenzene	U		µg/kg	59	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
5. Bromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
6. Bromodichloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
7. Bromoform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
8. Bromomethane	U		µg/kg	240	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
9. t-Butanol	U		µg/kg	2500	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
10. 2-Butanone	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
11. n-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
12. sec-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
13. tert-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
14. Carbon Disulfide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
15. Carbon Tetrachloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
16. Chlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
17. Chloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
18. Chloroform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
19. Chloromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 20. Cyclohexane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
21. Dibromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
23. Dibromomethane	U		µg/kg	59	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
26. 1,4-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
29. 1,1-Dichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
30. 1,2-Dichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-39 (3-5)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**2**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:23**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-002A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-39 (3-5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
34. 1,2-Dichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
37. Diethyl Ether	U		µg/kg	200	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 38. Diisopropyl Ether	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 39. ETBE	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
40. Ethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
41. Ethylene Dibromide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 42. Hexachloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
43. 2-Hexanone	U		µg/kg	590	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
44. Isopropylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
45. 4-Isopropyltoluene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
46. Methylene Chloride	U		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 47. 2-Methylnaphthalene	U		µg/kg	300	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
48. 4-Methyl-2-pentanone	U		µg/kg	300	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
49. MTBE	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
50. Naphthalene	U		µg/kg	300	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
51. n-Propylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
52. Styrene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 53. TAME	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
54. 1,1,1,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
55. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
56. Tetrachloroethene	**120**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 57. Tetrahydrofuran	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
58. Toluene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
59. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
60. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
61. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
62. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
63. Trichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
64. Trichlorofluoromethane	U		µg/kg	59	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
65. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 66. 1,2,3-Trimethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
67. 1,2,4-Trimethylbenzene	U		µg/kg	120	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-39 (3-5)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**2**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:23**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-002A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-39 (3-5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
68. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
69. Vinyl Chloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
70. m&p-Xylene	U		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
71. o-Xylene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 72. Xylenes	U		µg/kg	150	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-40 (3-5)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**3**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**14:25**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: 72301-003** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: BSB-40 (3-5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**20**		%	1	1.0	03/18/16	MC160318	03/21/16	MC160318	BMG

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-003A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-40 (3-5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 2. Acrylonitrile	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
3. Benzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
4. Bromobenzene	U		µg/kg	62	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
5. Bromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
6. Bromodichloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
7. Bromoform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
8. Bromomethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
9. t-Butanol	U		µg/kg	2500	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
10. 2-Butanone	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
11. n-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
12. sec-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
13. tert-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
14. Carbon Disulfide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
15. Carbon Tetrachloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
16. Chlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
17. Chloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
18. Chloroform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
19. Chloromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 20. Cyclohexane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
21. Dibromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
23. Dibromomethane	U		µg/kg	62	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
26. 1,4-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
29. 1,1-Dichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
30. 1,2-Dichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-40 (3-5)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**3**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**14:25**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-003A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-40 (3-5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
34. 1,2-Dichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
37. Diethyl Ether	U		µg/kg	200	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 38. Diisopropyl Ether	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 39. ETBE	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
40. Ethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
41. Ethylene Dibromide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 42. Hexachloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
43. 2-Hexanone	U		µg/kg	620	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
44. Isopropylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
45. 4-Isopropyltoluene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
46. Methylene Chloride	U		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 47. 2-Methylnaphthalene	U		µg/kg	310	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
48. 4-Methyl-2-pentanone	U		µg/kg	310	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
49. MTBE	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
50. Naphthalene	U		µg/kg	310	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
51. n-Propylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
52. Styrene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 53. TAME	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
54. 1,1,1,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
55. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
56. Tetrachloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 57. Tetrahydrofuran	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
58. Toluene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
59. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
60. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
61. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
62. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
63. Trichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
64. Trichlorofluoromethane	U		µg/kg	62	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
65. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 66. 1,2,3-Trimethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
67. 1,2,4-Trimethylbenzene	U		µg/kg	120	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-40 (3-5)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**3**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**14:25**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-003A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-40 (3-5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
68. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
69. Vinyl Chloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
70. m&p-Xylene	U		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
71. o-Xylene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 72. Xylenes	U		µg/kg	150	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-40 (8-10)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**4**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**14:27**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: 72301-004** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: BSB-40 (8-10)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**13**		%	1	1.0	03/18/16	MC160318	03/21/16	MC160318	BMG

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-004A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-40 (8-10)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 2. Acrylonitrile	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
3. Benzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
4. Bromobenzene	U		µg/kg	58	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
5. Bromochloromethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
6. Bromodichloromethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
7. Bromoform	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
8. Bromomethane	U		µg/kg	230	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
9. t-Butanol	U		µg/kg	2500	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
10. 2-Butanone	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
11. n-Butylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
12. sec-Butylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
13. tert-Butylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
14. Carbon Disulfide	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
15. Carbon Tetrachloride	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
16. Chlorobenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
17. Chloroethane	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
18. Chloroform	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
19. Chloromethane	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 20. Cyclohexane	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
21. Dibromochloromethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
23. Dibromomethane	U		µg/kg	58	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
26. 1,4-Dichlorobenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
29. 1,1-Dichloroethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
30. 1,2-Dichloroethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-40 (8-10)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**4**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**14:27**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-004A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-40 (8-10)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
34. 1,2-Dichloropropane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
37. Diethyl Ether	U		µg/kg	200	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 38. Diisopropyl Ether	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 39. ETBE	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
40. Ethylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
41. Ethylene Dibromide	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 42. Hexachloroethane	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
43. 2-Hexanone	U		µg/kg	580	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
44. Isopropylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
45. 4-Isopropyltoluene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
46. Methylene Chloride	U		µg/kg	100	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 47. 2-Methylnaphthalene	U		µg/kg	290	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
48. 4-Methyl-2-pentanone	U		µg/kg	290	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
49. MTBE	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
50. Naphthalene	U		µg/kg	290	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
51. n-Propylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
52. Styrene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 53. TAME	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
54. 1,1,1,2-Tetrachloroethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
55. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
56. Tetrachloroethene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 57. Tetrahydrofuran	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
58. Toluene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
59. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
60. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
61. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
62. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
63. Trichloroethene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
64. Trichlorofluoromethane	U		µg/kg	58	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
65. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 66. 1,2,3-Trimethylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
67. 1,2,4-Trimethylbenzene	U		µg/kg	120	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-40 (8-10)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**4**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**14:27**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-004A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-40 (8-10)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
68. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
69. Vinyl Chloride	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
70. m&p-Xylene	U		µg/kg	100	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
71. o-Xylene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 72. Xylenes	U		µg/kg	150	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-41 (1.5-3.5)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**5**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**14:01**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: 72301-005** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: BSB-41 (1.5-3.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**20**		%	1	1.0	03/18/16	MC160318	03/21/16	MC160318	BMG

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-005A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-41 (1.5-3.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 2. Acrylonitrile	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
3. Benzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
4. Bromobenzene	U		µg/kg	63	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
5. Bromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
6. Bromodichloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
7. Bromoform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
8. Bromomethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
9. t-Butanol	U		µg/kg	2500	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
10. 2-Butanone	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
11. n-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
12. sec-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
13. tert-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
14. Carbon Disulfide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
15. Carbon Tetrachloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
16. Chlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
17. Chloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
18. Chloroform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
19. Chloromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 20. Cyclohexane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
21. Dibromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
23. Dibromomethane	U		µg/kg	63	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
26. 1,4-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
29. 1,1-Dichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
30. 1,2-Dichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-41 (1.5-3.5)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**5**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**14:01**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-005A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-41 (1.5-3.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
34. 1,2-Dichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
37. Diethyl Ether	U		µg/kg	200	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 38. Diisopropyl Ether	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 39. ETBE	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
40. Ethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
41. Ethylene Dibromide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 42. Hexachloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
43. 2-Hexanone	U		µg/kg	630	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
44. Isopropylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
45. 4-Isopropyltoluene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
46. Methylene Chloride	U		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 47. 2-Methylnaphthalene	U		µg/kg	310	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
48. 4-Methyl-2-pentanone	U		µg/kg	310	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
49. MTBE	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
50. Naphthalene	U		µg/kg	310	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
51. n-Propylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
52. Styrene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 53. TAME	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
54. 1,1,1,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
55. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
56. Tetrachloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 57. Tetrahydrofuran	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
58. Toluene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
59. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
60. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
61. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
62. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
63. Trichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
64. Trichlorofluoromethane	U		µg/kg	63	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
65. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 66. 1,2,3-Trimethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
67. 1,2,4-Trimethylbenzene	U		µg/kg	130	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-41 (1.5-3.5)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**5**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**14:01**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-005A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-41 (1.5-3.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
68. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
69. Vinyl Chloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
70. m&p-Xylene	U		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
71. o-Xylene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 72. Xylenes	U		µg/kg	150	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-41 (3.5-5.5)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**6**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**13:58**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: 72301-006** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: BSB-41 (3.5-5.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**19**		%	1	1.0	03/18/16	MC160318	03/21/16	MC160318	BMG

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-006A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-41 (3.5-5.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
‡ 2. Acrylonitrile	U		µg/kg	250	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
3. Benzene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
4. Bromobenzene	U		µg/kg	61	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
5. Bromochloromethane	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
6. Bromodichloromethane	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
7. Bromoform	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
8. Bromomethane	U		µg/kg	200	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
9. t-Butanol	U		µg/kg	2500	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
10. 2-Butanone	U		µg/kg	250	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
11. n-Butylbenzene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
12. sec-Butylbenzene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
13. tert-Butylbenzene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
14. Carbon Disulfide	U		µg/kg	61	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
15. Carbon Tetrachloride	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
16. Chlorobenzene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
17. Chloroethane	U		µg/kg	310	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
18. Chloroform	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
19. Chloromethane	U		µg/kg	250	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
‡ 20. Cyclohexane	U		µg/kg	250	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
21. Dibromochloromethane	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
23. Dibromomethane	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
26. 1,4-Dichlorobenzene	U		µg/kg	61	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
29. 1,1-Dichloroethane	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
30. 1,2-Dichloroethane	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-41 (3.5-5.5)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**6**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**13:58**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-006A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-41 (3.5-5.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
34. 1,2-Dichloropropane	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
37. Diethyl Ether	U		µg/kg	200	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
‡ 38. Diisopropyl Ether	U		µg/kg	250	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
‡ 39. ETBE	U		µg/kg	250	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
40. Ethylbenzene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
41. Ethylene Dibromide	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
‡ 42. Hexachloroethane	U		µg/kg	250	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
43. 2-Hexanone	U		µg/kg	310	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
44. Isopropylbenzene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
45. 4-Isopropyltoluene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
46. Methylene Chloride	U		µg/kg	100	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
‡ 47. 2-Methylnaphthalene	U		µg/kg	250	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
48. 4-Methyl-2-pentanone	U		µg/kg	310	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
49. MTBE	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
50. Naphthalene	U		µg/kg	250	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
51. n-Propylbenzene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
52. Styrene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
‡ 53. TAME	U		µg/kg	250	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
54. 1,1,1,2-Tetrachloroethane	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
55. 1,1,2,2-Tetrachloroethane	U		µg/kg	61	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
56. Tetrachloroethene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
‡ 57. Tetrahydrofuran	U		µg/kg	310	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
58. Toluene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
59. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
60. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
61. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
62. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
63. Trichloroethene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
64. Trichlorofluoromethane	U		µg/kg	61	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
65. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
‡ 66. 1,2,3-Trimethylbenzene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
67. 1,2,4-Trimethylbenzene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-41 (3.5-5.5)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**6**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**13:58**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-006A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-41 (3.5-5.5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
68. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
69. Vinyl Chloride	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
70. m&p-Xylene	U		µg/kg	100	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
71. o-Xylene	U		µg/kg	50	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
‡ 72. Xylenes	U		µg/kg	150	1.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-42 (5-7)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**7**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:35**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: 72301-007** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: BSB-42 (5-7)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**18**		%	1	1.0	03/18/16	MC160318	03/21/16	MC160318	BMG

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-007A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-42 (5-7)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 2. Acrylonitrile	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
3. Benzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
4. Bromobenzene	U		µg/kg	61	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
5. Bromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
6. Bromodichloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
7. Bromoform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
8. Bromomethane	U		µg/kg	240	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
9. t-Butanol	U		µg/kg	2500	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
10. 2-Butanone	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
11. n-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
12. sec-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
13. tert-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
14. Carbon Disulfide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
15. Carbon Tetrachloride	**120**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
16. Chlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
17. Chloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
18. Chloroform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
19. Chloromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 20. Cyclohexane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
21. Dibromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
23. Dibromomethane	U		µg/kg	61	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
26. 1,4-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
29. 1,1-Dichloroethane	**1000**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
30. 1,2-Dichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 72301
Laboratory Sample Number: 72301-007

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-42 (5-7)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**7**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:35**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-007A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-42 (5-7)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
34. 1,2-Dichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
37. Diethyl Ether	U		µg/kg	200	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 38. Diisopropyl Ether	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 39. ETBE	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
40. Ethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
41. Ethylene Dibromide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 42. Hexachloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
43. 2-Hexanone	U		µg/kg	610	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
44. Isopropylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
45. 4-Isopropyltoluene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
46. Methylene Chloride	U		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 47. 2-Methylnaphthalene	U		µg/kg	310	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
48. 4-Methyl-2-pentanone	U		µg/kg	310	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
49. MTBE	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
50. Naphthalene	U		µg/kg	310	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
51. n-Propylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
52. Styrene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 53. TAME	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
54. 1,1,1,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
55. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
56. Tetrachloroethene	**830**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 57. Tetrahydrofuran	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
58. Toluene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
59. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
60. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
61. 1,1,1-Trichloroethane	**720**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
62. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
63. Trichloroethene	**290**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
64. Trichlorofluoromethane	U		µg/kg	61	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
65. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 66. 1,2,3-Trimethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
67. 1,2,4-Trimethylbenzene	U		µg/kg	120	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-42 (5-7)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**7**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:35**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-007A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-42 (5-7)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
68. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
69. Vinyl Chloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
70. m&p-Xylene	U		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
71. o-Xylene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 72. Xylenes	U		µg/kg	150	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-42 (8-10)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**8**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:37**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: 72301-008** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: BSB-42 (8-10)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**37**		%	1	1.0	03/18/16	MC160318	03/21/16	MC160318	BMG

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-008A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-42 (8-10)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 2. Acrylonitrile	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
3. Benzene	**110**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
4. Bromobenzene	U		µg/kg	79	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
5. Bromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
6. Bromodichloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
7. Bromoform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
8. Bromomethane	U		µg/kg	320	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
9. t-Butanol	U		µg/kg	2500	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
10. 2-Butanone	**1200**		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
11. n-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
12. sec-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
13. tert-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
14. Carbon Disulfide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
15. Carbon Tetrachloride	**420**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
16. Chlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
17. Chloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
18. Chloroform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
19. Chloromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 20. Cyclohexane	**330**		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
21. Dibromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
23. Dibromomethane	U		µg/kg	79	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
24. 1,2-Dichlorobenzene	**1100**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
26. 1,4-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
29. 1,1-Dichloroethane	**2500**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
30. 1,2-Dichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-42 (8-10)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**8**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:37**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-008A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-42 (8-10)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
32. cis-1,2-Dichloroethene	U		µg/kg	78	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
34. 1,2-Dichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
37. Diethyl Ether	U		µg/kg	200	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 38. Diisopropyl Ether	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 39. ETBE	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
40. Ethylbenzene	**36000**		µg/kg	400	10	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
41. Ethylene Dibromide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 42. Hexachloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
43. 2-Hexanone	U		µg/kg	790	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
44. Isopropylbenzene	**480**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
45. 4-Isopropyltoluene	U		µg/kg	60	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
46. Methylene Chloride	**980**		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 47. 2-Methylnaphthalene	U		µg/kg	400	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
48. 4-Methyl-2-pentanone	**2300**		µg/kg	400	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
49. MTBE	**690**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
50. Naphthalene	U		µg/kg	400	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
51. n-Propylbenzene	**790**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
52. Styrene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 53. TAME	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
54. 1,1,1,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
55. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
56. Tetrachloroethene	**2600**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 57. Tetrahydrofuran	**1600**		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
58. Toluene	**25000**		µg/kg	400	10	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
59. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
60. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
61. 1,1,1-Trichloroethane	**2500**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
62. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
63. Trichloroethene	**750**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
64. Trichlorofluoromethane	U		µg/kg	79	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
65. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 66. 1,2,3-Trimethylbenzene	**340**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
67. 1,2,4-Trimethylbenzene	**2700**		µg/kg	160	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-42 (8-10)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**8**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**11:37**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-008A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-42 (8-10)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
68. 1,3,5-Trimethylbenzene	**1200**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
69. Vinyl Chloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
70. m&p-Xylene	**110000**		µg/kg	790	10	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
71. o-Xylene	**18000**		µg/kg	400	10	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
‡ 72. Xylenes	**130000**		µg/kg	1200	10	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-43 (10-12)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**9**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:35**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: 72301-009** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: BSB-43 (10-12)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**25**		%	1	1.0	03/18/16	MC160318	03/21/16	MC160318	BMG

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-009A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-43 (10-12)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	6700	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 2. Acrylonitrile	U		µg/kg	670	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
3. Benzene	**820**		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
4. Bromobenzene	U		µg/kg	670	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
5. Bromochloromethane	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
6. Bromodichloromethane	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
7. Bromoform	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
8. Bromomethane	U		µg/kg	2700	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
9. t-Butanol	U		µg/kg	13000	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
10. 2-Butanone	U		µg/kg	1300	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
11. n-Butylbenzene	**440**		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
12. sec-Butylbenzene	**410**		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
13. tert-Butylbenzene	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
14. Carbon Disulfide	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
15. Carbon Tetrachloride	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
16. Chlorobenzene	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
17. Chloroethane	U		µg/kg	1300	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
18. Chloroform	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
19. Chloromethane	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 20. Cyclohexane	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
21. Dibromochloromethane	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
23. Dibromomethane	U		µg/kg	670	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
24. 1,2-Dichlorobenzene	**6800**		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
25. 1,3-Dichlorobenzene	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
26. 1,4-Dichlorobenzene	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	670	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
28. Dichlorodifluoromethane	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
29. 1,1-Dichloroethane	**900**		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
30. 1,2-Dichloroethane	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-43 (10-12)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**9**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:35**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-009A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-43 (10-12)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. 1,1-Dichloroethene	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
32. cis-1,2-Dichloroethene	**5000**		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
33. trans-1,2-Dichloroethene	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
34. 1,2-Dichloropropane	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
35. cis-1,3-Dichloropropene	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
36. trans-1,3-Dichloropropene	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
37. Diethyl Ether	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 38. Diisopropyl Ether	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 39. ETBE	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
40. Ethylbenzene	**490000**		µg/kg	3300	100	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
41. Ethylene Dibromide	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 42. Hexachloroethane	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
43. 2-Hexanone	U		µg/kg	6700	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
44. Isopropylbenzene	**5500**		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
45. 4-Isopropyltoluene	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
46. Methylene Chloride	**530**		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 47. 2-Methylnaphthalene	U		µg/kg	3300	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
48. 4-Methyl-2-pentanone	**9400**		µg/kg	3300	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
49. MTBE	**1400**		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
50. Naphthalene	U		µg/kg	3300	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
51. n-Propylbenzene	**9700**		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
52. Styrene	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 53. TAME	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
54. 1,1,1,2-Tetrachloroethane	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
55. 1,1,2,2-Tetrachloroethane	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
56. Tetrachloroethene	**5000**		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 57. Tetrahydrofuran	U		µg/kg	670	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
58. Toluene	**930000**		µg/kg	3300	100	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
59. 1,2,3-Trichlorobenzene	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
60. 1,2,4-Trichlorobenzene	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
61. 1,1,1-Trichloroethane	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
62. 1,1,2-Trichloroethane	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
63. Trichloroethene	**740**		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
64. Trichlorofluoromethane	U		µg/kg	670	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
65. 1,2,3-Trichloropropane	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 66. 1,2,3-Trimethylbenzene	**3800**		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
67. 1,2,4-Trimethylbenzene	**34000**		µg/kg	1300	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-43 (10-12)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**9**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:35**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-009A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-43 (10-12)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
68. 1,3,5-Trimethylbenzene	**13000**		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
69. Vinyl Chloride	U		µg/kg	330	10	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
70. m&p-Xylene	**1900000**		µg/kg	6700	100	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
71. o-Xylene	**420000**		µg/kg	3300	100	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
‡ 72. Xylenes	**2300000**		µg/kg	10000	100	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-43 (16-18)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**10**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:38**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: 72301-010** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: BSB-43 (16-18)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**15**		%	1	1.0	03/18/16	MC160318	03/21/16	MC160318	BMG

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-010A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-43 (16-18)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 2. Acrylonitrile	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
3. Benzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
4. Bromobenzene	U		µg/kg	59	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
5. Bromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
6. Bromodichloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
7. Bromoform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
8. Bromomethane	U		µg/kg	240	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
9. t-Butanol	U		µg/kg	2500	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
10. 2-Butanone	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
11. n-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
12. sec-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
13. tert-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
14. Carbon Disulfide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
15. Carbon Tetrachloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
16. Chlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
17. Chloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
18. Chloroform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
19. Chloromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 20. Cyclohexane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
21. Dibromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
23. Dibromomethane	U		µg/kg	59	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
26. 1,4-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
29. 1,1-Dichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
30. 1,2-Dichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-43 (16-18)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**10**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:38**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-010A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-43 (16-18)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
32. cis-1,2-Dichloroethene	**110**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
34. 1,2-Dichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
37. Diethyl Ether	U		µg/kg	200	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 38. Diisopropyl Ether	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 39. ETBE	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
40. Ethylbenzene	**2800**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
41. Ethylene Dibromide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 42. Hexachloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
43. 2-Hexanone	U		µg/kg	590	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
44. Isopropylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
45. 4-Isopropyltoluene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
46. Methylene Chloride	U		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 47. 2-Methylnaphthalene	U		µg/kg	290	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
48. 4-Methyl-2-pentanone	U		µg/kg	290	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
49. MTBE	**850**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
50. Naphthalene	U		µg/kg	290	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
51. n-Propylbenzene	**80**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
52. Styrene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 53. TAME	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
54. 1,1,1,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
55. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
56. Tetrachloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 57. Tetrahydrofuran	**7800**		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
58. Toluene	**7000**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
59. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
60. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
61. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
62. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
63. Trichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
64. Trichlorofluoromethane	U		µg/kg	59	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
65. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 66. 1,2,3-Trimethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
67. 1,2,4-Trimethylbenzene	**280**		µg/kg	120	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-43 (16-18)**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**10**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**10:38**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-010A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-43 (16-18)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
68. 1,3,5-Trimethylbenzene	**130**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
69. Vinyl Chloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
70. m&p-Xylene	**11000**		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
71. o-Xylene	**2600**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 72. Xylenes	**13000**		µg/kg	150	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-44 (2-4)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**11**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:59**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: 72301-011** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: BSB-44 (2-4)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**13**		%	1	1.0	03/18/16	MC160318	03/21/16	MC160318	BMG

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-011A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-44 (2-4)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 2. Acrylonitrile	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
3. Benzene	**170**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
4. Bromobenzene	U		µg/kg	57	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
5. Bromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
6. Bromodichloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
7. Bromoform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
8. Bromomethane	U		µg/kg	230	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
9. t-Butanol	U		µg/kg	2500	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
10. 2-Butanone	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
11. n-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
12. sec-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
13. tert-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
14. Carbon Disulfide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
15. Carbon Tetrachloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
16. Chlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
17. Chloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
18. Chloroform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
19. Chloromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 20. Cyclohexane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
21. Dibromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
23. Dibromomethane	U		µg/kg	57	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
26. 1,4-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
29. 1,1-Dichloroethane	**180**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
30. 1,2-Dichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-44 (2-4)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**11**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:59**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-011A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-44 (2-4)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
32. cis-1,2-Dichloroethene	**90**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
34. 1,2-Dichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
37. Diethyl Ether	U		µg/kg	200	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 38. Diisopropyl Ether	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 39. ETBE	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
40. Ethylbenzene	**4700**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
41. Ethylene Dibromide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 42. Hexachloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
43. 2-Hexanone	U		µg/kg	570	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
44. Isopropylbenzene	**130**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
45. 4-Isopropyltoluene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
46. Methylene Chloride	**200**		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 47. 2-Methylnaphthalene	U		µg/kg	290	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
48. 4-Methyl-2-pentanone	U		µg/kg	290	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
49. MTBE	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
50. Naphthalene	U		µg/kg	290	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
51. n-Propylbenzene	**140**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
52. Styrene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 53. TAME	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
54. 1,1,1,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
55. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
56. Tetrachloroethene	U		µg/kg	54	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 57. Tetrahydrofuran	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
58. Toluene	**2000**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
59. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
60. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
61. 1,1,1-Trichloroethane	**110**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
62. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
63. Trichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
64. Trichlorofluoromethane	U		µg/kg	57	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
65. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 66. 1,2,3-Trimethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
67. 1,2,4-Trimethylbenzene	**150**		µg/kg	110	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-44 (2-4)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**11**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:59**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-011A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-44 (2-4)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
68. 1,3,5-Trimethylbenzene	**130**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
69. Vinyl Chloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
70. m&p-Xylene	**3900**		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
71. o-Xylene	**590**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 72. Xylenes	**4500**		µg/kg	150	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-44 (4-6)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**12**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:58**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: 72301-012** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: BSB-44 (4-6)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**30**		%	1	1.0	03/18/16	MC160318	03/21/16	MC160318	BMG

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-012A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-44 (4-6)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 2. Acrylonitrile	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
3. Benzene	**230**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
4. Bromobenzene	U		µg/kg	72	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
5. Bromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
6. Bromodichloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
7. Bromoform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
8. Bromomethane	U		µg/kg	290	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
9. t-Butanol	U		µg/kg	2500	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
10. 2-Butanone	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
11. n-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
12. sec-Butylbenzene	U		µg/kg	58	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
13. tert-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
14. Carbon Disulfide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
15. Carbon Tetrachloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
16. Chlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
17. Chloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
18. Chloroform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
19. Chloromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 20. Cyclohexane	**330**		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
21. Dibromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
23. Dibromomethane	U		µg/kg	72	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
24. 1,2-Dichlorobenzene	U		µg/kg	93	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
26. 1,4-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
29. 1,1-Dichloroethane	**93**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
30. 1,2-Dichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-44 (4-6)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**12**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:58**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-012A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-44 (4-6)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
34. 1,2-Dichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
37. Diethyl Ether	U		µg/kg	200	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 38. Diisopropyl Ether	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 39. ETBE	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
40. Ethylbenzene	**35000**		µg/kg	360	10	03/22/16	VJ16C22A	03/22/16	VJ16C22A	CRK
41. Ethylene Dibromide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 42. Hexachloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
43. 2-Hexanone	U		µg/kg	720	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
44. Isopropylbenzene	**530**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
45. 4-Isopropyltoluene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
46. Methylene Chloride	U		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 47. 2-Methylnaphthalene	**1300**		µg/kg	360	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
48. 4-Methyl-2-pentanone	U		µg/kg	360	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
49. MTBE	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
50. Naphthalene	**4800**		µg/kg	360	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
51. n-Propylbenzene	**870**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
52. Styrene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 53. TAME	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
54. 1,1,1,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
55. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
56. Tetrachloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 57. Tetrahydrofuran	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
58. Toluene	**2600**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
59. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
60. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
61. 1,1,1-Trichloroethane	**140**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
62. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
63. Trichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
64. Trichlorofluoromethane	U		µg/kg	72	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
65. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 66. 1,2,3-Trimethylbenzene	U		µg/kg	120	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
67. 1,2,4-Trimethylbenzene	**1600**		µg/kg	140	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-44 (4-6)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**12**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:58**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-012A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-44 (4-6)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
68. 1,3,5-Trimethylbenzene	**1100**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
69. Vinyl Chloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
70. m&p-Xylene	**75000**		µg/kg	720	10	03/22/16	VJ16C22A	03/22/16	VJ16C22A	CRK
71. o-Xylene	**3400**		µg/kg	360	10	03/22/16	VJ16C22A	03/22/16	VJ16C22A	CRK
‡ 72. Xylenes	**78000**		µg/kg	1100	10	03/22/16	VJ16C22A	03/22/16	VJ16C22A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-45 (9-11)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**13**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:12**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: 72301-013** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: BSB-45 (9-11)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**24**		%	1	1.0	03/18/16	MC160318	03/21/16	MC160318	BMG

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-013A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-45 (9-11)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 2. Acrylonitrile	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
3. Benzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
4. Bromobenzene	U		µg/kg	66	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
5. Bromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
6. Bromodichloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
7. Bromoform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
8. Bromomethane	U		µg/kg	260	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
9. t-Butanol	U		µg/kg	2500	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
10. 2-Butanone	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
11. n-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
12. sec-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
13. tert-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
14. Carbon Disulfide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
15. Carbon Tetrachloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
16. Chlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
17. Chloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
18. Chloroform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
19. Chloromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 20. Cyclohexane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
21. Dibromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
23. Dibromomethane	U		µg/kg	66	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
26. 1,4-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
29. 1,1-Dichloroethane	**110**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
30. 1,2-Dichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-45 (9-11)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**13**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:12**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-013A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-45 (9-11)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
34. 1,2-Dichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
37. Diethyl Ether	U		µg/kg	200	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 38. Diisopropyl Ether	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 39. ETBE	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
40. Ethylbenzene	**81**		µg/kg	50	1.0	03/22/16	VJ16C22A	03/22/16	VJ16C22A	CRK
41. Ethylene Dibromide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 42. Hexachloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
43. 2-Hexanone	U		µg/kg	660	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
44. Isopropylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
45. 4-Isopropyltoluene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
46. Methylene Chloride	U		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 47. 2-Methylnaphthalene	U		µg/kg	330	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
48. 4-Methyl-2-pentanone	U		µg/kg	330	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
49. MTBE	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
50. Naphthalene	U		µg/kg	330	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
51. n-Propylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
52. Styrene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 53. TAME	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
54. 1,1,1,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
55. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
56. Tetrachloroethene	**300**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 57. Tetrahydrofuran	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
58. Toluene	**91**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
59. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
60. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
61. 1,1,1-Trichloroethane	**200**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
62. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
63. Trichloroethene	**120**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
64. Trichlorofluoromethane	U		µg/kg	66	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
65. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 66. 1,2,3-Trimethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
67. 1,2,4-Trimethylbenzene	U		µg/kg	130	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-45 (9-11)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**13**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:12**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-013A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-45 (9-11)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
68. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
69. Vinyl Chloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
70. m&p-Xylene	**380**		µg/kg	100	1.0	03/22/16	VJ16C22A	03/22/16	VJ16C22A	CRK
71. o-Xylene	**99**		µg/kg	50	1.0	03/22/16	VJ16C22A	03/22/16	VJ16C22A	CRK
‡ 72. Xylenes	**480**		µg/kg	150	1.0	03/22/16	VJ16C22A	03/22/16	VJ16C22A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-45 (13-15)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**14**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:15**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: 72301-014** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: BSB-45 (13-15)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**69**		%	1	1.0	03/18/16	MC160318	03/21/16	MC160318	BMG

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-014A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-45 (13-15)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	**3700**		µg/kg	1600	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
‡ 2. Acrylonitrile	U		µg/kg	320	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
3. Benzene	**1100**		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
4. Bromobenzene	U		µg/kg	320	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
5. Bromochloromethane	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
6. Bromodichloromethane	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
7. Bromoform	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
8. Bromomethane	U		µg/kg	640	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
9. t-Butanol	U		µg/kg	3200	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
10. 2-Butanone	U		µg/kg	640	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
11. n-Butylbenzene	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
12. sec-Butylbenzene	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
13. tert-Butylbenzene	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
14. Carbon Disulfide	U		µg/kg	320	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
15. Carbon Tetrachloride	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
16. Chlorobenzene	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
17. Chloroethane	U		µg/kg	1600	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
18. Chloroform	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
19. Chloromethane	U		µg/kg	320	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
‡ 20. Cyclohexane	**330**		µg/kg	250	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
21. Dibromochloromethane	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	640	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
23. Dibromomethane	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
24. 1,2-Dichlorobenzene	**6600**		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
25. 1,3-Dichlorobenzene	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
26. 1,4-Dichlorobenzene	U		µg/kg	320	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
28. Dichlorodifluoromethane	U		µg/kg	250	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
29. 1,1-Dichloroethane	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
30. 1,2-Dichloroethane	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-45 (13-15)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**14**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:15**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-014A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-45 (13-15)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. 1,1-Dichloroethene	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
32. cis-1,2-Dichloroethene	**340**		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
33. trans-1,2-Dichloroethene	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
34. 1,2-Dichloropropane	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
35. cis-1,3-Dichloropropene	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
36. trans-1,3-Dichloropropene	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
37. Diethyl Ether	U		µg/kg	320	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
‡ 38. Diisopropyl Ether	U		µg/kg	250	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
‡ 39. ETBE	U		µg/kg	250	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
40. Ethylbenzene	**260000**		µg/kg	3200	40	03/22/16	VJ16C22A	03/22/16	VJ16C22A	CRK
41. Ethylene Dibromide	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
‡ 42. Hexachloroethane	U		µg/kg	250	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
43. 2-Hexanone	U		µg/kg	1600	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
44. Isopropylbenzene	**3700**		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
45. 4-Isopropyltoluene	**440**		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
46. Methylene Chloride	U		µg/kg	320	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
‡ 47. 2-Methylnaphthalene	U		µg/kg	320	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
48. 4-Methyl-2-pentanone	**2700**		µg/kg	1600	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
49. MTBE	**5600**		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
50. Naphthalene	U		µg/kg	560	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
51. n-Propylbenzene	**4200**		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
52. Styrene	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
‡ 53. TAME	U		µg/kg	320	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
54. 1,1,1,2-Tetrachloroethane	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
55. 1,1,2,2-Tetrachloroethane	U		µg/kg	320	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
56. Tetrachloroethene	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
‡ 57. Tetrahydrofuran	**38000**		µg/kg	1600	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
58. Toluene	**98000**		µg/kg	3200	40	03/22/16	VJ16C22A	03/22/16	VJ16C22A	CRK
59. 1,2,3-Trichlorobenzene	U		µg/kg	250	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
60. 1,2,4-Trichlorobenzene	U		µg/kg	250	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
61. 1,1,1-Trichloroethane	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
62. 1,1,2-Trichloroethane	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
63. Trichloroethene	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
64. Trichlorofluoromethane	U		µg/kg	320	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
65. 1,2,3-Trichloropropane	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
‡ 66. 1,2,3-Trimethylbenzene	**2400**		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
67. 1,2,4-Trimethylbenzene	**17000**		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-45 (13-15)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**14**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:15**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-014A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-45 (13-15)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
68. 1,3,5-Trimethylbenzene	**6700**		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
69. Vinyl Chloride	U		µg/kg	160	2.0	03/21/16	VH16C21A	03/21/16	VH16C21A	CRK
70. m&p-Xylene	**970000**		µg/kg	6400	40	03/22/16	VJ16C22A	03/22/16	VJ16C22A	CRK
71. o-Xylene	**250000**		µg/kg	3200	40	03/22/16	VJ16C22A	03/22/16	VJ16C22A	CRK
‡ 72. Xylenes	**1200000**		µg/kg	9700	40	03/22/16	VJ16C22A	03/22/16	VJ16C22A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-46 (6-8)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**15**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:36**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: 72301-015** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: BSB-46 (6-8)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**22**		%	1	1.0	03/18/16	MC160318	03/21/16	MC160318	BMG

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-015A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-46 (6-8)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 2. Acrylonitrile	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
3. Benzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
4. Bromobenzene	U		µg/kg	64	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
5. Bromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
6. Bromodichloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
7. Bromoform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
8. Bromomethane	U		µg/kg	260	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
9. t-Butanol	U		µg/kg	2500	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
10. 2-Butanone	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
11. n-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
12. sec-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
13. tert-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
14. Carbon Disulfide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
15. Carbon Tetrachloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
16. Chlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
17. Chloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
18. Chloroform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
19. Chloromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 20. Cyclohexane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
21. Dibromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
23. Dibromomethane	U		µg/kg	64	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
26. 1,4-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
29. 1,1-Dichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
30. 1,2-Dichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-46 (6-8)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**15**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:36**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-015A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-46 (6-8)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
34. 1,2-Dichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
37. Diethyl Ether	U		µg/kg	200	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 38. Diisopropyl Ether	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 39. ETBE	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
40. Ethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
41. Ethylene Dibromide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 42. Hexachloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
43. 2-Hexanone	U		µg/kg	640	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
44. Isopropylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
45. 4-Isopropyltoluene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
46. Methylene Chloride	U		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 47. 2-Methylnaphthalene	U		µg/kg	320	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
48. 4-Methyl-2-pentanone	U		µg/kg	320	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
49. MTBE	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
50. Naphthalene	U		µg/kg	320	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
51. n-Propylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
52. Styrene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 53. TAME	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
54. 1,1,1,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
55. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
56. Tetrachloroethene	**73**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 57. Tetrahydrofuran	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
58. Toluene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
59. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
60. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
61. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
62. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
63. Trichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
64. Trichlorofluoromethane	U		µg/kg	64	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
65. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 66. 1,2,3-Trimethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
67. 1,2,4-Trimethylbenzene	U		µg/kg	130	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-46 (6-8)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**15**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:36**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-015A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-46 (6-8)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
68. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
69. Vinyl Chloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
70. m&p-Xylene	U		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
71. o-Xylene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 72. Xylenes	U		µg/kg	150	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-46 (9-11)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**16**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:39**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: 72301-016** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: BSB-46 (9-11)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**18**		%	1	1.0	03/18/16	MC160318	03/21/16	MC160318	BMG

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-016A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-46 (9-11)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 2. Acrylonitrile	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
3. Benzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
4. Bromobenzene	U		µg/kg	61	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
5. Bromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
6. Bromodichloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
7. Bromoform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
8. Bromomethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
9. t-Butanol	U		µg/kg	2500	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
10. 2-Butanone	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
11. n-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
12. sec-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
13. tert-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
14. Carbon Disulfide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
15. Carbon Tetrachloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
16. Chlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
17. Chloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
18. Chloroform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
19. Chloromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 20. Cyclohexane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
21. Dibromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
23. Dibromomethane	U		µg/kg	61	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
26. 1,4-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
29. 1,1-Dichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
30. 1,2-Dichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-46 (9-11)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**16**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:39**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-016A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-46 (9-11)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
34. 1,2-Dichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
37. Diethyl Ether	U		µg/kg	200	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 38. Diisopropyl Ether	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 39. ETBE	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
40. Ethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
41. Ethylene Dibromide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 42. Hexachloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
43. 2-Hexanone	U		µg/kg	610	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
44. Isopropylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
45. 4-Isopropyltoluene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
46. Methylene Chloride	U		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 47. 2-Methylnaphthalene	U		µg/kg	310	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
48. 4-Methyl-2-pentanone	U		µg/kg	310	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
49. MTBE	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
50. Naphthalene	U		µg/kg	310	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
51. n-Propylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
52. Styrene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 53. TAME	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
54. 1,1,1,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
55. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
56. Tetrachloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 57. Tetrahydrofuran	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
58. Toluene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
59. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
60. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
61. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
62. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
63. Trichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
64. Trichlorofluoromethane	U		µg/kg	61	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
65. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 66. 1,2,3-Trimethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
67. 1,2,4-Trimethylbenzene	U		µg/kg	120	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-46 (9-11)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**16**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**12:39**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-016A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-46 (9-11)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
68. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
69. Vinyl Chloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
70. m&p-Xylene	U		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
71. o-Xylene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 72. Xylenes	U		µg/kg	150	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-47 (3-5)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**17**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**16:22**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: 72301-017** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: BSB-47 (3-5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**16**		%	1	1.0	03/18/16	MC160318	03/21/16	MC160318	BMG

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-017A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-47 (3-5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 2. Acrylonitrile	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
3. Benzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
4. Bromobenzene	U		µg/kg	60	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
5. Bromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
6. Bromodichloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
7. Bromoform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
8. Bromomethane	U		µg/kg	240	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
9. t-Butanol	U		µg/kg	2500	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
10. 2-Butanone	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
11. n-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
12. sec-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
13. tert-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
14. Carbon Disulfide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
15. Carbon Tetrachloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
16. Chlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
17. Chloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
18. Chloroform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
19. Chloromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 20. Cyclohexane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
21. Dibromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
23. Dibromomethane	U		µg/kg	60	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
26. 1,4-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
29. 1,1-Dichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
30. 1,2-Dichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 72301
Laboratory Sample Number: 72301-017

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-47 (3-5)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**17**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**16:22**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-017A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-47 (3-5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
34. 1,2-Dichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
37. Diethyl Ether	U		µg/kg	200	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 38. Diisopropyl Ether	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 39. ETBE	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
40. Ethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
41. Ethylene Dibromide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 42. Hexachloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
43. 2-Hexanone	U		µg/kg	600	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
44. Isopropylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
45. 4-Isopropyltoluene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
46. Methylene Chloride	U		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 47. 2-Methylnaphthalene	U		µg/kg	300	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
48. 4-Methyl-2-pentanone	U		µg/kg	300	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
49. MTBE	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
50. Naphthalene	U		µg/kg	300	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
51. n-Propylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
52. Styrene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 53. TAME	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
54. 1,1,1,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
55. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
56. Tetrachloroethene	**990**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 57. Tetrahydrofuran	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
58. Toluene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
59. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
60. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
61. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
62. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
63. Trichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
64. Trichlorofluoromethane	U		µg/kg	60	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
65. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 66. 1,2,3-Trimethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
67. 1,2,4-Trimethylbenzene	U		µg/kg	120	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-47 (3-5)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**17**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**16:22**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-017A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-47 (3-5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
68. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
69. Vinyl Chloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
70. m&p-Xylene	U		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
71. o-Xylene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 72. Xylenes	U		µg/kg	150	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-47 (5-7)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**18**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**16:24**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: 72301-018** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: BSB-47 (5-7)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**21**		%	1	1.0	03/18/16	MC160318	03/21/16	MC160318	BMG

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-018A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-47 (5-7)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 2. Acrylonitrile	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
3. Benzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
4. Bromobenzene	U		µg/kg	64	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
5. Bromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
6. Bromodichloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
7. Bromoform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
8. Bromomethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
9. t-Butanol	U		µg/kg	2500	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
10. 2-Butanone	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
11. n-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
12. sec-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
13. tert-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
14. Carbon Disulfide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
15. Carbon Tetrachloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
16. Chlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
17. Chloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
18. Chloroform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
19. Chloromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 20. Cyclohexane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
21. Dibromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
23. Dibromomethane	U		µg/kg	64	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
26. 1,4-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
29. 1,1-Dichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
30. 1,2-Dichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-47 (5-7)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**18**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**16:24**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-018A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-47 (5-7)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
34. 1,2-Dichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
37. Diethyl Ether	U		µg/kg	200	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 38. Diisopropyl Ether	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 39. ETBE	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
40. Ethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
41. Ethylene Dibromide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 42. Hexachloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
43. 2-Hexanone	U		µg/kg	640	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
44. Isopropylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
45. 4-Isopropyltoluene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
46. Methylene Chloride	U		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 47. 2-Methylnaphthalene	U		µg/kg	320	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
48. 4-Methyl-2-pentanone	U		µg/kg	320	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
49. MTBE	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
50. Naphthalene	U		µg/kg	320	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
51. n-Propylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
52. Styrene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 53. TAME	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
54. 1,1,1,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
55. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
56. Tetrachloroethene	**100**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 57. Tetrahydrofuran	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
58. Toluene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
59. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
60. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
61. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
62. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
63. Trichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
64. Trichlorofluoromethane	U		µg/kg	64	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
65. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 66. 1,2,3-Trimethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
67. 1,2,4-Trimethylbenzene	U		µg/kg	130	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-47 (5-7)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**18**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**16:24**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-018A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-47 (5-7)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
68. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
69. Vinyl Chloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
70. m&p-Xylene	U		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
71. o-Xylene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 72. Xylenes	U		µg/kg	150	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-48 (3-5)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**19**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**16:40**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: 72301-019** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: BSB-48 (3-5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**15**		%	1	1.0	03/18/16	MC160318	03/21/16	MC160318	BMG

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-019A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-48 (3-5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 2. Acrylonitrile	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
3. Benzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
4. Bromobenzene	U		µg/kg	59	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
5. Bromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
6. Bromodichloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
7. Bromoform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
8. Bromomethane	U		µg/kg	240	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
9. t-Butanol	U		µg/kg	2500	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
10. 2-Butanone	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
11. n-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
12. sec-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
13. tert-Butylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
14. Carbon Disulfide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
15. Carbon Tetrachloride	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
16. Chlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
17. Chloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
18. Chloroform	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
19. Chloromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 20. Cyclohexane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
21. Dibromochloromethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
23. Dibromomethane	U		µg/kg	59	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
26. 1,4-Dichlorobenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
29. 1,1-Dichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
30. 1,2-Dichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-48 (3-5)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**19**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**16:40**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-019A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-48 (3-5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
32. cis-1,2-Dichloroethene	**9400**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
33. trans-1,2-Dichloroethene	**82**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
34. 1,2-Dichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
37. Diethyl Ether	U		µg/kg	200	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 38. Diisopropyl Ether	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 39. ETBE	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
40. Ethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
41. Ethylene Dibromide	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 42. Hexachloroethane	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
43. 2-Hexanone	U		µg/kg	590	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
44. Isopropylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
45. 4-Isopropyltoluene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
46. Methylene Chloride	U		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 47. 2-Methylnaphthalene	U		µg/kg	290	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
48. 4-Methyl-2-pentanone	U		µg/kg	290	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
49. MTBE	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
50. Naphthalene	U		µg/kg	290	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
51. n-Propylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
52. Styrene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 53. TAME	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
54. 1,1,1,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
55. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
56. Tetrachloroethene	**28000**		µg/kg	290	10	03/22/16	VJ16C22A	03/22/16	VJ16C22A	CRK
‡ 57. Tetrahydrofuran	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
58. Toluene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
59. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
60. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
61. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
62. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
63. Trichloroethene	**8500**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
64. Trichlorofluoromethane	U		µg/kg	59	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
65. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 66. 1,2,3-Trimethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
67. 1,2,4-Trimethylbenzene	U		µg/kg	120	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-48 (3-5)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**19**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**16:40**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-019A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-48 (3-5)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
68. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
69. Vinyl Chloride	**210**		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
70. m&p-Xylene	U		µg/kg	100	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
71. o-Xylene	U		µg/kg	50	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR
‡ 72. Xylenes	U		µg/kg	150	1.0	03/17/16	VJ16C17B	03/18/16	VJ16C17B	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-48 (5-7)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**20**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**16:42**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: 72301-020** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: BSB-48 (5-7)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**17**		%	1	1.0	03/18/16	MC160318	03/21/16	MC160318	BMG

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-020A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-48 (5-7)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 2. Acrylonitrile	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
3. Benzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
4. Bromobenzene	U		µg/kg	61	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
5. Bromochloromethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
6. Bromodichloromethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
7. Bromoform	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
8. Bromomethane	U		µg/kg	240	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
9. t-Butanol	U		µg/kg	2500	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
10. 2-Butanone	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
11. n-Butylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
12. sec-Butylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
13. tert-Butylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
14. Carbon Disulfide	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
15. Carbon Tetrachloride	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
16. Chlorobenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
17. Chloroethane	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
18. Chloroform	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
19. Chloromethane	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 20. Cyclohexane	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
21. Dibromochloromethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
23. Dibromomethane	U		µg/kg	61	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
26. 1,4-Dichlorobenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
29. 1,1-Dichloroethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
30. 1,2-Dichloroethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-48 (5-7)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**20**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**16:42**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-020A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-48 (5-7)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
32. cis-1,2-Dichloroethene	**8700**		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
33. trans-1,2-Dichloroethene	**66**		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
34. 1,2-Dichloropropane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
37. Diethyl Ether	U		µg/kg	200	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 38. Diisopropyl Ether	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 39. ETBE	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
40. Ethylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
41. Ethylene Dibromide	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 42. Hexachloroethane	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
43. 2-Hexanone	U		µg/kg	610	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
44. Isopropylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
45. 4-Isopropyltoluene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
46. Methylene Chloride	U		µg/kg	100	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 47. 2-Methylnaphthalene	U		µg/kg	300	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
48. 4-Methyl-2-pentanone	U		µg/kg	300	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
49. MTBE	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
50. Naphthalene	U		µg/kg	300	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
51. n-Propylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
52. Styrene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 53. TAME	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
54. 1,1,1,2-Tetrachloroethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
55. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
56. Tetrachloroethene	**10000**		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 57. Tetrahydrofuran	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
58. Toluene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
59. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
60. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
61. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
62. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
63. Trichloroethene	**4600**		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
64. Trichlorofluoromethane	U		µg/kg	61	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
65. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 66. 1,2,3-Trimethylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
67. 1,2,4-Trimethylbenzene	U		µg/kg	120	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-48 (5-7)**	Chain of Custody:	**147158**
Client Project Name:	**PSC - Detroit**	Sample No:	**20**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**16:42**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-020A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-48 (5-7)**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
68. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
69. Vinyl Chloride	**680**		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
70. m&p-Xylene	U		µg/kg	100	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
71. o-Xylene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 72. Xylenes	U		µg/kg	150	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**Dup-01**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**21**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:23**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: 72301-021** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: Dup-01**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**15**		%	1	1.0	03/18/16	MC160318	03/21/16	MC160318	BMG

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-021A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: Dup-01**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/kg	1000	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 2. Acrylonitrile	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
3. Benzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
4. Bromobenzene	U		µg/kg	59	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
5. Bromochloromethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
6. Bromodichloromethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
7. Bromoform	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
8. Bromomethane	U		µg/kg	240	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
9. t-Butanol	U		µg/kg	2500	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
10. 2-Butanone	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
11. n-Butylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
12. sec-Butylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
13. tert-Butylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
14. Carbon Disulfide	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
15. Carbon Tetrachloride	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
16. Chlorobenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
17. Chloroethane	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
18. Chloroform	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
19. Chloromethane	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 20. Cyclohexane	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
21. Dibromochloromethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
23. Dibromomethane	U		µg/kg	59	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
24. 1,2-Dichlorobenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
25. 1,3-Dichlorobenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
26. 1,4-Dichlorobenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
28. Dichlorodifluoromethane	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
29. 1,1-Dichloroethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
30. 1,2-Dichloroethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**Dup-01**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**21**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:23**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-021A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: Dup-01**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. 1,1-Dichloroethene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
32. cis-1,2-Dichloroethene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
33. trans-1,2-Dichloroethene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
34. 1,2-Dichloropropane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
35. cis-1,3-Dichloropropene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
36. trans-1,3-Dichloropropene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
37. Diethyl Ether	U		µg/kg	200	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 38. Diisopropyl Ether	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 39. ETBE	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
40. Ethylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
41. Ethylene Dibromide	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 42. Hexachloroethane	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
43. 2-Hexanone	U		µg/kg	590	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
44. Isopropylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
45. 4-Isopropyltoluene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
46. Methylene Chloride	U		µg/kg	100	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 47. 2-Methylnaphthalene	U		µg/kg	290	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
48. 4-Methyl-2-pentanone	U		µg/kg	290	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
49. MTBE	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
50. Naphthalene	U		µg/kg	290	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
51. n-Propylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
52. Styrene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 53. TAME	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
54. 1,1,1,2-Tetrachloroethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
55. 1,1,2,2-Tetrachloroethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
56. Tetrachloroethene	**280**		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 57. Tetrahydrofuran	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
58. Toluene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
59. 1,2,3-Trichlorobenzene	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
60. 1,2,4-Trichlorobenzene	U		µg/kg	250	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
61. 1,1,1-Trichloroethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
62. 1,1,2-Trichloroethane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
63. Trichloroethene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
64. Trichlorofluoromethane	U		µg/kg	59	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
65. 1,2,3-Trichloropropane	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 66. 1,2,3-Trimethylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
67. 1,2,4-Trimethylbenzene	U		µg/kg	120	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**Dup-01**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**21**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:23**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-021A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: Dup-01**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
68. 1,3,5-Trimethylbenzene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
69. Vinyl Chloride	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
70. m&p-Xylene	U		µg/kg	100	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
71. o-Xylene	U		µg/kg	50	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK
‡ 72. Xylenes	U		µg/kg	150	1.0	03/18/16	VJ16C18A	03/18/16	VJ16C18A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-39 (1-3) MS**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**22**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:25**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: 72301-022** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: BSB-39 (1-3) MS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**16**		%	1	1.0	03/18/16	MC160318	03/21/16	MC160318	BMG

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-022A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-39 (1-3) MS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	**4300**	*	µg/kg	1000	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 2. Acrylonitrile	**3200**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
3. Benzene	**3000**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
4. Bromobenzene	**3100**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
5. Bromochloromethane	**3000**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
6. Bromodichloromethane	**3000**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
7. Bromoform	**3400**		µg/kg	120	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
8. Bromomethane	**3100**		µg/kg	240	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
9. t-Butanol	**19000**		µg/kg	2500	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
10. 2-Butanone	**3600**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
11. n-Butylbenzene	**3300**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
12. sec-Butylbenzene	**3300**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
13. tert-Butylbenzene	**3000**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
14. Carbon Disulfide	**3000**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
15. Carbon Tetrachloride	**3200**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
16. Chlorobenzene	**2900**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
17. Chloroethane	**2800**		µg/kg	300	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
18. Chloroform	**3200**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
19. Chloromethane	**2900**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 20. Cyclohexane	**3000**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
21. Dibromochloromethane	**3200**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	**3300**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
23. Dibromomethane	**3000**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
24. 1,2-Dichlorobenzene	**2800**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
25. 1,3-Dichlorobenzene	**2900**		µg/kg	59	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
26. 1,4-Dichlorobenzene	**2700**		µg/kg	59	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
27. trans-1,4-Dichloro-2-butene (SIM)	**3700**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
28. Dichlorodifluoromethane	**3200**		µg/kg	300	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
29. 1,1-Dichloroethane	**2900**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
30. 1,2-Dichloroethane	**3000**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-39 (1-3) MS**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**22**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:25**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-022A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-39 (1-3) MS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. 1,1-Dichloroethene	**3200**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
32. cis-1,2-Dichloroethene	**3000**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
33. trans-1,2-Dichloroethene	**3000**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
34. 1,2-Dichloropropane	**3000**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
35. cis-1,3-Dichloropropene	**3300**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
36. trans-1,3-Dichloropropene	**3100**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
37. Diethyl Ether	**3000**		µg/kg	200	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 38. Diisopropyl Ether	**2900**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 39. ETBE	**3100**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
40. Ethylbenzene	**3000**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
41. Ethylene Dibromide	**3100**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 42. Hexachloroethane	**3100**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
43. 2-Hexanone	**3600**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
44. Isopropylbenzene	**3100**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
45. 4-Isopropyltoluene	**3300**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
46. Methylene Chloride	**3000**		µg/kg	100	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 47. 2-Methylnaphthalene	**3300**		µg/kg	300	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
48. 4-Methyl-2-pentanone	**3300**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
49. MTBE	**3000**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
50. Naphthalene	**3200**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
51. n-Propylbenzene	**3000**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
52. Styrene	**3200**		µg/kg	59	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 53. TAME	**2900**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
54. 1,1,1,2-Tetrachloroethane	**3400**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
55. 1,1,2,2-Tetrachloroethane	**3000**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
56. Tetrachloroethene	**3100**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 57. Tetrahydrofuran	**3000**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
58. Toluene	**3000**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
59. 1,2,3-Trichlorobenzene	**2900**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
60. 1,2,4-Trichlorobenzene	**3000**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
61. 1,1,1-Trichloroethane	**3000**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
62. 1,1,2-Trichloroethane	**3100**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
63. Trichloroethene	**3100**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
64. Trichlorofluoromethane	**3200**		µg/kg	120	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
65. 1,2,3-Trichloropropane	**3100**		µg/kg	59	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 66. 1,2,3-Trimethylbenzene	**2800**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
67. 1,2,4-Trimethylbenzene	**3200**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-39 (1-3) MS**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**22**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:25**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-022A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-39 (1-3) MS**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
68. 1,3,5-Trimethylbenzene	**3100**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
69. Vinyl Chloride	**3000**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
70. m&p-Xylene	**6100**		µg/kg	100	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
71. o-Xylene	**3000**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 72. Xylenes	**9100**		µg/kg	150	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-39 (1-3) MSD**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**23**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:25**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Water (Moisture) Content Dried at 105 ± 5°C **Aliquot ID: 72301-023** **Matrix: Soil/Solid**
Method: ASTM D2216-10 **Description: BSB-39 (1-3) MSD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 1. Percent Moisture (Water Content)	**12**		%	1	1.0	03/18/16	MC160318	03/21/16	MC160318	BMG

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-023A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-39 (1-3) MSD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	**5800**	*	µg/kg	1000	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 2. Acrylonitrile	**3200**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
3. Benzene	**3100**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
4. Bromobenzene	**3200**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
5. Bromochloromethane	**3100**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
6. Bromodichloromethane	**3200**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
7. Bromoform	**3500**		µg/kg	110	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
8. Bromomethane	**3100**		µg/kg	230	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
9. t-Butanol	**20000**		µg/kg	2500	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
10. 2-Butanone	**4400**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
11. n-Butylbenzene	**3400**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
12. sec-Butylbenzene	**3400**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
13. tert-Butylbenzene	**3200**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
14. Carbon Disulfide	**3100**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
15. Carbon Tetrachloride	**3400**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
16. Chlorobenzene	**3100**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
17. Chloroethane	**2900**		µg/kg	290	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
18. Chloroform	**3300**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
19. Chloromethane	**2900**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 20. Cyclohexane	**3100**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
21. Dibromochloromethane	**3300**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	**3400**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
23. Dibromomethane	**3100**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
24. 1,2-Dichlorobenzene	**2900**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
25. 1,3-Dichlorobenzene	**3000**		µg/kg	57	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
26. 1,4-Dichlorobenzene	**2800**		µg/kg	57	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
27. trans-1,4-Dichloro-2-butene (SIM)	**3800**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
28. Dichlorodifluoromethane	**3100**		µg/kg	290	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
29. 1,1-Dichloroethane	**3000**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
30. 1,2-Dichloroethane	**3100**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-39 (1-3) MSD**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**23**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:25**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-023A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-39 (1-3) MSD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
31. 1,1-Dichloroethene	**3300**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
32. cis-1,2-Dichloroethene	**3100**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
33. trans-1,2-Dichloroethene	**3100**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
34. 1,2-Dichloropropane	**3100**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
35. cis-1,3-Dichloropropene	**3400**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
36. trans-1,3-Dichloropropene	**3200**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
37. Diethyl Ether	**3000**		µg/kg	200	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 38. Diisopropyl Ether	**3000**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 39. ETBE	**3200**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
40. Ethylbenzene	**3200**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
41. Ethylene Dibromide	**3200**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 42. Hexachloroethane	**3300**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
43. 2-Hexanone	**4500**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
44. Isopropylbenzene	**3200**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
45. 4-Isopropyltoluene	**3500**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
46. Methylene Chloride	**3100**		µg/kg	100	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 47. 2-Methylnaphthalene	**3500**		µg/kg	290	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
48. 4-Methyl-2-pentanone	**3500**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
49. MTBE	**3100**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
50. Naphthalene	**3400**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
51. n-Propylbenzene	**3200**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
52. Styrene	**3300**		µg/kg	57	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 53. TAME	**3000**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
54. 1,1,1,2-Tetrachloroethane	**3500**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
55. 1,1,2,2-Tetrachloroethane	**3100**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
56. Tetrachloroethene	**3200**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 57. Tetrahydrofuran	**3100**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
58. Toluene	**3200**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
59. 1,2,3-Trichlorobenzene	**3000**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
60. 1,2,4-Trichlorobenzene	**3100**		µg/kg	250	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
61. 1,1,1-Trichloroethane	**3200**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
62. 1,1,2-Trichloroethane	**3200**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
63. Trichloroethene	**3300**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
64. Trichlorofluoromethane	**3300**		µg/kg	110	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
65. 1,2,3-Trichloropropane	**3200**		µg/kg	57	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 66. 1,2,3-Trimethylbenzene	**2900**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
67. 1,2,4-Trimethylbenzene	**3400**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-39 (1-3) MSD**	Chain of Custody:	**147159**
Client Project Name:	**PSC - Detroit**	Sample No:	**23**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Soil/Solid**	Collect Time:	**15:25**

Sample Comments: **Soil results have been calculated and reported on a dry weight basis unless otherwise noted.**

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS, 5035 **Aliquot ID: 72301-023A** **Matrix: Soil/Solid**
Method: EPA 5035A/EPA 8260B **Description: BSB-39 (1-3) MSD**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
68. 1,3,5-Trimethylbenzene	**3200**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
69. Vinyl Chloride	**3000**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
70. m&p-Xylene	**6400**		µg/kg	100	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
71. o-Xylene	**3100**		µg/kg	50	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK
‡ 72. Xylenes	**9500**		µg/kg	150	1.0	03/22/16	VI16C22A	03/22/16	VI16C22A	CRK

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-40 GW**	Chain of Custody:	**147157**
Client Project Name:	**PSC - Detroit**	Sample No:	**24**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**14:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72301-024** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: BSB-40 GW**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/L	20	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 2. Acrylonitrile	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
3. Benzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
4. Bromobenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
5. Bromochloromethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
6. Bromodichloromethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
7. Bromoform	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
8. Bromomethane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
9. t-Butanol	U		µg/L	50	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
10. 2-Butanone	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
11. n-Butylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
12. sec-Butylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
13. tert-Butylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
14. Carbon Disulfide	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
15. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
16. Chlorobenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
17. Chloroethane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
18. Chloroform	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
19. Chloromethane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 20. Cyclohexane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
21. Dibromochloromethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
23. Dibromomethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
24. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
25. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
26. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
28. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
29. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
30. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
31. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
32. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
33. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
34. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
35. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
36. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
37. Diethyl Ether	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-40 GW**	Chain of Custody:	**147157**
Client Project Name:	**PSC - Detroit**	Sample No:	**24**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**14:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72301-024** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: BSB-40 GW**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 38. Diisopropyl Ether	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 39. ETBE	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
40. Ethylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
41. Ethylene Dibromide	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 42. Hexachloroethane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
43. 2-Hexanone	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
44. Isopropylbenzene	U	L+	µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
45. 4-Isopropyltoluene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
46. Methylene Chloride	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 47. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
48. 4-Methyl-2-pentanone	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
49. MTBE	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
50. Naphthalene	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
51. n-Propylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
52. Styrene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 53. TAME	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
54. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
55. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
56. Tetrachloroethene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 57. Tetrahydrofuran	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
58. Toluene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
59. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
60. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
61. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
62. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
63. Trichloroethene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
64. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
65. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 66. 1,2,3-Trimethylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
67. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
68. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
69. Vinyl Chloride	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
70. m&p-Xylene	U		µg/L	2.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
71. o-Xylene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 72. Xylenes	U		µg/L	3.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-41 GW**	Chain of Custody:	**147157**
Client Project Name:	**PSC - Detroit**	Sample No:	**25**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**14:02**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72301-025** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: BSB-41 GW**

	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
	1. Acetone	U		µg/L	20	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡	2. Acrylonitrile	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	3. Benzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	4. Bromobenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	5. Bromochloromethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	6. Bromodichloromethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	7. Bromoform	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	8. Bromomethane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	9. t-Butanol	U		µg/L	50	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	10. 2-Butanone	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	11. n-Butylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	12. sec-Butylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	13. tert-Butylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	14. Carbon Disulfide	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	15. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	16. Chlorobenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	17. Chloroethane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	18. Chloroform	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	19. Chloromethane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡	20. Cyclohexane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	21. Dibromochloromethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡	22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	23. Dibromomethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	24. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	25. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	26. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	28. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	29. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	30. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	31. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	32. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	33. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	34. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	35. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	36. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
	37. Diethyl Ether	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-41 GW**	Chain of Custody:	**147157**
Client Project Name:	**PSC - Detroit**	Sample No:	**25**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**14:02**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72301-025** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: BSB-41 GW**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 38. Diisopropyl Ether	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 39. ETBE	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
40. Ethylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
41. Ethylene Dibromide	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 42. Hexachloroethane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
43. 2-Hexanone	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
44. Isopropylbenzene	U	L+	µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
45. 4-Isopropyltoluene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
46. Methylene Chloride	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 47. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
48. 4-Methyl-2-pentanone	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
49. MTBE	**7.7**		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
50. Naphthalene	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
51. n-Propylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
52. Styrene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 53. TAME	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
54. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
55. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
56. Tetrachloroethene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 57. Tetrahydrofuran	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
58. Toluene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
59. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
60. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
61. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
62. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
63. Trichloroethene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
64. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
65. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 66. 1,2,3-Trimethylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
67. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
68. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
69. Vinyl Chloride	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
70. m&p-Xylene	U		µg/L	2.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
71. o-Xylene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 72. Xylenes	U		µg/L	3.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-42 GW**	Chain of Custody:	**147157**
Client Project Name:	**PSC - Detroit**	Sample No:	**26**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:42**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72301-026** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: BSB-42 GW**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	**24000**		µg/L	5000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 2. Acrylonitrile	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
3. Benzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
4. Bromobenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
5. Bromochloromethane	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
6. Bromodichloromethane	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
7. Bromoform	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
8. Bromomethane	U		µg/L	5000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
9. t-Butanol	U		µg/L	10000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
10. 2-Butanone	**8100**		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
11. n-Butylbenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
12. sec-Butylbenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
13. tert-Butylbenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
14. Carbon Disulfide	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
15. Carbon Tetrachloride	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
16. Chlorobenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
17. Chloroethane	U		µg/L	2000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
18. Chloroform	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
19. Chloromethane	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 20. Cyclohexane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
21. Dibromochloromethane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
23. Dibromomethane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
24. 1,2-Dichlorobenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
25. 1,3-Dichlorobenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
26. 1,4-Dichlorobenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
28. Dichlorodifluoromethane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
29. 1,1-Dichloroethane	**1100**		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
30. 1,2-Dichloroethane	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
31. 1,1-Dichloroethene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
32. cis-1,2-Dichloroethene	**2600**		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
33. trans-1,2-Dichloroethene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
34. 1,2-Dichloropropane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
35. cis-1,3-Dichloropropene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
36. trans-1,3-Dichloropropene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
37. Diethyl Ether	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-42 GW**	Chain of Custody:	**147157**
Client Project Name:	**PSC - Detroit**	Sample No:	**26**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:42**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72301-026** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: BSB-42 GW**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 38. Diisopropyl Ether	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 39. ETBE	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
40. Ethylbenzene	**18000**		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
41. Ethylene Dibromide	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 42. Hexachloroethane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
43. 2-Hexanone	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
44. Isopropylbenzene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
45. 4-Isopropyltoluene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
46. Methylene Chloride	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 47. 2-Methylnaphthalene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
48. 4-Methyl-2-pentanone	**95000**		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
49. MTBE	**20000**		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
50. Naphthalene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
51. n-Propylbenzene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
52. Styrene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 53. TAME	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
54. 1,1,1,2-Tetrachloroethane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
55. 1,1,2,2-Tetrachloroethane	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
56. Tetrachloroethene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 57. Tetrahydrofuran	**35000**		µg/L	2000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
58. Toluene	**94000**		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
59. 1,2,3-Trichlorobenzene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
60. 1,2,4-Trichlorobenzene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
61. 1,1,1-Trichloroethane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
62. 1,1,2-Trichloroethane	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
63. Trichloroethene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
64. Trichlorofluoromethane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
65. 1,2,3-Trichloropropane	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 66. 1,2,3-Trimethylbenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
67. 1,2,4-Trimethylbenzene	**880**		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
68. 1,3,5-Trimethylbenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
69. Vinyl Chloride	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
70. m&p-Xylene	**64000**		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
71. o-Xylene	**18000**		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 72. Xylenes	**82000**		µg/L	1500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-44 GW**	Chain of Custody:	**147157**
Client Project Name:	**PSC - Detroit**	Sample No:	**27**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**12:55**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72301-027** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: BSB-44 GW**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	**20000**		µg/L	5000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 2. Acrylonitrile	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
3. Benzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
4. Bromobenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
5. Bromochloromethane	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
6. Bromodichloromethane	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
7. Bromoform	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
8. Bromomethane	U		µg/L	5000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
9. t-Butanol	U		µg/L	10000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
10. 2-Butanone	**9100**		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
11. n-Butylbenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
12. sec-Butylbenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
13. tert-Butylbenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
14. Carbon Disulfide	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
15. Carbon Tetrachloride	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
16. Chlorobenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
17. Chloroethane	U		µg/L	2000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
18. Chloroform	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
19. Chloromethane	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 20. Cyclohexane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
21. Dibromochloromethane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
23. Dibromomethane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
24. 1,2-Dichlorobenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
25. 1,3-Dichlorobenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
26. 1,4-Dichlorobenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
28. Dichlorodifluoromethane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
29. 1,1-Dichloroethane	**1100**		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
30. 1,2-Dichloroethane	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
31. 1,1-Dichloroethene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
32. cis-1,2-Dichloroethene	**11000**		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
33. trans-1,2-Dichloroethene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
34. 1,2-Dichloropropane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
35. cis-1,3-Dichloropropene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
36. trans-1,3-Dichloropropene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
37. Diethyl Ether	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-44 GW**	Chain of Custody:	**147157**
Client Project Name:	**PSC - Detroit**	Sample No:	**27**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**12:55**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72301-027** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: BSB-44 GW**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 38. Diisopropyl Ether	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 39. ETBE	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
40. Ethylbenzene	**19000**		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
41. Ethylene Dibromide	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 42. Hexachloroethane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
43. 2-Hexanone	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
44. Isopropylbenzene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
45. 4-Isopropyltoluene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
46. Methylene Chloride	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 47. 2-Methylnaphthalene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
48. 4-Methyl-2-pentanone	**54000**		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
49. MTBE	**10000**		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
50. Naphthalene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
51. n-Propylbenzene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
52. Styrene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 53. TAME	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
54. 1,1,1,2-Tetrachloroethane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
55. 1,1,2,2-Tetrachloroethane	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
56. Tetrachloroethene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 57. Tetrahydrofuran	**22000**		µg/L	2000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
58. Toluene	**130000**		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
59. 1,2,3-Trichlorobenzene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
60. 1,2,4-Trichlorobenzene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
61. 1,1,1-Trichloroethane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
62. 1,1,2-Trichloroethane	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
63. Trichloroethene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
64. Trichlorofluoromethane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
65. 1,2,3-Trichloropropane	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 66. 1,2,3-Trimethylbenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
67. 1,2,4-Trimethylbenzene	**990**		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
68. 1,3,5-Trimethylbenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
69. Vinyl Chloride	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
70. m&p-Xylene	**68000**		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
71. o-Xylene	**17000**		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 72. Xylenes	**85000**		µg/L	1500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-45 GW**	Chain of Custody:	**147157**
Client Project Name:	**PSC - Detroit**	Sample No:	**28**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**12:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72301-028** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: BSB-45 GW**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	**17000**		µg/L	5000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 2. Acrylonitrile	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
3. Benzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
4. Bromobenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
5. Bromochloromethane	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
6. Bromodichloromethane	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
7. Bromoform	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
8. Bromomethane	U		µg/L	5000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
9. t-Butanol	U		µg/L	10000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
10. 2-Butanone	**2600**		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
11. n-Butylbenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
12. sec-Butylbenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
13. tert-Butylbenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
14. Carbon Disulfide	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
15. Carbon Tetrachloride	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
16. Chlorobenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
17. Chloroethane	U		µg/L	2000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
18. Chloroform	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
19. Chloromethane	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 20. Cyclohexane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
21. Dibromochloromethane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
23. Dibromomethane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
24. 1,2-Dichlorobenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
25. 1,3-Dichlorobenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
26. 1,4-Dichlorobenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
28. Dichlorodifluoromethane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
29. 1,1-Dichloroethane	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
30. 1,2-Dichloroethane	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
31. 1,1-Dichloroethene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
32. cis-1,2-Dichloroethene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
33. trans-1,2-Dichloroethene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
34. 1,2-Dichloropropane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
35. cis-1,3-Dichloropropene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
36. trans-1,3-Dichloropropene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
37. Diethyl Ether	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-45 GW**	Chain of Custody:	**147157**
Client Project Name:	**PSC - Detroit**	Sample No:	**28**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**12:10**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72301-028** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: BSB-45 GW**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 38. Diisopropyl Ether	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 39. ETBE	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
40. Ethylbenzene	**13000**		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
41. Ethylene Dibromide	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 42. Hexachloroethane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
43. 2-Hexanone	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
44. Isopropylbenzene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
45. 4-Isopropyltoluene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
46. Methylene Chloride	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 47. 2-Methylnaphthalene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
48. 4-Methyl-2-pentanone	**13000**		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
49. MTBE	**2900**		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
50. Naphthalene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
51. n-Propylbenzene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
52. Styrene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 53. TAME	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
54. 1,1,1,2-Tetrachloroethane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
55. 1,1,2,2-Tetrachloroethane	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
56. Tetrachloroethene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 57. Tetrahydrofuran	**12000**		µg/L	2000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
58. Toluene	**84000**		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
59. 1,2,3-Trichlorobenzene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
60. 1,2,4-Trichlorobenzene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
61. 1,1,1-Trichloroethane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
62. 1,1,2-Trichloroethane	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
63. Trichloroethene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
64. Trichlorofluoromethane	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
65. 1,2,3-Trichloropropane	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 66. 1,2,3-Trimethylbenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
67. 1,2,4-Trimethylbenzene	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
68. 1,3,5-Trimethylbenzene	U		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
69. Vinyl Chloride	U		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
70. m&p-Xylene	**43000**		µg/L	1000	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
71. o-Xylene	**12000**		µg/L	500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 72. Xylenes	**55000**		µg/L	1500	1000	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD

Fibertec environmental services

Analytical Laboratory Report
Laboratory Project Number: 72301
Laboratory Sample Number: 72301-029

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-46 GW**	Chain of Custody:	**147157**
Client Project Name:	**PSC - Detroit**	Sample No:	**29**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**12:34**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72301-029** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: BSB-46 GW**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/L	20	1.0	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 2. Acrylonitrile	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
3. Benzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
4. Bromobenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
5. Bromochloromethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
6. Bromodichloromethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
7. Bromoform	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
8. Bromomethane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
9. t-Butanol	U		µg/L	50	1.0	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
10. 2-Butanone	U		µg/L	5.0	1.0	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
11. n-Butylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
12. sec-Butylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
13. tert-Butylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
14. Carbon Disulfide	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
15. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
16. Chlorobenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
17. Chloroethane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
18. Chloroform	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
19. Chloromethane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 20. Cyclohexane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
21. Dibromochloromethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
23. Dibromomethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
24. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
25. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
26. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
28. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
29. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
30. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
31. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
32. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
33. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
34. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
35. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
36. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
37. Diethyl Ether	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-46 GW**	Chain of Custody:	**147157**
Client Project Name:	**PSC - Detroit**	Sample No:	**29**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**12:34**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72301-029** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: BSB-46 GW**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 38. Diisopropyl Ether	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 39. ETBE	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
40. Ethylbenzene	U		µg/L	1.0	1.0	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
41. Ethylene Dibromide	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 42. Hexachloroethane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
43. 2-Hexanone	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
44. Isopropylbenzene	U	L+	µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
45. 4-Isopropyltoluene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
46. Methylene Chloride	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 47. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
48. 4-Methyl-2-pentanone	U		µg/L	5.0	1.0	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
49. MTBE	**13**		µg/L	1.0	1.0	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
50. Naphthalene	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
51. n-Propylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
52. Styrene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 53. TAME	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
54. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
55. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
56. Tetrachloroethene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 57. Tetrahydrofuran	U		µg/L	5.0	1.0	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
58. Toluene	U		µg/L	1.0	1.0	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
59. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
60. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
61. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
62. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
63. Trichloroethene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
64. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
65. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 66. 1,2,3-Trimethylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
67. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
68. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
69. Vinyl Chloride	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
70. m&p-Xylene	U		µg/L	2.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
71. o-Xylene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
‡ 72. Xylenes	U		µg/L	3.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-47 GW**	Chain of Custody:	**147157**
Client Project Name:	**PSC - Detroit**	Sample No:	**30**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**16:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72301-030** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: BSB-47 GW**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	**36**		µg/L	20	1.0	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 2. Acrylonitrile	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
3. Benzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
4. Bromobenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
5. Bromochloromethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
6. Bromodichloromethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
7. Bromoform	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
8. Bromomethane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
9. t-Butanol	U		µg/L	50	1.0	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
10. 2-Butanone	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
11. n-Butylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
12. sec-Butylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
13. tert-Butylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
14. Carbon Disulfide	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
15. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
16. Chlorobenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
17. Chloroethane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
18. Chloroform	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
19. Chloromethane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 20. Cyclohexane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
21. Dibromochloromethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
23. Dibromomethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
24. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
25. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
26. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
28. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
29. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
30. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
31. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
32. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
33. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
34. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
35. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
36. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
37. Diethyl Ether	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-47 GW**	Chain of Custody:	**147157**
Client Project Name:	**PSC - Detroit**	Sample No:	**30**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**16:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72301-030** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: BSB-47 GW**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 38. Diisopropyl Ether	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 39. ETBE	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
40. Ethylbenzene	U		µg/L	1.0	1.0	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
41. Ethylene Dibromide	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 42. Hexachloroethane	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
43. 2-Hexanone	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
44. Isopropylbenzene	U	L+	µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
45. 4-Isopropyltoluene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
46. Methylene Chloride	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 47. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
48. 4-Methyl-2-pentanone	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
49. MTBE	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
50. Naphthalene	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
51. n-Propylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
52. Styrene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 53. TAME	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
54. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
55. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
56. Tetrachloroethene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 57. Tetrahydrofuran	U		µg/L	5.0	1.0	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
58. Toluene	**1.0**		µg/L	1.0	1.0	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
59. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
60. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
61. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
62. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
63. Trichloroethene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
64. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
65. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
‡ 66. 1,2,3-Trimethylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
67. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
68. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
69. Vinyl Chloride	U		µg/L	1.0	1.0	03/17/16	VH16C17B	03/18/16	VH16C17B	CCD
70. m&p-Xylene	**2.1**		µg/L	2.0	1.0	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
71. o-Xylene	**1.1**		µg/L	1.0	1.0	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD
‡ 72. Xylenes	**3.2**		µg/L	3.0	1.0	03/18/16	VB16C18A	03/18/16	VB16C18A	CCD

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-48 GW**	Chain of Custody:	**147157**
Client Project Name:	**PSC - Detroit**	Sample No:	**31**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**16:45**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72301-031** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: BSB-48 GW**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	**57**		µg/L	20	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
‡ 2. Acrylonitrile	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
3. Benzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
4. Bromobenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
5. Bromochloromethane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
6. Bromodichloromethane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
7. Bromoform	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
8. Bromomethane	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
9. t-Butanol	U		µg/L	50	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
10. 2-Butanone	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
11. n-Butylbenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
12. sec-Butylbenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
13. tert-Butylbenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
14. Carbon Disulfide	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
15. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
16. Chlorobenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
17. Chloroethane	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
18. Chloroform	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
19. Chloromethane	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
‡ 20. Cyclohexane	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
21. Dibromochloromethane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
23. Dibromomethane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
24. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
25. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
26. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
28. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
29. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
30. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
31. 1,1-Dichloroethene	**3.5**		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
32. cis-1,2-Dichloroethene	**2400**		µg/L	100	100	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
33. trans-1,2-Dichloroethene	**13**		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
34. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
35. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
36. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
37. Diethyl Ether	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**BSB-48 GW**	Chain of Custody:	**147157**
Client Project Name:	**PSC - Detroit**	Sample No:	**31**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**16:45**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72301-031** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: BSB-48 GW**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 38. Diisopropyl Ether	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
‡ 39. ETBE	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
40. Ethylbenzene	**6.8**		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
41. Ethylene Dibromide	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
‡ 42. Hexachloroethane	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
43. 2-Hexanone	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
44. Isopropylbenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
45. 4-Isopropyltoluene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
46. Methylene Chloride	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
‡ 47. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
48. 4-Methyl-2-pentanone	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
49. MTBE	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
50. Naphthalene	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
51. n-Propylbenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
52. Styrene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
‡ 53. TAME	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
54. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
55. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
56. Tetrachloroethene	**18**		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
‡ 57. Tetrahydrofuran	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
58. Toluene	**13**		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
59. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
60. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
61. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
62. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
63. Trichloroethene	**8.3**		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
64. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
65. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
‡ 66. 1,2,3-Trimethylbenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
67. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
68. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
69. Vinyl Chloride	**490**		µg/L	50	100	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
70. m&p-Xylene	**25**		µg/L	2.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
71. o-Xylene	**6.1**		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
‡ 72. Xylenes	**32**		µg/L	3.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**Dup-01 GW**	Chain of Custody:	**147157**
Client Project Name:	**PSC - Detroit**	Sample No:	**32**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**16:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72301-032** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: Dup-01 GW**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	**22**		µg/L	20	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
‡ 2. Acrylonitrile	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
3. Benzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
4. Bromobenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
5. Bromochloromethane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
6. Bromodichloromethane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
7. Bromoform	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
8. Bromomethane	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
9. t-Butanol	U		µg/L	50	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
10. 2-Butanone	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
11. n-Butylbenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
12. sec-Butylbenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
13. tert-Butylbenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
14. Carbon Disulfide	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
15. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
16. Chlorobenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
17. Chloroethane	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
18. Chloroform	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
19. Chloromethane	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
‡ 20. Cyclohexane	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
21. Dibromochloromethane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
23. Dibromomethane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
24. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
25. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
26. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
28. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
29. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
30. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
31. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
32. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
33. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
34. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
35. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
36. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
37. Diethyl Ether	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**Dup-01 GW**	Chain of Custody:	**147157**
Client Project Name:	**PSC - Detroit**	Sample No:	**32**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**16:30**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72301-032** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: Dup-01 GW**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 38. Diisopropyl Ether	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
‡ 39. ETBE	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
40. Ethylbenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
41. Ethylene Dibromide	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
‡ 42. Hexachloroethane	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
43. 2-Hexanone	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
44. Isopropylbenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
45. 4-Isopropyltoluene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
46. Methylene Chloride	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
‡ 47. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
48. 4-Methyl-2-pentanone	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
49. MTBE	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
50. Naphthalene	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
51. n-Propylbenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
52. Styrene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
‡ 53. TAME	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
54. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
55. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
56. Tetrachloroethene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
‡ 57. Tetrahydrofuran	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
58. Toluene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
59. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
60. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
61. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
62. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
63. Trichloroethene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
64. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
65. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
‡ 66. 1,2,3-Trimethylbenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
67. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
68. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
69. Vinyl Chloride	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
70. m&p-Xylene	U		µg/L	2.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
71. o-Xylene	U		µg/L	1.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD
‡ 72. Xylenes	U		µg/L	3.0	1.0	03/17/16	VB16C17A	03/17/16	VB16C17A	CCD

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**Trip Blank**	Chain of Custody:	**147157**
Client Project Name:	**PSC - Detroit**	Sample No:	**33**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Trip Blank**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72301-033** **Matrix: Trip Blank**
Method: EPA 5030B/EPA 8260B **Description: Trip Blank**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/L	20	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
‡ 2. Acrylonitrile	U		µg/L	5.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
3. Benzene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
4. Bromobenzene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
5. Bromochloromethane	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
6. Bromodichloromethane	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
7. Bromoform	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
8. Bromomethane	U		µg/L	5.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
9. t-Butanol	U		µg/L	50	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
10. 2-Butanone	U		µg/L	5.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
11. n-Butylbenzene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
12. sec-Butylbenzene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
13. tert-Butylbenzene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
14. Carbon Disulfide	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
15. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
16. Chlorobenzene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
17. Chloroethane	U		µg/L	5.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
18. Chloroform	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
19. Chloromethane	U		µg/L	5.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
‡ 20. Cyclohexane	U		µg/L	5.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
21. Dibromochloromethane	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	5.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
23. Dibromomethane	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
24. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
25. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
26. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
28. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
29. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
30. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
31. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
32. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
33. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
34. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
35. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
36. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
37. Diethyl Ether	U		µg/L	5.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**Trip Blank**	Chain of Custody:	**147157**
Client Project Name:	**PSC - Detroit**	Sample No:	**33**	Collect Date:	**03/15/16**
Client Project No:	**NA**	Sample Matrix:	**Trip Blank**	Collect Time:	**NA**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72301-033** **Matrix: Trip Blank**
Method: EPA 5030B/EPA 8260B **Description: Trip Blank**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 38. Diisopropyl Ether	U		µg/L	5.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
‡ 39. ETBE	U		µg/L	5.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
40. Ethylbenzene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
41. Ethylene Dibromide	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
‡ 42. Hexachloroethane	U		µg/L	5.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
43. 2-Hexanone	U		µg/L	5.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
44. Isopropylbenzene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
45. 4-Isopropyltoluene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
46. Methylene Chloride	U		µg/L	5.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
‡ 47. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
48. 4-Methyl-2-pentanone	U		µg/L	5.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
49. MTBE	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
50. Naphthalene	U		µg/L	5.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
51. n-Propylbenzene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
52. Styrene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
‡ 53. TAME	U		µg/L	5.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
54. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
55. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
56. Tetrachloroethene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
‡ 57. Tetrahydrofuran	U		µg/L	5.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
58. Toluene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
59. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
60. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
61. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
62. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
63. Trichloroethene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
64. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
65. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
‡ 66. 1,2,3-Trimethylbenzene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
67. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
68. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
69. Vinyl Chloride	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
70. m&p-Xylene	U		µg/L	2.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
71. o-Xylene	U		µg/L	1.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD
‡ 72. Xylenes	U		µg/L	3.0	1.0	03/21/16	VB16C21A	03/21/16	VB16C21A	CCD

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QC limits

Exception Summary:

***** : Duplicate analysis not within control limits.
L+ : Recovery in the associated laboratory sample (LCS) exceeds the upper control limit. Results may be biased high.

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number(s):

T104704518-16-5 (TX)

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Aqueous

Preparation Batch: VB16C17A **Preparation Date: 03/17/16**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/L	RL µg/L	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Acetone	U	20		44.2	50.0	88	70 - 147		84	5	20		MB-1	LCS-1	LCD-1
2.	Acrylonitrile	U	5.0		51.5	50.0	103	70 - 147		98	5	20		MB-1	LCS-1	LCD-1
3.	Benzene	U	1.0		52.4	50.0	105	70 - 147		105	0	20		MB-1	LCS-1	LCD-1
4.	Bromobenzene	U	1.0		50.6	50.0	101	70 - 147		103	2	20		MB-1	LCS-1	LCD-1
5.	Bromochloromethane	U	1.0		49.4	50.0	99	70 - 147		97	2	20		MB-1	LCS-1	LCD-1
6.	Bromodichloromethane	U	1.0		50.9	50.0	102	70 - 147		101	1	20		MB-1	LCS-1	LCD-1
7.	Bromoform	U	1.0		55.2	50.0	110	70 - 147		112	2	20		MB-1	LCS-1	LCD-1
8.	Bromomethane	U	5.0		53.0	50.0	106	70 - 147		106	0	20		MB-1	LCS-1	LCD-1
9.	t-Butanol	U	50		370	300	123	70 - 147		123	0	20		MB-1	LCS-1	LCD-1
10.	2-Butanone	U	5.0		50.4	50.0	101	70 - 147		100	1	20		MB-1	LCS-1	LCD-1
11.	n-Butylbenzene	U	1.0		55.9	50.0	112	70 - 147		113	1	20		MB-1	LCS-1	LCD-1
12.	sec-Butylbenzene	U	1.0		54.2	50.0	108	70 - 147		111	3	20		MB-1	LCS-1	LCD-1
13.	tert-Butylbenzene	U	1.0		51.8	50.0	104	70 - 147		104	0	20		MB-1	LCS-1	LCD-1
14.	Carbon Disulfide	U	1.0		49.5	50.0	99	70 - 147		97	2	20		MB-1	LCS-1	LCD-1
15.	Carbon Tetrachloride	U	1.0		54.7	50.0	109	70 - 140		111	2	20		MB-1	LCS-1	LCD-1
16.	Chlorobenzene	U	1.0		52.5	50.0	105	70 - 147		104	1	20		MB-1	LCS-1	LCD-1
17.	Chloroethane	U	5.0		50.4	50.0	101	70 - 147		94	7	20		MB-1	LCS-1	LCD-1
18.	Chloroform	U	1.0		53.6	50.0	107	76 - 138		104	3	20		MB-1	LCS-1	LCD-1
19.	Chloromethane	U	5.0		45.5	50.0	91	70 - 147		88	3	20		MB-1	LCS-1	LCD-1
20.	Cyclohexane	U	5.0		47.0	50.0	94	70 - 147		93	1	20		MB-1	LCS-1	LCD-1
21.	Dibromochloromethane	U	1.0		52.5	50.0	105	70 - 147		105	0	20		MB-1	LCS-1	LCD-1
22.	1,2-Dibromo-3-chloropropane	U	5.0		56.8	50.0	114	70 - 147		115	1	20		MB-1	LCS-1	LCD-1
23.	Dibromomethane	U	1.0		55.2	50.0	110	70 - 147		109	1	20		MB-1	LCS-1	LCD-1
24.	1,2-Dichlorobenzene	U	1.0		50.4	50.0	101	70 - 147		101	0	20		MB-1	LCS-1	LCD-1
25.	1,3-Dichlorobenzene	U	1.0		50.4	50.0	101	70 - 147		100	1	20		MB-1	LCS-1	LCD-1
26.	1,4-Dichlorobenzene	U	1.0		49.0	50.0	98	70 - 147		98	0	20		MB-1	LCS-1	LCD-1
27.	trans-1,4-Dichloro-2-butene	U	5.0		64.3	50.0	129	70 - 147		130	1	20		MB-1	LCS-1	LCD-1
28.	Dichlorodifluoromethane	U	5.0		47.9	50.0	96	70 - 147		94	2	20		MB-1	LCS-1	LCD-1
29.	1,1-Dichloroethane	U	1.0		48.1	50.0	96	70 - 147		94	2	20		MB-1	LCS-1	LCD-1
30.	1,2-Dichloroethane	U	1.0		50.4	50.0	101	70 - 147		99	2	20		MB-1	LCS-1	LCD-1
31.	1,1-Dichloroethene	U	1.0		51.3	50.0	103	76 - 147		100	3	20		MB-1	LCS-1	LCD-1
32.	cis-1,2-Dichloroethene	U	1.0		50.9	50.0	102	70 - 147		100	2	20		MB-1	LCS-1	LCD-1
33.	trans-1,2-Dichloroethene	U	1.0		50.3	50.0	101	70 - 147		98	3	20		MB-1	LCS-1	LCD-1
34.	1,2-Dichloropropane	U	1.0		50.7	50.0	101	76 - 147		102	1	20		MB-1	LCS-1	LCD-1
35.	cis-1,3-Dichloropropene	U	1.0		59.3	50.0	119	70 - 147		118	1	20		MB-1	LCS-1	LCD-1
36.	trans-1,3-Dichloropropene	U	1.0		53.9	50.0	108	70 - 147		108	0	20		MB-1	LCS-1	LCD-1
37.	Diethyl Ether	U	5.0		48.9	50.0	98	70 - 147		97	1	20		MB-1	LCS-1	LCD-1
38.	Diisopropyl Ether	U	5.0		47.0	50.0	94	70 - 147		93	1	20		MB-1	LCS-1	LCD-1
39.	ETBE	U	5.0		49.7	50.0	99	70 - 147		98	1	20		MB-1	LCS-1	LCD-1
40.	Ethylbenzene	U	1.0		52.1	50.0	104	76 - 147		105	1	20		MB-1	LCS-1	LCD-1
41.	Ethylene Dibromide	U	1.0		51.5	50.0	103	70 - 147		103	0	20		MB-1	LCS-1	LCD-1
42.	Hexachloroethane	U	5.0		49.3	50.0	99	70 - 147		101	2	20		MB-1	LCS-1	LCD-1
43.	2-Hexanone	U	5.0		49.1	50.0	98	70 - 147		98	0	20		MB-1	LCS-1	LCD-1
44.	Isopropylbenzene	U	1.0		54.3	50.0	109	70 - 147		108	1	20		MB-1	LCS-1	LCD-1
45.	4-Isopropyltoluene	U	1.0		57.7	50.0	115	70 - 147		116	1	20		MB-1	LCS-1	LCD-1
46.	Methylene Chloride	U	5.0		48.5	50.0	97	70 - 147		94	3	20		MB-1	LCS-1	LCD-1
47.	2-Methylnaphthalene	U	5.0		56.9	50.0	114	70 - 147		123	8	20		MB-1	LCS-1	LCD-1
48.	4-Methyl-2-pentanone	U	5.0		53.2	50.0	106	70 - 147		111	5	20		MB-1	LCS-1	LCD-1
49.	MTBE	U	1.0		50.6	50.0	101	70 - 147		101	0	20		MB-1	LCS-1	LCD-1
50.	Naphthalene	U	5.0		55.7	50.0	111	70 - 147		114	3	20		MB-1	LCS-1	LCD-1
51.	n-Propylbenzene	U	1.0		51.4	50.0	103	70 - 147		103	0	20		MB-1	LCS-1	LCD-1

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Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Aqueous

Preparation Batch: VB16C17A **Preparation Date: 03/17/16**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/L	RL µg/L	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
52.	Styrene	U	1.0		53.4	50.0	107	70 - 147		106	1	20		MB-1	LCS-1	LCD-1
53.	TAME	U	5.0		48.1	50.0	96	70 - 147		97	1	20		MB-1	LCS-1	LCD-1
54.	1,1,1,2-Tetrachloroethane	U	1.0		56.6	50.0	113	70 - 147		114	1	20		MB-1	LCS-1	LCD-1
55.	1,1,2,2-Tetrachloroethane	U	1.0		47.4	50.0	95	70 - 147		96	1	20		MB-1	LCS-1	LCD-1
56.	Tetrachloroethene	U	1.0		55.5	50.0	111	70 - 147		111	0	20		MB-1	LCS-1	LCD-1
57.	Tetrahydrofuran	U	5.0		50.7	50.0	101	70 - 147		95	6	20		MB-1	LCS-1	LCD-1
58.	Toluene	U	1.0		53.7	50.0	107	76 - 147		108	1	20		MB-1	LCS-1	LCD-1
59.	1,2,3-Trichlorobenzene	U	5.0		54.1	50.0	108	70 - 147		112	4	20		MB-1	LCS-1	LCD-1
60.	1,2,4-Trichlorobenzene	U	5.0		57.5	50.0	115	70 - 147		117	2	20		MB-1	LCS-1	LCD-1
61.	1,1,1-Trichloroethane	U	1.0		50.6	50.0	101	70 - 147		100	1	20		MB-1	LCS-1	LCD-1
62.	1,1,2-Trichloroethane	U	1.0		53.2	50.0	106	70 - 147		108	2	20		MB-1	LCS-1	LCD-1
63.	Trichloroethene	U	1.0		56.5	50.0	113	71 - 157		114	1	20		MB-1	LCS-1	LCD-1
64.	Trichlorofluoromethane	U	1.0		50.9	50.0	102	70 - 147		100	2	20		MB-1	LCS-1	LCD-1
65.	1,2,3-Trichloropropane	U	1.0		53.6	50.0	107	70 - 147		107	0	20		MB-1	LCS-1	LCD-1
66.	1,2,3-Trimethylbenzene	U	1.0		48.2	50.0	96	70 - 147		96	0	20		MB-1	LCS-1	LCD-1
67.	1,2,4-Trimethylbenzene	U	1.0		54.9	50.0	110	70 - 147		109	1	20		MB-1	LCS-1	LCD-1
68.	1,3,5-Trimethylbenzene	U	1.0		52.2	50.0	104	70 - 147		105	1	20		MB-1	LCS-1	LCD-1
69.	Vinyl Chloride	U	1.0		49.7	50.0	99	76 - 147		93	6	20		MB-1	LCS-1	LCD-1
70.	m&p-Xylene	U	2.0		107	100	107	70 - 147		106	1	20		MB-1	LCS-1	LCD-1
71.	o-Xylene	U	1.0		52.3	50.0	105	70 - 147		105	0	20		MB-1	LCS-1	LCD-1

		Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	System Monitoring Compounds (Surrogates):	Result µg/L	Spike µg/L	Rec. %	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Dibromofluoromethane(S)	48.7	50.0	97		48.9	50.0	98	80 - 120		96	2	20		MB-1	LCS-1	LCD-1
2.	1,2-Dichloroethane-d4(S)	45.6	50.0	91		47.8	50.0	96	52 - 150		90	6	20		MB-1	LCS-1	LCD-1
3.	Toluene-d8(S)	49.6	50.0	99		49.8	50.0	100	80 - 120		99	1	20		MB-1	LCS-1	LCD-1
4.	4-Bromofluorobenzene(S)	49.3	50.0	99		49.3	50.0	99	80 - 120		98	1	20		MB-1	LCS-1	LCD-1

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-1	VB16C17A	03/17/16 11:30
LCS-1	VB16C17A	03/17/16 11:57
LCD-1	VB16C17A	03/17/16 12:24

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

By Cheyanne Juntunen at 4:28 PM, Mar 23, 2016

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Aqueous

Preparation Batch: VB16C18A **Preparation Date: 03/18/16**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/L	RL µg/L	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Acetone	U	20		45.4	50.0	91	70 - 147		86	6	20		MB-4	LCS-4	LCD-4
2.	Acrylonitrile	U	500		52.1	50.0	104	70 - 147		96	8	20		MB-4	LCS-4	LCD-4
3.	Benzene	U	1000		53.3	50.0	107	70 - 147		109	2	20		MB-4	LCS-4	LCD-4
4.	Bromobenzene	U	1000		52.8	50.0	106	70 - 147		106	0	20		MB-4	LCS-4	LCD-4
5.	Bromochloromethane	U	1000		48.9	50.0	98	70 - 147		98	0	20		MB-4	LCS-4	LCD-4
6.	Bromodichloromethane	U	1000		51.5	50.0	103	70 - 147		104	1	20		MB-4	LCS-4	LCD-4
7.	Bromoform	U	1000		58.4	50.0	117	70 - 147		112	4	20		MB-4	LCS-4	LCD-4
8.	Bromomethane	U	5000		50.7	50.0	101	70 - 147		119	16	20		MB-4	LCS-4	LCD-4
9.	t-Butanol	U	50		437	300	146	70 - 147		119	20	20		MB-4	LCS-4	LCD-4
10.	2-Butanone	U	5.0		52.9	50.0	106	70 - 147		99	7	20		MB-4	LCS-4	LCD-4
11.	n-Butylbenzene	U	1000		58.3	50.0	117	70 - 147		116	1	20		MB-4	LCS-4	LCD-4
12.	sec-Butylbenzene	U	1000		56.5	50.0	113	70 - 147		114	1	20		MB-4	LCS-4	LCD-4
13.	tert-Butylbenzene	U	1000		53.9	50.0	108	70 - 147		108	0	20		MB-4	LCS-4	LCD-4
14.	Carbon Disulfide	U	1000		50.8	50.0	102	70 - 147		103	1	20		MB-4	LCS-4	LCD-4
15.	Carbon Tetrachloride	U	500		54.6	50.0	109	70 - 140		109	0	20		MB-4	LCS-4	LCD-4
16.	Chlorobenzene	U	1000		53.8	50.0	108	70 - 147		108	0	20		MB-4	LCS-4	LCD-4
17.	Chloroethane	U	2000		50.6	50.0	101	70 - 147		90	12	20		MB-4	LCS-4	LCD-4
18.	Chloroform	U	1000		53.5	50.0	107	76 - 138		108	1	20		MB-4	LCS-4	LCD-4
19.	Chloromethane	U	1000		44.5	50.0	89	70 - 147		92	3	20		MB-4	LCS-4	LCD-4
20.	Cyclohexane	U	500		43.0	50.0	86	70 - 147		87	1	20		MB-4	LCS-4	LCD-4
21.	Dibromochloromethane	U	500		53.8	50.0	108	70 - 147		108	0	20		MB-4	LCS-4	LCD-4
22.	1,2-Dibromo-3-chloropropane	U	500		61.5	50.0	123	70 - 147		118	4	20		MB-4	LCS-4	LCD-4
23.	Dibromomethane	U	500		56.1	50.0	112	70 - 147		113	1	20		MB-4	LCS-4	LCD-4
24.	1,2-Dichlorobenzene	U	1000		52.8	50.0	106	70 - 147		104	2	20		MB-4	LCS-4	LCD-4
25.	1,3-Dichlorobenzene	U	1000		52.1	50.0	104	70 - 147		104	0	20		MB-4	LCS-4	LCD-4
26.	1,4-Dichlorobenzene	U	1000		50.7	50.0	101	70 - 147		103	2	20		MB-4	LCS-4	LCD-4
27.	trans-1,4-Dichloro-2-butene	U	500		68.3	50.0	137	70 - 147		129	6	20		MB-4	LCS-4	LCD-4
28.	Dichlorodifluoromethane	U	500		45.5	50.0	91	70 - 147		93	2	20		MB-4	LCS-4	LCD-4
29.	1,1-Dichloroethane	U	1000		47.9	50.0	96	70 - 147		97	1	20		MB-4	LCS-4	LCD-4
30.	1,2-Dichloroethane	U	1000		50.3	50.0	101	70 - 147		100	1	20		MB-4	LCS-4	LCD-4
31.	1,1-Dichloroethene	U	1000		51.3	50.0	103	76 - 147		102	1	20		MB-4	LCS-4	LCD-4
32.	cis-1,2-Dichloroethene	U	1.0		50.7	50.0	101	70 - 147		101	0	20		MB-4	LCS-4	LCD-4
33.	trans-1,2-Dichloroethene	U	500		49.9	50.0	100	70 - 147		101	1	20		MB-4	LCS-4	LCD-4
34.	1,2-Dichloropropane	U	500		51.3	50.0	103	76 - 147		103	0	20		MB-4	LCS-4	LCD-4
35.	cis-1,3-Dichloropropene	U	1000		60.2	50.0	120	70 - 147		121	1	20		MB-4	LCS-4	LCD-4
36.	trans-1,3-Dichloropropene	U	1000		54.6	50.0	109	70 - 147		110	1	20		MB-4	LCS-4	LCD-4
37.	Diethyl Ether	U	1000		49.6	50.0	99	70 - 147		99	0	20		MB-4	LCS-4	LCD-4
38.	Diisopropyl Ether	U	1000		47.1	50.0	94	70 - 147		95	1	20		MB-4	LCS-4	LCD-4
39.	ETBE	U	1000		49.7	50.0	99	70 - 147		100	1	20		MB-4	LCS-4	LCD-4
40.	Ethylbenzene	U	1.0		53.1	50.0	106	76 - 147		108	2	20		MB-4	LCS-4	LCD-4
41.	Ethylene Dibromide	U	1000		53.0	50.0	106	70 - 147		105	1	20		MB-4	LCS-4	LCD-4
42.	Hexachloroethane	U	500		52.4	50.0	105	70 - 147		106	1	20		MB-4	LCS-4	LCD-4
43.	2-Hexanone	U	1000		51.4	50.0	103	70 - 147		97	6	20		MB-4	LCS-4	LCD-4
44.	Isopropylbenzene	U	500		55.0	50.0	110	70 - 147		111	1	20		MB-4	LCS-4	LCD-4
45.	4-Isopropyltoluene	U	500		59.7	50.0	119	70 - 147		120	1	20		MB-4	LCS-4	LCD-4
46.	Methylene Chloride	U	500		48.9	50.0	98	70 - 147		91	7	20		MB-4	LCS-4	LCD-4
47.	2-Methylnaphthalene	U	1000		61.8	50.0	124	70 - 147		125	1	20		MB-4	LCS-4	LCD-4
48.	4-Methyl-2-pentanone	U	5.0		56.1	50.0	112	70 - 147		110	2	20		MB-4	LCS-4	LCD-4
49.	MTBE	U	1.0		51.4	50.0	103	70 - 147		101	2	20		MB-4	LCS-4	LCD-4
50.	Naphthalene	U	1000		59.2	50.0	118	70 - 147		118	0	20		MB-4	LCS-4	LCD-4
51.	n-Propylbenzene	U	500		52.9	50.0	106	70 - 147		107	1	20		MB-4	LCS-4	LCD-4

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Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Aqueous

Preparation Batch: VB16C18A **Preparation Date: 03/18/16**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/L	RL µg/L	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
52.	Styrene	U	1000		54.8	50.0	110	70 - 147		110	0	20		MB-4	LCS-4	LCD-4
53.	TAME	U	1000		48.9	50.0	98	70 - 147		99	1	20		MB-4	LCS-4	LCD-4
54.	1,1,1,2-Tetrachloroethane	U	500		58.1	50.0	116	70 - 147		118	2	20		MB-4	LCS-4	LCD-4
55.	1,1,2,2-Tetrachloroethane	U	1000		49.7	50.0	99	70 - 147		98	1	20		MB-4	LCS-4	LCD-4
56.	Tetrachloroethene	U	500		57.0	50.0	114	70 - 147		116	2	20		MB-4	LCS-4	LCD-4
57.	Tetrahydrofuran	U	5.0		51.6	50.0	103	70 - 147		96	7	20		MB-4	LCS-4	LCD-4
58.	Toluene	U	1.0		54.8	50.0	110	76 - 147		111	1	20		MB-4	LCS-4	LCD-4
59.	1,2,3-Trichlorobenzene	U	500		57.0	50.0	114	70 - 147		115	1	20		MB-4	LCS-4	LCD-4
60.	1,2,4-Trichlorobenzene	U	500		61.7	50.0	123	70 - 147		121	2	20		MB-4	LCS-4	LCD-4
61.	1,1,1-Trichloroethane	U	500		50.4	50.0	101	70 - 147		102	1	20		MB-4	LCS-4	LCD-4
62.	1,1,2-Trichloroethane	U	1000		55.0	50.0	110	70 - 147		112	2	20		MB-4	LCS-4	LCD-4
63.	Trichloroethene	U	500		57.3	50.0	115	71 - 157		116	1	20		MB-4	LCS-4	LCD-4
64.	Trichlorofluoromethane	U	500		48.4	50.0	97	70 - 147		96	1	20		MB-4	LCS-4	LCD-4
65.	1,2,3-Trichloropropane	U	1000		56.5	50.0	113	70 - 147		111	2	20		MB-4	LCS-4	LCD-4
66.	1,2,3-Trimethylbenzene	U	1000		50.4	50.0	101	70 - 147		101	0	20		MB-4	LCS-4	LCD-4
67.	1,2,4-Trimethylbenzene	U	1.0		56.3	50.0	113	70 - 147		113	0	20		MB-4	LCS-4	LCD-4
68.	1,3,5-Trimethylbenzene	U	1000		53.9	50.0	108	70 - 147		108	0	20		MB-4	LCS-4	LCD-4
69.	Vinyl Chloride	U	500		50.0	50.0	100	76 - 147		93	7	20		MB-4	LCS-4	LCD-4
70.	m&p-Xylene	U	2.0		110	100	110	70 - 147		110	0	20		MB-4	LCS-4	LCD-4
71.	o-Xylene	U	1.0		53.7	50.0	107	70 - 147		108	1	20		MB-4	LCS-4	LCD-4

		Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	System Monitoring Compounds (Surrogates):	Result µg/L	Spike µg/L	Rec. %	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Dibromofluoromethane(S)	47.4	50.0	95		47.6	50.0	95	80 - 120		95	0	20		MB-4	LCS-4	LCD-4
2.	1,2-Dichloroethane-d4(S)	45.1	50.0	90		44.0	50.0	88	52 - 150		87	1	20		MB-4	LCS-4	LCD-4
3.	Toluene-d8(S)	50.0	50.0	100		49.2	50.0	98	80 - 120		99	1	20		MB-4	LCS-4	LCD-4
4.	4-Bromofluorobenzene(S)	48.3	50.0	97		48.4	50.0	97	80 - 120		97	0	20		MB-4	LCS-4	LCD-4

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-4	VB16C18A	03/18/16 09:34
LCS-4	VB16C18A	03/18/16 08:14
LCD-4	VB16C18A	03/18/16 08:41

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

By Cheyanne Juntunen at 4:28 PM, Mar 23, 2016

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Aqueous

Preparation Batch: VB16C21A **Preparation Date: 03/21/16**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
		Result	RL		Result	Spike	Rec.	LCL - UCL		Rec.	RPD	UCL				
	Parameter	µg/L	µg/L	Q	µg/L	µg/L	%	%	Q	%	%	%	Q	MB	LCS	LCD
1.	Acetone	U	20		41.2	50.0	82	70 - 147		89	8	20		MB-6	LCS-6	LCD-6
2.	Acrylonitrile	U	5.0		47.4	50.0	95	70 - 147		98	3	20		MB-6	LCS-6	LCD-6
3.	Benzene	U	1.0		50.6	50.0	101	70 - 147		100	1	20		MB-6	LCS-6	LCD-6
4.	Bromobenzene	U	1.0		52.8	50.0	106	70 - 147		105	1	20		MB-6	LCS-6	LCD-6
5.	Bromochloromethane	U	1.0		46.4	50.0	93	70 - 147		92	1	20		MB-6	LCS-6	LCD-6
6.	Bromodichloromethane	U	1.0		49.7	50.0	99	70 - 147		99	0	20		MB-6	LCS-6	LCD-6
7.	Bromoform	U	1.0		56.4	50.0	113	70 - 147		113	0	20		MB-6	LCS-6	LCD-6
8.	Bromomethane	U	5.0		46.0	50.0	92	70 - 147		92	0	20		MB-6	LCS-6	LCD-6
9.	t-Butanol	U	50		385	300	128	70 - 147		134	5	20		MB-6	LCS-6	LCD-6
10.	2-Butanone	U	5.0		49.0	50.0	98	70 - 147		99	1	20		MB-6	LCS-6	LCD-6
11.	n-Butylbenzene	U	1.0		58.4	50.0	117	70 - 147		116	1	20		MB-6	LCS-6	LCD-6
12.	sec-Butylbenzene	U	1.0		56.8	50.0	114	70 - 147		113	1	20		MB-6	LCS-6	LCD-6
13.	tert-Butylbenzene	U	1.0		53.7	50.0	107	70 - 147		107	0	20		MB-6	LCS-6	LCD-6
14.	Carbon Disulfide	U	1.0		48.3	50.0	97	70 - 147		95	2	20		MB-6	LCS-6	LCD-6
15.	Carbon Tetrachloride	U	1.0		55.3	50.0	111	70 - 140		108	3	20		MB-6	LCS-6	LCD-6
16.	Chlorobenzene	U	1.0		51.8	50.0	104	70 - 147		103	1	20		MB-6	LCS-6	LCD-6
17.	Chloroethane	U	5.0		44.0	50.0	88	70 - 147		90	2	20		MB-6	LCS-6	LCD-6
18.	Chloroform	U	1.0		51.1	50.0	102	76 - 138		101	1	20		MB-6	LCS-6	LCD-6
19.	Chloromethane	U	5.0		41.4	50.0	83	70 - 147		83	0	20		MB-6	LCS-6	LCD-6
20.	Cyclohexane	U	5.0		44.6	50.0	89	70 - 147		88	1	20		MB-6	LCS-6	LCD-6
21.	Dibromochloromethane	U	1.0		53.5	50.0	107	70 - 147		106	1	20		MB-6	LCS-6	LCD-6
22.	1,2-Dibromo-3-chloropropane	U	5.0		61.3	50.0	123	70 - 147		123	0	20		MB-6	LCS-6	LCD-6
23.	Dibromomethane	U	1.0		54.2	50.0	108	70 - 147		109	1	20		MB-6	LCS-6	LCD-6
24.	1,2-Dichlorobenzene	U	1.0		51.8	50.0	104	70 - 147		104	0	20		MB-6	LCS-6	LCD-6
25.	1,3-Dichlorobenzene	U	1.0		51.6	50.0	103	70 - 147		103	0	20		MB-6	LCS-6	LCD-6
26.	1,4-Dichlorobenzene	U	1.0		50.3	50.0	101	70 - 147		100	1	20		MB-6	LCS-6	LCD-6
27.	trans-1,4-Dichloro-2-butene	U	5.0		66.3	50.0	133	70 - 147		133	0	20		MB-6	LCS-6	LCD-6
28.	Dichlorodifluoromethane	U	5.0		52.4	50.0	105	70 - 147		101	4	20		MB-6	LCS-6	LCD-6
29.	1,1-Dichloroethane	U	1.0		44.7	50.0	89	70 - 147		89	0	20		MB-6	LCS-6	LCD-6
30.	1,2-Dichloroethane	U	1.0		50.2	50.0	100	70 - 147		100	0	20		MB-6	LCS-6	LCD-6
31.	1,1-Dichloroethene	U	1.0		49.3	50.0	99	76 - 147		98	1	20		MB-6	LCS-6	LCD-6
32.	cis-1,2-Dichloroethene	U	1.0		47.8	50.0	96	70 - 147		94	2	20		MB-6	LCS-6	LCD-6
33.	trans-1,2-Dichloroethene	U	1.0		47.2	50.0	94	70 - 147		93	1	20		MB-6	LCS-6	LCD-6
34.	1,2-Dichloropropane	U	1.0		48.5	50.0	97	76 - 147		96	1	20		MB-6	LCS-6	LCD-6
35.	cis-1,3-Dichloropropene	U	1.0		57.6	50.0	115	70 - 147		113	2	20		MB-6	LCS-6	LCD-6
36.	trans-1,3-Dichloropropene	U	1.0		52.6	50.0	105	70 - 147		105	0	20		MB-6	LCS-6	LCD-6
37.	Diethyl Ether	U	5.0		45.9	50.0	92	70 - 147		92	0	20		MB-6	LCS-6	LCD-6
38.	Diisopropyl Ether	U	5.0		43.0	50.0	86	70 - 147		87	1	20		MB-6	LCS-6	LCD-6
39.	ETBE	U	5.0		47.0	50.0	94	70 - 147		93	1	20		MB-6	LCS-6	LCD-6
40.	Ethylbenzene	U	1.0		51.5	50.0	103	76 - 147		103	0	20		MB-6	LCS-6	LCD-6
41.	Ethylene Dibromide	U	1.0		51.8	50.0	104	70 - 147		105	1	20		MB-6	LCS-6	LCD-6
42.	Hexachloroethane	U	5.0		52.3	50.0	105	70 - 147		104	1	20		MB-6	LCS-6	LCD-6
43.	2-Hexanone	U	5.0		51.2	50.0	102	70 - 147		102	0	20		MB-6	LCS-6	LCD-6
44.	Isopropylbenzene	U	1.0		54.3	50.0	109	70 - 147		109	0	20		MB-6	LCS-6	LCD-6
45.	4-Isopropyltoluene	U	1.0		59.7	50.0	119	70 - 147		120	1	20		MB-6	LCS-6	LCD-6
46.	Methylene Chloride	U	5.0		43.1	50.0	86	70 - 147		88	2	20		MB-6	LCS-6	LCD-6
47.	2-Methylnaphthalene	U	5.0		66.6	50.0	133	70 - 147		125	6	20		MB-6	LCS-6	LCD-6
48.	4-Methyl-2-pentanone	U	5.0		54.2	50.0	108	70 - 147		108	0	20		MB-6	LCS-6	LCD-6
49.	MTBE	U	1.0		48.6	50.0	97	70 - 147		96	1	20		MB-6	LCS-6	LCD-6
50.	Naphthalene	U	5.0		59.4	50.0	119	70 - 147		120	1	20		MB-6	LCS-6	LCD-6
51.	n-Propylbenzene	U	1.0		52.9	50.0	106	70 - 147		104	2	20		MB-6	LCS-6	LCD-6

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Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Aqueous

Preparation Batch: VB16C21A **Preparation Date: 03/21/16**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/L	RL µg/L	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
52.	Styrene	U	1.0		52.7	50.0	105	70 - 147		106	1	20		MB-6	LCS-6	LCD-6
53.	TAME	U	5.0		46.7	50.0	93	70 - 147		93	0	20		MB-6	LCS-6	LCD-6
54.	1,1,1,2-Tetrachloroethane	U	1.0		57.3	50.0	115	70 - 147		114	1	20		MB-6	LCS-6	LCD-6
55.	1,1,2,2-Tetrachloroethane	U	1.0		49.0	50.0	98	70 - 147		99	1	20		MB-6	LCS-6	LCD-6
56.	Tetrachloroethene	U	1.0		56.2	50.0	112	70 - 147		111	1	20		MB-6	LCS-6	LCD-6
57.	Tetrahydrofuran	U	5.0		47.3	50.0	95	70 - 147		97	2	20		MB-6	LCS-6	LCD-6
58.	Toluene	U	1.0		51.8	50.0	104	76 - 147		103	1	20		MB-6	LCS-6	LCD-6
59.	1,2,3-Trichlorobenzene	U	5.0		57.2	50.0	114	70 - 147		114	0	20		MB-6	LCS-6	LCD-6
60.	1,2,4-Trichlorobenzene	U	5.0		60.1	50.0	120	70 - 147		120	0	20		MB-6	LCS-6	LCD-6
61.	1,1,1-Trichloroethane	U	1.0		50.2	50.0	100	70 - 147		98	2	20		MB-6	LCS-6	LCD-6
62.	1,1,2-Trichloroethane	U	1.0		53.1	50.0	106	70 - 147		107	1	20		MB-6	LCS-6	LCD-6
63.	Trichloroethene	U	1.0		54.8	50.0	110	71 - 157		108	2	20		MB-6	LCS-6	LCD-6
64.	Trichlorofluoromethane	U	1.0		50.6	50.0	101	70 - 147		101	0	20		MB-6	LCS-6	LCD-6
65.	1,2,3-Trichloropropane	U	1.0		55.4	50.0	111	70 - 147		111	0	20		MB-6	LCS-6	LCD-6
66.	1,2,3-Trimethylbenzene	U	1.0		49.7	50.0	99	70 - 147		99	0	20		MB-6	LCS-6	LCD-6
67.	1,2,4-Trimethylbenzene	U	1.0		56.1	50.0	112	70 - 147		111	1	20		MB-6	LCS-6	LCD-6
68.	1,3,5-Trimethylbenzene	U	1.0		53.5	50.0	107	70 - 147		105	2	20		MB-6	LCS-6	LCD-6
69.	Vinyl Chloride	U	1.0		46.0	50.0	92	76 - 147		93	1	20		MB-6	LCS-6	LCD-6
70.	m&p-Xylene	U	2.0		106	100	106	70 - 147		106	0	20		MB-6	LCS-6	LCD-6
71.	o-Xylene	U	1.0		52.3	50.0	105	70 - 147		105	0	20		MB-6	LCS-6	LCD-6

		Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	System Monitoring Compounds (Surrogates):	Result µg/L	Spike µg/L	Rec. %	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Dibromofluoromethane(S)	46.8	50.0	94		48.0	50.0	96	80 - 120		97	1	20		MB-6	LCS-6	LCD-6
2.	1,2-Dichloroethane-d4(S)	46.6	50.0	93		47.3	50.0	95	52 - 150		97	2	20		MB-6	LCS-6	LCD-6
3.	Toluene-d8(S)	49.3	50.0	99		49.5	50.0	99	80 - 120		99	0	20		MB-6	LCS-6	LCD-6
4.	4-Bromofluorobenzene(S)	48.8	50.0	98		49.5	50.0	99	80 - 120		99	0	20		MB-6	LCS-6	LCD-6

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-6	VB16C21A	03/21/16 12:05
LCS-6	VB16C21A	03/21/16 10:44
LCD-6	VB16C21A	03/21/16 11:11

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

By Cheyanne Juntunen at 4:28 PM, Mar 23, 2016

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Aqueous

Preparation Batch: VH16C17B **Preparation Date: 03/17/16**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
		Result	RL		Result	Spike	Rec.	LCL - UCL		Rec.	RPD	UCL				
	Parameter	µg/L	µg/L	Q	µg/L	µg/L	%	%	Q	%	%	%	Q	MB	LCS	LCD
1.	Acetone	U	20		48.9	50.0	98	70 - 147		93	5	20		MB-2	LCS-2	LCD-2
2.	Acrylonitrile	U	5.0		55.0	50.0	110	70 - 147		104	6	20		MB-2	LCS-2	LCD-2
3.	Benzene	U	1.0		52.6	50.0	105	70 - 147		102	3	20		MB-2	LCS-2	LCD-2
4.	Bromobenzene	U	1.0		41.3	50.0	83	70 - 147		79	5	20		MB-2	LCS-2	LCD-2
5.	Bromochloromethane	U	1.0		52.9	50.0	106	70 - 147		101	5	20		MB-2	LCS-2	LCD-2
6.	Bromodichloromethane	U	1.0		50.2	50.0	100	70 - 147		97	3	20		MB-2	LCS-2	LCD-2
7.	Bromoform	U	1.0		51.0	50.0	102	70 - 147		99	3	20		MB-2	LCS-2	LCD-2
8.	Bromomethane	U	5.0		46.0	50.0	92	70 - 147		92	0	20		MB-2	LCS-2	LCD-2
9.	t-Butanol	U	50		378	300	126	70 - 147		119	6	20		MB-2	LCS-2	LCD-2
10.	2-Butanone	U	5.0		54.8	50.0	110	70 - 147		104	6	20		MB-2	LCS-2	LCD-2
11.	n-Butylbenzene	U	1.0		45.5	50.0	91	70 - 147		86	6	20		MB-2	LCS-2	LCD-2
12.	sec-Butylbenzene	U	1.0		43.9	50.0	88	70 - 147		85	3	20		MB-2	LCS-2	LCD-2
13.	tert-Butylbenzene	U	1.0		47.3	50.0	95	70 - 147		91	4	20		MB-2	LCS-2	LCD-2
14.	Carbon Disulfide	U	1.0		48.1	50.0	96	70 - 147		93	3	20		MB-2	LCS-2	LCD-2
15.	Carbon Tetrachloride	U	1.0		49.5	50.0	99	70 - 140		95	4	20		MB-2	LCS-2	LCD-2
16.	Chlorobenzene	U	1.0		49.1	50.0	98	70 - 147		94	4	20		MB-2	LCS-2	LCD-2
17.	Chloroethane	U	5.0		46.5	50.0	93	70 - 147		89	4	20		MB-2	LCS-2	LCD-2
18.	Chloroform	U	1.0		52.5	50.0	105	76 - 138		100	5	20		MB-2	LCS-2	LCD-2
19.	Chloromethane	U	5.0		43.3	50.0	87	70 - 147		84	4	20		MB-2	LCS-2	LCD-2
20.	Cyclohexane	U	5.0		45.7	50.0	91	70 - 147		89	2	20		MB-2	LCS-2	LCD-2
21.	Dibromochloromethane	U	1.0		51.4	50.0	103	70 - 147		97	6	20		MB-2	LCS-2	LCD-2
22.	1,2-Dibromo-3-chloropropane	U	5.0		37.2	50.0	74	70 - 147		71	4	20		MB-2	LCS-2	LCD-2
23.	Dibromomethane	U	1.0		52.4	50.0	105	70 - 147		99	6	20		MB-2	LCS-2	LCD-2
24.	1,2-Dichlorobenzene	U	1.0		56.9	50.0	114	70 - 147		105	8	20		MB-2	LCS-2	LCD-2
25.	1,3-Dichlorobenzene	U	1.0		54.7	50.0	109	70 - 147		104	5	20		MB-2	LCS-2	LCD-2
26.	1,4-Dichlorobenzene	U	1.0		48.7	50.0	97	70 - 147		95	2	20		MB-2	LCS-2	LCD-2
27.	trans-1,4-Dichloro-2-butene	U	5.0		41.0	50.0	82	70 - 147		78	5	20		MB-2	LCS-2	LCD-2
28.	Dichlorodifluoromethane	U	5.0		49.0	50.0	98	70 - 147		94	4	20		MB-2	LCS-2	LCD-2
29.	1,1-Dichloroethane	U	1.0		49.1	50.0	98	70 - 147		94	4	20		MB-2	LCS-2	LCD-2
30.	1,2-Dichloroethane	U	1.0		49.7	50.0	99	70 - 147		96	3	20		MB-2	LCS-2	LCD-2
31.	1,1-Dichloroethene	U	1.0		49.4	50.0	99	76 - 147		94	5	20		MB-2	LCS-2	LCD-2
32.	cis-1,2-Dichloroethene	U	1.0		53.2	50.0	106	70 - 147		102	4	20		MB-2	LCS-2	LCD-2
33.	trans-1,2-Dichloroethene	U	1.0		49.5	50.0	99	70 - 147		96	3	20		MB-2	LCS-2	LCD-2
34.	1,2-Dichloropropane	U	1.0		52.2	50.0	104	76 - 147		101	3	20		MB-2	LCS-2	LCD-2
35.	cis-1,3-Dichloropropene	U	1.0		53.4	50.0	107	70 - 147		103	4	20		MB-2	LCS-2	LCD-2
36.	trans-1,3-Dichloropropene	U	1.0		51.6	50.0	103	70 - 147		98	5	20		MB-2	LCS-2	LCD-2
37.	Diethyl Ether	U	5.0		48.3	50.0	97	70 - 147		93	4	20		MB-2	LCS-2	LCD-2
38.	Diisopropyl Ether	U	5.0		49.8	50.0	100	70 - 147		94	6	20		MB-2	LCS-2	LCD-2
39.	ETBE	U	5.0		48.9	50.0	98	70 - 147		94	4	20		MB-2	LCS-2	LCD-2
40.	Ethylbenzene	U	1.0		52.6	50.0	105	76 - 147		101	4	20		MB-2	LCS-2	LCD-2
41.	Ethylene Dibromide	U	1.0		52.8	50.0	106	70 - 147		101	5	20		MB-2	LCS-2	LCD-2
42.	Hexachloroethane	U	5.0		44.7	50.0	89	70 - 147		83	7	20		MB-2	LCS-2	LCD-2
43.	2-Hexanone	U	5.0		53.8	50.0	108	70 - 147		99	9	20		MB-2	LCS-2	LCD-2
44.	Isopropylbenzene	U	1.0		74.0	50.0	148	70 - 147	*	131	12	20		MB-2	LCS-2	LCD-2
45.	4-Isopropyltoluene	U	1.0		50.5	50.0	101	70 - 147		97	4	20		MB-2	LCS-2	LCD-2
46.	Methylene Chloride	U	5.0		50.2	50.0	100	70 - 147		95	5	20		MB-2	LCS-2	LCD-2
47.	2-Methylnaphthalene	U	5.0		42.8	50.0	86	70 - 147		91	6	20		MB-2	LCS-2	LCD-2
48.	4-Methyl-2-pentanone	U	5.0		50.9	50.0	102	70 - 147		100	2	20		MB-2	LCS-2	LCD-2
49.	MTBE	U	1.0		48.4	50.0	97	70 - 147		92	5	20		MB-2	LCS-2	LCD-2
50.	Naphthalene	U	5.0		50.9	50.0	102	70 - 147		99	3	20		MB-2	LCS-2	LCD-2
51.	n-Propylbenzene	U	1.0		40.2	50.0	80	70 - 147		77	4	20		MB-2	LCS-2	LCD-2

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Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Aqueous

Preparation Batch: VH16C17B **Preparation Date: 03/17/16**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/L	RL µg/L	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
52.	Styrene	U	1.0		52.1	50.0	104	70 - 147		101	3	20		MB-2	LCS-2	LCD-2
53.	TAME	U	5.0		46.2	50.0	92	70 - 147		88	4	20		MB-2	LCS-2	LCD-2
54.	1,1,1,2-Tetrachloroethane	U	1.0		53.8	50.0	108	70 - 147		104	4	20		MB-2	LCS-2	LCD-2
55.	1,1,2,2-Tetrachloroethane	U	1.0		44.6	50.0	89	70 - 147		84	6	20		MB-2	LCS-2	LCD-2
56.	Tetrachloroethene	U	1.0		50.5	50.0	101	70 - 147		98	3	20		MB-2	LCS-2	LCD-2
57.	Tetrahydrofuran	U	5.0		53.2	50.0	106	70 - 147		99	7	20		MB-2	LCS-2	LCD-2
58.	Toluene	U	1.0		53.1	50.0	106	76 - 147		102	4	20		MB-2	LCS-2	LCD-2
59.	1,2,3-Trichlorobenzene	U	5.0		55.4	50.0	111	70 - 147		109	2	20		MB-2	LCS-2	LCD-2
60.	1,2,4-Trichlorobenzene	U	5.0		54.6	50.0	109	70 - 147		106	3	20		MB-2	LCS-2	LCD-2
61.	1,1,1-Trichloroethane	U	1.0		50.3	50.0	101	70 - 147		97	4	20		MB-2	LCS-2	LCD-2
62.	1,1,2-Trichloroethane	U	1.0		54.7	50.0	109	70 - 147		105	4	20		MB-2	LCS-2	LCD-2
63.	Trichloroethene	U	1.0		53.1	50.0	106	71 - 157		103	3	20		MB-2	LCS-2	LCD-2
64.	Trichlorofluoromethane	U	1.0		46.3	50.0	93	70 - 147		88	6	20		MB-2	LCS-2	LCD-2
65.	1,2,3-Trichloropropane	U	1.0		43.3	50.0	87	70 - 147		84	4	20		MB-2	LCS-2	LCD-2
66.	1,2,3-Trimethylbenzene	U	1.0		41.4	50.0	83	70 - 147		79	5	20		MB-2	LCS-2	LCD-2
67.	1,2,4-Trimethylbenzene	U	1.0		44.7	50.0	89	70 - 147		85	5	20		MB-2	LCS-2	LCD-2
68.	1,3,5-Trimethylbenzene	U	1.0		43.8	50.0	88	70 - 147		83	6	20		MB-2	LCS-2	LCD-2
69.	Vinyl Chloride	U	1.0		47.7	50.0	95	76 - 147		92	3	20		MB-2	LCS-2	LCD-2
70.	m&p-Xylene	U	2.0		109	100	109	70 - 147		105	4	20		MB-2	LCS-2	LCD-2
71.	o-Xylene	U	1.0		55.5	50.0	111	70 - 147		107	4	20		MB-2	LCS-2	LCD-2

		Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	System Monitoring Compounds (Surrogates):	Result µg/L	Spike µg/L	Rec. %	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Dibromofluoromethane(S)	49.6	50.0	99		49.3	50.0	99	80 - 120		98	1	20		MB-2	LCS-2	LCD-2
2.	1,2-Dichloroethane-d4(S)	49.5	50.0	99		50.6	50.0	101	52 - 150		101	0	20		MB-2	LCS-2	LCD-2
3.	Toluene-d8(S)	50.5	50.0	101		50.6	50.0	101	80 - 120		102	1	20		MB-2	LCS-2	LCD-2
4.	4-Bromofluorobenzene(S)	51.2	50.0	102		50.7	50.0	101	80 - 120		103	2	20		MB-2	LCS-2	LCD-2

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-2	VH16C17B	03/17/16 23:55
LCS-2	VH16C17B	03/17/16 22:45
LCD-2	VH16C17B	03/17/16 23:09

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

By Cheyanne Juntunen at 4:28 PM, Mar 23, 2016

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Soil/Solid

Preparation Batch: VH16C21A **Preparation Date: 03/21/16**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
		Result	RL		Result	Spike	Rec.	LCL - UCL		Rec.	RPD	UCL				
	Parameter	µg/kg	µg/kg	Q	µg/kg	µg/kg	%	%	Q	%	%	%	Q	MB	LCS	LCD
1.	Acetone	U	1000		2,578	2,500	103	70 - 150		110	7	20		MB-7	LCS-7	LCD-7
2.	Acrylonitrile	U	250		2,582	2,500	103	70 - 134		112	8	20		MB-7	LCS-7	LCD-7
3.	Benzene	U	50		2,716	2,500	109	70 - 134		103	6	20		MB-7	LCS-7	LCD-7
4.	Bromobenzene	U	50		2,692	2,500	108	70 - 134		103	5	20		MB-7	LCS-7	LCD-7
5.	Bromochloromethane	U	50		2,581	2,500	103	70 - 134		101	2	20		MB-7	LCS-7	LCD-7
6.	Bromodichloromethane	U	50		2,636	2,500	105	70 - 134		99	6	20		MB-7	LCS-7	LCD-7
7.	Bromoform	U	50		2,523	2,500	101	70 - 134		101	0	20		MB-7	LCS-7	LCD-7
8.	Bromomethane	U	200		2,996	2,500	120	70 - 134		121	1	20		MB-7	LCS-7	LCD-7
9.	t-Butanol	U	2500		15,242	15,000	102	70 - 134		121	17	20		MB-7	LCS-7	LCD-7
10.	2-Butanone	U	250		2,315	2,500	93	70 - 150		106	13	20		MB-7	LCS-7	LCD-7
11.	n-Butylbenzene	U	50		2,807	2,500	112	70 - 134		106	6	20		MB-7	LCS-7	LCD-7
12.	sec-Butylbenzene	U	50		2,877	2,500	115	70 - 134		110	4	20		MB-7	LCS-7	LCD-7
13.	tert-Butylbenzene	U	50		2,655	2,500	106	70 - 134		101	5	20		MB-7	LCS-7	LCD-7
14.	Carbon Disulfide	U	50		2,729	2,500	109	70 - 134		99	10	20		MB-7	LCS-7	LCD-7
15.	Carbon Tetrachloride	U	50		2,731	2,500	109	70 - 134		102	7	20		MB-7	LCS-7	LCD-7
16.	Chlorobenzene	U	50		2,386	2,500	95	70 - 134		93	2	20		MB-7	LCS-7	LCD-7
17.	Chloroethane	U	250		2,678	2,500	107	70 - 134		95	12	20		MB-7	LCS-7	LCD-7
18.	Chloroform	U	50		2,772	2,500	111	75 - 134		106	5	20		MB-7	LCS-7	LCD-7
19.	Chloromethane	U	250		2,807	2,500	112	70 - 134		110	2	20		MB-7	LCS-7	LCD-7
20.	Cyclohexane	U	250		2,613	2,500	105	70 - 134		101	4	20		MB-7	LCS-7	LCD-7
21.	Dibromochloromethane	U	50		2,478	2,500	99	70 - 134		95	4	20		MB-7	LCS-7	LCD-7
22.	1,2-Dibromo-3-chloropropane	U	250		2,415	2,500	97	70 - 134		104	7	20		MB-7	LCS-7	LCD-7
23.	Dibromomethane	U	50		2,556	2,500	102	70 - 134		99	3	20		MB-7	LCS-7	LCD-7
24.	1,2-Dichlorobenzene	U	50		2,509	2,500	100	70 - 134		98	2	20		MB-7	LCS-7	LCD-7
25.	1,3-Dichlorobenzene	U	50		2,552	2,500	102	70 - 134		100	2	20		MB-7	LCS-7	LCD-7
26.	1,4-Dichlorobenzene	U	50		2,294	2,500	92	70 - 134		88	4	20		MB-7	LCS-7	LCD-7
27.	trans-1,4-Dichloro-2-butene	U	250		2,666	2,500	107	70 - 134		108	1	20		MB-7	LCS-7	LCD-7
28.	Dichlorodifluoromethane	U	250		2,953	2,500	118	70 - 134		111	6	20		MB-7	LCS-7	LCD-7
29.	1,1-Dichloroethane	U	50		2,514	2,500	101	70 - 134		97	4	20		MB-7	LCS-7	LCD-7
30.	1,2-Dichloroethane	U	50		2,533	2,500	101	70 - 134		97	4	20		MB-7	LCS-7	LCD-7
31.	1,1-Dichloroethene	U	50		2,636	2,500	105	75 - 134		97	8	20		MB-7	LCS-7	LCD-7
32.	cis-1,2-Dichloroethene	U	50		2,627	2,500	105	70 - 134		101	4	20		MB-7	LCS-7	LCD-7
33.	trans-1,2-Dichloroethene	U	50		2,636	2,500	105	70 - 134		99	6	20		MB-7	LCS-7	LCD-7
34.	1,2-Dichloropropane	U	50		2,514	2,500	101	75 - 134		100	1	20		MB-7	LCS-7	LCD-7
35.	cis-1,3-Dichloropropene	U	50		2,687	2,500	107	70 - 134		102	5	20		MB-7	LCS-7	LCD-7
36.	trans-1,3-Dichloropropene	U	50		2,530	2,500	101	70 - 134		98	3	20		MB-7	LCS-7	LCD-7
37.	Diethyl Ether	U	200		2,549	2,500	102	70 - 134		96	6	20		MB-7	LCS-7	LCD-7
38.	Diisopropyl Ether	U	250		2,476	2,500	99	70 - 134		98	1	20		MB-7	LCS-7	LCD-7
39.	ETBE	U	250		2,426	2,500	97	70 - 134		96	1	20		MB-7	LCS-7	LCD-7
40.	Ethylbenzene	U	50		2,661	2,500	106	75 - 134		103	3	20		MB-7	LCS-7	LCD-7
41.	Ethylene Dibromide	U	50		2,490	2,500	100	70 - 134		100	0	20		MB-7	LCS-7	LCD-7
42.	Hexachloroethane	U	250		2,622	2,500	105	70 - 134		94	11	20		MB-7	LCS-7	LCD-7
43.	2-Hexanone	U	250		2,120	2,500	85	70 - 150		97	13	20		MB-7	LCS-7	LCD-7
44.	Isopropylbenzene	U	50		2,698	2,500	108	70 - 134		106	2	20		MB-7	LCS-7	LCD-7
45.	4-Isopropyltoluene	U	50		2,792	2,500	112	70 - 134		106	6	20		MB-7	LCS-7	LCD-7
46.	Methylene Chloride	U	100		2,533	2,500	101	70 - 134		96	5	20		MB-7	LCS-7	LCD-7
47.	2-Methylnaphthalene	U	250		2,688	2,500	108	70 - 134		120	11	20		MB-7	LCS-7	LCD-7
48.	4-Methyl-2-pentanone	U	250		2,305	2,500	92	70 - 134		107	15	20		MB-7	LCS-7	LCD-7
49.	MTBE	U	50		2,360	2,500	94	70 - 134		95	1	20		MB-7	LCS-7	LCD-7
50.	Naphthalene	U	250		2,622	2,500	105	70 - 134		114	8	20		MB-7	LCS-7	LCD-7
51.	n-Propylbenzene	U	50		2,527	2,500	101	70 - 134		97	4	20		MB-7	LCS-7	LCD-7

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Soil/Solid

Preparation Batch: VH16C21A **Preparation Date: 03/21/16**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/kg	RL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
52.	Styrene	U	50		2,543	2,500	102	70 - 134		100	2	20		MB-7	LCS-7	LCD-7
53.	TAME	U	250		2,255	2,500	90	70 - 134		90	0	20		MB-7	LCS-7	LCD-7
54.	1,1,1,2-Tetrachloroethane	U	50		2,810	2,500	112	70 - 134		110	2	20		MB-7	LCS-7	LCD-7
55.	1,1,2,2-Tetrachloroethane	U	50		2,247	2,500	90	70 - 134		82	9	20		MB-7	LCS-7	LCD-7
56.	Tetrachloroethene	U	50		2,549	2,500	102	70 - 134		97	5	20		MB-7	LCS-7	LCD-7
57.	Tetrahydrofuran	U	250		2,318	2,500	93	70 - 134		104	11	20		MB-7	LCS-7	LCD-7
58.	Toluene	U	50		2,642	2,500	106	75 - 134		102	4	20		MB-7	LCS-7	LCD-7
59.	1,2,3-Trichlorobenzene	U	250		2,806	2,500	112	70 - 134		108	4	20		MB-7	LCS-7	LCD-7
60.	1,2,4-Trichlorobenzene	U	250		2,731	2,500	109	70 - 134		107	2	20		MB-7	LCS-7	LCD-7
61.	1,1,1-Trichloroethane	U	50		2,643	2,500	106	70 - 134		102	4	20		MB-7	LCS-7	LCD-7
62.	1,1,2-Trichloroethane	U	50		2,574	2,500	103	70 - 134		104	1	20		MB-7	LCS-7	LCD-7
63.	Trichloroethene	U	50		2,745	2,500	110	70 - 134		105	5	20		MB-7	LCS-7	LCD-7
64.	Trichlorofluoromethane	U	50		2,430	2,500	97	70 - 134		88	10	20		MB-7	LCS-7	LCD-7
65.	1,2,3-Trichloropropane	U	50		2,325	2,500	93	70 - 134		96	3	20		MB-7	LCS-7	LCD-7
66.	1,2,3-Trimethylbenzene	U	50		2,535	2,500	101	70 - 134		97	4	20		MB-7	LCS-7	LCD-7
67.	1,2,4-Trimethylbenzene	U	50		2,825	2,500	113	70 - 134		108	5	20		MB-7	LCS-7	LCD-7
68.	1,3,5-Trimethylbenzene	U	50		2,711	2,500	108	70 - 134		104	4	20		MB-7	LCS-7	LCD-7
69.	Vinyl Chloride	U	50		2,902	2,500	116	75 - 134		112	4	20		MB-7	LCS-7	LCD-7
70.	m&p-Xylene	U	100		5,410	5,000	108	70 - 134		105	3	20		MB-7	LCS-7	LCD-7
71.	o-Xylene	U	50		2,572	2,500	103	70 - 134		101	2	20		MB-7	LCS-7	LCD-7

		Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	System Monitoring Compounds (Surrogates):	Result µg/kg	Spike µg/kg	Rec. %	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Dibromofluoromethane(S)	2,550	2,500	102		2,497	2,500	100	75 - 125		101	1	20		MB-7	LCS-7	LCD-7
2.	1,2-Dichloroethane-d4(S)	2,403	2,500	96		2,517	2,500	101	62 - 134		95	6	20		MB-7	LCS-7	LCD-7
3.	Toluene-d8(S)	2,531	2,500	101		2,475	2,500	99	50 - 150		101	2	20		MB-7	LCS-7	LCD-7
4.	4-Bromofluorobenzene(S)	2,493	2,500	100		2,491	2,500	100	64 - 136		101	1	20		MB-7	LCS-7	LCD-7

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-7	VH16C21A	03/21/16 12:37
LCS-7	VH16C21A	03/21/16 11:23
LCD-7	VH16C21A	03/21/16 11:48

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

By Cheyanne Juntunen at 4:28 PM, Mar 23, 2016

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Soil/Solid

Preparation Batch: VI16C22A **Preparation Date: 03/22/16**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/kg	RL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Acetone	U	1000		2,330	2,500	93	70 - 150		122	27	20	*	MB-9	LCS-9	LCD-9
2.	Acrylonitrile	U	250		2,496	2,500	100	70 - 134		94	6	20		MB-9	LCS-9	LCD-9
3.	Benzene	U	50		2,535	2,500	101	70 - 134		98	3	20		MB-9	LCS-9	LCD-9
4.	Bromobenzene	U	50		2,655	2,500	106	70 - 134		102	4	20		MB-9	LCS-9	LCD-9
5.	Bromochloromethane	U	50		2,568	2,500	103	70 - 134		98	5	20		MB-9	LCS-9	LCD-9
6.	Bromodichloromethane	U	50		2,523	2,500	101	70 - 134		99	2	20		MB-9	LCS-9	LCD-9
7.	Bromoform	U	100		2,746	2,500	110	70 - 134		106	4	20		MB-9	LCS-9	LCD-9
8.	Bromomethane	U	200		2,757	2,500	110	70 - 134		101	9	20		MB-9	LCS-9	LCD-9
9.	t-Butanol	U	2500		14,684	15,000	98	70 - 134		97	1	20		MB-9	LCS-9	LCD-9
10.	2-Butanone	U	250		2,411	2,500	96	70 - 150		107	11	20		MB-9	LCS-9	LCD-9
11.	n-Butylbenzene	U	50		2,692	2,500	108	70 - 134		110	2	20		MB-9	LCS-9	LCD-9
12.	sec-Butylbenzene	U	50		2,762	2,500	110	70 - 134		109	1	20		MB-9	LCS-9	LCD-9
13.	tert-Butylbenzene	U	50		2,585	2,500	103	70 - 134		100	3	20		MB-9	LCS-9	LCD-9
14.	Carbon Disulfide	U	50		2,604	2,500	104	70 - 134		100	4	20		MB-9	LCS-9	LCD-9
15.	Carbon Tetrachloride	U	50		2,704	2,500	108	70 - 134		108	0	20		MB-9	LCS-9	LCD-9
16.	Chlorobenzene	U	50		2,496	2,500	100	70 - 134		97	3	20		MB-9	LCS-9	LCD-9
17.	Chloroethane	U	250		2,473	2,500	99	70 - 134		93	6	20		MB-9	LCS-9	LCD-9
18.	Chloroform	U	50		2,649	2,500	106	75 - 134		103	3	20		MB-9	LCS-9	LCD-9
19.	Chloromethane	U	250		2,568	2,500	103	70 - 134		96	7	20		MB-9	LCS-9	LCD-9
20.	Cyclohexane	U	250		2,456	2,500	98	70 - 134		97	1	20		MB-9	LCS-9	LCD-9
21.	Dibromochloromethane	U	50		2,652	2,500	106	70 - 134		103	3	20		MB-9	LCS-9	LCD-9
22.	1,2-Dibromo-3-chloropropane	U	250		2,672	2,500	107	70 - 134		101	6	20		MB-9	LCS-9	LCD-9
23.	Dibromomethane	U	50		2,483	2,500	99	70 - 134		96	3	20		MB-9	LCS-9	LCD-9
24.	1,2-Dichlorobenzene	U	50		2,463	2,500	99	70 - 134		94	5	20		MB-9	LCS-9	LCD-9
25.	1,3-Dichlorobenzene	U	50		2,527	2,500	101	70 - 134		98	3	20		MB-9	LCS-9	LCD-9
26.	1,4-Dichlorobenzene	U	50		2,375	2,500	95	70 - 134		92	3	20		MB-9	LCS-9	LCD-9
27.	trans-1,4-Dichloro-2-butene	U	250		2,839	2,500	114	70 - 134		115	1	20		MB-9	LCS-9	LCD-9
28.	Dichlorodifluoromethane	U	250		2,795	2,500	112	70 - 134		109	3	20		MB-9	LCS-9	LCD-9
29.	1,1-Dichloroethane	U	50		2,418	2,500	97	70 - 134		93	4	20		MB-9	LCS-9	LCD-9
30.	1,2-Dichloroethane	U	50		2,468	2,500	99	70 - 134		96	3	20		MB-9	LCS-9	LCD-9
31.	1,1-Dichloroethene	U	50		2,692	2,500	108	75 - 134		105	3	20		MB-9	LCS-9	LCD-9
32.	cis-1,2-Dichloroethene	U	50		2,525	2,500	101	70 - 134		97	4	20		MB-9	LCS-9	LCD-9
33.	trans-1,2-Dichloroethene	U	50		2,556	2,500	102	70 - 134		97	5	20		MB-9	LCS-9	LCD-9
34.	1,2-Dichloropropane	U	50		2,539	2,500	102	75 - 134		98	4	20		MB-9	LCS-9	LCD-9
35.	cis-1,3-Dichloropropene	U	50		2,635	2,500	105	70 - 134		105	0	20		MB-9	LCS-9	LCD-9
36.	trans-1,3-Dichloropropene	U	50		2,462	2,500	98	70 - 134		99	1	20		MB-9	LCS-9	LCD-9
37.	Diethyl Ether	U	200		2,465	2,500	99	70 - 134		93	6	20		MB-9	LCS-9	LCD-9
38.	Diisopropyl Ether	U	250		2,433	2,500	97	70 - 134		94	3	20		MB-9	LCS-9	LCD-9
39.	ETBE	U	250		2,532	2,500	101	70 - 134		97	4	20		MB-9	LCS-9	LCD-9
40.	Ethylbenzene	U	50		2,561	2,500	102	75 - 134		100	2	20		MB-9	LCS-9	LCD-9
41.	Ethylene Dibromide	U	50		2,552	2,500	102	70 - 134		99	3	20		MB-9	LCS-9	LCD-9
42.	Hexachloroethane	U	250		2,645	2,500	106	70 - 134		102	4	20		MB-9	LCS-9	LCD-9
43.	2-Hexanone	U	250		2,610	2,500	104	70 - 150		109	5	20		MB-9	LCS-9	LCD-9
44.	Isopropylbenzene	U	50		2,612	2,500	104	70 - 134		103	1	20		MB-9	LCS-9	LCD-9
45.	4-Isopropyltoluene	U	50		2,790	2,500	112	70 - 134		112	0	20		MB-9	LCS-9	LCD-9
46.	Methylene Chloride	U	100		2,503	2,500	100	70 - 134		95	5	20		MB-9	LCS-9	LCD-9
47.	2-Methylnaphthalene	U	250		2,658	2,500	106	70 - 134		101	5	20		MB-9	LCS-9	LCD-9
48.	4-Methyl-2-pentanone	U	250		2,641	2,500	106	70 - 134		104	2	20		MB-9	LCS-9	LCD-9
49.	MTBE	U	50		2,437	2,500	97	70 - 134		94	3	20		MB-9	LCS-9	LCD-9
50.	Naphthalene	U	250		2,632	2,500	105	70 - 134		99	6	20		MB-9	LCS-9	LCD-9
51.	n-Propylbenzene	U	50		2,607	2,500	104	70 - 134		102	2	20		MB-9	LCS-9	LCD-9

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Soil/Solid

Preparation Batch: VI16C22A **Preparation Date: 03/22/16**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/kg	RL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
52.	Styrene	U	50		2,733	2,500	109	70 - 134		105	4	20		MB-9	LCS-9	LCD-9
53.	TAME	U	250		2,403	2,500	96	70 - 134		93	3	20		MB-9	LCS-9	LCD-9
54.	1,1,1,2-Tetrachloroethane	U	50		2,837	2,500	113	70 - 134		111	2	20		MB-9	LCS-9	LCD-9
55.	1,1,2,2-Tetrachloroethane	U	50		2,493	2,500	100	70 - 134		95	5	20		MB-9	LCS-9	LCD-9
56.	Tetrachloroethene	U	50		2,599	2,500	104	70 - 134		103	1	20		MB-9	LCS-9	LCD-9
57.	Tetrahydrofuran	U	250		2,341	2,500	94	70 - 134		90	4	20		MB-9	LCS-9	LCD-9
58.	Toluene	U	50		2,541	2,500	102	75 - 134		98	4	20		MB-9	LCS-9	LCD-9
59.	1,2,3-Trichlorobenzene	U	250		2,443	2,500	98	70 - 134		93	5	20		MB-9	LCS-9	LCD-9
60.	1,2,4-Trichlorobenzene	U	250		2,561	2,500	102	70 - 134		100	2	20		MB-9	LCS-9	LCD-9
61.	1,1,1-Trichloroethane	U	50		2,566	2,500	103	70 - 134		100	3	20		MB-9	LCS-9	LCD-9
62.	1,1,2-Trichloroethane	U	50		2,554	2,500	102	70 - 134		99	3	20		MB-9	LCS-9	LCD-9
63.	Trichloroethene	U	50		2,651	2,500	106	70 - 134		104	2	20		MB-9	LCS-9	LCD-9
64.	Trichlorofluoromethane	U	100		2,702	2,500	108	70 - 134		105	3	20		MB-9	LCS-9	LCD-9
65.	1,2,3-Trichloropropane	U	50		2,506	2,500	100	70 - 134		97	3	20		MB-9	LCS-9	LCD-9
66.	1,2,3-Trimethylbenzene	U	50		2,419	2,500	97	70 - 134		92	5	20		MB-9	LCS-9	LCD-9
67.	1,2,4-Trimethylbenzene	U	50		2,757	2,500	110	70 - 134		107	3	20		MB-9	LCS-9	LCD-9
68.	1,3,5-Trimethylbenzene	U	50		2,625	2,500	105	70 - 134		103	2	20		MB-9	LCS-9	LCD-9
69.	Vinyl Chloride	U	50		2,551	2,500	102	75 - 134		99	3	20		MB-9	LCS-9	LCD-9
70.	m&p-Xylene	U	100		5,239	5,000	105	70 - 134		101	4	20		MB-9	LCS-9	LCD-9
71.	o-Xylene	U	50		2,554	2,500	102	70 - 134		100	2	20		MB-9	LCS-9	LCD-9

		Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	System Monitoring Compounds (Surrogates):	Result µg/kg	Spike µg/kg	Rec. %	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Dibromofluoromethane(S)	2,404	2,500	96		2,492	2,500	100	75 - 125		100	0	20		MB-9	LCS-9	LCD-9
2.	1,2-Dichloroethane-d4(S)	2,437	2,500	97		2,431	2,500	97	62 - 134		98	1	20		MB-9	LCS-9	LCD-9
3.	Toluene-d8(S)	2,509	2,500	100		2,486	2,500	99	50 - 150		100	1	20		MB-9	LCS-9	LCD-9
4.	4-Bromofluorobenzene(S)	2,540	2,500	102		2,545	2,500	102	64 - 136		99	3	20		MB-9	LCS-9	LCD-9

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-9	VI16C22A	03/22/16 17:58
LCS-9	VI16C22A	03/22/16 15:43
LCD-9	VI16C22A	03/22/16 16:10

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

By Cheyanne Juntunen at 4:28 PM, Mar 23, 2016

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Soil/Solid

Batch ID: VJ16C17B
Page: 1 of 2
Date: 03/23/16

Preparation Batch: VJ16C17B **Preparation Date: 03/17/16**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
		Result	RL		Result	Spike	Rec.	LCL - UCL		Rec.	RPD	UCL				
	Parameter	µg/kg	µg/kg	Q	µg/kg	µg/kg	%	%	Q	%	%	%	Q	MB	LCS	LCD
1.	Acetone	U	1000		2,479	2,500	99	70 - 150		99	0	20		MB-3	LCS-3	LCD-3
2.	Acrylonitrile	U	250		2,706	2,500	108	70 - 134		109	1	20		MB-3	LCS-3	LCD-3
3.	Benzene	U	50		2,602	2,500	104	70 - 134		104	0	20		MB-3	LCS-3	LCD-3
4.	Bromobenzene	U	50		2,634	2,500	105	70 - 134		107	2	20		MB-3	LCS-3	LCD-3
5.	Bromochloromethane	U	50		2,545	2,500	102	70 - 134		101	1	20		MB-3	LCS-3	LCD-3
6.	Bromodichloromethane	U	50		2,457	2,500	98	70 - 134		98	0	20		MB-3	LCS-3	LCD-3
7.	Bromoform	U	50		2,572	2,500	103	70 - 134		104	1	20		MB-3	LCS-3	LCD-3
8.	Bromomethane	U	200		2,495	2,500	100	70 - 134		102	2	20		MB-3	LCS-3	LCD-3
9.	t-Butanol	U	2500		16,769	15,000	112	70 - 134		115	3	20		MB-3	LCS-3	LCD-3
10.	2-Butanone	U	250		2,640	2,500	106	70 - 150		106	0	20		MB-3	LCS-3	LCD-3
11.	n-Butylbenzene	U	50		2,937	2,500	117	70 - 134		118	1	20		MB-3	LCS-3	LCD-3
12.	sec-Butylbenzene	U	50		3,075	2,500	123	70 - 134		123	0	20		MB-3	LCS-3	LCD-3
13.	tert-Butylbenzene	U	50		2,842	2,500	114	70 - 134		114	0	20		MB-3	LCS-3	LCD-3
14.	Carbon Disulfide	U	50		2,512	2,500	100	70 - 134		100	0	20		MB-3	LCS-3	LCD-3
15.	Carbon Tetrachloride	U	50		2,679	2,500	107	70 - 134		104	3	20		MB-3	LCS-3	LCD-3
16.	Chlorobenzene	U	50		2,499	2,500	100	70 - 134		99	1	20		MB-3	LCS-3	LCD-3
17.	Chloroethane	U	250		2,449	2,500	98	70 - 134		98	0	20		MB-3	LCS-3	LCD-3
18.	Chloroform	U	50		2,643	2,500	106	75 - 134		106	0	20		MB-3	LCS-3	LCD-3
19.	Chloromethane	U	250		2,414	2,500	97	70 - 134		97	0	20		MB-3	LCS-3	LCD-3
20.	Cyclohexane	U	250		2,643	2,500	106	70 - 134		106	0	20		MB-3	LCS-3	LCD-3
21.	Dibromochloromethane	U	50		2,487	2,500	99	70 - 134		99	0	20		MB-3	LCS-3	LCD-3
22.	1,2-Dibromo-3-chloropropane	U	250		2,604	2,500	104	70 - 134		104	0	20		MB-3	LCS-3	LCD-3
23.	Dibromomethane	U	50		2,551	2,500	102	70 - 134		102	0	20		MB-3	LCS-3	LCD-3
24.	1,2-Dichlorobenzene	U	50		2,533	2,500	101	70 - 134		102	1	20		MB-3	LCS-3	LCD-3
25.	1,3-Dichlorobenzene	U	50		2,520	2,500	101	70 - 134		102	1	20		MB-3	LCS-3	LCD-3
26.	1,4-Dichlorobenzene	U	50		2,264	2,500	91	70 - 134		92	1	20		MB-3	LCS-3	LCD-3
27.	trans-1,4-Dichloro-2-butene	U	250		2,922	2,500	117	70 - 134		117	0	20		MB-3	LCS-3	LCD-3
28.	Dichlorodifluoromethane	U	250		2,716	2,500	109	70 - 134		109	0	20		MB-3	LCS-3	LCD-3
29.	1,1-Dichloroethane	U	50		2,374	2,500	95	70 - 134		95	0	20		MB-3	LCS-3	LCD-3
30.	1,2-Dichloroethane	U	50		2,476	2,500	99	70 - 134		99	0	20		MB-3	LCS-3	LCD-3
31.	1,1-Dichloroethene	U	50		2,636	2,500	105	75 - 134		104	1	20		MB-3	LCS-3	LCD-3
32.	cis-1,2-Dichloroethene	U	50		2,640	2,500	106	70 - 134		105	1	20		MB-3	LCS-3	LCD-3
33.	trans-1,2-Dichloroethene	U	50		2,544	2,500	102	70 - 134		102	0	20		MB-3	LCS-3	LCD-3
34.	1,2-Dichloropropane	U	50		2,588	2,500	104	75 - 134		103	1	20		MB-3	LCS-3	LCD-3
35.	cis-1,3-Dichloropropene	U	50		2,847	2,500	114	70 - 134		115	1	20		MB-3	LCS-3	LCD-3
36.	trans-1,3-Dichloropropene	U	50		2,580	2,500	103	70 - 134		104	1	20		MB-3	LCS-3	LCD-3
37.	Diethyl Ether	U	200		2,505	2,500	100	70 - 134		100	0	20		MB-3	LCS-3	LCD-3
38.	Diisopropyl Ether	U	250		2,617	2,500	105	70 - 134		105	0	20		MB-3	LCS-3	LCD-3
39.	ETBE	U	250		2,749	2,500	110	70 - 134		111	1	20		MB-3	LCS-3	LCD-3
40.	Ethylbenzene	U	50		2,687	2,500	107	75 - 134		107	0	20		MB-3	LCS-3	LCD-3
41.	Ethylene Dibromide	U	50		2,538	2,500	102	70 - 134		101	1	20		MB-3	LCS-3	LCD-3
42.	Hexachloroethane	U	250		2,446	2,500	98	70 - 134		99	1	20		MB-3	LCS-3	LCD-3
43.	2-Hexanone	U	500		2,594	2,500	104	70 - 150		103	1	20		MB-3	LCS-3	LCD-3
44.	Isopropylbenzene	U	50		2,973	2,500	119	70 - 134		119	0	20		MB-3	LCS-3	LCD-3
45.	4-Isopropyltoluene	U	50		2,598	2,500	104	70 - 134		105	1	20		MB-3	LCS-3	LCD-3
46.	Methylene Chloride	U	100		2,425	2,500	97	70 - 134		98	1	20		MB-3	LCS-3	LCD-3
47.	2-Methylnaphthalene	U	250		2,381	2,500	95	70 - 134		91	4	20		MB-3	LCS-3	LCD-3
48.	4-Methyl-2-pentanone	U	250		2,785	2,500	111	70 - 134		113	2	20		MB-3	LCS-3	LCD-3
49.	MTBE	U	50		2,650	2,500	106	70 - 134		106	0	20		MB-3	LCS-3	LCD-3
50.	Naphthalene	U	250		2,415	2,500	97	70 - 134		97	0	20		MB-3	LCS-3	LCD-3
51.	n-Propylbenzene	U	50		2,717	2,500	109	70 - 134		109	0	20		MB-3	LCS-3	LCD-3

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Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Soil/Solid

Preparation Batch: VJ16C17B **Preparation Date: 03/17/16**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/kg	RL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
52.	Styrene	U	50		2,442	2,500	98	70 - 134		97	1	20		MB-3	LCS-3	LCD-3
53.	TAME	U	250		2,523	2,500	101	70 - 134		101	0	20		MB-3	LCS-3	LCD-3
54.	1,1,1,2-Tetrachloroethane	U	50		2,675	2,500	107	70 - 134		108	1	20		MB-3	LCS-3	LCD-3
55.	1,1,2,2-Tetrachloroethane	U	50		2,417	2,500	97	70 - 134		94	3	20		MB-3	LCS-3	LCD-3
56.	Tetrachloroethene	U	50		2,537	2,500	101	70 - 134		102	1	20		MB-3	LCS-3	LCD-3
57.	Tetrahydrofuran	U	250		2,651	2,500	106	70 - 134		113	6	20		MB-3	LCS-3	LCD-3
58.	Toluene	U	50		2,545	2,500	102	75 - 134		102	0	20		MB-3	LCS-3	LCD-3
59.	1,2,3-Trichlorobenzene	U	250		2,712	2,500	108	70 - 134		107	1	20		MB-3	LCS-3	LCD-3
60.	1,2,4-Trichlorobenzene	U	250		2,863	2,500	115	70 - 134		116	1	20		MB-3	LCS-3	LCD-3
61.	1,1,1-Trichloroethane	U	50		2,553	2,500	102	70 - 134		103	1	20		MB-3	LCS-3	LCD-3
62.	1,1,2-Trichloroethane	U	50		2,593	2,500	104	70 - 134		103	1	20		MB-3	LCS-3	LCD-3
63.	Trichloroethene	U	50		2,682	2,500	107	70 - 134		107	0	20		MB-3	LCS-3	LCD-3
64.	Trichlorofluoromethane	U	50		2,511	2,500	100	70 - 134		98	2	20		MB-3	LCS-3	LCD-3
65.	1,2,3-Trichloropropane	U	50		2,666	2,500	107	70 - 134		105	2	20		MB-3	LCS-3	LCD-3
66.	1,2,3-Trimethylbenzene	U	50		2,521	2,500	101	70 - 134		101	0	20		MB-3	LCS-3	LCD-3
67.	1,2,4-Trimethylbenzene	U	100		2,836	2,500	113	70 - 134		115	2	20		MB-3	LCS-3	LCD-3
68.	1,3,5-Trimethylbenzene	U	50		2,869	2,500	115	70 - 134		115	0	20		MB-3	LCS-3	LCD-3
69.	Vinyl Chloride	U	50		2,501	2,500	100	75 - 134		100	0	20		MB-3	LCS-3	LCD-3
70.	m&p-Xylene	U	100		5,650	5,000	113	70 - 134		112	1	20		MB-3	LCS-3	LCD-3
71.	o-Xylene	U	50		2,877	2,500	115	70 - 134		115	0	20		MB-3	LCS-3	LCD-3

		Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	System Monitoring Compounds (Surrogates):	Result µg/kg	Spike µg/kg	Rec. %	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Dibromofluoromethane(S)	2,497	2,500	100		2,469	2,500	99	75 - 125		98	1	20		MB-3	LCS-3	LCD-3
2.	1,2-Dichloroethane-d4(S)	2,439	2,500	98		2,489	2,500	100	62 - 134		99	1	20		MB-3	LCS-3	LCD-3
3.	Toluene-d8(S)	2,507	2,500	100		2,524	2,500	101	50 - 150		101	0	20		MB-3	LCS-3	LCD-3
4.	4-Bromofluorobenzene(S)	2,495	2,500	100		2,536	2,500	101	64 - 136		102	1	20		MB-3	LCS-3	LCD-3

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-3	VJ16C17B	03/18/16 01:17
LCS-3	VJ16C17B	03/17/16 23:08
LCD-3	VJ16C17B	03/17/16 23:34

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

By Cheyanne Juntunen at 4:28 PM, Mar 23, 2016

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Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Soil/Solid

Preparation Batch: VJ16C18A **Preparation Date: 03/18/16**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
		Result	RL		Result	Spike	Rec.	LCL - UCL		Rec.	RPD	UCL				
	Parameter	µg/kg	µg/kg	Q	µg/kg	µg/kg	%	%	Q	%	%	%	Q	MB	LCS	LCD
1.	Acetone	U	1000		2,355	2,500	94	70 - 150		95	1	20		MB-5	LCS-5	LCD-5
2.	Acrylonitrile	U	250		2,631	2,500	105	70 - 134		107	2	20		MB-5	LCS-5	LCD-5
3.	Benzene	U	50		2,605	2,500	104	70 - 134		100	4	20		MB-5	LCS-5	LCD-5
4.	Bromobenzene	U	50		2,684	2,500	107	70 - 134		104	3	20		MB-5	LCS-5	LCD-5
5.	Bromochloromethane	U	50		2,573	2,500	103	70 - 134		98	5	20		MB-5	LCS-5	LCD-5
6.	Bromodichloromethane	U	50		2,485	2,500	99	70 - 134		96	3	20		MB-5	LCS-5	LCD-5
7.	Bromoform	U	50		2,574	2,500	103	70 - 134		103	0	20		MB-5	LCS-5	LCD-5
8.	Bromomethane	U	200		2,476	2,500	99	70 - 134		97	2	20		MB-5	LCS-5	LCD-5
9.	t-Butanol	U	2500		16,591	15,000	111	70 - 134		113	2	20		MB-5	LCS-5	LCD-5
10.	2-Butanone	U	250		2,557	2,500	102	70 - 150		104	2	20		MB-5	LCS-5	LCD-5
11.	n-Butylbenzene	U	50		2,938	2,500	118	70 - 134		114	3	20		MB-5	LCS-5	LCD-5
12.	sec-Butylbenzene	U	50		3,054	2,500	122	70 - 134		118	3	20		MB-5	LCS-5	LCD-5
13.	tert-Butylbenzene	U	50		2,820	2,500	113	70 - 134		109	4	20		MB-5	LCS-5	LCD-5
14.	Carbon Disulfide	U	50		2,536	2,500	101	70 - 134		95	6	20		MB-5	LCS-5	LCD-5
15.	Carbon Tetrachloride	U	50		2,612	2,500	104	70 - 134		97	7	20		MB-5	LCS-5	LCD-5
16.	Chlorobenzene	U	50		2,493	2,500	100	70 - 134		96	4	20		MB-5	LCS-5	LCD-5
17.	Chloroethane	U	250		2,462	2,500	98	70 - 134		92	6	20		MB-5	LCS-5	LCD-5
18.	Chloroform	U	50		2,643	2,500	106	75 - 134		101	5	20		MB-5	LCS-5	LCD-5
19.	Chloromethane	U	250		2,523	2,500	101	70 - 134		96	5	20		MB-5	LCS-5	LCD-5
20.	Cyclohexane	U	250		2,524	2,500	101	70 - 134		95	6	20		MB-5	LCS-5	LCD-5
21.	Dibromochloromethane	U	50		2,487	2,500	99	70 - 134		98	1	20		MB-5	LCS-5	LCD-5
22.	1,2-Dibromo-3-chloropropane	U	250		2,535	2,500	101	70 - 134		103	2	20		MB-5	LCS-5	LCD-5
23.	Dibromomethane	U	50		2,577	2,500	103	70 - 134		100	3	20		MB-5	LCS-5	LCD-5
24.	1,2-Dichlorobenzene	U	50		2,570	2,500	103	70 - 134		99	4	20		MB-5	LCS-5	LCD-5
25.	1,3-Dichlorobenzene	U	50		2,545	2,500	102	70 - 134		100	2	20		MB-5	LCS-5	LCD-5
26.	1,4-Dichlorobenzene	U	50		2,291	2,500	92	70 - 134		89	3	20		MB-5	LCS-5	LCD-5
27.	trans-1,4-Dichloro-2-butene	U	250		2,920	2,500	117	70 - 134		118	1	20		MB-5	LCS-5	LCD-5
28.	Dichlorodifluoromethane	U	250		2,841	2,500	114	70 - 134		106	7	20		MB-5	LCS-5	LCD-5
29.	1,1-Dichloroethane	U	50		2,375	2,500	95	70 - 134		90	5	20		MB-5	LCS-5	LCD-5
30.	1,2-Dichloroethane	U	50		2,501	2,500	100	70 - 134		97	3	20		MB-5	LCS-5	LCD-5
31.	1,1-Dichloroethene	U	50		2,567	2,500	103	75 - 134		97	6	20		MB-5	LCS-5	LCD-5
32.	cis-1,2-Dichloroethene	U	50		2,621	2,500	105	70 - 134		100	5	20		MB-5	LCS-5	LCD-5
33.	trans-1,2-Dichloroethene	U	50		2,530	2,500	101	70 - 134		97	4	20		MB-5	LCS-5	LCD-5
34.	1,2-Dichloropropane	U	50		2,586	2,500	103	75 - 134		101	2	20		MB-5	LCS-5	LCD-5
35.	cis-1,3-Dichloropropene	U	50		2,884	2,500	115	70 - 134		112	3	20		MB-5	LCS-5	LCD-5
36.	trans-1,3-Dichloropropene	U	50		2,649	2,500	106	70 - 134		103	3	20		MB-5	LCS-5	LCD-5
37.	Diethyl Ether	U	200		2,476	2,500	99	70 - 134		97	2	20		MB-5	LCS-5	LCD-5
38.	Diisopropyl Ether	U	250		2,589	2,500	104	70 - 134		100	4	20		MB-5	LCS-5	LCD-5
39.	ETBE	U	250		2,743	2,500	110	70 - 134		107	3	20		MB-5	LCS-5	LCD-5
40.	Ethylbenzene	U	50		2,672	2,500	107	75 - 134		102	5	20		MB-5	LCS-5	LCD-5
41.	Ethylene Dibromide	U	50		2,514	2,500	101	70 - 134		100	1	20		MB-5	LCS-5	LCD-5
42.	Hexachloroethane	U	250		2,460	2,500	98	70 - 134		95	3	20		MB-5	LCS-5	LCD-5
43.	2-Hexanone	U	500		2,516	2,500	101	70 - 150		103	2	20		MB-5	LCS-5	LCD-5
44.	Isopropylbenzene	U	50		2,940	2,500	118	70 - 134		113	4	20		MB-5	LCS-5	LCD-5
45.	4-Isopropyltoluene	U	50		2,621	2,500	105	70 - 134		100	5	20		MB-5	LCS-5	LCD-5
46.	Methylene Chloride	U	100		2,453	2,500	98	70 - 134		93	5	20		MB-5	LCS-5	LCD-5
47.	2-Methylnaphthalene	U	250		2,278	2,500	91	70 - 134		94	3	20		MB-5	LCS-5	LCD-5
48.	4-Methyl-2-pentanone	U	250		2,782	2,500	111	70 - 134		113	2	20		MB-5	LCS-5	LCD-5
49.	MTBE	U	50		2,618	2,500	105	70 - 134		104	1	20		MB-5	LCS-5	LCD-5
50.	Naphthalene	U	250		2,330	2,500	93	70 - 134		94	1	20		MB-5	LCS-5	LCD-5
51.	n-Propylbenzene	U	50		2,736	2,500	109	70 - 134		105	4	20		MB-5	LCS-5	LCD-5

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Soil/Solid

Preparation Batch: VJ16C18A **Preparation Date: 03/18/16**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/kg	RL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
52.	Styrene	U	50		2,428	2,500	97	70 - 134		95	2	20		MB-5	LCS-5	LCD-5
53.	TAME	U	250		2,539	2,500	102	70 - 134		100	2	20		MB-5	LCS-5	LCD-5
54.	1,1,1,2-Tetrachloroethane	U	50		2,677	2,500	107	70 - 134		104	3	20		MB-5	LCS-5	LCD-5
55.	1,1,2,2-Tetrachloroethane	U	50		2,386	2,500	95	70 - 134		96	1	20		MB-5	LCS-5	LCD-5
56.	Tetrachloroethene	U	50		2,551	2,500	102	70 - 134		97	5	20		MB-5	LCS-5	LCD-5
57.	Tetrahydrofuran	U	250		2,725	2,500	109	70 - 134		108	1	20		MB-5	LCS-5	LCD-5
58.	Toluene	U	50		2,570	2,500	103	75 - 134		99	4	20		MB-5	LCS-5	LCD-5
59.	1,2,3-Trichlorobenzene	U	250		2,679	2,500	107	70 - 134		105	2	20		MB-5	LCS-5	LCD-5
60.	1,2,4-Trichlorobenzene	U	250		2,845	2,500	114	70 - 134		111	3	20		MB-5	LCS-5	LCD-5
61.	1,1,1-Trichloroethane	U	50		2,522	2,500	101	70 - 134		96	5	20		MB-5	LCS-5	LCD-5
62.	1,1,2-Trichloroethane	U	50		2,553	2,500	102	70 - 134		103	1	20		MB-5	LCS-5	LCD-5
63.	Trichloroethene	U	50		2,673	2,500	107	70 - 134		103	4	20		MB-5	LCS-5	LCD-5
64.	Trichlorofluoromethane	U	50		2,563	2,500	103	70 - 134		97	6	20		MB-5	LCS-5	LCD-5
65.	1,2,3-Trichloropropane	U	50		2,646	2,500	106	70 - 134		109	3	20		MB-5	LCS-5	LCD-5
66.	1,2,3-Trimethylbenzene	U	50		2,499	2,500	100	70 - 134		98	2	20		MB-5	LCS-5	LCD-5
67.	1,2,4-Trimethylbenzene	U	100		2,853	2,500	114	70 - 134		111	3	20		MB-5	LCS-5	LCD-5
68.	1,3,5-Trimethylbenzene	U	50		2,887	2,500	115	70 - 134		111	4	20		MB-5	LCS-5	LCD-5
69.	Vinyl Chloride	U	50		2,525	2,500	101	75 - 134		94	7	20		MB-5	LCS-5	LCD-5
70.	m&p-Xylene	U	100		5,597	5,000	112	70 - 134		108	4	20		MB-5	LCS-5	LCD-5
71.	o-Xylene	U	50		2,854	2,500	114	70 - 134		110	4	20		MB-5	LCS-5	LCD-5

		Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	System Monitoring Compounds (Surrogates):	Result µg/kg	Spike µg/kg	Rec. %	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Dibromofluoromethane(S)	2,516	2,500	101		2,430	2,500	97	75 - 125		96	1	20		MB-5	LCS-5	LCD-5
2.	1,2-Dichloroethane-d4(S)	2,420	2,500	97		2,478	2,500	99	62 - 134		99	0	20		MB-5	LCS-5	LCD-5
3.	Toluene-d8(S)	2,511	2,500	100		2,517	2,500	101	50 - 150		100	1	20		MB-5	LCS-5	LCD-5
4.	4-Bromofluorobenzene(S)	2,443	2,500	98		2,535	2,500	101	64 - 136		102	1	20		MB-5	LCS-5	LCD-5

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-5	VJ16C18A	03/18/16 14:29
LCS-5	VJ16C18A	03/18/16 13:12
LCD-5	VJ16C18A	03/18/16 13:38

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

By Cheyanne Juntunen at 4:28 PM, Mar 23, 2016

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Soil/Solid

Batch ID: VJ16C22A
Page: 1 of 1
Date: 03/23/16

Preparation Batch: VJ16C22A **Preparation Date: 03/22/16**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/kg	RL µg/kg	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Ethylbenzene	U	50		2,751	2,500	110	75 - 134		105	5	20		MB-8	LCS-8	LCD-8
2.	Tetrachloroethene	U	250		2,593	2,500	104	70 - 134		99	5	20		MB-8	LCS-8	LCD-8
3.	Toluene	U	1000		2,527	2,500	101	75 - 134		97	4	20		MB-8	LCS-8	LCD-8
4.	m&p-Xylene	U	100		5,773	5,000	115	70 - 134		111	4	20		MB-8	LCS-8	LCD-8
5.	o-Xylene	U	50		2,972	2,500	119	70 - 134		114	4	20		MB-8	LCS-8	LCD-8

		Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	System Monitoring Compounds (Surrogates):	Result µg/kg	Spike µg/kg	Rec. %	Q	Result µg/kg	Spike µg/kg	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Dibromofluoromethane(S)	2,479	2,500	99		2,428	2,500	97	75 - 125		97	0	20		MB-8	LCS-8	LCD-8
2.	1,2-Dichloroethane-d4(S)	2,474	2,500	99		2,528	2,500	101	62 - 134		101	0	20		MB-8	LCS-8	LCD-8
3.	Toluene-d8(S)	2,490	2,500	100		2,500	2,500	100	50 - 150		100	0	20		MB-8	LCS-8	LCD-8
4.	4-Bromofluorobenzene(S)	2,417	2,500	97		2,510	2,500	100	64 - 136		101	1	20		MB-8	LCS-8	LCD-8

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-8	VJ16C22A	03/22/16 13:05
LCS-8	VJ16C22A	03/22/16 10:48
LCD-8	VJ16C22A	03/22/16 11:15

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

By Cheyanne Juntunen at 4:28 PM, Mar 23, 2016

1914 Holloway Drive *Holt, MI 48842* *T: (517) 699-0345* *F: (517) 699-0388*
11766 E. Grand River *Brighton, MI 48116* *T: (810) 220-3300* *F: (810) 220-3311*
8660 S. Mackinaw Trail *Cadillac, MI 49601* *T: (231) 775-8368* *F: (231) 775-8584*

lab@fibertec.us

Fibertec environmental services

Analytical Laboratory
1914 Holloway Drive **Holt, MI 48842** **Phone: 517 699 0345** **Fax: 517 699 0388** **email: lab@fibertec.us**

8660 S. Mackinaw Trail **Cadillac, MI 49601** **Phone: 231 775 8368** **Fax: 231 775 8584**

Industrial Hygiene Services, Inc. **1914 Holloway Drive** **Holt, MI 48842** **Phone: 517 699 0345** **Fax: 517 699 0382** **email: asbestos@fibertec.us**

Geoprobe **11766 E. Grand River** **Brighton, MI 48116** **Phone: 810 220 3300** **Fax: 810 220 3311**

Chain of Custody # 147159
PAGE 1 of 4

Client Name: Kellie Wong
Contact Person: Bureau Veritas
Project Name/ Number: PSC / 11016-000075.00
QUOTE#
Purchase Order#

Turnaround: ☐ 24 hour RUSH (surcharge applies) ☐ 48 hour RUSH (surcharge applies) ☐ 72 hour RUSH (surcharge applies) ☒ Standard (5-7 bus. days) ☐ Other: Specify

Matrix Code: S Soil; A Air; O Oil; P Wipe; GW Ground Water; SW Surface Water; WW Waste Water; X Other: Specify

☐ FES Drilling Services

Deliverables: ☐ Level 2 ☐ Level 3 ☐ Level 4 ☐ EDD

Remarks:

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	VOCs
	3/16/16	1525		BSB-39 (1-3)	S	2	Y	X
	↓	1523		BSB-39 (3-5)	S	2	Y	X
	↓	1425		BSB-40 (3-5)	S	2	Y	X
	↓	1427		BSB-40 (8-10)	S	2	Y	X
	↓	1401		BSB-41 (1.5-3.5)	S	2	Y	X
	↓	1358		BSB-41 (3.5-5.5)	S	2	Y	X
	↓	1135		BSB-42 (5-7)	S	2	Y	X
	↓	1137		BSB-42 (8-10)	S	2	Y	X
	↓	1035		BSB-43 (10-12)	S	2	Y	X
	↓	1033		BSB-43 (16-18)	S	2	Y	X

Comments:

Relinquished By:	Date/ Time	Received By:
[signature]		[signature] 3/16/16 10:10
[signature]	3/16/16 3:38	[signature]
		Received By Laboratory:

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking: 72301
Temperature at Receipt: 2.6 °C

RCV'D ON ICE

RCVD BY LAB MAR 16 2016

COC Revision: February, 2013

TERMS & CONDITIONS ON BACK

Initial: AS

Fibertec environmental services

Analytical Laboratory
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0388
email: lab@fibertec.us

8660 S. Mackinaw Trail
Cadillac, MI 49601
Phone: 231 775 8368
Fax: 231 775 8584

Industrial Hygiene Services, Inc.
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0382
email: asbestos@fibertec.us

Geoprobe
11766 E. Grand River
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # 147158

Client Name: Bureau Veritas
Contact Person: Kellie Wy
Project Name/ Number: PSC / 11016-000075.00
QUOTE#
Purchase Order#

Turnaround: ☐ 24 hour RUSH (surcharge applies) ☐ 48 hour RUSH (surcharge applies) ☐ 72 hour RUSH (surcharge applies) ☒ Standard (5-7 bus. days) ☐ Other: Specify

Remarks:

Matrix Code: S Soil, GW Ground Water, A Air, SW Surface Water, O Oil, WW Waste Water, P Wipe, X Other: Specify

☐ FES Drilling Services

Deliverables: ☐ Level 2 ☐ Level 3 ☐ Level 4 ☐ EDD

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	VOCs
	3/15/16	1251		BSB-44 (2-4)	S	2	Y	X
		1258		BSB-44 (4-6)	S	2	Y	X
		1212		BSB-45 (9-11)	S	2	Y	X
		1215		BSB-45 (13-15)	S	2	Y	X
		1230		BSB-46 (6-8)	S	2	Y	X
		1239		BSB-46 (9-11)	S	2	Y	X
		1622		BSB-47 (3-5)	S	2	Y	X
		1624		BSB-47 (5-7)	S	2	Y	X
		1640		BSB-48 (3-5)	S	2	Y	X
	↓	1642		BSB-48 (5-7)	S	2	Y	X

Comments:

	Date/ Time	
Relinquished By: Kellie W	Date/ Time	Received By: Dale A. Schrader 3/16/16 10:10
Relinquished By: Dale A. Schrader	Date/ Time 3/16/16 3:37	Received By: [signature]
Relinquished By:	Date/ Time	Received By Laboratory:

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

RCVD ON ICE

RCVD BY LAB
MAR 16 2016
Initial: ______

COC Revision: February, 2013

TERMS & CONDITIONS ON BACK

INTERDEPARTMENTAL INTERNAL CHAIN-OF-CUSTODY

Clayton GROUP SERVICES

IMPORTANT
Date Results Requested: _____
Rush Charges Authorized? ☐ Yes ☐ No

For Clayton Use Only
Clayton Lab Project No.

INTERDEPARTMENTAL INFORMATION
Consultant's Name: Kellie Wj
Consultant's Office Location: _____
Consultant's Internal Project No.: 11016-000075.00

OUTSIDE CLIENT INFORMATION
CFMS Client Code:
Company Name: Bureau Veritas
Client Name:
Mailing Address: Telephone No.:
City, State, Zip:

PRICING INFORMATION
☐ Fee Schedule Price
☐ Discount Price off list _____
☐ Special Price Attached

Send Report to:
☐ Client ☐ Internal Office
Send Via:
☐ Reg. Mail ☐ Overnight Mail ☐ Email
☐ Fax Fax # _____

Special instructions:
PSC / 11016-000075.00

Routine QA Acceptable? ☐ Yes ☐ No
Routine Detection Limits Acceptable? ☐ Yes ☐ No
Routine Analyte List Acceptable? ☐ Yes ☐ No

ANALYSIS REQUESTED
(Enter an 'X' in the box below to indicate request; Enter a 'P' if Preservative added.*)

CLIENT SAMPLE IDENTIFICATION	DATE SAMPLED	TIME SAMPLED	MATRIX/ MEDIA	AIR VOLUME (specify units)	Number of Containers		VOCs									FOR LAB USE ONLY
Dup-01	3/15/16	1523	SOIL		2		X									
BSB-39 (1-3) ms/msD	↓	1525	SOIL		2		X									

CHAIN OF CUSTODY

Collected by: Kellie Wj (print)	Collector's Signature: Kellie Wj		
Relinquished by: Kellie Wj	Date/Time	Received by: Valerie Shade	Date/Time 3/16/16 10:40
Relinquished by: Valerie Shade	Date/Time 3/16/16 13:30	Received by:	Date/Time 3/16/16 15:38
Authorized by:	Date	Sample Condition Upon Receipt: ☐ Acceptable ☐ Other (explain)	

(Client Signature **MUST** Accompany Request)

Please return completed form and samples to one of the Clayton Laboratory Services locations below:
Detroit Regional Lab: (800) 806-5887 Atlanta Regional Lab: (800) 252-9919
Seattle Regional Lab: (800) 568-7755

Distribution:
White & Yellow: Lab
Pink: Consultant

1/97

Fibertec environmental services

Analytical Laboratory
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0388
email: lab@fibertec.us

8660 S. Mackinaw Trail
Cadillac, MI 49601
Phone: 231 775 8368
Fax: 231 775 8584

Industrial Hygiene Services, Inc.
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0382
email: asbestos@fibertec.us

Geoprobe
11766 E. Grand River
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # 147157
PAGE 4 of 4

Client Name: Burgeon Veritas
Contact Person: Kellie Wing
Project Name/ Number: PSC | 11016-000075.00
QUOTE#
Purchase Order#

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	VOC	PARAMETERS
	3/15/16	1430		BSB-40 GW	G	3	Y	X	
		1402		BSB-41 GW	G	3	Y	X	
		1142		BSB-42 GW	G	3	Y	X	
		1255		BSB-43 GW	G	3	Y	X	
		1210		BSB-45 GW	G	3	Y	X	
		1234		BSB-46 GW	G	3	Y	X	
		1632		BSB-47 GW	G	3	Y	X	
		1645		BSB-48 GW	G	3	Y	X	
		1630		Dup-01 GW	G	3	Y	X	

Turnaround
- 24 hour RUSH (surcharge applies)
- 48 hour RUSH (surcharge applies)
- 72 hour RUSH (surcharge applies)
- [X] Standard (5-7 bus. days)
- Other: Specify

Matrix Code
S Soil | GW Ground Water
A Air | SW Surface Water
O Oil | WW Waste Water
P Wipe | X Other: Specify

☐ FES Drilling Services

Remarks:

Deliverables
- ☐ Level 2
- ☐ Level 3
- ☐ Level 4
- ☐ EDD

Comments:

Relinquished By:	Date/ Time	Received By:
Kellie Wing		
Relinquished By:	Date/ Time	Received By:
[signature]	3/16/16 3:38	[signature] 3/16/16 10:10
Relinquished By:	Date/ Time	Received By Laboratory:

LAB USE ONLY:
Fibertec project number:
Laboratory Tracking:
Temperature at Receipt:

COC Revision: February, 2013

TERMS & CONDITIONS ON BACK

Fibertec
environmental
services

Monday, March 28, 2016

Fibertec Project Number:	72366
Project Identification:	PSC - Detroit /
Submittal Date:	03/21/2016

Ms. Kellie Wing
Bureau Veritas North America, Inc.
22345 Roethel Drive
Novi, MI 48375

Dear Ms. Wing,

Thank you for selecting Fibertec Environmental Services as your analytical laboratory. The samples you submitted have been analyzed in accordance with NELAC standards and the results compiled in the attached report. Any exceptions to NELAC compliance are noted in the report. These results apply only to those samples submitted. Please note TO-15 samples will be disposed of 14 days after the reporting date. All other samples will be disposed of 30 days after the reporting date.

If you have any questions regarding these results or if we may be of further assistance to you, please contact me at (517) 699-0345.

Sincerely,

By Amanda Petrovsky at 1:14 PM, Mar 28, 2016

For Daryl P. Strandbergh
Laboratory Director

Enclosures

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**MW-11**	Chain of Custody:	**139022**
Client Project Name:	**PSC - Detroit**	Sample No:	**1**	Collect Date:	**03/18/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**10:54**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72366-001** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: MW-11**

	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
	1. Acetone	**34000**		µg/L	5000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡	2. Acrylonitrile	U		µg/L	1000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	3. Benzene	**640**		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	4. Bromobenzene	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	5. Bromochloromethane	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	6. Bromodichloromethane	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	7. Bromoform	U		µg/L	1000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	8. Bromomethane	U		µg/L	1000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	9. t-Butanol	U		µg/L	10000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	10. 2-Butanone	**17000**		µg/L	5000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	11. n-Butylbenzene	U		µg/L	1000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	12. sec-Butylbenzene	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	13. tert-Butylbenzene	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	14. Carbon Disulfide	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	15. Carbon Tetrachloride	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	16. Chlorobenzene	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	17. Chloroethane	U		µg/L	1000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	18. Chloroform	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	19. Chloromethane	U		µg/L	1000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡	20. Cyclohexane	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	21. Dibromochloromethane	U		µg/L	1000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡	22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	1000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	23. Dibromomethane	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	24. 1,2-Dichlorobenzene	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	25. 1,3-Dichlorobenzene	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	26. 1,4-Dichlorobenzene	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	1000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	28. Dichlorodifluoromethane	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	29. 1,1-Dichloroethane	**1300**		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	30. 1,2-Dichloroethane	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	31. 1,1-Dichloroethene	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	32. cis-1,2-Dichloroethene	**8700**		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	33. trans-1,2-Dichloroethene	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	34. 1,2-Dichloropropane	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	35. cis-1,3-Dichloropropene	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	36. trans-1,3-Dichloropropene	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	37. Diethyl Ether	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**MW-11**	Chain of Custody:	**139022**
Client Project Name:	**PSC - Detroit**	Sample No:	**1**	Collect Date:	**03/18/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**10:54**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72366-001** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: MW-11**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 38. Diisopropyl Ether	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 39. ETBE	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
40. Ethylbenzene	**15000**		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
41. Ethylene Dibromide	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 42. Hexachloroethane	U		µg/L	1000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
43. 2-Hexanone	U		µg/L	1000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
44. Isopropylbenzene	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
45. 4-Isopropyltoluene	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
46. Methylene Chloride	**550**		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 47. 2-Methylnaphthalene	U		µg/L	2000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
48. 4-Methyl-2-pentanone	**89000**		µg/L	5000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
49. MTBE	**20000**		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
50. Naphthalene	U		µg/L	1000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
51. n-Propylbenzene	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
52. Styrene	U		µg/L	1000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 53. TAME	U		µg/L	1000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
54. 1,1,1,2-Tetrachloroethane	U		µg/L	1000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
55. 1,1,2,2-Tetrachloroethane	U		µg/L	1000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
56. Tetrachloroethene	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 57. Tetrahydrofuran	**38000**		µg/L	2000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
58. Toluene	**110000**		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
59. 1,2,3-Trichlorobenzene	U		µg/L	1000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
60. 1,2,4-Trichlorobenzene	U		µg/L	5000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
61. 1,1,1-Trichloroethane	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
62. 1,1,2-Trichloroethane	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
63. Trichloroethene	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
64. Trichlorofluoromethane	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
65. 1,2,3-Trichloropropane	U		µg/L	1000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 66. 1,2,3-Trimethylbenzene	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
67. 1,2,4-Trimethylbenzene	U		µg/L	1000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
68. 1,3,5-Trimethylbenzene	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
69. Vinyl Chloride	U		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
70. m&p-Xylene	**55000**		µg/L	1000	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
71. o-Xylene	**14000**		µg/L	500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 72. Xylenes	**68000**		µg/L	1500	1000	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**MW-12**	Chain of Custody:	**139022**
Client Project Name:	**PSC - Detroit**	Sample No:	**2**	Collect Date:	**03/18/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:39**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72366-002** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: MW-12**

							Preparation		Analysis		
	Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	P. Date	P. Batch	A. Date	A. Batch	Init.
	1. Acetone	U		µg/L	20	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡	2. Acrylonitrile	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	3. Benzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	4. Bromobenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	5. Bromochloromethane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	6. Bromodichloromethane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	7. Bromoform	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	8. Bromomethane	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	9. t-Butanol	U		µg/L	50	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	10. 2-Butanone	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	11. n-Butylbenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	12. sec-Butylbenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	13. tert-Butylbenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	14. Carbon Disulfide	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	15. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	16. Chlorobenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	17. Chloroethane	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	18. Chloroform	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	19. Chloromethane	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡	20. Cyclohexane	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	21. Dibromochloromethane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡	22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	23. Dibromomethane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	24. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	25. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	26. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	28. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	29. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	30. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	31. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	32. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	33. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	34. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	35. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	36. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
	37. Diethyl Ether	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**MW-12**	Chain of Custody:	**139022**
Client Project Name:	**PSC - Detroit**	Sample No:	**2**	Collect Date:	**03/18/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**09:39**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72366-002** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: MW-12**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 38. Diisopropyl Ether	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 39. ETBE	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
40. Ethylbenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
41. Ethylene Dibromide	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 42. Hexachloroethane	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
43. 2-Hexanone	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
44. Isopropylbenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
45. 4-Isopropyltoluene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
46. Methylene Chloride	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 47. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
48. 4-Methyl-2-pentanone	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
49. MTBE	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
50. Naphthalene	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
51. n-Propylbenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
52. Styrene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 53. TAME	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
54. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
55. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
56. Tetrachloroethene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 57. Tetrahydrofuran	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
58. Toluene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
59. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
60. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
61. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
62. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
63. Trichloroethene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
64. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
65. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 66. 1,2,3-Trimethylbenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
67. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
68. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
69. Vinyl Chloride	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
70. m&p-Xylene	U		µg/L	2.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
71. o-Xylene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 72. Xylenes	U		µg/L	3.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**Trip Blank**	Chain of Custody:	**139022**
Client Project Name:	**PSC - Detroit**	Sample No:	**3**	Collect Date:	**03/18/16**
Client Project No:	**NA**	Sample Matrix:	**Trip Blank**	Collect Time:	**08:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72366-003** **Matrix: Trip Blank**
Method: EPA 5030B/EPA 8260B **Description: Trip Blank**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/L	20	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
‡ 2. Acrylonitrile	U		µg/L	5.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
3. Benzene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
4. Bromobenzene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
5. Bromochloromethane	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
6. Bromodichloromethane	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
7. Bromoform	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
8. Bromomethane	U		µg/L	5.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
9. t-Butanol	U		µg/L	50	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
10. 2-Butanone	U		µg/L	5.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
11. n-Butylbenzene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
12. sec-Butylbenzene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
13. tert-Butylbenzene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
14. Carbon Disulfide	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
15. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
16. Chlorobenzene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
17. Chloroethane	U		µg/L	5.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
18. Chloroform	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
19. Chloromethane	U		µg/L	5.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
‡ 20. Cyclohexane	U		µg/L	5.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
21. Dibromochloromethane	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	5.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
23. Dibromomethane	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
24. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
25. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
26. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
28. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
29. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
30. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
31. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
32. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
33. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
34. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
35. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
36. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
37. Diethyl Ether	U		µg/L	5.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**Trip Blank**	Chain of Custody:	**139022**
Client Project Name:	**PSC - Detroit**	Sample No:	**3**	Collect Date:	**03/18/16**
Client Project No:	**NA**	Sample Matrix:	**Trip Blank**	Collect Time:	**08:00**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72366-003** **Matrix: Trip Blank**
Method: EPA 5030B/EPA 8260B **Description: Trip Blank**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 38. Diisopropyl Ether	U		µg/L	5.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
‡ 39. ETBE	U		µg/L	5.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
40. Ethylbenzene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
41. Ethylene Dibromide	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
‡ 42. Hexachloroethane	U		µg/L	5.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
43. 2-Hexanone	U		µg/L	5.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
44. Isopropylbenzene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
45. 4-Isopropyltoluene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
46. Methylene Chloride	U		µg/L	5.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
‡ 47. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
48. 4-Methyl-2-pentanone	U		µg/L	5.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
49. MTBE	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
50. Naphthalene	U		µg/L	5.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
51. n-Propylbenzene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
52. Styrene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
‡ 53. TAME	U		µg/L	5.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
54. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
55. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
56. Tetrachloroethene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
‡ 57. Tetrahydrofuran	U		µg/L	5.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
58. Toluene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
59. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
60. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
61. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
62. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
63. Trichloroethene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
64. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
65. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
‡ 66. 1,2,3-Trimethylbenzene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
67. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
68. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
69. Vinyl Chloride	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
70. m&p-Xylene	U		µg/L	2.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
71. o-Xylene	U		µg/L	1.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR
‡ 72. Xylenes	U		µg/L	3.0	1.0	03/22/16	VB16C22A	03/22/16	VB16C22A	DAR

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**Rinsate Blank**	Chain of Custody:	**139022**
Client Project Name:	**PSC - Detroit**	Sample No:	**4**	Collect Date:	**03/18/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:15**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72366-004** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: Rinsate Blank**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
1. Acetone	U		µg/L	20	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 2. Acrylonitrile	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
3. Benzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
4. Bromobenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
5. Bromochloromethane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
6. Bromodichloromethane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
7. Bromoform	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
8. Bromomethane	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
9. t-Butanol	U		µg/L	50	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
10. 2-Butanone	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
11. n-Butylbenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
12. sec-Butylbenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
13. tert-Butylbenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
14. Carbon Disulfide	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
15. Carbon Tetrachloride	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
16. Chlorobenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
17. Chloroethane	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
18. Chloroform	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
19. Chloromethane	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 20. Cyclohexane	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
21. Dibromochloromethane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 22. 1,2-Dibromo-3-chloropropane (SIM)	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
23. Dibromomethane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
24. 1,2-Dichlorobenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
25. 1,3-Dichlorobenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
26. 1,4-Dichlorobenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
27. trans-1,4-Dichloro-2-butene (SIM)	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
28. Dichlorodifluoromethane	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
29. 1,1-Dichloroethane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
30. 1,2-Dichloroethane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
31. 1,1-Dichloroethene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
32. cis-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
33. trans-1,2-Dichloroethene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
34. 1,2-Dichloropropane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
35. cis-1,3-Dichloropropene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
36. trans-1,3-Dichloropropene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
37. Diethyl Ether	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD

Client Identification:	**Bureau Veritas North America, Inc.**	Sample Description:	**Rinsate Blank**	Chain of Custody:	**139022**
Client Project Name:	**PSC - Detroit**	Sample No:	**4**	Collect Date:	**03/18/16**
Client Project No:	**NA**	Sample Matrix:	**Ground Water**	Collect Time:	**11:15**

Sample Comments:

Definitions: Q: Qualifier (see definitions at end of report) NA: Not Applicable ‡: Parameter not included in NELAC Scope of Analysis.

Volatile Organic Compounds (VOCs) by GC/MS **Aliquot ID: 72366-004** **Matrix: Ground Water**
Method: EPA 5030B/EPA 8260B **Description: Rinsate Blank**

Parameter(s)	Result	Q	Units	Reporting Limit	Dilution	Preparation P. Date	Preparation P. Batch	Analysis A. Date	Analysis A. Batch	Init.
‡ 38. Diisopropyl Ether	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 39. ETBE	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
40. Ethylbenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
41. Ethylene Dibromide	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 42. Hexachloroethane	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
43. 2-Hexanone	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
44. Isopropylbenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
45. 4-Isopropyltoluene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
46. Methylene Chloride	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 47. 2-Methylnaphthalene	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
48. 4-Methyl-2-pentanone	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
49. MTBE	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
50. Naphthalene	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
51. n-Propylbenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
52. Styrene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 53. TAME	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
54. 1,1,1,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
55. 1,1,2,2-Tetrachloroethane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
56. Tetrachloroethene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 57. Tetrahydrofuran	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
58. Toluene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
59. 1,2,3-Trichlorobenzene	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
60. 1,2,4-Trichlorobenzene	U		µg/L	5.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
61. 1,1,1-Trichloroethane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
62. 1,1,2-Trichloroethane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
63. Trichloroethene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
64. Trichlorofluoromethane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
65. 1,2,3-Trichloropropane	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 66. 1,2,3-Trimethylbenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
67. 1,2,4-Trimethylbenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
68. 1,3,5-Trimethylbenzene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
69. Vinyl Chloride	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
70. m&p-Xylene	U		µg/L	2.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
71. o-Xylene	U		µg/L	1.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD
‡ 72. Xylenes	U		µg/L	3.0	1.0	03/25/16	VH16C25A	03/25/16	VH16C25A	CCD

Definitions/ Qualifiers:

A: Spike recovery or precision unusable due to dilution.
B: The analyte was detected in the associated method blank.
E: The analyte was detected at a concentration greater than the calibration range, therefore the result is estimated.
J: The concentration is an estimated value.
M: Modified Method
U: The analyte was not detected at or above the reporting limit.
X: Matrix Interference has resulted in a raised reporting limit or distorted result.
W: Results reported on a wet-weight basis.
***:** Value reported is outside QC limits

Exception Summary:

ACCREDITED IN ACCORDANCE WITH nelac

Accreditation Number(s):

T104704518-16-5 (TX)

Fibertec environmental services

Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Aqueous

Preparation Batch: VB16C22A **Preparation Date: 03/22/16**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
		Result	RL		Result	Spike	Rec.	LCL - UCL		Rec.	RPD	UCL				
	Parameter	µg/L	µg/L	Q	µg/L	µg/L	%	%	Q	%	%	%	Q	MB	LCS	LCD
1.	Acetone	U	20		39.8	50.0	80	70 - 147		79	1	20		MB-1	LCS-1	LCD-1
2.	Acrylonitrile	U	5.0		43.5	50.0	87	70 - 147		87	0	20		MB-1	LCS-1	LCD-1
3.	Benzene	U	1.0		47.1	50.0	94	70 - 147		95	1	20		MB-1	LCS-1	LCD-1
4.	Bromobenzene	U	1.0		47.8	50.0	96	70 - 147		97	1	20		MB-1	LCS-1	LCD-1
5.	Bromochloromethane	U	1.0		43.2	50.0	86	70 - 147		86	0	20		MB-1	LCS-1	LCD-1
6.	Bromodichloromethane	U	1.0		46.7	50.0	93	70 - 147		94	1	20		MB-1	LCS-1	LCD-1
7.	Bromoform	U	1.0		54.3	50.0	109	70 - 147		107	2	20		MB-1	LCS-1	LCD-1
8.	Bromomethane	U	5.0		46.8	50.0	94	70 - 147		92	2	20		MB-1	LCS-1	LCD-1
9.	t-Butanol	U	50		339	300	113	70 - 147		111	2	20		MB-1	LCS-1	LCD-1
10.	2-Butanone	U	5.0		44.9	50.0	90	70 - 147		91	1	20		MB-1	LCS-1	LCD-1
11.	n-Butylbenzene	U	1.0		53.3	50.0	107	70 - 147		109	2	20		MB-1	LCS-1	LCD-1
12.	sec-Butylbenzene	U	1.0		51.8	50.0	104	70 - 147		106	2	20		MB-1	LCS-1	LCD-1
13.	tert-Butylbenzene	U	1.0		49.5	50.0	99	70 - 147		101	2	20		MB-1	LCS-1	LCD-1
14.	Carbon Disulfide	U	1.0		44.9	50.0	90	70 - 147		91	1	20		MB-1	LCS-1	LCD-1
15.	Carbon Tetrachloride	U	1.0		51.3	50.0	103	70 - 140		103	0	20		MB-1	LCS-1	LCD-1
16.	Chlorobenzene	U	1.0		48.7	50.0	97	70 - 147		99	2	20		MB-1	LCS-1	LCD-1
17.	Chloroethane	U	5.0		45.6	50.0	91	70 - 147		95	4	20		MB-1	LCS-1	LCD-1
18.	Chloroform	U	1.0		47.3	50.0	95	76 - 138		96	1	20		MB-1	LCS-1	LCD-1
19.	Chloromethane	U	5.0		39.9	50.0	80	70 - 147		80	0	20		MB-1	LCS-1	LCD-1
20.	Cyclohexane	U	5.0		40.8	50.0	82	70 - 147		84	2	20		MB-1	LCS-1	LCD-1
21.	Dibromochloromethane	U	1.0		50.5	50.0	101	70 - 147		101	0	20		MB-1	LCS-1	LCD-1
22.	1,2-Dibromo-3-chloropropane	U	5.0		54.1	50.0	108	70 - 147		110	2	20		MB-1	LCS-1	LCD-1
23.	Dibromomethane	U	1.0		52.1	50.0	104	70 - 147		104	0	20		MB-1	LCS-1	LCD-1
24.	1,2-Dichlorobenzene	U	1.0		48.4	50.0	97	70 - 147		99	2	20		MB-1	LCS-1	LCD-1
25.	1,3-Dichlorobenzene	U	1.0		47.8	50.0	96	70 - 147		98	2	20		MB-1	LCS-1	LCD-1
26.	1,4-Dichlorobenzene	U	1.0		46.4	50.0	93	70 - 147		96	3	20		MB-1	LCS-1	LCD-1
27.	trans-1,4-Dichloro-2-butene	U	5.0		59.7	50.0	119	70 - 147		121	2	20		MB-1	LCS-1	LCD-1
28.	Dichlorodifluoromethane	U	5.0		48.3	50.0	97	70 - 147		98	1	20		MB-1	LCS-1	LCD-1
29.	1,1-Dichloroethane	U	1.0		41.3	50.0	83	70 - 147		84	1	20		MB-1	LCS-1	LCD-1
30.	1,2-Dichloroethane	U	1.0		46.5	50.0	93	70 - 147		92	1	20		MB-1	LCS-1	LCD-1
31.	1,1-Dichloroethene	U	1.0		45.7	50.0	91	76 - 147		92	1	20		MB-1	LCS-1	LCD-1
32.	cis-1,2-Dichloroethene	U	1.0		44.1	50.0	88	70 - 147		90	2	20		MB-1	LCS-1	LCD-1
33.	trans-1,2-Dichloroethene	U	1.0		43.4	50.0	87	70 - 147		90	3	20		MB-1	LCS-1	LCD-1
34.	1,2-Dichloropropane	U	1.0		45.5	50.0	91	76 - 147		92	1	20		MB-1	LCS-1	LCD-1
35.	cis-1,3-Dichloropropene	U	1.0		54.5	50.0	109	70 - 147		108	1	20		MB-1	LCS-1	LCD-1
36.	trans-1,3-Dichloropropene	U	1.0		49.3	50.0	99	70 - 147		99	0	20		MB-1	LCS-1	LCD-1
37.	Diethyl Ether	U	5.0		42.9	50.0	86	70 - 147		87	1	20		MB-1	LCS-1	LCD-1
38.	Diisopropyl Ether	U	5.0		40.3	50.0	81	70 - 147		81	0	20		MB-1	LCS-1	LCD-1
39.	ETBE	U	5.0		43.4	50.0	87	70 - 147		88	1	20		MB-1	LCS-1	LCD-1
40.	Ethylbenzene	U	1.0		48.1	50.0	96	76 - 147		96	0	20		MB-1	LCS-1	LCD-1
41.	Ethylene Dibromide	U	1.0		48.8	50.0	98	70 - 147		98	0	20		MB-1	LCS-1	LCD-1
42.	Hexachloroethane	U	5.0		47.6	50.0	95	70 - 147		95	0	20		MB-1	LCS-1	LCD-1
43.	2-Hexanone	U	5.0		44.1	50.0	88	70 - 147		91	3	20		MB-1	LCS-1	LCD-1
44.	Isopropylbenzene	U	1.0		50.4	50.0	101	70 - 147		102	1	20		MB-1	LCS-1	LCD-1
45.	4-Isopropyltoluene	U	1.0		54.8	50.0	110	70 - 147		111	1	20		MB-1	LCS-1	LCD-1
46.	Methylene Chloride	U	5.0		41.9	50.0	84	70 - 147		85	1	20		MB-1	LCS-1	LCD-1
47.	2-Methylnaphthalene	U	5.0		56.6	50.0	113	70 - 147		115	2	20		MB-1	LCS-1	LCD-1
48.	4-Methyl-2-pentanone	U	5.0		48.4	50.0	97	70 - 147		97	0	20		MB-1	LCS-1	LCD-1
49.	MTBE	U	1.0		45.1	50.0	90	70 - 147		91	1	20		MB-1	LCS-1	LCD-1
50.	Naphthalene	U	5.0		52.9	50.0	106	70 - 147		109	3	20		MB-1	LCS-1	LCD-1
51.	n-Propylbenzene	U	1.0		47.5	50.0	95	70 - 147		97	2	20		MB-1	LCS-1	LCD-1

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Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Aqueous

Preparation Batch: VB16C22A **Preparation Date: 03/22/16**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/L	RL µg/L	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
52.	Styrene	U	1.0		49.9	50.0	100	70 - 147		101	1	20		MB-1	LCS-1	LCD-1
53.	TAME	U	5.0		43.7	50.0	87	70 - 147		88	1	20		MB-1	LCS-1	LCD-1
54.	1,1,1,2-Tetrachloroethane	U	1.0		52.9	50.0	106	70 - 147		108	2	20		MB-1	LCS-1	LCD-1
55.	1,1,2,2-Tetrachloroethane	U	1.0		45.0	50.0	90	70 - 147		90	0	20		MB-1	LCS-1	LCD-1
56.	Tetrachloroethene	U	1.0		52.0	50.0	104	70 - 147		106	2	20		MB-1	LCS-1	LCD-1
57.	Tetrahydrofuran	U	5.0		41.2	50.0	82	70 - 147		85	4	20		MB-1	LCS-1	LCD-1
58.	Toluene	U	1.0		48.3	50.0	97	76 - 147		99	2	20		MB-1	LCS-1	LCD-1
59.	1,2,3-Trichlorobenzene	U	5.0		52.6	50.0	105	70 - 147		106	1	20		MB-1	LCS-1	LCD-1
60.	1,2,4-Trichlorobenzene	U	5.0		55.2	50.0	110	70 - 147		113	3	20		MB-1	LCS-1	LCD-1
61.	1,1,1-Trichloroethane	U	1.0		45.7	50.0	91	70 - 147		92	1	20		MB-1	LCS-1	LCD-1
62.	1,1,2-Trichloroethane	U	1.0		49.5	50.0	99	70 - 147		100	1	20		MB-1	LCS-1	LCD-1
63.	Trichloroethene	U	1.0		51.5	50.0	103	71 - 157		105	2	20		MB-1	LCS-1	LCD-1
64.	Trichlorofluoromethane	U	1.0		47.9	50.0	96	70 - 147		95	1	20		MB-1	LCS-1	LCD-1
65.	1,2,3-Trichloropropane	U	1.0		51.0	50.0	102	70 - 147		105	3	20		MB-1	LCS-1	LCD-1
66.	1,2,3-Trimethylbenzene	U	1.0		45.4	50.0	91	70 - 147		93	2	20		MB-1	LCS-1	LCD-1
67.	1,2,4-Trimethylbenzene	U	1.0		51.4	50.0	103	70 - 147		105	2	20		MB-1	LCS-1	LCD-1
68.	1,3,5-Trimethylbenzene	U	1.0		48.9	50.0	98	70 - 147		101	3	20		MB-1	LCS-1	LCD-1
69.	Vinyl Chloride	U	1.0		44.8	50.0	90	76 - 147		92	2	20		MB-1	LCS-1	LCD-1
70.	m&p-Xylene	U	2.0		99.7	100	100	70 - 147		100	0	20		MB-1	LCS-1	LCD-1
71.	o-Xylene	U	1.0		49.2	50.0	98	70 - 147		98	0	20		MB-1	LCS-1	LCD-1

		Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	System Monitoring Compounds (Surrogates):	Result µg/L	Spike µg/L	Rec. %	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Dibromofluoromethane(S)	47.7	50.0	95		48.2	50.0	96	80 - 120		96	0	20		MB-1	LCS-1	LCD-1
2.	1,2-Dichloroethane-d4(S)	46.4	50.0	93		46.6	50.0	93	52 - 150		96	3	20		MB-1	LCS-1	LCD-1
3.	Toluene-d8(S)	49.6	50.0	99		50.2	50.0	100	80 - 120		99	1	20		MB-1	LCS-1	LCD-1
4.	4-Bromofluorobenzene(S)	48.4	50.0	97		49.2	50.0	98	80 - 120		96	2	20		MB-1	LCS-1	LCD-1

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-1	VB16C22A	03/22/16 11:13
LCS-1	VB16C22A	03/22/16 09:53
LCD-1	VB16C22A	03/22/16 10:20

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Amanda Ry

By Amanda Petrovsky at 1:23 PM, Mar 28, 2016

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Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Aqueous

Preparation Batch: VH16C25A **Preparation Date: 03/25/16**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
		Result	RL		Result	Spike	Rec.	LCL - UCL		Rec.	RPD	UCL				
	Parameter	µg/L	µg/L	Q	µg/L	µg/L	%	%	Q	%	%	%	Q	MB	LCS	LCD
1.	Acetone	U	20		45.0	50.0	90	70 - 147		94	4	20		MB-2	LCS-2	LCD-2
2.	Acrylonitrile	U	5.0		49.4	50.0	99	70 - 147		100	1	20		MB-2	LCS-2	LCD-2
3.	Benzene	U	1.0		53.7	50.0	107	70 - 147		108	1	20		MB-2	LCS-2	LCD-2
4.	Bromobenzene	U	1.0		52.8	50.0	106	70 - 147		107	1	20		MB-2	LCS-2	LCD-2
5.	Bromochloromethane	U	1.0		49.8	50.0	100	70 - 147		102	2	20		MB-2	LCS-2	LCD-2
6.	Bromodichloromethane	U	1.0		51.0	50.0	102	70 - 147		104	2	20		MB-2	LCS-2	LCD-2
7.	Bromoform	U	1.0		50.5	50.0	101	70 - 147		102	1	20		MB-2	LCS-2	LCD-2
8.	Bromomethane	U	5.0		44.3	50.0	89	70 - 147		88	1	20		MB-2	LCS-2	LCD-2
9.	t-Butanol	U	50		301	300	100	70 - 147		106	6	20		MB-2	LCS-2	LCD-2
10.	2-Butanone	U	5.0		54.2	50.0	108	70 - 147		109	1	20		MB-2	LCS-2	LCD-2
11.	n-Butylbenzene	U	1.0		58.7	50.0	117	70 - 147		119	2	20		MB-2	LCS-2	LCD-2
12.	sec-Butylbenzene	U	1.0		58.3	50.0	117	70 - 147		119	2	20		MB-2	LCS-2	LCD-2
13.	tert-Butylbenzene	U	1.0		53.8	50.0	108	70 - 147		109	1	20		MB-2	LCS-2	LCD-2
14.	Carbon Disulfide	U	1.0		46.7	50.0	93	70 - 147		94	1	20		MB-2	LCS-2	LCD-2
15.	Carbon Tetrachloride	U	1.0		52.0	50.0	104	70 - 140		105	1	20		MB-2	LCS-2	LCD-2
16.	Chlorobenzene	U	1.0		47.6	50.0	95	70 - 147		97	2	20		MB-2	LCS-2	LCD-2
17.	Chloroethane	U	5.0		48.5	50.0	97	70 - 147		100	3	20		MB-2	LCS-2	LCD-2
18.	Chloroform	U	1.0		54.2	50.0	108	76 - 138		109	1	20		MB-2	LCS-2	LCD-2
19.	Chloromethane	U	5.0		44.6	50.0	89	70 - 147		90	1	20		MB-2	LCS-2	LCD-2
20.	Cyclohexane	U	5.0		48.4	50.0	97	70 - 147		98	1	20		MB-2	LCS-2	LCD-2
21.	Dibromochloromethane	U	1.0		49.5	50.0	99	70 - 147		101	2	20		MB-2	LCS-2	LCD-2
22.	1,2-Dibromo-3-chloropropane	U	5.0		50.2	50.0	100	70 - 147		101	1	20		MB-2	LCS-2	LCD-2
23.	Dibromomethane	U	1.0		49.2	50.0	98	70 - 147		102	4	20		MB-2	LCS-2	LCD-2
24.	1,2-Dichlorobenzene	U	1.0		51.5	50.0	103	70 - 147		108	5	20		MB-2	LCS-2	LCD-2
25.	1,3-Dichlorobenzene	U	1.0		52.8	50.0	106	70 - 147		105	1	20		MB-2	LCS-2	LCD-2
26.	1,4-Dichlorobenzene	U	1.0		46.5	50.0	93	70 - 147		93	0	20		MB-2	LCS-2	LCD-2
27.	trans-1,4-Dichloro-2-butene	U	5.0		60.8	50.0	122	70 - 147		123	1	20		MB-2	LCS-2	LCD-2
28.	Dichlorodifluoromethane	U	5.0		52.8	50.0	106	70 - 147		107	1	20		MB-2	LCS-2	LCD-2
29.	1,1-Dichloroethane	U	1.0		48.6	50.0	97	70 - 147		100	3	20		MB-2	LCS-2	LCD-2
30.	1,2-Dichloroethane	U	1.0		47.6	50.0	95	70 - 147		98	3	20		MB-2	LCS-2	LCD-2
31.	1,1-Dichloroethene	U	1.0		51.2	50.0	102	76 - 147		102	0	20		MB-2	LCS-2	LCD-2
32.	cis-1,2-Dichloroethene	U	1.0		50.8	50.0	102	70 - 147		103	1	20		MB-2	LCS-2	LCD-2
33.	trans-1,2-Dichloroethene	U	1.0		49.8	50.0	100	70 - 147		103	3	20		MB-2	LCS-2	LCD-2
34.	1,2-Dichloropropane	U	1.0		52.3	50.0	105	76 - 147		106	1	20		MB-2	LCS-2	LCD-2
35.	cis-1,3-Dichloropropene	U	1.0		56.4	50.0	113	70 - 147		114	1	20		MB-2	LCS-2	LCD-2
36.	trans-1,3-Dichloropropene	U	1.0		51.5	50.0	103	70 - 147		105	2	20		MB-2	LCS-2	LCD-2
37.	Diethyl Ether	U	5.0		48.5	50.0	97	70 - 147		99	2	20		MB-2	LCS-2	LCD-2
38.	Diisopropyl Ether	U	5.0		49.2	50.0	98	70 - 147		101	3	20		MB-2	LCS-2	LCD-2
39.	ETBE	U	5.0		48.5	50.0	97	70 - 147		101	4	20		MB-2	LCS-2	LCD-2
40.	Ethylbenzene	U	1.0		53.4	50.0	107	76 - 147		109	2	20		MB-2	LCS-2	LCD-2
41.	Ethylene Dibromide	U	1.0		50.1	50.0	100	70 - 147		105	5	20		MB-2	LCS-2	LCD-2
42.	Hexachloroethane	U	5.0		51.9	50.0	104	70 - 147		103	1	20		MB-2	LCS-2	LCD-2
43.	2-Hexanone	U	5.0		52.4	50.0	105	70 - 147		106	1	20		MB-2	LCS-2	LCD-2
44.	Isopropylbenzene	U	1.0		54.6	50.0	109	70 - 147		114	4	20		MB-2	LCS-2	LCD-2
45.	4-Isopropyltoluene	U	1.0		57.6	50.0	115	70 - 147		117	2	20		MB-2	LCS-2	LCD-2
46.	Methylene Chloride	U	5.0		47.1	50.0	94	70 - 147		96	2	20		MB-2	LCS-2	LCD-2
47.	2-Methylnaphthalene	U	5.0		54.3	50.0	109	70 - 147		104	5	20		MB-2	LCS-2	LCD-2
48.	4-Methyl-2-pentanone	U	5.0		50.3	50.0	101	70 - 147		102	1	20		MB-2	LCS-2	LCD-2
49.	MTBE	U	1.0		47.8	50.0	96	70 - 147		99	3	20		MB-2	LCS-2	LCD-2
50.	Naphthalene	U	5.0		54.0	50.0	108	70 - 147		106	2	20		MB-2	LCS-2	LCD-2
51.	n-Propylbenzene	U	1.0		55.8	50.0	112	70 - 147		113	1	20		MB-2	LCS-2	LCD-2

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Quality Control Report
Preparation Batch QC Summary
Gas Chromatography - Mass Spectrometry (Volatiles)
Aqueous

Preparation Batch: VH16C25A **Preparation Date: 03/25/16**

		Method Blank (MB)			Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	Parameter	Result µg/L	RL µg/L	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
52.	Styrene	U	1.0		53.1	50.0	106	70 - 147		109	3	20		MB-2	LCS-2	LCD-2
53.	TAME	U	5.0		46.2	50.0	92	70 - 147		96	4	20		MB-2	LCS-2	LCD-2
54.	1,1,1,2-Tetrachloroethane	U	1.0		55.8	50.0	112	70 - 147		114	2	20		MB-2	LCS-2	LCD-2
55.	1,1,2,2-Tetrachloroethane	U	1.0		49.5	50.0	99	70 - 147		101	2	20		MB-2	LCS-2	LCD-2
56.	Tetrachloroethene	U	1.0		53.1	50.0	106	70 - 147		107	1	20		MB-2	LCS-2	LCD-2
57.	Tetrahydrofuran	U	5.0		49.7	50.0	99	70 - 147		100	1	20		MB-2	LCS-2	LCD-2
58.	Toluene	U	1.0		52.6	50.0	105	76 - 147		107	2	20		MB-2	LCS-2	LCD-2
59.	1,2,3-Trichlorobenzene	U	5.0		51.8	50.0	104	70 - 147		103	1	20		MB-2	LCS-2	LCD-2
60.	1,2,4-Trichlorobenzene	U	5.0		53.9	50.0	108	70 - 147		108	0	20		MB-2	LCS-2	LCD-2
61.	1,1,1-Trichloroethane	U	1.0		52.2	50.0	104	70 - 147		106	2	20		MB-2	LCS-2	LCD-2
62.	1,1,2-Trichloroethane	U	1.0		50.9	50.0	102	70 - 147		106	4	20		MB-2	LCS-2	LCD-2
63.	Trichloroethene	U	1.0		52.8	50.0	106	71 - 157		105	1	20		MB-2	LCS-2	LCD-2
64.	Trichlorofluoromethane	U	1.0		49.4	50.0	99	70 - 147		100	1	20		MB-2	LCS-2	LCD-2
65.	1,2,3-Trichloropropane	U	1.0		51.4	50.0	103	70 - 147		104	1	20		MB-2	LCS-2	LCD-2
66.	1,2,3-Trimethylbenzene	U	1.0		50.9	50.0	102	70 - 147		104	2	20		MB-2	LCS-2	LCD-2
67.	1,2,4-Trimethylbenzene	U	1.0		56.9	50.0	114	70 - 147		116	2	20		MB-2	LCS-2	LCD-2
68.	1,3,5-Trimethylbenzene	U	1.0		53.8	50.0	108	70 - 147		111	3	20		MB-2	LCS-2	LCD-2
69.	Vinyl Chloride	U	1.0		52.6	50.0	105	76 - 147		107	2	20		MB-2	LCS-2	LCD-2
70.	m&p-Xylene	U	2.0		111	100	111	70 - 147		112	1	20		MB-2	LCS-2	LCD-2
71.	o-Xylene	U	1.0		54.8	50.0	110	70 - 147		108	2	20		MB-2	LCS-2	LCD-2

		Method Blank (MB)				Laboratory Control Sample (LCS)					LCS Duplicate (LCD)				Run Code		
	System Monitoring Compounds (Surrogates):	Result µg/L	Spike µg/L	Rec. %	Q	Result µg/L	Spike µg/L	Rec. %	LCL - UCL %	Q	Rec. %	RPD %	UCL %	Q	MB	LCS	LCD
1.	Dibromofluoromethane(S)	51.8	50.0	104		51.9	50.0	104	80 - 120		105	1	20		MB-2	LCS-3	LCD-3
2.	1,2-Dichloroethane-d4(S)	52.7	50.0	105		52.1	50.0	104	52 - 150		106	2	20		MB-2	LCS-3	LCD-3
3.	Toluene-d8(S)	48.9	50.0	98		50.3	50.0	101	80 - 120		101	0	20		MB-2	LCS-3	LCD-3
4.	4-Bromofluorobenzene(S)	49.0	50.0	98		49.6	50.0	99	80 - 120		99	0	20		MB-2	LCS-3	LCD-3

Definitions/ Qualifiers:

U: The analyte was not detected at or above the Reporting Limit (RL).
***:** Value reported is outside QC limits

Run Code (Analysis Sequence/Run Time):

MB-2	VH16C25A	03/25/16 13:01
LCS-2	VH16C25A	03/25/16 10:18
LCS-3	VH16C25A	03/25/16 11:51
LCD-2	VH16C25A	03/25/16 10:41
LCD-3	VH16C25A	03/25/16 12:14

Exception Summary:

Exceptions have been properly noted on reported results or affected samples have been scheduled for reanalysis when appropriate.

Report Generated By:

Amanda Ry

By Amanda Petrovsky at 1:23 PM, Mar 28, 2016

Fibertec environmental services

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1914 Holloway Drive
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Fax: 517 699 0388
email: lab@fibertec.us

8660 S. Mackinaw Trail
Cadillac, MI 49601
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Industrial Hygiene Services, Inc.
1914 Holloway Drive
Holt, MI 48842
Phone: 517 699 0345
Fax: 517 699 0382
email: asbestos@fibertec.us

Geoprobe
11766 E. Grand River
Brighton, MI 48116
Phone: 810 220 3300
Fax: 810 220 3311

Chain of Custody # 139022
PAGE 1 of 1

Client Name: Bureau Veritas
Contact Person: Kellie Wise
Project Name/ Number: PSC - Detroit | 11014-000075.00
QUOTE#
Purchase Order#

Lab Sample #	Date	Time	Client Sample #	Client Sample Descriptor	MATRIX (SEE RIGHT CORNER FOR CODE)	# OF CONTAINERS	PRESERVED (Y/N)	VOCs
	3/18/16	1054		MW-11	G	3	Y	X
		939		MW-12	G	3	Y	X
		800		Trip Blank	G	3	Y	X
	↓	1115		Rinsate Blank	G	3	Y	X

PARAMETERS

Turnaround
- [ ] 24 hour RUSH (surcharge applies)
- [ ] 48 hour RUSH (surcharge applies)
- [ ] 72 hour RUSH (surcharge applies)
- [x] Standard (5-7 bus. days)
- [ ] Other: Specify

Matrix Code
S Soil | GW Ground Water
A Air | SW Surface Water
O Oil | WW Waste Water
P Wipe | X Other: Specify

- [ ] FES Drilling Services

Remarks:

Deliverables
- [ ] Level 2
- [ ] Level 3
- [ ] Level 4
- [ ] EDD

Comments: Use Special VOC test called VOC-BV1

Relinquished By:	Date/ Time	Received By:
Kellie Wise		3/21/16 9:41
Relinquished By:	Date/ Time	Received By:
	3/21/16 3:27	
Relinquished By:	Date/ Time	Received By Laboratory:

LAB USE ONLY:
Fibertec project number: 72366
Laboratory Tracking:
Temperature at Receipt: 4.1°C RECEIVED ON ICE

RCVD BY LAB MAR 21 2016

COC Revision: February 2013

TERMS & CONDITIONS ON BACK

Initial: AS