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5 September 2017

Ms. Raji Josiam
Task Order Monitor
U.S. Environmental Protection Agency (EPA) Region 6
1445 Ross Avenue
Dallas, TX 75202-2733

RE: Data Evaluation Summary Report
November 2016 Field Event
U.S. Oil Recovery Superfund Site
Remedial Investigation/Feasibility Study Oversight
Remedial Action Contract 2
Contract: EP-W-06-004
Task Order: 0144-RSBD-A6MY

Dear Ms. Josiam:

EA Engineering, Science, and Technology, Inc., PBC (EA) is providing one hard copy and one electronic copy via email of the Data Evaluation Summary Report for the field activities that occurred in November 2016 at the U.S. Oil Recovery Superfund Site. Mr. Lam Tran with the Texas Commission on Environmental Quality (TCEQ) will also receive a hard copy of the documents and has been sent an electronic copy via email.

If you have any questions regarding this document, please call me at (972) 459-5019.

Sincerely,

April Ballweg

April Ballweg, P.E., PMP
Project Manager

Enclosure

cc: Brian Delaney, EPA Contracting Officer (Letter only)
William G. Johnson Jr., EPA Project Officer (Letter only)
Lam Tran, TCEQ
File

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TRANSMITTAL OF DOCUMENTS FOR ACCEPTANCE BY EPA	DATE: **5 September 2017**	TRANSMITTAL NO.: **0015**

TO:	FROM:
Ms. Raji Josiam **U.S. Environmental Protection Agency Region 6 (EPA)**	**April Ballweg** **EA Engineering, Science, and Technology, Inc., PBC**

SUBTASK NO.	DELIVERABLE	NO. OF COPIES
6	Data Evaluation Summary Report November 2016 Field Event U.S. Oil Recovery Superfund Site Remedial Investigation/Feasibility Study Oversight	EPA: 1 Hard Copy and 1 Electronic Copy via Email Texas Commission on Environmental Quality: 1 Hard Copy and 1 Electronic Copy via Email

ACCEPTANCE ACTION	
DOCUMENTS FOUND ACCEPTABLE (LIST BY SUBTASK NO.)	NAME/TITLE/SIGNATURE OF REVIEWER DATE

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Data Evaluation Summary Report

Remedial Investigation/Feasibility Study Oversight
U.S. Oil Recovery Superfund Site
Area of Investigation 1
Pasadena, Harris County, Texas
EPA Identification No. TXN000607093

Remedial Action Contract 2 Full Service
Contract: EP-W-06-004
Task Order: 0144-RSBD-A6MY

Prepared for
U.S. Environmental Protection Agency
Region 6
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Revision: 00

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LIST OF ACRONYMS AND ABBREVIATIONS

bgs	Below ground surface
CRQL	Contract-required Quantitation Limit
DESR	Data Evaluation Summary Report
DQO	Data quality objectives
EA	EA Engineering, Science, and Technology, Inc., PBC
EPA	U.S. Environmental Protection Agency
FS	Feasibility Study
ft	Feet/foot
ICP	Inductively-coupled plasma
LCS	Laboratory control sample
LL	Low-level
MDL	Method detection limit
MS	Matrix spike
MSD	Matrix spike duplicate
PARCC	Precision, accuracy, representativeness, completeness, and comparability
%R	Percent recovery
PRP	Potentially responsible party
QA	Quality assurance
QC	Quality control
RI	Remedial Investigation
RPD	Relative percent difference
SAP	Sampling and Analysis Plan
SDG	Sample delivery group
site	U.S. Oil Recovery, Area of Investigation 1
SOP	Standard operating procedure
SOW	Statement of Work
SQL	Sample quantitation limit
SVOC	Semivolatile organic compound
SW	EPA SW-846
TestAmerica	TestAmerica Laboratories, Inc.

ED_004012_00007786-00010

1. INTRODUCTION

This document presents the Data Evaluation Summary Report (DESR) prepared by EA Engineering, Science, and Technology, Inc., PBC (EA) for the U.S. Oil Recovery (site), Area of Investigation 1, located in Pasadena, Harris County, Texas. This DESR documents and summarizes the analytical data collected during the Remedial Investigation (RI) and Feasibility Study (FS) oversight activities in November 2016. EA produced this DESR for the U.S. Environmental Protection Agency (EPA) Region 6 as part of Task Order No. 0144-RSBD-A6MY under Remedial Action Contract No. EP-W-06-004, in accordance with the Statement of Work (SOW) issued by EPA (2016a).

The purpose of the field investigation was to collect sufficient data to support the RI/FS oversight for the site. This DESR discusses the background soil sample results collected during the November 2016 oversight activities. The EPA SOW (2016a) and the EPA-approved Work Plan (EA 2016a) set forth the framework and requirements for this effort.

The purpose of the DESR is presented in Section 2. A data summary that compiles, tabulates, and summarizes the data collected during the November 2016 RI/FS activities is provided in Section 3. The quality assurance (QA)/quality control (QC) findings are presented in Section 4. Data evaluation parameters are presented in Section 5. The data quality objective (DQO) assessment and conclusions are presented in Section 6. References are provided in Section 7. Supporting materials follow the text.

2. PURPOSE

The purpose of this DESR is to summarize the analytical data quality and usability in accordance with the DQOs and data quality indicators presented in the EPA guidance (EPA 2002; 2006a). The DQO process is a series of planning steps designed to ensure that the type, quantity, and quality of environmental data used in decision-making are appropriate for the intended application.

The overall QA objectives are as follows:

- Collect split samples consistent with the Sampling and Analysis Plan (SAP) (EA 2016b)
- Obtain data of known quality to verify the potentially responsible party (PRP) assessment of the nature and extent of contamination and human health and ecological risks at the site
- Document the performance of the PRP's quality program, including performance of the work and required changes, if any, to planned work at the site.

In order to address the goals of the study, soil samples were collected as outlined in the SAP (EA 2016b) and analyzed for semivolatile organic compounds (SVOCs), pesticides, herbicides, and metals including mercury.

3. DATA SUMMARY

This section presents a summary of the soil data collected during the field investigation conducted 22 November 2016. EA collected four split samples from two soil sample locations including BGSB10 from 0.0 feet (ft) below ground surface (bgs) to 0.5 ft bgs and 1.0 to 2.0 ft bgs, and location BGSB22 from 0.0 to 0.5 ft bgs and 1.0 to 2.0 ft bgs. The samples were shipped overnight to the TestAmerica Laboratories, Inc. (TestAmerica) Pittsburgh, Pennsylvania, facility for analysis. The sample analysis parameters and testing methods are provided below.

- SVOCs—EPA Test Methods for Evaluating Solid Waste, Physical/Chemical Methods SW-846 (SW) 8270D low-level (LL)
- Organochlorine pesticides—EPA SW8081B LL
- Chlorinated herbicides—EPA SW8151A
- Metals (project-specific list)—EPA SW6020A
- Mercury—EPA SW7471B.

The analytical data results for the November 2016 sampling event are included in the TestAmerica sample delivery group (SDG) 180-61122. The TestAmerica laboratory data report for the samples collected in November 2016 is included in Appendix B of this DESR. The split sample results for both TestAmerica and the PRP laboratory are presented in Appendix A.

4. QUALITY ASSURANCE/QUALITY CONTROL

This section describes the QA/QC findings from the data validation performed on the analytical data for the samples collected November 2016. The following sections present the QA/QC results of the validation performed in accordance with the following documents:

- *EPA National Functional Guidelines for Inorganic Superfund Methods Data Review, 540-R-2016-001* (EPA 2016b)
- *EPA National Functional Guidelines for Superfund Organic Methods Data Review, 540-R-2016-002* (EPA 2016c)

- *SAP, Remedial Investigation/Feasibility Study Oversight, U.S. Oil Recovery Superfund Site, Area of Investigation 1, Pasadena, Harris County, Texas* (EA 2016b).

The qualifier definitions presented on Table 1 provide a brief explanation for the data qualifiers that may be applied to the analytical data during the validation process. The definitions are consistent with EPA guidance (2016b; 2016c).

TABLE 1 DATA VALIDATION QUALIFIERS

Qualifier	Definition
Data Qualifier Definitions	
No Qualifier	Indicates that the data are acceptable both qualitatively and quantitatively.
U	The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.
J	The result is an estimated quantity. The associated numerical value is the approximate concentration of the analyte in the sample. The data are valid for project use to achieve project data quality objectives (DQOs).
J+	The result is an estimated concentration, but the result may be biased high. The data are valid for project use to achieve project DQOs.
J-	The result is an estimated concentration, but the result may be biased low. The data are valid for project use to achieve project DQOs.
UJ	The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate. The data are valid for project use to achieve project DQOs.
R	The sample results are not usable to achieve project DQOs based on certain QC criteria outside of acceptance limits. The analyte may or may not be present in the sample.

The data validation findings are summarized in the following sections and also in the Data Validation Report included in Appendix C. The following sections address data validation findings that resulted in the qualification of data. Data quality indicator exceedances that did not result in qualification of data are not included in the following sections but are presented in the individual sample delivery group data validation reports.

4.1 CHAIN OF CUSTODY AND SAMPLE RECEIPT

SDG 180-61122

The samples were received by TestAmerica under appropriate chain of custody, in good condition, and the cooler temperature was 2.5 degrees centigrade upon receipt at the laboratory.

4.2 HOLDING TIMES

SDG 180-61122

The samples were extracted and analyzed within the method-specific holding times.

4.3 CALIBRATION CRITERIA

SDG 180-61122

No calibration criteria were exceeded that resulted in data qualification.

4.4 BLANK DETECTIONS

SDG 180-61122

Laboratory method and calibration blanks were prepared and analyzed along with project samples. Results are within method QC criteria for all analytical parameters.

4.5 LABORATORY CONTROL SAMPLES

Laboratory control samples (LCSs) were prepared and analyzed as required by the analytical method. The LCS percent recovery (%R) is within method control limits for target analytes, with the exceptions noted below.

SDG 180-61122

- SVOCs—the LCS %Rs are below method control limits for benzaldehyde and hexachloroethane. The benzaldehyde result for sample BGSB22-(0.0-0.5)-161122-S was already "J" qualified because the result is an estimated value below the reporting limit. A "J-" qualifier was applied to reflect potential low bias data. The other project sample results for benzaldehyde, as well as the results for hexachloroethane, are non-detect and have been flagged as estimated with the "UJ-" qualifier due to evidence of potential low bias.

- Pesticides—the LCS %Rs are below method control limits for delta-BHC, 4,4'-dichlorodiphenyltrichloroethane (DDT), and methoxychlor. The corresponding project sample results are "UJ" and "J" qualified, signifying estimated non-detect and detect values due to evidence of potential low bias.

4.6 SURROGATE RECOVERIES

The surrogate %Rs are within method QC criteria with the exceptions noted below.

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Surrogate recoveries were within method control criteria for this SDG or did not result in data qualification due to required sample dilution.

4.7 MATRIX SPIKE, MATRIX SPIKE DUPLICATE AND LABORATORY DUPLICATE SAMPLES

Matrix spike (MS), matrix spike duplicate (MSD), and laboratory duplicate samples were prepared and analyzed according to the analytical method and project requirements. The %R and relative percent difference (RPD) for the QC samples is within project-specific QC limits, with the exceptions noted below.

SDG 180-61122

- SVOCs—the %Rs are below project-specific QC limits for the MS and/or MSD samples prepared with sample BGSB22-(0.0-0.5)-161122-S for SVOC analytes 1,4-dioxane, 2,4-dimethylphenol, 2,4-dinitrophenol, atrazine, benzaldehyde, benzo(b)fluoranthene, benzo(k)fluoranthene, bis(2-chloroethoxy)methane, bis(2-chloroethyl)ether, hexachlorobutadiene, hexachlorocyclopentadiene, hexachloroethane, naphthalene, nitrobenzene, phenol, pyrene, and 3,3'-dichlorobenzidine. The results for these analytes in the associated sample have been flagged "UJ" as estimated non-detect and flagged "J-" for estimated detect values.

- SVOCs—the %Rs for caprolactam are below 10 percent for the MS/MSD samples prepared with sample BGSB22-(0.0-0.5)-161122-S. The caprolactam result for this sample has been qualified "R" signifying rejected and not usable data.

- Metals—the %Rs are below project-specified QC limits for the MS and/or MSD prepared with sample BGSB22-(0.0-0.5)-161122-S for arsenic, barium, and zinc. The results for these analytes in the associated sample are "J-"qualified due to potential low bias.

4.8 POST-DIGESTION SPIKE SAMPLE

The post-digestion spike sample was prepared and analyzed according to analytical method requirements to assess spike recovery within a sample matrix. Spike results met QC limits with the exceptions noted below.

SDG 180-61122

- The manganese %R for sample BGSB22-(0.0-0.5)-161122-S exceeded QC limits and the result has been "J-"qualified as estimated data due to potential low bias.

4.9 ICP SERIAL DILUTION

The inductively-coupled plasma (ICP) serial dilution sample was prepared and analyzed according to method and project requirements to assess whether significant physical or chemical interferences exist due to sample matrix. ICP serial dilution results met QC limits with the exceptions noted below.

SDG 180-61122

- The percent difference for the ICP serial dilution sample BGSB22-(0.0-0.5)-161122-S exceeded QC limits for beryllium, and the result has been "J" qualified signifying estimated data.

4.10 TARGET COMPOUND IDENTIFICATION

Target compound identification was assessed for the SVOC and pesticide methods analyzed by gas chromatography and gas chromatography/mass spectrometry. Mass spectra criteria and/or second column confirmation criteria were within acceptance limits for detected analytes with the exceptions noted below.

SDG 180-61122

- The second column confirmation for sample BGSB22-(0.0-0.5)-161122-S for pesticide analytes 4,4'-dichlorodiphenyldichloroethane (DDD), 4,4'-DDT, 4.4'-dichlorodiphenyldichloroethylene, heptachlor, and heptachlor epoxide exceeded the method acceptance limits; the lower values are reported and are "J" qualified

- The second column confirmation for sample BGSB10-(0.0-0.5)-161122-S for pesticide analytes cis-chlordane, dieldrin, and heptachlor epoxide exceeded the method acceptance limits; the lower values are reported and are "J" qualified

- The second column confirmation for sample BGSB10-(1-2)-161122-S for pesticide analytes cis-chlordane and 4,4'-DDD exceeded the method acceptance limits; the lower values are reported and are "J" qualified.

4.11 SAMPLE QUANTITATION AND REPORTED DETECTION LIMITS

Project samples were analyzed at various dilutions as required by the analytical method, due to elevated concentrations of target analytes in the sample and using a low-level method for analysis or due to sample matrix interference. The analytical results for project samples were reported on a dry-weight basis (corrected for percent moisture). Detected data results below the reporting limit and above the method detection limit (MDL) were "J" qualified as estimated values. Non-detected sample results were reported at the MDL with a "U" qualifier. Samples requiring dilutions are listed below.

SDG 180-61122

- Sample BGSB10-(0.0-0.5)-161122-S (10-fold dilution for SVOCs, 5-fold dilution for organochlorine pesticides, and 20-fold dilution for herbicides)
- Sample BGSB10-(1-2)-161122-S (5-fold dilution for SVOCs, 5-fold dilution for organochlorine pesticides, and 20-fold dilution for herbicides)
- Sample BGSB22-(0.0-0.5)-161122-S (5-fold dilution for organochlorine pesticides and 20-fold dilution for herbicides)
- Sample BGSB22-(1-2)-161122-S (5-fold dilution for organochlorine pesticides, 20-fold dilution for herbicides, and 10-fold dilution for manganese).

5. DATA EVALUATION PARAMETERS

The data were evaluated for acceptable quality and quantity based on the quality indicator parameters including precision, accuracy, representativeness, completeness, and comparability, (PARCC). To the extent possible, EA followed EPA's data quality assessment process (EPA 2006b; 2006c). This evaluation helps determine whether limitations should be placed on the data and to verify that the type, quality, and quantity of data that are collected are appropriate for their intended use. The PARCC parameters were reviewed for the laboratory analytical data results and are discussed in the following sections.

A well-defined QA/QC process is integral to the generation of analytical data of known and documented quality. The QC process includes those activities required during data collection to produce data of sufficient quality to support the decisions that will be made based on the data (e.g., comparison to the PRP sample data). After environmental data are collected, QA activities focus on evaluating the quality of the data in order to determine the data usability with respect to the support for remedial or enforcement decisions. Table 2 presents the acceptance criteria for definitive laboratory data for chemical analyses of investigation samples only.

5.1 DATA CATEGORIES

In order to produce data suitable for decision-making, an appropriate analytical technique must be selected. The EPA Superfund program has developed two descriptive categories of analytical techniques: (1) field-based techniques and (2) fixed-laboratory techniques. The type of data generated depends on the qualitative and quantitative DQOs developed for a project. Regardless of how the data were analyzed, they must be of adequate quality for the decision-making process for which they were collected. For this project, analysis was performed using fixed-laboratory techniques.

Rigorous analytical methods are used to generate analyte-specific, definitive data. The definitive quality of the data is assured by: (1) using standard operating procedures (SOPs) and QC processes during data collection; (2) documented control and traceability of reference standards, calibrations, and instrument performance; and (3) acceptable performance of field and laboratory QC procedures within the defined limits established for these procedures.

TABLE 2 QUALITY ASSURANCE INDICATOR CRITERIA

Indicator Parameter	Analytical Parameter	QC Sample[a]	Acceptance Criteria for Laboratory Analysis
Accuracy (percent recovery)	SVOCs, Pesticides, Herbicides	MS MSD Blanks[b]	50 to 150 percent recovery (MS/MSD) Less than CRQL (blanks)
	Metals, Mercury	MS/MSD LCS Reference samples Blanks[b]	75 to 125 percent recovery (MS/MSD) 80 to 120 percent recovery (LCS) Limits per supplier (Ref sample) Less than CRQL (blanks)
Precision (RPD)	SVOCs, Pesticides, Herbicides	MS MSD Field duplicates	30 percent RPD (MS/MSD) 50 percent RPD (Field duplicates)
	Metals, Mercury	MS MSD or MD Field duplicates Lab duplicates	20 percent RPD (MS, MSD, MD aqueous) 35 percent RPD (MS, MSD, MD solid) 50 percent RPD (field duplicates) 25 percent (lab duplicates)
Sensitivity (quantitation limits)	Analytical tests	MS MD or MSD Field duplicates Lab duplicates	Not applicable
Completeness	The objective for data completeness is 90 percent.		
Representativeness	The sampling network and analytical methods for this site are designed to provide data that are representative of site conditions.		
Comparability	The use of standard published sampling and analytical methods, and the use of QC samples, will ensure data of known quality. These data can be compared to other data of known quality.		

NOTE:

[a] Not all listed QC samples apply to all analytical parameters. QC samples are analytical method specific.

[b] May include method blanks, reagent blanks, instrument blanks, calibration blanks, trip blanks and field blanks.

CRQL = Contract-required Quantitation Limit
LCS = Laboratory control sample
MD = Matrix duplicate
MS = Matrix spike
MSD = Matrix spike duplicate
QC = Quality control
RPD = Relative percent difference
SVOC = Semivolatile organic compound

5.2 MEASUREMENT QUALITY OBJECTIVES

Analytical results were evaluated in accordance with PARCC parameters to document the quality of the data and to ensure that the data are of sufficient quality to meet the project objectives. Of these PARCC parameters, precision and accuracy were evaluated quantitatively by collecting the QC check samples listed in Table 2.

The sections below describe each of the PARCC parameters and how they were assessed to meet the DOQs for this project.

5.2.1 Precision

Precision is the degree of mutual agreement between individual measurements of the same property under similar conditions. Usually, combined field and laboratory precision is evaluated by collecting and analyzing field duplicates and then calculating the variance between the samples, typically as a relative percent difference (RPD).

RPD is calculated as follows: $$\mathbf{RPD} = \frac{|A - B|}{(A + B)/2} \times 100\%$$

where: A = first duplicate concentration
B = second duplicate concentration.

Field sampling precision is typically evaluated by analyzing field duplicate samples; however, field duplicates of split samples were not collected during this sampling event. RPD evaluations are documented in the individual laboratory report for the sample delivery group that was validated for LCS and LCS duplicate pair. A summary of the soil samples collected is presented in Appendix A. A comparison of the PRP sample results and the split sample results collected by EA is discussed in Section 5.2.5.

5.2.2 Accuracy

Accuracy is the degree to which a measurement agrees with its true value and is expressed as percent recovery; acceptance criteria for each analytical methodology are stated in Table 2. Accuracy is assessed by comparing LCS and surrogate recoveries to associated QC limits. Through the process of data validation and review, LCS, and surrogate recoveries were evaluated for compliance with acceptance criteria for accuracy for each applicable analytical methodology.

LCSs or blank spikes are also analyzed at a frequency of 5 percent or per analytical batch. Surrogate standards, where available, are added to every sample analyzed for organic

constituents. The results of the spiked samples are used to calculate the percent recovery for evaluating accuracy. The evaluations of percent recovery are documented in Appendix C.

$$\text{Percent Recovery} = \frac{S - C}{T} \times 100\%$$

where: S = measured spike sample concentration
C = sample concentration
T = true or actual concentration of the spike.

5.2.3 Representativeness

Representativeness is a qualitative parameter and is defined by the degree to which data accurately and precisely represents a characteristic of a population, parameter variations at a sampling point, or a process or environmental condition. Representativeness requirements are satisfied by: (1) ensuring the SAP (EA 2016b) and the PRP sampling plans are followed; (2) verifying that samples are collected in accordance with the appropriate PRP SOPs, or that appropriate sampling techniques are used when PRP SOPs are not available; (3) following proper analytical procedures; and (4) not exceeding required maximum holding times.

EA observed the following deviation from PRP sampling plan during the field activities: samples SB-01 through SB-07 were relocated to the south due to the presence of concrete debris. Further information can be found in the project Daily Field Reports and Field Logbook, which were submitted to EPA in December 2016.

Samples were analyzed using EPA approved analytical methods. The PRP and EA split samples were analyzed within the holding time specified by EPA guidance and the analytical methods. Minor QC issues affecting the results that may or may not result in data qualification are identified in the laboratory data report case narrative (Appendix B).

5.2.4 Completeness

Completeness is defined as the percentage of measurements determined to be valid. The validity of sample results is determined through the data validation process. The rejected (R) sample results, if any, are considered to be invalid data. The data that are qualified as estimated (J, J-, or J+) or estimated non-detect data (UJ) are considered to be valid and usable to achieve project DQOs. The completeness is calculated and reported for each method and analyte combination. The number of valid results divided by the number of possible individual analyte results, expressed as a percentage, determines the completeness of the data set.

The percent of data completeness for the November 2016 sampling event is acceptable. Based on the data review, the completeness of deliverables is 100 percent. One SVOC data result is

"R" qualified, signifying rejected or unusable data; caprolactam for sample BGSB22-(0.0-0.5)-161122-S. The analytical data achieve greater than the 90 percent data completeness objective and the project DQOs. The November 2016 sample data are usable and meet the objectives of the site RI/FS oversight.

5.2.5 Comparability

Comparability of data is a qualitative parameter that expresses the confidence with which one data set may be compared to another. Comparability is attained by achieving the QA objectives for PARCC and may be measured by calculating the RPD between the PRP and EA split sample data results. For the purpose of making an evaluation, the field duplicate sample RPD criteria of 50 percent has been used to make a comparison of the EA and PRP split sample data. Due to differences in analytical method reporting limits between TestAmerica and the PRP laboratory, RPD was calculated when a concentration of an analyte was reported by both laboratories above the method detection limit. There were 5 analytical methods and 117 analytes reported by both EA and the PRP laboratories for each sample. The comparison of results is listed below and summarized on Table A-2.

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- Sample BGSB10-(0.0-0.5)-161122-S—17 of 18 SVOC detects exceed 50 percent RPD; 2 of 2 pesticide detects exceed 50 percent RPD; 2 of 16 metal and mercury detects exceed 50 percent RPD; no herbicide data meet criteria for comparison

- Sample BGSB10-(1-2)-161122-S—5 of 18 SVOC detects exceed 50 percent RPD; 2 of 18 metal and mercury detects exceed 50 percent RPD; no pesticide or herbicide data meet criteria for comparison

- Sample BGSB22-(0.0-0.5)-161122-S—7 of 8 SVOC detects exceed 50 percent RPD; 2 of 3 pesticide detects exceed 50 percent RPD; 11 of 16 metal and mercury detects exceed 50 percent RPD; no herbicide data meet criteria for comparison

- Sample BGSB22-(1-2)-161122-S—11 of 16 metal and mercury detects exceed 50 percent RPD; no SVOC, pesticide, or herbicide data meet criteria for comparison.

5.2.6 Sensitivity

Sensitivity is the measure of the signal from an instrument that represents an actual deflection or response above instrument noise. The analytical sensitivity is measured by the achievable MDL and reported with the applicable dilution factors, preparation factors, and dry-weight correction for each individual sample to achieve the method reporting limit or sample quantitation limit (SQL).

Ideally the method reporting limit provided by the laboratories is sufficient to achieve the project required screening values (i.e., human health screening levels) however, the laboratory is also able to report data to the MDL and "J" flag as estimated data in order to achieve screening criteria. The reporting limits listed on Table A-2 are the laboratory's MDL adjusted for sample dilution and percent moisture.

5.3 DETECTION AND QUANTITATION LIMITS

The analytical parameters and the quantitation limits reported by the laboratories for this project are determined by the analytical methods and implementation of the methods by the individual laboratories. The MDL is the minimum concentration of an analyte that can be reliably distinguished from background noise for a specific analytical method. The reporting limit represents the lowest concentration of an analyte that can be accurately and reproducibly quantified in a sample matrix. The method reporting limit or SQL for specific analytical methods and sample matrices, such as air, soil, or water, are typically an order of magnitude higher than the MDL to allow for matrix effects and 99 percent data confidence.

For this project, sample results were reported as estimated values below the method reporting limit or SQL. The MDL and reporting limits for each analyte is presented in the laboratory's electronic data deliverable.

6. DATA QUALITY OBJECTIVES AND CONCLUSIONS

Based on the data validation findings summarized in Section 4, the EA split sample data were determined to be usable as qualified.

The objective of the field oversight and split sample collection was to obtain split sample results of known quality that may support the RI/FS oversight. Based upon an overall review of the results presented within this DESR, the issues of importance in this evaluation are discussed in the following sections.

6.1 MEDIA VARIABILITY

EA split sample results were compared to the PRP sample results in order to assess the following: (1) if the PRP sampling process was consistent with their sampling plan, and (2) if the PRP laboratory was properly reporting data. Of the 117 analytes reported by both laboratories, the sample results were within the applied 50 percent RPD criterion with the exceptions discussed in Section 5.2.5. Variability of sample data could be due to soil matrix effects and non-homogeneity of soil samples, laboratory analysis procedures, and laboratory achievable MDL and method reporting limits.

6.2 LABORATORY PERFORMANCE PROBLEMS

TestAmerica's performance met the required laboratory QC protocol and data quality indicator criteria. Refer to Section 4 for a more detailed discussion of laboratory data quality.

6.3 CONCLUSIONS

The split sample analytical results for the November 2016 sampling event met overall project objectives for the quantity and quality of data required to support the decision-making process for the RI/FS oversight. Data qualified as estimated (J-, J+ and UJ) and data with no qualifiers are usable to achieve project objectives. Qualitatively, the EA sample data are comparable to the PRP sample data with noted soil matrix and laboratory analytical method variability and reporting limits. Although sample detections reported by both laboratories may not compare within 50 percent RPD, data values can still be used to assess nature and extent of contamination and to determine if a potential for human health or ecological risk exists at the site.

7. REFERENCES

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Appendix A

Data Summary Table and Relative Percent Difference Calculations

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Table A-1 Split Sample Results

SampleID	Collected	Received	Prepped	Analyzed	Method	Component	CAS	Matrix	Result	EAQual	Units	RL	MDL	QCLot	QCRun	Dilution	Analytical Group
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	1,1'-BIPHENYL	92-52-4	SOIL	ND	N/A	MG/KG	0.359	0.0324	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	1,2,4,5-TETRACHLOROBENZENE	95-94-3	SOIL	ND	N/A	MG/KG	0.359	0.0275	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	1,4-DIOXANE	123-91-1	SOIL	ND	N/A	MG/KG	0.725	0.0416	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	1-METHYLNAPHTHALENE	90-12-0	SOIL	ND	N/A	MG/KG	0.0728	0.00774	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,2'-OXYBIS[1-CHLOROPROPANE]	108-60-1	SOIL	ND	N/A	MG/KG	0.0728	0.00783	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,3,4,6-TETRACHLOROPHENOL	58-90-2	SOIL	ND	N/A	MG/KG	0.359	0.0233	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4,5-TRICHLOROPHENOL	95-95-4	SOIL	ND	N/A	MG/KG	0.359	0.0387	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4,6-TRICHLOROPHENOL	88-06-2	SOIL	ND	N/A	MG/KG	0.359	0.0543	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4-DICHLOROPHENOL	120-83-2	SOIL	ND	N/A	MG/KG	0.0728	0.00728	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4-DIMETHYLPHENOL	105-67-9	SOIL	ND	N/A	MG/KG	0.359	0.0567	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4-DINITROPHENOL	51-28-5	SOIL	ND	N/A	MG/KG	1.85	0.432	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4-DINITROTOLUENE	121-14-2	SOIL	ND	N/A	MG/KG	0.359	0.0293	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,6-DINITROTOLUENE	606-20-2	SOIL	ND	N/A	MG/KG	0.359	0.0374	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-CHLORONAPHTHALENE	91-58-7	SOIL	ND	N/A	MG/KG	0.0728	0.00757	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-CHLOROPHENOL	95-57-8	SOIL	ND	N/A	MG/KG	0.359	0.0297	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-METHYLNAPHTHALENE	91-57-6	SOIL	ND	N/A	MG/KG	0.0728	0.00652	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-METHYLPHENOL	95-48-7	SOIL	ND	N/A	MG/KG	0.359	0.0253	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-NITROANILINE	88-74-4	SOIL	ND	N/A	MG/KG	1.85	0.162	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-NITROPHENOL	88-75-5	SOIL	ND	N/A	MG/KG	0.359	0.04	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	3,3'-DICHLOROBENZIDINE	91-94-1	SOIL	ND	N/A	MG/KG	0.359	0.0383	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	3-NITROANILINE	99-09-2	SOIL	ND	N/A	MG/KG	1.85	0.149	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4,6-DINITRO-2-METHYLPHENOL	534-52-1	SOIL	ND	N/A	MG/KG	1.85	0.146	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4-BROMOPHENYL PHENYL ETHER	101-55-3	SOIL	ND	N/A	MG/KG	0.359	0.0316	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4-CHLORO-3-METHYLPHENOL	59-50-7	SOIL	ND	N/A	MG/KG	0.359	0.0334	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4-CHLOROPHENYL PHENYL ETHER	7005-72-3	SOIL	ND	N/A	MG/KG	0.359	0.0403	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4-NITROANILINE	100-01-6	SOIL	ND	N/A	MG/KG	1.85	0.147	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4-NITROPHENOL	100-02-7	SOIL	ND	N/A	MG/KG	1.85	0.132	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ACENAPHTHENE	83-32-9	SOIL	0.017	N/A	MG/KG	0.0728	0.00697	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ACENAPHTHYLENE	208-96-8	SOIL	0.0222	N/A	MG/KG	0.0728	0.00831	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ACETOPHENONE	98-86-2	SOIL	ND	N/A	MG/KG	0.359	0.0298	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ANTHRACENE	120-12-7	SOIL	0.0631	N/A	MG/KG	0.0728	0.0071	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ATRAZINE	1912-24-9	SOIL	ND	N/A	MG/KG	0.359	0.0353	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZALDEHYDE	100-52-7	SOIL	0.359	UJ	MG/KG	0.359	0.0544	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZO[A]ANTHRACENE	56-55-3	SOIL	0.712	N/A	MG/KG	0.0728	0.00909	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZO[A]PYRENE	50-32-8	SOIL	0.811	N/A	MG/KG	0.0728	0.00726	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZO[B]FLUORANTHENE	205-99-2	SOIL	1.22	N/A	MG/KG	0.0728	0.0114	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZO[G,H,I]PERYLENE	191-24-2	SOIL	0.851	N/A	MG/KG	0.0728	0.00722	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZO[K]FLUORANTHENE	207-08-9	SOIL	0.424	N/A	MG/KG	0.0728	0.0147	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BIS(2-CHLOROETHOXY)METHANE	111-91-1	SOIL	ND	N/A	MG/KG	0.359	0.0239	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BIS(2-CHLOROETHYL)ETHER	111-44-4	SOIL	ND	N/A	MG/KG	0.0728	0.00974	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	SOIL	0.134	N/A	MG/KG	0.725	0.0586	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BUTYL BENZYL PHTHALATE	85-68-7	SOIL	0.359	N/A	MG/KG	0.359	0.0496	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	CAPROLACTAM	105-60-2	SOIL	1.85	N/A	MG/KG	1.85	0.274	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	CARBAZOLE	86-74-8	SOIL	0.0664	N/A	MG/KG	0.0728	0.00668	180-195402	180-195402	10	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/25/2016	11/25/2016	11/25/2016	8270D_LL	CHRYSENE	218-01-9	SOIL	1.03	N/A	MG/KG	0.0728	0.00864	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DIBENZ(A,H)ANTHRACENE	53-70-3	SOIL	0.206	N/A	MG/KG	0.0728	0.00807	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DIBENZOFURAN	132-64-9	SOIL	0.359	N/A	MG/KG	0.359	0.0357	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DIETHYL PHTHALATE	84-66-2	SOIL	ND	N/A	MG/KG	0.359	0.0396	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DIMETHYL PHTHALATE	131-11-3	SOIL	ND	N/A	MG/KG	0.359	0.0395	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DI-N-BUTYL PHTHALATE	84-74-2	SOIL	ND	N/A	MG/KG	0.359	0.0454	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DI-N-OCTYL PHTHALATE	117-84-0	SOIL	ND	N/A	MG/KG	0.359	0.0382	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	FLUORANTHENE	206-44-0	SOIL	1.54	N/A	MG/KG	0.0728	0.00776	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	FLUORENE	86-73-7	SOIL	ND	N/A	MG/KG	0.0728	0.00956	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	HEXACHLOROBENZENE	118-74-1	SOIL	ND	N/A	MG/KG	0.0728	0.00773	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	HEXACHLOROBUTADIENE	87-68-3	SOIL	ND	N/A	MG/KG	0.0728	0.00812	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	HEXACHLOROCYCLOPENTADIENE	77-47-4	SOIL	ND	N/A	MG/KG	0.359	0.0391	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	HEXACHLOROETHANE	67-72-1	SOIL	ND	UJ	MG/KG	0.359	0.0261	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	INDENO[1,2,3-CD]PYRENE	193-39-5	SOIL	0.71	N/A	MG/KG	0.0728	0.00747	180-195402	180-195402	10	SEMI-VOLATILE

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Table A-1 Split Sample Results

SampleID	Collected	Received	Prepped	Analyzed	Method	Component	CAS	Matrix	Result	EAQual	Units	RL	MDL	QCLot	QCRun	Dilution	Analytical Group
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ISOPHORONE	78-59-1	SOIL	ND	N/A	MG/KG	0.359	0.0273	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	METHYLPHENOL, 3 & 4	106-44-5	SOIL	ND	N/A	MG/KG	0.359	0.0355	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	NAPHTHALENE	91-20-3	SOIL	ND	N/A	MG/KG	0.0728	0.00625	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	NITROBENZENE	98-95-3	SOIL	ND	N/A	MG/KG	0.725	0.0302	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	N-NITROSODI-N-PROPYLAMINE	621-64-7	SOIL	ND	N/A	MG/KG	0.0728	0.00851	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	N-NITROSODIPHENYLAMINE	86-30-6	SOIL	ND	N/A	MG/KG	0.359	0.0336	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	PENTACHLOROPHENOL	87-86-5	SOIL	ND	N/A	MG/KG	0.359	0.0324	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	PHENANTHRENE	85-01-8	SOIL	0.375	N/A	MG/KG	0.0728	0.0115	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	PHENOL	108-95-2	SOIL	ND	N/A	MG/KG	0.359	0.00857	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	PYRENE	129-00-0	SOIL	1.09	N/A	MG/KG	0.0728	0.00733	180-195402	180-195402	10	SEMI-VOLATILE
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	4,4'-DDD	72-54-8	SOIL	0.00097	N/A	MG/KG	0.000459	0.0000468	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	4,4'-DDE	72-55-9	SOIL	ND	N/A	MG/KG	0.000459	0.000146	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	4,4'-DDT	50-29-3	SOIL	0.000459	UJ	MG/KG	0.000459	0.0000468	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ALDRIN	309-00-2	SOIL	0.000148	N/A	MG/KG	0.000459	0.0000485	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ALPHA-BHC	319-84-6	SOIL	ND	N/A	MG/KG	0.000459	0.000135	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	BETA-BHC	319-85-7	SOIL	ND	N/A	MG/KG	0.000459	0.000103	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	CIS-CHLORDANE	5103-71-9	SOIL	0.00115	J	MG/KG	0.000459	0.0000738	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	DELTA-BHC	319-86-8	SOIL	0.000459	UJ	MG/KG	0.000459	0.000164	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	DIELDRIN	60-57-1	SOIL	0.0014	J	MG/KG	0.000459	0.0000435	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDOSULFAN I	959-98-8	SOIL	ND	N/A	MG/KG	0.000459	0.0000292	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDOSULFAN II	33213-65-9	SOIL	ND	N/A	MG/KG	0.000459	0.00014	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDOSULFAN SULFATE	1031-07-8	SOIL	ND	N/A	MG/KG	0.000459	0.0000584	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDRIN	72-20-8	SOIL	ND	N/A	MG/KG	0.000459	0.000134	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDRIN ALDEHYDE	7421-93-4	SOIL	ND	N/A	MG/KG	0.000459	0.000135	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDRIN KETONE	53494-70-5	SOIL	ND	N/A	MG/KG	0.000459	0.000153	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	GAMMA-BHC (LINDANE)	58-89-9	SOIL	ND	N/A	MG/KG	0.000459	0.0000947	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	HEPTACHLOR	76-44-8	SOIL	ND	N/A	MG/KG	0.000459	0.0000397	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	HEPTACHLOR EPOXIDE	1024-57-3	SOIL	0.000183	J	MG/KG	0.000459	0.0000551	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	METHOXYCHLOR	72-43-5	SOIL	0.000459	UJ	MG/KG	0.000459	0.000133	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	TOXAPHENE	8001-35-2	SOIL	ND	N/A	MG/KG	0.0184	0.0151	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	TRANS-CHLORDANE	5103-74-2	SOIL	ND	N/A	MG/KG	0.000459	0.0000358	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	2,4,5-T	93-76-5	SOIL	ND	U	MG/KG	0.022	0.00276	180-195866	180-195866	20	HERBICIDES
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	2,4-D	94-75-7	SOIL	ND	U	MG/KG	0.0881	0.00603	180-195866	180-195866	20	HERBICIDES
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	2,4-DB	94-82-6	SOIL	ND	U	MG/KG	0.0881	0.00675	180-195866	180-195866	20	HERBICIDES
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	DALAPON	75-99-0	SOIL	ND	N/A	MG/KG	0.0992	0.00782	180-195866	180-195866	20	HERBICIDES
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	DICAMBA	1918-00-9	SOIL	ND	N/A	MG/KG	0.0441	0.00528	180-195866	180-195866	20	HERBICIDES
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	DICHLORPROP	120-36-5	SOIL	ND	N/A	MG/KG	0.0881	0.0104	180-195866	180-195866	20	HERBICIDES
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	DINOSEB	88-85-7	SOIL	ND	U	MG/KG	0.0132	0.00501	180-195866	180-195866	20	HERBICIDES
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	MCPA	94-74-6	SOIL	ND	U	MG/KG	8.81	1.82	180-195866	180-195866	20	HERBICIDES
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	MCPP	93-65-2	SOIL	ND	U	MG/KG	8.81	1.77	180-195866	180-195866	20	HERBICIDES
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	SILVEX (2,4,5-TP)	93-72-1	SOIL	ND	U	MG/KG	0.022	0.00232	180-195866	180-195866	20	HERBICIDES
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	ALUMINUM	7429-90-5	SOIL	9360	N/A	MG/KG	2.62	0.504	180-196391	180-196391	1	METALS
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	ANTIMONY	7440-36-0	SOIL	0.41	N/A	MG/KG	0.175	0.0251	180-196391	180-196391	1	METALS
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	ARSENIC	7440-38-2	SOIL	2.94	N/A	MG/KG	0.0874	0.0126	180-196391	180-196391	1	METALS
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	BARIUM	7440-39-3	SOIL	109	N/A	MG/KG	0.874	0.0129	180-196391	180-196391	1	METALS
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	BERYLLIUM	7440-41-7	SOIL	0.608	N/A	MG/KG	0.0874	0.00656	180-196391	180-196391	1	METALS
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	BORON	7440-42-8	SOIL	5.83	N/A	MG/KG	1.75	0.279	180-196391	180-196391	1	METALS
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	CADMIUM	7440-43-9	SOIL	0.204	N/A	MG/KG	0.0874	0.0114	180-196391	180-196391	1	METALS
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	CHROMIUM	7440-47-3	SOIL	14.3	N/A	MG/KG	0.175	0.0456	180-196391	180-196391	1	METALS
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	COBALT	7440-48-4	SOIL	5.56	N/A	MG/KG	0.0437	0.00219	180-196391	180-196391	1	METALS
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	COPPER	7440-50-8	SOIL	13	N/A	MG/KG	0.175	0.0456	180-196391	180-196391	1	METALS
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	LEAD	7439-92-1	SOIL	40.5	N/A	MG/KG	0.0874	0.00796	180-196391	180-196391	1	METALS
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	MANGANESE	7439-96-5	SOIL	215	N/A	MG/KG	0.437	0.031	180-196391	180-196391	1	METALS
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/2/2016	7471B	MERCURY	7439-97-6	SOIL	0.0294	N/A	MG/KG	0.0358	0.00801	180-196111	180-196111	1	METALS
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	NICKEL	7440-02-0	SOIL	10.2	N/A	MG/KG	0.0874	0.034	180-196391	180-196391	1	METALS
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	SELENIUM	7782-49-2	SOIL	0.482	N/A	MG/KG	0.437	0.0386	180-196391	180-196391	1	METALS
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	SILVER	7440-22-4	SOIL	0.0945	N/A	MG/KG	0.0874	0.00717	180-196391	180-196391	1	METALS
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	THALLIUM	7440-28-0	SOIL	0.0915	N/A	MG/KG	0.0874	0.00227	180-196391	180-196391	1	METALS

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Table A-1 Split Sample Results

SampleID	Collected	Received	Prepped	Analyzed	Method	Component	CAS	Matrix	Result	EAQual	Units	RL	MDL	QCLot	QCRun	Dilution	Analytical Group
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	VANADIUM	7440-62-2	SOIL	19	N/A	MG/KG	0.0874	0.0612	180-196391	180-196391	1	METALS
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	ZINC	7440-66-6	SOIL	82.5	N/A	MG/KG	0.437	0.169	180-196391	180-196391	1	METALS
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	NA	11/25/2016	MOISTURE	PERCENT MOISTURE	STL00177	SOIL	9.2	N/A	%	0.1	0.1	180-195434	180-195434	1	GENERAL CHEM
BGSB10-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	NA	11/25/2016	MOISTURE	PERCENT SOLIDS	STL00234	SOIL	90.8	N/A	%	0.1	0.1	180-195434	180-195434	1	GENERAL CHEM
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	1,1'-BIPHENYL	92-52-4	SOIL	ND	N/A	MG/KG	0.182	0.0164	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	1,2,4,5-TETRACHLOROBENZENE	95-94-3	SOIL	ND	N/A	MG/KG	0.182	0.0139	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	1,4-DIOXANE	123-91-1	SOIL	ND	N/A	MG/KG	0.367	0.0211	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	1-METHYLNAPHTHALENE	90-12-0	SOIL	ND	N/A	MG/KG	0.0369	0.00392	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,2'-OXYBIS[1-CHLOROPROPANE]	108-60-1	SOIL	ND	N/A	MG/KG	0.0369	0.00396	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,3,4,6-TETRACHLOROPHENOL	58-90-2	SOIL	ND	N/A	MG/KG	0.182	0.0118	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4,5-TRICHLOROPHENOL	95-95-4	SOIL	ND	N/A	MG/KG	0.182	0.0196	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4,6-TRICHLOROPHENOL	88-06-2	SOIL	ND	N/A	MG/KG	0.182	0.0275	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4-DICHLOROPHENOL	120-83-2	SOIL	ND	N/A	MG/KG	0.0369	0.00368	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4-DIMETHYLPHENOL	105-67-9	SOIL	ND	N/A	MG/KG	0.182	0.0287	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4-DINITROPHENOL	51-28-5	SOIL	ND	N/A	MG/KG	0.936	0.219	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4-DINITROTOLUENE	121-14-2	SOIL	ND	N/A	MG/KG	0.182	0.0148	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,6-DINITROTOLUENE	606-20-2	SOIL	ND	N/A	MG/KG	0.182	0.0189	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-CHLORONAPHTHALENE	91-58-7	SOIL	ND	N/A	MG/KG	0.0369	0.00383	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-CHLOROPHENOL	95-57-8	SOIL	ND	N/A	MG/KG	0.182	0.015	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-METHYLNAPHTHALENE	91-57-6	SOIL	0.00638	N/A	MG/KG	0.0369	0.0033	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-METHYLPHENOL	95-48-7	SOIL	ND	N/A	MG/KG	0.182	0.0128	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-NITROANILINE	88-74-4	SOIL	ND	N/A	MG/KG	0.936	0.0822	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-NITROPHENOL	88-75-5	SOIL	ND	N/A	MG/KG	0.182	0.0202	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	3,3'-DICHLOROBENZIDINE	91-94-1	SOIL	ND	N/A	MG/KG	0.182	0.0194	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	3-NITROANILINE	99-09-2	SOIL	ND	N/A	MG/KG	0.936	0.0756	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4,6-DINITRO-2-METHYLPHENOL	534-52-1	SOIL	ND	N/A	MG/KG	0.936	0.0738	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4-BROMOPHENYL PHENYL ETHER	101-55-3	SOIL	ND	N/A	MG/KG	0.182	0.016	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4-CHLORO-3-METHYLPHENOL	59-50-7	SOIL	ND	N/A	MG/KG	0.182	0.0169	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4-CHLOROPHENYL PHENYL ETHER	7005-72-3	SOIL	ND	N/A	MG/KG	0.182	0.0204	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4-NITROANILINE	100-01-6	SOIL	ND	N/A	MG/KG	0.936	0.0744	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4-NITROPHENOL	100-02-7	SOIL	ND	N/A	MG/KG	0.936	0.067	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ACENAPHTHENE	83-32-9	SOIL	0.00775	N/A	MG/KG	0.0369	0.00353	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ACENAPHTHYLENE	208-96-8	SOIL	0.0147	N/A	MG/KG	0.0369	0.00421	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ACETOPHENONE	98-86-2	SOIL	ND	N/A	MG/KG	0.182	0.0151	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ANTHRACENE	120-12-7	SOIL	0.0383	N/A	MG/KG	0.0369	0.00359	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ATRAZINE	1912-24-9	SOIL	ND	N/A	MG/KG	0.182	0.0179	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZALDEHYDE	100-52-7	SOIL	0.182	UJ	MG/KG	0.182	0.0275	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZO[A]ANTHRACENE	56-55-3	SOIL	0.299	N/A	MG/KG	0.0369	0.0046	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZO[A]PYRENE	50-32-8	SOIL	0.319	N/A	MG/KG	0.0369	0.00367	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZO[B]FLUORANTHENE	205-99-2	SOIL	0.449	N/A	MG/KG	0.0369	0.00577	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZO[G,H,I]PERYLENE	191-24-2	SOIL	0.312	N/A	MG/KG	0.0369	0.00365	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZO[K]FLUORANTHENE	207-08-9	SOIL	0.195	N/A	MG/KG	0.0369	0.00742	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BIS(2-CHLOROETHOXY)METHANE	111-91-1	SOIL	ND	N/A	MG/KG	0.182	0.0121	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BIS(2-CHLOROETHYL)ETHER	111-44-4	SOIL	ND	N/A	MG/KG	0.0369	0.00493	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	SOIL	0.118	N/A	MG/KG	0.367	0.0297	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BUTYL BENZYL PHTHALATE	85-68-7	SOIL	0.0473	N/A	MG/KG	0.182	0.0251	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	CAPROLACTAM	105-60-2	SOIL	ND	N/A	MG/KG	0.936	0.139	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	CARBAZOLE	86-74-8	SOIL	0.0244	N/A	MG/KG	0.0369	0.00338	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	CHRYSENE	218-01-9	SOIL	0.399	N/A	MG/KG	0.0369	0.00437	180-195402	180-195402	6	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DIBENZ(A,H)ANTHRACENE	53-70-3	SOIL	0.0783	N/A	MG/KG	0.0369	0.00408	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DIBENZOFURAN	132-64-9	SOIL	ND	N/A	MG/KG	0.182	0.0181	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DIETHYL PHTHALATE	84-66-2	SOIL	ND	N/A	MG/KG	0.182	0.0201	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DIMETHYL PHTHALATE	131-11-3	SOIL	ND	N/A	MG/KG	0.182	0.02	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DI-N-BUTYL PHTHALATE	84-74-2	SOIL	ND	N/A	MG/KG	0.182	0.023	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DI-N-OCTYL PHTHALATE	117-84-0	SOIL	ND	N/A	MG/KG	0.182	0.0193	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	FLUORANTHENE	206-44-0	SOIL	0.6	N/A	MG/KG	0.0369	0.00393	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	FLUORENE	86-73-7	SOIL	ND	N/A	MG/KG	0.0369	0.00484	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	HEXACHLOROBENZENE	118-74-1	SOIL	ND	N/A	MG/KG	0.0369	0.00391	180-195402	180-195402	5	SEMI-VOLATILE

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Table A-1 Split Sample Results

SampleID	Collected	Received	Prepped	Analyzed	Method	Component	CAS	Matrix	Result	EAQual	Units	RL	MDL	QCLot	QCRun	Dilution	Analytical Group
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	HEXACHLOROBUTADIENE	87-68-3	SOIL	ND	N/A	MG/KG	0.0369	0.00411	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	HEXACHLOROCYCLOPENTADIENE	77-47-4	SOIL	ND	N/A	MG/KG	0.182	0.0198	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	HEXACHLOROETHANE	67-72-1	SOIL	0.182	UJ	MG/KG	0.182	0.0132	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	INDENO[1,2,3-CD]PYRENE	193-39-5	SOIL	0.268	N/A	MG/KG	0.0369	0.00378	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ISOPHORONE	78-59-1	SOIL	ND	N/A	MG/KG	0.182	0.0138	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	METHYLPHENOL, 3 & 4	106-44-5	SOIL	ND	N/A	MG/KG	0.182	0.018	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	NAPHTHALENE	91-20-3	SOIL	ND	N/A	MG/KG	0.0369	0.00317	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	NITROBENZENE	98-95-3	SOIL	ND	N/A	MG/KG	0.367	0.0153	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	N-NITROSODI-N-PROPYLAMINE	621-64-7	SOIL	ND	N/A	MG/KG	0.0369	0.00431	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	N-NITROSODIPHENYLAMINE	86-30-6	SOIL	ND	N/A	MG/KG	0.182	0.017	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	PENTACHLOROPHENOL	87-86-5	SOIL	ND	N/A	MG/KG	0.182	0.0164	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	PHENANTHRENE	85-01-8	SOIL	0.173	N/A	MG/KG	0.0369	0.00584	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	PHENOL	108-95-2	SOIL	ND	N/A	MG/KG	0.182	0.00434	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	PYRENE	129-00-0	SOIL	0.417	N/A	MG/KG	0.0369	0.00371	180-195402	180-195402	5	SEMI-VOLATILE
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	4,4'-DDD	72-54-8	SOIL	0.000319	J	MG/KG	0.000459	0.0000468	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	4,4'-DDE	72-55-9	SOIL	ND	N/A	MG/KG	0.000459	0.000146	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	4,4'-DDT	50-29-3	SOIL	0.000459	UJ	MG/KG	0.000459	0.0000468	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ALDRIN	309-00-2	SOIL	0.0000811	N/A	MG/KG	0.000459	0.0000484	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ALPHA-BHC	319-84-6	SOIL	ND	N/A	MG/KG	0.000459	0.000135	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	BETA-BHC	319-85-7	SOIL	ND	N/A	MG/KG	0.000459	0.000103	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	CIS-CHLORDANE	5103-71-9	SOIL	0.000621	J	MG/KG	0.000459	0.0000738	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	DELTA-BHC	319-86-8	SOIL	0.000459	UJ	MG/KG	0.000459	0.000163	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	DIELDRIN	60-57-1	SOIL	0.000899	N/A	MG/KG	0.000459	0.0000435	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDOSULFAN I	959-98-8	SOIL	ND	N/A	MG/KG	0.000459	0.0000292	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDOSULFAN II	33213-65-9	SOIL	ND	N/A	MG/KG	0.000459	0.00014	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDOSULFAN SULFATE	1031-07-8	SOIL	ND	N/A	MG/KG	0.000459	0.0000583	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDRIN	72-20-8	SOIL	ND	N/A	MG/KG	0.000459	0.000134	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDRIN ALDEHYDE	7421-93-4	SOIL	ND	N/A	MG/KG	0.000459	0.000135	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDRIN KETONE	53494-70-5	SOIL	ND	N/A	MG/KG	0.000459	0.000153	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	GAMMA-BHC (LINDANE)	58-89-9	SOIL	ND	N/A	MG/KG	0.000459	0.0000947	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	HEPTACHLOR	76-44-8	SOIL	ND	N/A	MG/KG	0.000459	0.0000396	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	HEPTACHLOR EPOXIDE	1024-57-3	SOIL	ND	N/A	MG/KG	0.000459	0.000055	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	METHOXYCHLOR	72-43-5	SOIL	0.000459	UJ	MG/KG	0.000459	0.000133	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	TOXAPHENE	8001-35-2	SOIL	ND	N/A	MG/KG	0.0183	0.0151	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	TRANS-CHLORDANE	5103-74-2	SOIL	ND	N/A	MG/KG	0.000459	0.0000358	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	2,4,5-T	93-76-5	SOIL	ND	U	MG/KG	0.022	0.00276	180-195866	180-195866	20	HERBICIDES
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	2,4-D	94-75-7	SOIL	ND	U	MG/KG	0.0881	0.00603	180-195866	180-195866	20	HERBICIDES
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	2,4-DB	94-82-6	SOIL	ND	U	MG/KG	0.0881	0.00674	180-195866	180-195866	20	HERBICIDES
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	DALAPON	75-99-0	SOIL	ND	N/A	MG/KG	0.0991	0.00781	180-195866	180-195866	20	HERBICIDES
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	DICAMBA	1918-00-9	SOIL	ND	N/A	MG/KG	0.044	0.00527	180-195866	180-195866	20	HERBICIDES
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	DICHLORPROP	120-36-5	SOIL	ND	N/A	MG/KG	0.0881	0.0104	180-195866	180-195866	20	HERBICIDES
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	DINOSEB	88-85-7	SOIL	ND	U	MG/KG	0.0132	0.00501	180-195866	180-195866	20	HERBICIDES
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	MCPA	94-74-6	SOIL	ND	U	MG/KG	8.81	1.81	180-195866	180-195866	20	HERBICIDES
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	MCPP	93-65-2	SOIL	ND	U	MG/KG	8.81	1.77	180-195866	180-195866	20	HERBICIDES
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	SILVEX (2,4,5-TP)	93-72-1	SOIL	ND	U	MG/KG	0.022	0.00231	180-195866	180-195866	20	HERBICIDES
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	ALUMINUM	7429-90-5	SOIL	9720	N/A	MG/KG	3.27	0.629	180-196391	180-196391	1	METALS
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	ANTIMONY	7440-36-0	SOIL	0.473	N/A	MG/KG	0.218	0.0313	180-196391	180-196391	1	METALS
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	ARSENIC	7440-38-2	SOIL	2.72	N/A	MG/KG	0.109	0.0157	180-196391	180-196391	1	METALS
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	BARIUM	7440-39-3	SOIL	110	N/A	MG/KG	1.09	0.0161	180-196391	180-196391	1	METALS
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	BERYLLIUM	7440-41-7	SOIL	0.615	N/A	MG/KG	0.109	0.00818	180-196391	180-196391	1	METALS
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	BORON	7440-42-8	SOIL	6.22	N/A	MG/KG	2.18	0.347	180-196391	180-196391	1	METALS
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	CADMIUM	7440-43-9	SOIL	0.306	N/A	MG/KG	0.109	0.0142	180-196391	180-196391	1	METALS
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	CHROMIUM	7440-47-3	SOIL	14.4	N/A	MG/KG	0.218	0.0569	180-196391	180-196391	1	METALS
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	COBALT	7440-48-4	SOIL	4.65	N/A	MG/KG	0.0545	0.00273	180-196391	180-196391	1	METALS
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	COPPER	7440-50-8	SOIL	10.6	N/A	MG/KG	0.218	0.0568	180-196391	180-196391	1	METALS
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	LEAD	7439-92-1	SOIL	89.5	N/A	MG/KG	0.109	0.00992	180-196391	180-196391	1	METALS
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	MANGANESE	7439-96-5	SOIL	217	N/A	MG/KG	0.545	0.0387	180-196391	180-196391	1	METALS
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/2/2016	7471B	MERCURY	7439-97-6	SOIL	0.0711	N/A	MG/KG	0.0307	0.00688	180-196111	180-196111	1	METALS

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Table A-1 Split Sample Results

SampleID	Collected	Received	Prepped	Analyzed	Method	Component	CAS	Matrix	Result	EAQual	Units	RL	MDL	QCLot	QCRun	Dilution	Analytical Group
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	NICKEL	7440-02-0	SOIL	10	N/A	MG/KG	0.109	0.0424	180-196391	180-196391	1	METALS
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	SELENIUM	7782-49-2	SOIL	0.29	N/A	MG/KG	0.545	0.0482	180-196391	180-196391	1	METALS
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	SILVER	7440-22-4	SOIL	0.384	N/A	MG/KG	0.109	0.00894	180-196391	180-196391	1	METALS
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	THALLIUM	7440-28-0	SOIL	0.0944	N/A	MG/KG	0.109	0.00283	180-196391	180-196391	1	METALS
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	VANADIUM	7440-62-2	SOIL	17.8	N/A	MG/KG	0.109	0.0763	180-196391	180-196391	1	METALS
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	ZINC	7440-66-6	SOIL	76.9	N/A	MG/KG	0.545	0.211	180-196391	180-196391	1	METALS
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	NA	11/25/2016	MOISTURE	PERCENT MOISTURE	STL00177	SOIL	9.2	N/A	%	0.1	0.1	180-195434	180-195434	1	GENERAL CHEM
BGSB10-(1-2)-161122-S	11/22/2016	11/23/2016	NA	11/25/2016	MOISTURE	PERCENT SOLIDS	STL00234	SOIL	90.8	N/A	%	0.1	0.1	180-195434	180-195434	1	GENERAL CHEM
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	1,1'-BIPHENYL	92-52-4	SOIL	ND	N/A	MG/KG	0.0357	0.00322	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	1,2,4,5-TETRACHLOROBENZENE	95-94-3	SOIL	ND	N/A	MG/KG	0.0357	0.00273	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	1,4-DIOXANE	123-91-1	SOIL	0.0721	UJ	MG/KG	0.0721	0.00413	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	1-METHYLNAPHTHALENE	90-12-0	SOIL	ND	N/A	MG/KG	0.00724	0.000769	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,2'-OXYBIS[1-CHLOROPROPANE]	108-60-1	SOIL	ND	N/A	MG/KG	0.00724	0.000778	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,3,4,6-TETRACHLOROPHENOL	58-90-2	SOIL	ND	N/A	MG/KG	0.0357	0.00232	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4,5-TRICHLOROPHENOL	95-95-4	SOIL	ND	N/A	MG/KG	0.0357	0.00385	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4,6-TRICHLOROPHENOL	88-06-2	SOIL	ND	N/A	MG/KG	0.0357	0.0054	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4-DICHLOROPHENOL	120-83-2	SOIL	ND	N/A	MG/KG	0.00724	0.000723	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4-DIMETHYLPHENOL	105-67-9	SOIL	0.0357	UJ	MG/KG	0.0357	0.00564	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4-DINITROPHENOL	51-28-5	SOIL	0.184	UJ	MG/KG	0.184	0.0429	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4-DINITROTOLUENE	121-14-2	SOIL	ND	N/A	MG/KG	0.0357	0.00291	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,6-DINITROTOLUENE	606-20-2	SOIL	ND	N/A	MG/KG	0.0357	0.00372	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-CHLORONAPHTHALENE	91-58-7	SOIL	ND	N/A	MG/KG	0.00724	0.000752	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-CHLOROPHENOL	95-57-8	SOIL	ND	N/A	MG/KG	0.0357	0.00295	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-METHYLNAPHTHALENE	91-57-6	SOIL	0.00137	N/A	MG/KG	0.00724	0.000648	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-METHYLPHENOL	95-48-7	SOIL	ND	N/A	MG/KG	0.0357	0.00252	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-NITROANILINE	88-74-4	SOIL	ND	N/A	MG/KG	0.184	0.0161	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-NITROPHENOL	88-75-5	SOIL	ND	N/A	MG/KG	0.0357	0.00397	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	3,3'-DICHLOROBENZIDINE	91-94-1	SOIL	0.0357	UJ	MG/KG	0.0357	0.00381	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	3-NITROANILINE	99-09-2	SOIL	ND	N/A	MG/KG	0.184	0.0148	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4,6-DINITRO-2-METHYLPHENOL	534-52-1	SOIL	ND	N/A	MG/KG	0.184	0.0145	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4-BROMOPHENYL PHENYL ETHER	101-55-3	SOIL	ND	N/A	MG/KG	0.0357	0.00314	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4-CHLORO-3-METHYLPHENOL	59-50-7	SOIL	ND	N/A	MG/KG	0.0357	0.00332	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4-CHLOROPHENYL PHENYL ETHER	7005-72-3	SOIL	ND	N/A	MG/KG	0.0357	0.00401	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4-NITROANILINE	100-01-6	SOIL	ND	N/A	MG/KG	0.184	0.0146	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4-NITROPHENOL	100-02-7	SOIL	ND	N/A	MG/KG	0.184	0.0131	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ACENAPHTHENE	83-32-9	SOIL	ND	N/A	MG/KG	0.00724	0.000692	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ACENAPHTHYLENE	208-96-8	SOIL	0.00396	N/A	MG/KG	0.00724	0.000826	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ACETOPHENONE	98-86-2	SOIL	0.0169	N/A	MG/KG	0.0357	0.00296	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ANTHRACENE	120-12-7	SOIL	0.00362	N/A	MG/KG	0.00724	0.000705	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ATRAZINE	1912-24-9	SOIL	0.0357	UJ	MG/KG	0.0357	0.00351	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZALDEHYDE	100-52-7	SOIL	0.00751	J-	MG/KG	0.0357	0.0054	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZO[A]ANTHRACENE	56-55-3	SOIL	0.014	N/A	MG/KG	0.00724	0.000903	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZO[A]PYRENE	50-32-8	SOIL	0.0132	N/A	MG/KG	0.00724	0.000721	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZO[B]FLUORANTHENE	205-99-2	SOIL	0.0202	J-	MG/KG	0.00724	0.00113	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZO[G,H,I]PERYLENE	191-24-2	SOIL	0.0165	N/A	MG/KG	0.00724	0.000717	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZO[K]FLUORANTHENE	207-08-9	SOIL	0.00857	J-	MG/KG	0.00724	0.00146	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BIS(2-CHLOROETHOXY)METHANE	111-91-1	SOIL	0.0357	UJ	MG/KG	0.0357	0.00237	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BIS(2-CHLOROETHYL)ETHER	111-44-4	SOIL	0.00724	UJ	MG/KG	0.00724	0.000967	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	SOIL	0.031	N/A	MG/KG	0.0721	0.00582	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BUTYL BENZYL PHTHALATE	85-68-7	SOIL	0.00591	N/A	MG/KG	0.0357	0.00493	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	CAPROLACTAM	105-60-2	SOIL	0.184	R	MG/KG	0.184	0.0272	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	CARBAZOLE	86-74-8	SOIL	0.00176	N/A	MG/KG	0.00724	0.000664	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/25/2016	11/25/2016	11/25/2016	8270D_LL	CHRYSENE	218-01-9	SOIL	0.0159	N/A	MG/KG	0.00724	0.000858	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DIBENZ(A,H)ANTHRACENE	53-70-3	SOIL	0.00336	N/A	MG/KG	0.00724	0.000802	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DIBENZOFURAN	132-64-9	SOIL	ND	N/A	MG/KG	0.0357	0.00355	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DIETHYL PHTHALATE	84-66-2	SOIL	ND	N/A	MG/KG	0.0357	0.00394	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DIMETHYL PHTHALATE	131-11-3	SOIL	ND	N/A	MG/KG	0.0357	0.00393	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DI-N-BUTYL PHTHALATE	84-74-2	SOIL	0.00485	N/A	MG/KG	0.0357	0.00452	180-195402	180-195402	1	SEMI-VOLATILE

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Table A-1 Split Sample Results

SampleID	Collected	Received	Prepped	Analyzed	Method	Component	CAS	Matrix	Result	EAQual	Units	RL	MDL	QCLot	QCRun	Dilution	Analytical Group
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DI-N-OCTYL PHTHALATE	117-84-0	SOIL	ND	N/A	MG/KG	0.0357	0.0038	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	FLUORANTHENE	206-44-0	SOIL	0.0179	N/A	MG/KG	0.00724	0.000771	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	FLUORENE	86-73-7	SOIL	ND	N/A	MG/KG	0.00724	0.00095	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	HEXACHLOROBENZENE	118-74-1	SOIL	ND	N/A	MG/KG	0.00724	0.000768	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	HEXACHLOROBUTADIENE	87-68-3	SOIL	0.00724	UJ	MG/KG	0.00724	0.000807	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	HEXACHLOROCYCLOPENTADIENE	77-47-4	SOIL	0.0357	UJ	MG/KG	0.0357	0.00389	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	HEXACHLOROETHANE	67-72-1	SOIL	0.0357	UJ	MG/KG	0.0357	0.00259	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	INDENO[1,2,3-CD]PYRENE	193-39-5	SOIL	0.0118	N/A	MG/KG	0.00724	0.000743	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ISOPHORONE	78-59-1	SOIL	ND	N/A	MG/KG	0.0357	0.00272	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	METHYLPHENOL, 3 & 4	106-44-5	SOIL	ND	N/A	MG/KG	0.0357	0.00353	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	NAPHTHALENE	91-20-3	SOIL	0.00724	UJ	MG/KG	0.00724	0.000621	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	NITROBENZENE	98-95-3	SOIL	0.0721	UJ	MG/KG	0.0721	0.003	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	N-NITROSODI-N-PROPYLAMINE	621-64-7	SOIL	ND	N/A	MG/KG	0.00724	0.000845	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	N-NITROSODIPHENYLAMINE	86-30-6	SOIL	ND	N/A	MG/KG	0.0357	0.00334	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	PENTACHLOROPHENOL	87-86-5	SOIL	ND	N/A	MG/KG	0.0357	0.00322	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	PHENANTHRENE	85-01-8	SOIL	ND	N/A	MG/KG	0.00724	0.00115	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	PHENOL	108-95-2	SOIL	0.0357	UJ	MG/KG	0.0357	0.000852	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	PYRENE	129-00-0	SOIL	0.0168	J-	MG/KG	0.00724	0.000729	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	4,4'-DDD	72-54-8	SOIL	0.000472	J	MG/KG	0.00045	0.0000459	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	4,4'-DDE	72-55-9	SOIL	0.005	J	MG/KG	0.00045	0.000143	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	4,4'-DDT	50-29-3	SOIL	0.0042	J-	MG/KG	0.00045	0.0000459	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ALDRIN	309-00-2	SOIL	ND	N/A	MG/KG	0.00045	0.0000475	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ALPHA-BHC	319-84-6	SOIL	ND	N/A	MG/KG	0.00045	0.000132	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	BETA-BHC	319-85-7	SOIL	ND	N/A	MG/KG	0.00045	0.000101	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	CIS-CHLORDANE	5103-71-9	SOIL	ND	N/A	MG/KG	0.00045	0.0000724	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	DELTA-BHC	319-86-8	SOIL	0.00045	UJ	MG/KG	0.00045	0.00016	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	DIELDRIN	60-57-1	SOIL	ND	N/A	MG/KG	0.00045	0.0000427	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDOSULFAN I	959-98-8	SOIL	ND	N/A	MG/KG	0.00045	0.0000286	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDOSULFAN II	33213-65-9	SOIL	ND	N/A	MG/KG	0.00045	0.000138	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDOSULFAN SULFATE	1031-07-8	SOIL	ND	N/A	MG/KG	0.00045	0.0000573	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDRIN	72-20-8	SOIL	ND	N/A	MG/KG	0.00045	0.000131	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDRIN ALDEHYDE	7421-93-4	SOIL	ND	N/A	MG/KG	0.00045	0.000132	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDRIN KETONE	53494-70-5	SOIL	ND	N/A	MG/KG	0.00045	0.00015	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	GAMMA-BHC (LINDANE)	58-89-9	SOIL	0.00045	N/A	MG/KG	0.00045	0.0000929	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	HEPTACHLOR	76-44-8	SOIL	0.000251	J	MG/KG	0.00045	0.0000389	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	HEPTACHLOR EPOXIDE	1024-57-3	SOIL	0.000906	J	MG/KG	0.00045	0.000054	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	METHOXYCHLOR	72-43-5	SOIL	0.00045	UJ	MG/KG	0.00045	0.000131	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	TOXAPHENE	8001-35-2	SOIL	ND	N/A	MG/KG	0.018	0.0148	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	TRANS-CHLORDANE	5103-74-2	SOIL	ND	N/A	MG/KG	0.00045	0.0000351	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	2,4,5-T	93-76-5	SOIL	ND	U	MG/KG	0.0218	0.00273	180-195866	180-195866	20	HERBICIDES
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	2,4-D	94-75-7	SOIL	ND	U	MG/KG	0.087	0.00595	180-195866	180-195866	20	HERBICIDES
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	2,4-DB	94-82-6	SOIL	ND	U	MG/KG	0.087	0.00666	180-195866	180-195866	20	HERBICIDES
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	DALAPON	75-99-0	SOIL	ND	N/A	MG/KG	0.0979	0.00772	180-195866	180-195866	20	HERBICIDES
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	DICAMBA	1918-00-9	SOIL	ND	N/A	MG/KG	0.0435	0.00521	180-195866	180-195866	20	HERBICIDES
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	DICHLORPROP	120-36-5	SOIL	ND	N/A	MG/KG	0.087	0.0103	180-195866	180-195866	20	HERBICIDES
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	DINOSEB	88-85-7	SOIL	ND	U	MG/KG	0.0131	0.00495	180-195866	180-195866	20	HERBICIDES
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	MCPA	94-74-6	SOIL	ND	U	MG/KG	8.7	1.79	180-195866	180-195866	20	HERBICIDES
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	MCPP	93-65-2	SOIL	ND	U	MG/KG	8.7	1.75	180-195866	180-195866	20	HERBICIDES
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	SILVEX (2,4,5-TP)	93-72-1	SOIL	ND	U	MG/KG	0.0218	0.00229	180-195866	180-195866	20	HERBICIDES
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	ALUMINUM	7429-90-5	SOIL	5750	N/A	MG/KG	3.17	0.609	180-196391	180-196391	1	METALS
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	ANTIMONY	7440-36-0	SOIL	0.379	None	MG/KG	0.211	0.0303	180-196391	180-196391	1	METALS
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	ARSENIC	7440-38-2	SOIL	3.01	J-	MG/KG	0.106	0.0152	180-196391	180-196391	1	METALS
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	BARIUM	7440-39-3	SOIL	140	J-	MG/KG	1.06	0.0156	180-196391	180-196391	1	METALS
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	BERYLLIUM	7440-41-7	SOIL	0.43	J	MG/KG	0.106	0.00792	180-196391	180-196391	1	METALS
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	BORON	7440-42-8	SOIL	3.01	N/A	MG/KG	2.11	0.337	180-196391	180-196391	1	METALS
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	CADMIUM	7440-43-9	SOIL	0.294	N/A	MG/KG	0.106	0.0137	180-196391	180-196391	1	METALS
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	CHROMIUM	7440-47-3	SOIL	7.5	N/A	MG/KG	0.211	0.0551	180-196391	180-196391	1	METALS
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	COBALT	7440-48-4	SOIL	7.81	N/A	MG/KG	0.0528	0.00264	180-196391	180-196391	1	METALS

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Table A-1 Split Sample Results

SampleID	Collected	Received	Prepped	Analyzed	Method	Component	CAS	Matrix	Result	EAQual	Units	RL	MDL	QCLot	QCRun	Dilution	Analytical Group
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	COPPER	7440-50-8	SOIL	10.1	N/A	MG/KG	0.211	0.055	180-196391	180-196391	1	METALS
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	LEAD	7439-92-1	SOIL	67.5	N/A	MG/KG	0.106	0.00961	180-196391	180-196391	1	METALS
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	MANGANESE	7439-96-5	SOIL	404	J-	MG/KG	0.528	0.0375	180-196391	180-196391	1	METALS
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/2/2016	7471B	MERCURY	7439-97-6	SOIL	0.066	N/A	MG/KG	0.0359	0.00804	180-196111	180-196111	1	METALS
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	NICKEL	7440-02-0	SOIL	6.57	N/A	MG/KG	0.106	0.0411	180-196391	180-196391	1	METALS
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	SELENIUM	7782-49-2	SOIL	0.512	N/A	MG/KG	0.528	0.0467	180-196391	180-196391	1	METALS
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	SILVER	7440-22-4	SOIL	0.0592	N/A	MG/KG	0.106	0.00866	180-196391	180-196391	1	METALS
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	THALLIUM	7440-28-0	SOIL	0.0623	N/A	MG/KG	0.106	0.00275	180-196391	180-196391	1	METALS
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	VANADIUM	7440-62-2	SOIL	17.9	N/A	MG/KG	0.106	0.0739	180-196391	180-196391	1	METALS
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	ZINC	7440-66-6	SOIL	110	J-	MG/KG	0.528	0.204	180-196391	180-196391	1	METALS
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	NA	11/25/2016	MOISTURE	PERCENT MOISTURE	STL00177	SOIL	8.1	N/A	%	0.1	0.1	180-195434	180-195434	1	GENERAL CHEM
BGSB22-(0.0-0.5)-161122-S	11/22/2016	11/23/2016	NA	11/25/2016	MOISTURE	PERCENT SOLIDS	STL00234	SOIL	91.9	N/A	%	0.1	0.1	180-195434	180-195434	1	GENERAL CHEM
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	1,1'-BIPHENYL	92-52-4	SOIL	ND	N/A	MG/KG	0.0406	0.00366	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	1,2,4,5-TETRACHLOROBENZENE	95-94-3	SOIL	ND	N/A	MG/KG	0.0406	0.00311	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	1,4-DIOXANE	123-91-1	SOIL	ND	N/A	MG/KG	0.082	0.0047	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	1-METHYLNAPHTHALENE	90-12-0	SOIL	ND	N/A	MG/KG	0.00824	0.000875	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,2'-OXYBIS[1-CHLOROPROPANE]	108-60-1	SOIL	ND	N/A	MG/KG	0.00824	0.000885	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,3,4,6-TETRACHLOROPHENOL	58-90-2	SOIL	ND	N/A	MG/KG	0.0406	0.00264	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4,5-TRICHLOROPHENOL	95-95-4	SOIL	ND	N/A	MG/KG	0.0406	0.00438	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4,6-TRICHLOROPHENOL	88-06-2	SOIL	ND	N/A	MG/KG	0.0406	0.00614	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4-DICHLOROPHENOL	120-83-2	SOIL	ND	N/A	MG/KG	0.00824	0.000823	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4-DIMETHYLPHENOL	105-67-9	SOIL	ND	N/A	MG/KG	0.0406	0.00641	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4-DINITROPHENOL	51-28-5	SOIL	ND	N/A	MG/KG	0.209	0.0488	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,4-DINITROTOLUENE	121-14-2	SOIL	ND	N/A	MG/KG	0.0406	0.00331	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2,6-DINITROTOLUENE	606-20-2	SOIL	ND	N/A	MG/KG	0.0406	0.00423	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-CHLORONAPHTHALENE	91-58-7	SOIL	ND	N/A	MG/KG	0.00824	0.000856	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-CHLOROPHENOL	95-57-8	SOIL	ND	N/A	MG/KG	0.0406	0.00335	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-METHYLNAPHTHALENE	91-57-6	SOIL	ND	N/A	MG/KG	0.00824	0.000737	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-METHYLPHENOL	95-48-7	SOIL	ND	N/A	MG/KG	0.0406	0.00287	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-NITROANILINE	88-74-4	SOIL	ND	N/A	MG/KG	0.209	0.0184	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	2-NITROPHENOL	88-75-5	SOIL	ND	N/A	MG/KG	0.0406	0.00452	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	3,3'-DICHLOROBENZIDINE	91-94-1	SOIL	ND	N/A	MG/KG	0.0406	0.00434	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	3-NITROANILINE	99-09-2	SOIL	ND	N/A	MG/KG	0.209	0.0169	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4,6-DINITRO-2-METHYLPHENOL	534-52-1	SOIL	ND	N/A	MG/KG	0.209	0.0165	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4-BROMOPHENYL PHENYL ETHER	101-55-3	SOIL	ND	N/A	MG/KG	0.0406	0.00357	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4-CHLORO-3-METHYLPHENOL	59-50-7	SOIL	ND	N/A	MG/KG	0.0406	0.00378	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4-CHLOROPHENYL PHENYL ETHER	7005-72-3	SOIL	ND	N/A	MG/KG	0.0406	0.00456	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4-NITROANILINE	100-01-6	SOIL	ND	N/A	MG/KG	0.209	0.0166	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	4-NITROPHENOL	100-02-7	SOIL	ND	N/A	MG/KG	0.209	0.015	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ACENAPHTHENE	83-32-9	SOIL	ND	N/A	MG/KG	0.00824	0.000788	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ACENAPHTHYLENE	208-96-8	SOIL	ND	N/A	MG/KG	0.00824	0.000939	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ACETOPHENONE	98-86-2	SOIL	ND	N/A	MG/KG	0.0406	0.00337	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ANTHRACENE	120-12-7	SOIL	ND	N/A	MG/KG	0.00824	0.000802	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ATRAZINE	1912-24-9	SOIL	ND	N/A	MG/KG	0.0406	0.00399	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZALDEHYDE	100-52-7	SOIL	0.0406	UJ	MG/KG	0.0406	0.00615	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZO[A]ANTHRACENE	56-55-3	SOIL	ND	N/A	MG/KG	0.00824	0.00103	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZO[A]PYRENE	50-32-8	SOIL	ND	N/A	MG/KG	0.00824	0.000821	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZO[B]FLUORANTHENE	205-99-2	SOIL	ND	N/A	MG/KG	0.00824	0.00129	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZO[G,H,I]PERYLENE	191-24-2	SOIL	ND	N/A	MG/KG	0.00824	0.000816	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BENZO[K]FLUORANTHENE	207-08-9	SOIL	ND	N/A	MG/KG	0.00824	0.00166	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BIS(2-CHLOROETHOXY)METHANE	111-91-1	SOIL	ND	N/A	MG/KG	0.0406	0.0027	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BIS(2-CHLOROETHYL)ETHER	111-44-4	SOIL	ND	N/A	MG/KG	0.00824	0.0011	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BIS(2-ETHYLHEXYL) PHTHALATE	117-81-7	SOIL	ND	N/A	MG/KG	0.082	0.00663	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	BUTYL BENZYL PHTHALATE	85-68-7	SOIL	ND	N/A	MG/KG	0.0406	0.0056	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	CAPROLACTAM	105-60-2	SOIL	ND	N/A	MG/KG	0.209	0.031	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	CARBAZOLE	86-74-8	SOIL	ND	N/A	MG/KG	0.00824	0.000756	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	CHRYSENE	218-01-9	SOIL	ND	N/A	MG/KG	0.00824	0.000976	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DIBENZ(A,H)ANTHRACENE	53-70-3	SOIL	ND	N/A	MG/KG	0.00824	0.000912	180-195402	180-195402	1	SEMI-VOLATILE

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Table A-1 Split Sample Results

SampleID	Collected	Received	Prepped	Analyzed	Method	Component	CAS	Matrix	Result	EAQual	Units	RL	MDL	QCLot	QCRun	Dilution	Analytical Group
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DIBENZOFURAN	132-64-9	SOIL	ND	N/A	MG/KG	0.0406	0.00403	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DIETHYL PHTHALATE	84-66-2	SOIL	ND	N/A	MG/KG	0.0406	0.00448	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DIMETHYL PHTHALATE	131-11-3	SOIL	ND	N/A	MG/KG	0.0406	0.00447	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DI-N-BUTYL PHTHALATE	84-74-2	SOIL	ND	N/A	MG/KG	0.0406	0.00514	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	DI-N-OCTYL PHTHALATE	117-84-0	SOIL	ND	N/A	MG/KG	0.0406	0.00432	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	FLUORANTHENE	206-44-0	SOIL	ND	N/A	MG/KG	0.00824	0.000877	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	FLUORENE	86-73-7	SOIL	ND	N/A	MG/KG	0.00824	0.00108	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	HEXACHLOROBENZENE	118-74-1	SOIL	ND	N/A	MG/KG	0.00824	0.000874	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	HEXACHLOROBUTADIENE	87-68-3	SOIL	ND	N/A	MG/KG	0.00824	0.000918	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	HEXACHLOROCYCLOPENTADIENE	77-47-4	SOIL	ND	N/A	MG/KG	0.0406	0.00442	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	HEXACHLOROETHANE	67-72-1	SOIL	0.0406	UJ	MG/KG	0.0406	0.00295	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	INDENO[1,2,3-CD]PYRENE	193-39-5	SOIL	ND	N/A	MG/KG	0.00824	0.000845	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	ISOPHORONE	78-59-1	SOIL	ND	N/A	MG/KG	0.0406	0.00309	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	METHYLPHENOL, 3 & 4	106-44-5	SOIL	ND	N/A	MG/KG	0.0406	0.00401	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	NAPHTHALENE	91-20-3	SOIL	ND	N/A	MG/KG	0.00824	0.000707	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	NITROBENZENE	98-95-3	SOIL	ND	N/A	MG/KG	0.082	0.00341	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	N-NITROSODI-N-PROPYLAMINE	621-64-7	SOIL	ND	N/A	MG/KG	0.00824	0.000962	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	N-NITROSODIPHENYLAMINE	86-30-6	SOIL	ND	N/A	MG/KG	0.0406	0.0038	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	PENTACHLOROPHENOL	87-86-5	SOIL	ND	N/A	MG/KG	0.0406	0.00367	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	PHENANTHRENE	85-01-8	SOIL	ND	N/A	MG/KG	0.00824	0.0013	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	PHENOL	108-95-2	SOIL	ND	N/A	MG/KG	0.0406	0.000969	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/25/2016	11/25/2016	8270D_LL	PYRENE	129-00-0	SOIL	ND	N/A	MG/KG	0.00824	0.000829	180-195402	180-195402	1	SEMI-VOLATILE
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	4,4'-DDD	72-54-8	SOIL	0.000512	N/A	MG/KG	0.000512	0.0000522	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	4,4'-DDE	72-55-9	SOIL	ND	N/A	MG/KG	0.000512	0.000163	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	4,4'-DDT	50-29-3	SOIL	0.000512	UJ	MG/KG	0.000512	0.0000522	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ALDRIN	309-00-2	SOIL	ND	N/A	MG/KG	0.000512	0.0000541	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ALPHA-BHC	319-84-6	SOIL	ND	N/A	MG/KG	0.000512	0.000151	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	BETA-BHC	319-85-7	SOIL	ND	N/A	MG/KG	0.000512	0.000115	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	CIS-CHLORDANE	5103-71-9	SOIL	ND	N/A	MG/KG	0.000512	0.0000824	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	DELTA-BHC	319-86-8	SOIL	0.000512	UJ	MG/KG	0.000512	0.000183	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	DIELDRIN	60-57-1	SOIL	ND	N/A	MG/KG	0.000512	0.0000486	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDOSULFAN I	959-98-8	SOIL	ND	N/A	MG/KG	0.000512	0.0000326	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDOSULFAN II	33213-65-9	SOIL	ND	N/A	MG/KG	0.000512	0.000157	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDOSULFAN SULFATE	1031-07-8	SOIL	ND	N/A	MG/KG	0.000512	0.0000652	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDRIN	72-20-8	SOIL	ND	N/A	MG/KG	0.000512	0.000149	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDRIN ALDEHYDE	7421-93-4	SOIL	ND	N/A	MG/KG	0.000512	0.000151	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	ENDRIN KETONE	53494-70-5	SOIL	ND	N/A	MG/KG	0.000512	0.000171	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	GAMMA-BHC (LINDANE)	58-89-9	SOIL	ND	N/A	MG/KG	0.000512	0.000106	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	HEPTACHLOR	76-44-8	SOIL	ND	N/A	MG/KG	0.000512	0.0000443	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	HEPTACHLOR EPOXIDE	1024-57-3	SOIL	ND	N/A	MG/KG	0.000512	0.0000615	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	METHOXYCHLOR	72-43-5	SOIL	0.000512	UJ	MG/KG	0.000512	0.000149	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	TOXAPHENE	8001-35-2	SOIL	ND	N/A	MG/KG	0.0205	0.0169	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/30/2016	12/1/2016	8081B_LL	TRANS-CHLORDANE	5103-74-2	SOIL	ND	N/A	MG/KG	0.000512	0.00004	180-195949	180-195949	5	PESTICIDES_ORGP
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	2,4,5-T	93-76-5	SOIL	ND	U	MG/KG	0.0249	0.00312	180-195866	180-195866	20	HERBICIDES
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	2,4-D	94-75-7	SOIL	ND	U	MG/KG	0.0995	0.00681	180-195866	180-195866	20	HERBICIDES
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	2,4-DB	94-82-6	SOIL	ND	U	MG/KG	0.0995	0.00761	180-195866	180-195866	20	HERBICIDES
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	DALAPON	75-99-0	SOIL	ND	N/A	MG/KG	0.112	0.00882	180-195866	180-195866	20	HERBICIDES
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	DICAMBA	1918-00-9	SOIL	ND	N/A	MG/KG	0.0497	0.00596	180-195866	180-195866	20	HERBICIDES
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	DICHLORPROP	120-36-5	SOIL	ND	N/A	MG/KG	0.0995	0.0118	180-195866	180-195866	20	HERBICIDES
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	DINOSEB	88-85-7	SOIL	ND	U	MG/KG	0.0149	0.00566	180-195866	180-195866	20	HERBICIDES
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	MCPA	94-74-6	SOIL	ND	U	MG/KG	9.95	2.05	180-195866	180-195866	20	HERBICIDES
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	MCPP	93-65-2	SOIL	ND	U	MG/KG	9.95	2	180-195866	180-195866	20	HERBICIDES
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/27/2016	11/30/2016	8151A	SILVEX (2,4,5-TP)	93-72-1	SOIL	ND	U	MG/KG	0.0249	0.00261	180-195866	180-195866	20	HERBICIDES
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	ALUMINUM	7429-90-5	SOIL	24800	N/A	MG/KG	3.19	0.614	180-196391	180-196391	1	METALS
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	ANTIMONY	7440-36-0	SOIL	0.419	N/A	MG/KG	0.213	0.0306	180-196391	180-196391	1	METALS
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	ARSENIC	7440-38-2	SOIL	11.2	N/A	MG/KG	0.106	0.0153	180-196391	180-196391	1	METALS
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	BARIUM	7440-39-3	SOIL	486	N/A	MG/KG	1.06	0.0158	180-196391	180-196391	1	METALS
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	BERYLLIUM	7440-41-7	SOIL	2.48	N/A	MG/KG	0.106	0.00799	180-196391	180-196391	1	METALS

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Table A-1 Split Sample Results

SampleID	Collected	Received	Prepped	Analyzed	Method	Component	CAS	Matrix	Result	EAQual	Units	RL	MDL	QCLot	QCRun	Dilution	Analytical Group
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	BORON	7440-42-8	SOIL	7.36	N/A	MG/KG	2.13	0.339	180-196391	180-196391	1	METALS
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	CADMIUM	7440-43-9	SOIL	0.425	N/A	MG/KG	0.106	0.0138	180-196391	180-196391	1	METALS
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	CHROMIUM	7440-47-3	SOIL	26.4	N/A	MG/KG	0.213	0.0556	180-196391	180-196391	1	METALS
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	COBALT	7440-48-4	SOIL	97.5	N/A	MG/KG	0.0532	0.00266	180-196391	180-196391	1	METALS
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	COPPER	7440-50-8	SOIL	18.5	N/A	MG/KG	0.213	0.0555	180-196391	180-196391	1	METALS
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	LEAD	7439-92-1	SOIL	107	N/A	MG/KG	0.106	0.00969	180-196391	180-196391	1	METALS
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/6/2016	6020A	MANGANESE	7439-96-5	SOIL	7470	N/A	MG/KG	5.32	0.378	180-196495	180-196495	10	METALS
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/2/2016	7471B	MERCURY	7439-97-6	SOIL	0.00927	N/A	MG/KG	0.0404	0.00906	180-196111	180-196111	1	METALS
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	NICKEL	7440-02-0	SOIL	95.6	N/A	MG/KG	0.106	0.0414	180-196391	180-196391	1	METALS
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	SELENIUM	7782-49-2	SOIL	2.6	N/A	MG/KG	0.532	0.0471	180-196391	180-196391	1	METALS
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	SILVER	7440-22-4	SOIL	0.0529	N/A	MG/KG	0.106	0.00873	180-196391	180-196391	1	METALS
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	THALLIUM	7440-28-0	SOIL	0.325	N/A	MG/KG	0.106	0.00277	180-196391	180-196391	1	METALS
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	VANADIUM	7440-62-2	SOIL	99.6	N/A	MG/KG	0.106	0.0745	180-196391	180-196391	1	METALS
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	11/28/2016	12/5/2016	6020A	ZINC	7440-66-6	SOIL	37.1	N/A	MG/KG	0.532	0.206	180-196391	180-196391	1	METALS
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	NA	11/25/2016	MOISTURE	PERCENT MOISTURE	STL00177	SOIL	19.7	N/A	%	0.1	0.1	180-195434	180-195434	1	GENERAL CHEM
BGSB22-(1-2)-161122-S	11/22/2016	11/23/2016	NA	11/25/2016	MOISTURE	PERCENT SOLIDS	STL00234	SOIL	80.3	N/A	%	0.1	0.1	180-195434	180-195434	1	GENERAL CHEM

NOTES:
J = Estimated value
MDL = Maximum detection limit
mg/kg = miligrams per kilogram
NA = Not applicable
QC = Quality control
RL = Reporting limit
U = Undetected

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Table A-2 Data Comparison Summary, November 2016

Sample Location ID	Method	Analyte	Parameter	EA Results			PRP Results			RPD[2]
				Result (mg/kg)	Qualifier	MDL (mg/kg)	Result mg/kg	Qualifier[1]	MDL (mg/kg)	
BGSB10-(0.0-0.5)-161122-S	8270D_LL	1,1'-BIPHENYL	SEMI-VOLATILE	ND		0.0324	<0.0019		0.0019	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	1,2,4,5-TETRACHLOROBENZENE	SEMI-VOLATILE	ND		0.0275	<0.0011		0.0011	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	1,4-DIOXANE	SEMI-VOLATILE	ND		0.0416	<0.0024		0.0024	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	1-METHYLNAPHTHALENE	SEMI-VOLATILE	ND		0.00774	<0.0016		0.0016	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	2,2'-OXYBIS[1-CHLOROPROPANE]	SEMI-VOLATILE	ND		0.00783	NR		NR	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	2,3,4,6-TETRACHLOROPHENOL	SEMI-VOLATILE	ND		0.0233	<0.0032		0.0032	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	2,4,5-TRICHLOROPHENOL	SEMI-VOLATILE	ND		0.0387	<0.0027		0.0027	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	2,4,6-TRICHLOROPHENOL	SEMI-VOLATILE	ND		0.0543	<0.0019		0.0019	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	2,4-DICHLOROPHENOL	SEMI-VOLATILE	ND		0.00728	<0.0014		0.0014	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	2,4-DIMETHYLPHENOL	SEMI-VOLATILE	ND		0.0567	<0.0036		0.0036	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	2,4-DINITROPHENOL	SEMI-VOLATILE	ND		0.432	<0.0049	JL	0.0049	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	2,4-DINITROTOLUENE	SEMI-VOLATILE	ND		0.0293	<0.00098		0.00098	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	2,6-DINITROTOLUENE	SEMI-VOLATILE	ND		0.0374	<0.0036		0.0036	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	2-CHLORONAPHTHALENE	SEMI-VOLATILE	ND		0.00757	<0.0014		0.0014	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	2-CHLOROPHENOL	SEMI-VOLATILE	ND		0.0297	<0.0014		0.0014	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	2-METHYLNAPHTHALENE	SEMI-VOLATILE	ND		0.00652	<0.00055		0.00055	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	2-METHYLPHENOL	SEMI-VOLATILE	ND		0.0253	<0.0012		0.0012	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	2-NITROANILINE	SEMI-VOLATILE	ND		0.162	<0.0021	JL	0.0021	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	2-NITROPHENOL	SEMI-VOLATILE	ND		0.04	<0.0027		0.0027	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	3,3'-DICHLOROBENZIDINE	SEMI-VOLATILE	ND		0.0383	<0.0027		0.0027	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	3-NITROANILINE	SEMI-VOLATILE	ND		0.149	<0.0021		0.0021	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	4,6-DINITRO-2-METHYLPHENOL	SEMI-VOLATILE	ND		0.146	<0.0023		0.0023	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	4-BROMOPHENYL PHENYL ETHER	SEMI-VOLATILE	ND		0.0316	<0.0017		0.0017	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	4-CHLORO-3-METHYLPHENOL	SEMI-VOLATILE	ND		0.0334	<0.00077		0.00077	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	4-CHLOROPHENYL PHENYL ETHER	SEMI-VOLATILE	ND		0.0403	<0.0016		0.0016	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	4-NITROANILINE	SEMI-VOLATILE	ND		0.147	<0.0024		0.0024	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	4-NITROPHENOL	SEMI-VOLATILE	ND		0.132	<0.0021		0.0021	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	ACENAPHTHENE	SEMI-VOLATILE	0.017		0.00697	0.0042		0.00055	**121**
BGSB10-(0.0-0.5)-161122-S	8270D_LL	ACENAPHTHYLENE	SEMI-VOLATILE	0.0222		0.00831	0.0038		0.0011	**142**
BGSB10-(0.0-0.5)-161122-S	8270D_LL	ACETOPHENONE	SEMI-VOLATILE	ND		0.0298	<0.00087		0.00087	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	ANTHRACENE	SEMI-VOLATILE	0.0631		0.0071	0.029		0.00055	**74**
BGSB10-(0.0-0.5)-161122-S	8270D_LL	ATRAZINE	SEMI-VOLATILE	ND		0.0353	<0.0022		0.0022	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	BENZALDEHYDE	SEMI-VOLATILE	ND	UJ	0.0544	<0.0013	JL	0.0013	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	BENZO[A]ANTHRACENE	SEMI-VOLATILE	0.712		0.00909	0.32		0.0017	**76**
BGSB10-(0.0-0.5)-161122-S	8270D_LL	BENZO[A]PYRENE	SEMI-VOLATILE	0.811		0.00726	0.39		0.0055	**70**
BGSB10-(0.0-0.5)-161122-S	8270D_LL	BENZO[B]FLUORANTHENE	SEMI-VOLATILE	1.22		0.0114	0.6		0.0066	**68**

Table A-2 Data Comparison Summary, November 2016

Sample Location ID	Method	Analyte	Parameter	EA Results			PRP Results			RPD[2]
				Result (mg/kg)	Qualifier	MDL (mg/kg)	Result mg/kg	Qualifier[1]	MDL (mg/kg)	
BGSB10-(0.0-0.5)-161122-S	8270D_LL	BENZO[G,H,I]PERYLENE	SEMI-VOLATILE	0.851		0.00722	0.27		0.00077	**104**
BGSB10-(0.0-0.5)-161122-S	8270D_LL	BENZO[K]FLUORANTHENE	SEMI-VOLATILE	0.424		0.0147	0.23		0.0049	**59**
BGSB10-(0.0-0.5)-161122-S	8270D_LL	BIS(2-CHLOROETHOXY)METHANE	SEMI-VOLATILE	ND		0.0239	<0.00098		0.00098	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	BIS(2-CHLOROETHYL)ETHER	SEMI-VOLATILE	ND		0.00974	<0.0012		0.0012	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	Bis(2-chloroisopropyl)ether	SEMI-VOLATILE	NR		NR	<0.0015		0.0015	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	BIS(2-ETHYLHEXYL) PHTHALATE	SEMI-VOLATILE	0.134		0.0586	0.08		0.0019	50
BGSB10-(0.0-0.5)-161122-S	8270D_LL	BUTYL BENZYL PHTHALATE	SEMI-VOLATILE	0.359		0.0496	0.029		0.0014	**170**
BGSB10-(0.0-0.5)-161122-S	8270D_LL	CAPROLACTAM	SEMI-VOLATILE	1.85		0.274	<0.0013		0.0013	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	CARBAZOLE	SEMI-VOLATILE	0.0664		0.00668	0.026		0.0013	**87**
BGSB10-(0.0-0.5)-161122-S	8270D_LL	CHRYSENE	SEMI-VOLATILE	1.03		0.00864	0.43		0.0044	**82**
BGSB10-(0.0-0.5)-161122-S	8270D_LL	DIBENZ(A,H)ANTHRACENE	SEMI-VOLATILE	0.206		0.00807	0.07		0.0017	**99**
BGSB10-(0.0-0.5)-161122-S	8270D_LL	DIBENZOFURAN	SEMI-VOLATILE	0.359		0.0357	0.0025		0.00077	**197**
BGSB10-(0.0-0.5)-161122-S	8270D_LL	DIETHYL PHTHALATE	SEMI-VOLATILE	ND		0.0396	<0.0011		0.0011	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	DIMETHYL PHTHALATE	SEMI-VOLATILE	ND		0.0395	<0.00087		0.00087	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	DI-N-BUTYL PHTHALATE	SEMI-VOLATILE	ND		0.0454	0.0044		0.0013	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	DI-N-OCTYL PHTHALATE	SEMI-VOLATILE	ND		0.0382	<0.00098		0.00098	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	FLUORANTHENE	SEMI-VOLATILE	1.54		0.00776	0.59		0.0060	**89**
BGSB10-(0.0-0.5)-161122-S	8270D_LL	FLUORENE	SEMI-VOLATILE	ND		0.00956	0.0047		0.0012	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	HEXACHLOROBENZENE	SEMI-VOLATILE	ND		0.00773	<0.00098		0.00098	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	HEXACHLOROBUTADIENE	SEMI-VOLATILE	ND		0.00812	<0.0013		0.0013	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	HEXACHLOROCYCLOPENTADIENE	SEMI-VOLATILE	ND		0.0391	<0.00087		0.00087	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	HEXACHLOROETHANE	SEMI-VOLATILE	ND	UJ	0.0261	<0.0016		0.0016	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	INDENO[1,2,3-CD]PYRENE	SEMI-VOLATILE	0.71		0.00747	0.3		0.00087	**81**
BGSB10-(0.0-0.5)-161122-S	8270D_LL	ISOPHORONE	SEMI-VOLATILE	ND		0.0273	<0.00087		0.00087	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	METHYLPHENOL, 3 & 4	SEMI-VOLATILE	ND		0.0355	<0.0011		0.0011	NA
							<0.0011		0.0011	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	NAPHTHALENE	SEMI-VOLATILE	ND		0.00625	<0.00066		0.00066	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	NITROBENZENE	SEMI-VOLATILE	ND		0.0302	<0.00098		0.00098	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	N-NITROSODI-N-PROPYLAMINE	SEMI-VOLATILE	ND		0.00851	<0.0012		0.0012	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	N-NITROSODIPHENYLAMINE	SEMI-VOLATILE	ND		0.0336	<0.00077		0.00077	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	PENTACHLOROPHENOL	SEMI-VOLATILE	ND		0.0324	<0.0036		0.0036	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	PHENANTHRENE	SEMI-VOLATILE	0.375		0.0115	0.14		0.0016	**91**
BGSB10-(0.0-0.5)-161122-S	8270D_LL	PHENOL	SEMI-VOLATILE	ND		0.00857	<0.0012		0.0012	NA
BGSB10-(0.0-0.5)-161122-S	8270D_LL	PYRENE	SEMI-VOLATILE	1.09		0.00733	0.48		0.0033	**78**
BGSB10-(0.0-0.5)-161122-S	8081B_LL	4,4'-DDD	PESTICIDES_ORGP	0.00097		4.68E-05	0.0024	J	0.00055	**85**
BGSB10-(0.0-0.5)-161122-S	8081B_LL	4,4'-DDE	PESTICIDES_ORGP	ND		0.000146	<0.00055		0.00055	NA

Table A-2 Data Comparison Summary, November 2016

Sample Location ID	Method	Analyte	Parameter	EA Results			PRP Results			RPD[2]
				Result (mg/kg)	Qualifier	MDL (mg/kg)	Result mg/kg	Qualifier[1]	MDL (mg/kg)	
BGSB10-(0.0-0.5)-161122-S	8081B_LL	4,4'-DDT	PESTICIDES_ORGP	ND	UJ	4.68E-05	0.0015		0.00055	NA
BGSB10-(0.0-0.5)-161122-S	8081B_LL	ALDRIN	PESTICIDES_ORGP	0.000148		4.85E-05	<0.00033		0.00033	NA
BGSB10-(0.0-0.5)-161122-S	8081B_LL	ALPHA-BHC	PESTICIDES_ORGP	ND		0.000135	<0.00033		0.00033	NA
BGSB10-(0.0-0.5)-161122-S	8081B_LL	BETA-BHC	PESTICIDES_ORGP	ND		0.000103	0.0026	J	0.00033	NA
BGSB10-(0.0-0.5)-161122-S	8081B_LL	CIS-CHLORDANE	PESTICIDES_ORGP	0.00115	J	7.38E-05	<0.00022		0.00022	NA
BGSB10-(0.0-0.5)-161122-S	8081B_LL	DELTA-BHC	PESTICIDES_ORGP	ND	UJ	0.000164	<0.00022	JL	0.00022	NA
BGSB10-(0.0-0.5)-161122-S	8081B_LL	DIELDRIN	PESTICIDES_ORGP	0.0014	J	4.35E-05	0.0026	J	0.00055	**60**
BGSB10-(0.0-0.5)-161122-S	8081B_LL	ENDOSULFAN I	PESTICIDES_ORGP	ND		2.92E-05	<0.00033		0.00033	NA
BGSB10-(0.0-0.5)-161122-S	8081B_LL	ENDOSULFAN II	PESTICIDES_ORGP	ND		0.00014	<0.00065		0.00065	NA
BGSB10-(0.0-0.5)-161122-S	8081B_LL	ENDOSULFAN SULFATE	PESTICIDES_ORGP	ND		5.84E-05	<0.00065		0.00065	NA
BGSB10-(0.0-0.5)-161122-S	8081B_LL	ENDRIN	PESTICIDES_ORGP	ND		0.000134	<0.00065		0.00065	NA
BGSB10-(0.0-0.5)-161122-S	8081B_LL	ENDRIN ALDEHYDE	PESTICIDES_ORGP	ND		0.000135	<0.00065		0.00065	NA
BGSB10-(0.0-0.5)-161122-S	8081B_LL	ENDRIN KETONE	PESTICIDES_ORGP	ND		0.000153	0.0026		0.00065	NA
BGSB10-(0.0-0.5)-161122-S	8081B_LL	GAMMA-BHC (LINDANE)	PESTICIDES_ORGP	ND		9.47E-05	<0.00022		0.00022	NA
BGSB10-(0.0-0.5)-161122-S	8081B_LL	HEPTACHLOR	PESTICIDES_ORGP	ND		3.97E-05	<0.00033		0.00033	NA
BGSB10-(0.0-0.5)-161122-S	8081B_LL	HEPTACHLOR EPOXIDE	PESTICIDES_ORGP	0.000183	J	5.51E-05	<0.00033		0.00033	NA
BGSB10-(0.0-0.5)-161122-S	8081B_LL	METHOXYCHLOR	PESTICIDES_ORGP	ND	UJ	0.000133	<0.0037		0.0037	NA
BGSB10-(0.0-0.5)-161122-S	8081B_LL	TOXAPHENE	PESTICIDES_ORGP	ND		0.0151	<0.0052		0.0052	NA
BGSB10-(0.0-0.5)-161122-S	8081B_LL	TRANS-CHLORDANE	PESTICIDES_ORGP	ND		3.58E-05	0.0022		0.00022	NA
BGSB10-(0.0-0.5)-161122-S	8151A	2,4,5-T	HERBICIDES	ND	U	0.00276	<0.0015		0.0015	NA
BGSB10-(0.0-0.5)-161122-S	8151A	2,4-D	HERBICIDES	ND	U	0.00603	<0.00077		0.00077	NA
BGSB10-(0.0-0.5)-161122-S	8151A	2,4-DB	HERBICIDES	ND	U	0.00675	<0.00098		0.00098	NA
BGSB10-(0.0-0.5)-161122-S	8151A	DALAPON	HERBICIDES	ND		0.00782	<0.0013		0.0013	NA
BGSB10-(0.0-0.5)-161122-S	8151A	DICAMBA	HERBICIDES	ND		0.00528	<0.0014		0.0014	NA
BGSB10-(0.0-0.5)-161122-S	8151A	DICHLORPROP	HERBICIDES	ND		0.0104	0.0027	J	0.0017	NA
BGSB10-(0.0-0.5)-161122-S	8151A	DINOSEB	HERBICIDES	ND	U	0.00501	<0.0015		0.0015	NA
BGSB10-(0.0-0.5)-161122-S	8151A	MCPA	HERBICIDES	ND	U	1.82	<0.11		0.11	NA
BGSB10-(0.0-0.5)-161122-S	8151A	MCPP	HERBICIDES	ND	U	1.77	1.3	J	0.17	NA
BGSB10-(0.0-0.5)-161122-S	8151A	SILVEX (2,4,5-TP)	HERBICIDES	ND	U	0.00232	<0.0019		0.0019	NA
BGSB10-(0.0-0.5)-161122-S	6020A	ALUMINUM	METALS	9360		0.504	5420		20.0	**53**
BGSB10-(0.0-0.5)-161122-S	6020A	ANTIMONY	METALS	0.41		0.0251	<0.200		0.200	NA
BGSB10-(0.0-0.5)-161122-S	6020A	ARSENIC	METALS	2.94		0.0126	2.37		0.100	21
BGSB10-(0.0-0.5)-161122-S	6020A	BARIUM	METALS	109		0.0129	87.6		0.0800	22
BGSB10-(0.0-0.5)-161122-S	6020A	BERYLLIUM	METALS	0.608		0.00656	0.372		0.0500	48
BGSB10-(0.0-0.5)-161122-S	6020A	BORON	METALS	5.83		0.279	3.18		1.40	**59**
BGSB10-(0.0-0.5)-161122-S	6020A	CADMIUM	METALS	0.204		0.0114	0.229		0.0500	12

Table A-2 Data Comparison Summary, November 2016

Sample Location ID	Method	Analyte	Parameter	EA Results			PRP Results			RPD[2]
				Result (mg/kg)	Qualifier	MDL (mg/kg)	Result mg/kg	Qualifier[1]	MDL (mg/kg)	
BGSB10-(0.0-0.5)-161122-S	6020A	CHROMIUM	METALS	14.3		0.0456	9.5		0.0900	40
BGSB10-(0.0-0.5)-161122-S	6020A	COBALT	METALS	5.56		0.00219	4.6		0.0700	19
BGSB10-(0.0-0.5)-161122-S	6020A	COPPER	METALS	13		0.0456	10.1		0.100	25
BGSB10-(0.0-0.5)-161122-S	6020A	LEAD	METALS	40.5		0.00796	27.4		0.0500	39
BGSB10-(0.0-0.5)-161122-S	6020A	MANGANESE	METALS	215		0.031	185		10.0	15
BGSB10-(0.0-0.5)-161122-S	7471B	MERCURY	METALS	0.0294		0.00801	0.0289		0.000534	2
BGSB10-(0.0-0.5)-161122-S	6020A	NICKEL	METALS	10.2		0.034	8.17		0.0900	22
BGSB10-(0.0-0.5)-161122-S	6020A	SELENIUM	METALS	0.482		0.0386	0.373		0.180	25
BGSB10-(0.0-0.5)-161122-S	6020A	SILVER	METALS	0.0945		0.00717	<0.0800		0.0800	NA
BGSB10-(0.0-0.5)-161122-S	6020A	THALLIUM	METALS	0.0915		0.00227	<0.0700		0.0700	NA
BGSB10-(0.0-0.5)-161122-S	6020A	VANADIUM	METALS	19		0.0612	15.4		0.230	21
BGSB10-(0.0-0.5)-161122-S	6020A	ZINC	METALS	82.5		0.169	72.8		0.250	12
BGSB10-(1-2)-161122-S	8270D_LL	1,1'-BIPHENYL	SEMI-VOLATILE	ND		0.0164	<0.0019		0.0019	NA
BGSB10-(1-2)-161122-S	8270D_LL	1,2,4,5-TETRACHLOROBENZENE	SEMI-VOLATILE	ND		0.0139	<0.0011		0.0011	NA
BGSB10-(1-2)-161122-S	8270D_LL	1,4-DIOXANE	SEMI-VOLATILE	ND		0.0211	<0.0024	JL	0.0024	NA
BGSB10-(1-2)-161122-S	8270D_LL	1-METHYLNAPHTHALENE	SEMI-VOLATILE	ND		0.00392	<0.0017		0.0017	NA
BGSB10-(1-2)-161122-S	8270D_LL	2,2'-OXYBIS[1-CHLOROPROPANE]	SEMI-VOLATILE	ND		0.00396	NR		NR	NA
BGSB10-(1-2)-161122-S	8270D_LL	2,3,4,6-TETRACHLOROPHENOL	SEMI-VOLATILE	ND		0.0118	<0.0032		0.0032	NA
BGSB10-(1-2)-161122-S	8270D_LL	2,4,5-TRICHLOROPHENOL	SEMI-VOLATILE	ND		0.0196	<0.0028		0.0028	NA
BGSB10-(1-2)-161122-S	8270D_LL	2,4,6-TRICHLOROPHENOL	SEMI-VOLATILE	ND		0.0275	<0.0019		0.0019	NA
BGSB10-(1-2)-161122-S	8270D_LL	2,4-DICHLOROPHENOL	SEMI-VOLATILE	ND		0.00368	<0.0014		0.0014	NA
BGSB10-(1-2)-161122-S	8270D_LL	2,4-DIMETHYLPHENOL	SEMI-VOLATILE	ND		0.0287	<0.0036	JL	0.0036	NA
BGSB10-(1-2)-161122-S	8270D_LL	2,4-DINITROPHENOL	SEMI-VOLATILE	ND		0.219	<0.0050	JL	0.0050	NA
BGSB10-(1-2)-161122-S	8270D_LL	2,4-DINITROTOLUENE	SEMI-VOLATILE	ND		0.0148	<0.00099		0.00099	NA
BGSB10-(1-2)-161122-S	8270D_LL	2,6-DINITROTOLUENE	SEMI-VOLATILE	ND		0.0189	<0.0036		0.0036	NA
BGSB10-(1-2)-161122-S	8270D_LL	2-CHLORONAPHTHALENE	SEMI-VOLATILE	ND		0.00383	<0.0014	JL	0.0014	NA
BGSB10-(1-2)-161122-S	8270D_LL	2-CHLOROPHENOL	SEMI-VOLATILE	ND		0.015	<0.0014		0.0014	NA
BGSB10-(1-2)-161122-S	8270D_LL	2-METHYLNAPHTHALENE	SEMI-VOLATILE	0.00638		0.0033	0.0031		0.00055	**69**
BGSB10-(1-2)-161122-S	8270D_LL	2-METHYLPHENOL	SEMI-VOLATILE	ND		0.0128	<0.0012		0.0012	NA
BGSB10-(1-2)-161122-S	8270D_LL	2-NITROANILINE	SEMI-VOLATILE	ND		0.0822	<0.0021		0.0021	NA
BGSB10-(1-2)-161122-S	8270D_LL	2-NITROPHENOL	SEMI-VOLATILE	ND		0.0202	<0.0028	JL	0.0028	NA
BGSB10-(1-2)-161122-S	8270D_LL	3,3'-DICHLOROBENZIDINE	SEMI-VOLATILE	ND		0.0194	<0.0028	JL	0.0028	NA
BGSB10-(1-2)-161122-S	8270D_LL	3-NITROANILINE	SEMI-VOLATILE	ND		0.0756	<0.0021	JL	0.0021	NA
BGSB10-(1-2)-161122-S	8270D_LL	4,6-DINITRO-2-METHYLPHENOL	SEMI-VOLATILE	ND		0.0738	<0.0023	JL	0.0023	NA
BGSB10-(1-2)-161122-S	8270D_LL	4-BROMOPHENYL PHENYL ETHER	SEMI-VOLATILE	ND		0.016	<0.0018		0.0018	NA
BGSB10-(1-2)-161122-S	8270D_LL	4-CHLORO-3-METHYLPHENOL	SEMI-VOLATILE	ND		0.0169	<0.00077		0.00077	NA

Table A-2 Data Comparison Summary, November 2016

Sample Location ID	Method	Analyte	Parameter	EA Results			PRP Results			RPD[2]
				Result (mg/kg)	Qualifier	MDL (mg/kg)	Result mg/kg	Qualifier[1]	MDL (mg/kg)	
BGSB10-(1-2)-161122-S	8270D_LL	4-CHLOROPHENYL PHENYL ETHER	SEMI-VOLATILE	ND		0.0204	<0.0017		0.0017	NA
BGSB10-(1-2)-161122-S	8270D_LL	4-NITROANILINE	SEMI-VOLATILE	ND		0.0744	<0.0024		0.0024	NA
BGSB10-(1-2)-161122-S	8270D_LL	4-NITROPHENOL	SEMI-VOLATILE	ND		0.067	<0.0021	R	0.0021	NA
BGSB10-(1-2)-161122-S	8270D_LL	ACENAPHTHENE	SEMI-VOLATILE	0.00775		0.00353	0.0092		0.00055	17
BGSB10-(1-2)-161122-S	8270D_LL	ACENAPHTHYLENE	SEMI-VOLATILE	0.0147		0.00421	0.0042		0.0011	**111**
BGSB10-(1-2)-161122-S	8270D_LL	ACETOPHENONE	SEMI-VOLATILE	<0.182		0.0151	<0.00088	JL	0.00088	NA
BGSB10-(1-2)-161122-S	8270D_LL	ANTHRACENE	SEMI-VOLATILE	0.0383		0.00359	0.078		0.00055	**68**
BGSB10-(1-2)-161122-S	8270D_LL	ATRAZINE	SEMI-VOLATILE	ND		0.0179	<0.0022		0.0022	NA
BGSB10-(1-2)-161122-S	8270D_LL	BENZALDEHYDE	SEMI-VOLATILE	ND	UJ	0.0275	<0.0013	R	0.0013	NA
BGSB10-(1-2)-161122-S	8270D_LL	BENZO[A]ANTHRACENE	SEMI-VOLATILE	0.299		0.0046	0.29	JL	0.0088	3
BGSB10-(1-2)-161122-S	8270D_LL	BENZO[A]PYRENE	SEMI-VOLATILE	0.319		0.00367	0.36	JL	0.0055	12
BGSB10-(1-2)-161122-S	8270D_LL	BENZO[B]FLUORANTHENE	SEMI-VOLATILE	0.449		0.00577	0.51	JL	0.0066	13
BGSB10-(1-2)-161122-S	8270D_LL	BENZO[G,H,I]PERYLENE	SEMI-VOLATILE	0.312		0.00365	0.23		0.00077	30
BGSB10-(1-2)-161122-S	8270D_LL	BENZO[K]FLUORANTHENE	SEMI-VOLATILE	0.195		0.00742	0.25	JL	0.0050	25
BGSB10-(1-2)-161122-S	8270D_LL	BIS(2-CHLOROETHOXY)METHANE	SEMI-VOLATILE	ND		0.0121	<0.00099		0.00099	NA
BGSB10-(1-2)-161122-S	8270D_LL	BIS(2-CHLOROETHYL)ETHER	SEMI-VOLATILE	ND		0.00493	<0.0012		0.0012	NA
BGSB10-(1-2)-161122-S	8270D_LL	Bis(2-chloroisopropyl)ether	SEMI-VOLATILE	NR		NR	<0.0015	JL	0.0015	NA
BGSB10-(1-2)-161122-S	8270D_LL	BIS(2-ETHYLHEXYL) PHTHALATE	SEMI-VOLATILE	0.118		0.0297	0.26	JL	0.0094	**75**
BGSB10-(1-2)-161122-S	8270D_LL	BUTYL BENZYL PHTHALATE	SEMI-VOLATILE	0.0473		0.0251	0.061		0.0014	25
BGSB10-(1-2)-161122-S	8270D_LL	CAPROLACTAM	SEMI-VOLATILE	ND		0.139	<0.0013	JL	0.0013	NA
BGSB10-(1-2)-161122-S	8270D_LL	CARBAZOLE	SEMI-VOLATILE	0.0244		0.00338	0.032		0.0013	27
BGSB10-(1-2)-161122-S	8270D_LL	CHRYSENE	SEMI-VOLATILE	0.399		0.00437	0.43	JL	0.0044	7
BGSB10-(1-2)-161122-S	8270D_LL	DIBENZ(A,H)ANTHRACENE	SEMI-VOLATILE	0.0783		0.00408	0.06	JL	0.0018	26
BGSB10-(1-2)-161122-S	8270D_LL	DIBENZOFURAN	SEMI-VOLATILE	ND		0.0181	0.005		0.00077	NA
BGSB10-(1-2)-161122-S	8270D_LL	DIETHYL PHTHALATE	SEMI-VOLATILE	ND		0.0201	<0.0011		0.0011	NA
BGSB10-(1-2)-161122-S	8270D_LL	DIMETHYL PHTHALATE	SEMI-VOLATILE	ND		0.02	<0.00088		0.00088	NA
BGSB10-(1-2)-161122-S	8270D_LL	DI-N-BUTYL PHTHALATE	SEMI-VOLATILE	ND		0.023	0.0053		0.0013	NA
BGSB10-(1-2)-161122-S	8270D_LL	DI-N-OCTYL PHTHALATE	SEMI-VOLATILE	ND		0.0193	<0.00099		0.00099	NA
BGSB10-(1-2)-161122-S	8270D_LL	FLUORANTHENE	SEMI-VOLATILE	0.6		0.00393	0.63	JL	0.0061	5
BGSB10-(1-2)-161122-S	8270D_LL	FLUORENE	SEMI-VOLATILE	ND		0.00484	0.013		0.0012	NA
BGSB10-(1-2)-161122-S	8270D_LL	HEXACHLOROBENZENE	SEMI-VOLATILE	ND		0.00391	<0.00099		0.00099	NA
BGSB10-(1-2)-161122-S	8270D_LL	HEXACHLOROBUTADIENE	SEMI-VOLATILE	ND		0.00411	<0.0013		0.0013	NA
BGSB10-(1-2)-161122-S	8270D_LL	HEXACHLOROCYCLOPENTADIENE	SEMI-VOLATILE	ND		0.0198	<0.00088	R	0.00088	NA
BGSB10-(1-2)-161122-S	8270D_LL	HEXACHLOROETHANE	SEMI-VOLATILE	NA	UJ	0.0132	<0.0017	JL	0.0017	NA
BGSB10-(1-2)-161122-S	8270D_LL	INDENO[1,2,3-CD]PYRENE	SEMI-VOLATILE	0.268		0.00378	0.28		0.00088	4
BGSB10-(1-2)-161122-S	8270D_LL	ISOPHORONE	SEMI-VOLATILE	ND		0.0138	<0.00088	JL	0.00088	NA

Table A-2 Data Comparison Summary, November 2016

Sample Location ID	Method	Analyte	Parameter	EA Results			PRP Results			RPD[2]
				Result (mg/kg)	Qualifier	MDL (mg/kg)	Result mg/kg	Qualifier[1]	MDL (mg/kg)	
BGSB10-(1-2)-161122-S	8270D_LL	METHYLPHENOL, 3 & 4	SEMI-VOLATILE	ND		0.018	<0.0011		0.0011	NA
							<0.0011		0.0011	NA
BGSB10-(1-2)-161122-S	8270D_LL	NAPHTHALENE	SEMI-VOLATILE	ND		0.00317	0.0024	JL	0.00066	NA
BGSB10-(1-2)-161122-S	8270D_LL	NITROBENZENE	SEMI-VOLATILE	ND		0.0153	<0.00099		0.00099	NA
BGSB10-(1-2)-161122-S	8270D_LL	N-NITROSODI-N-PROPYLAMINE	SEMI-VOLATILE	ND		0.00431	<0.0012		0.0012	NA
BGSB10-(1-2)-161122-S	8270D_LL	N-NITROSODIPHENYLAMINE	SEMI-VOLATILE	ND		0.017	<0.00077		0.00077	NA
BGSB10-(1-2)-161122-S	8270D_LL	PENTACHLOROPHENOL	SEMI-VOLATILE	ND		0.0164	<0.0036		0.0036	NA
BGSB10-(1-2)-161122-S	8270D_LL	PHENANTHRENE	SEMI-VOLATILE	0.173		0.00584	0.3	JL	0.0017	**54**
BGSB10-(1-2)-161122-S	8270D_LL	PHENOL	SEMI-VOLATILE	ND		0.00434	<0.0012		0.0012	NA
BGSB10-(1-2)-161122-S	8270D_LL	PYRENE	SEMI-VOLATILE	0.417		0.00371	0.58	JL	0.0033	33
BGSB10-(1-2)-161122-S	8081B_LL	4,4'-DDD	PESTICIDES_ORGP	0.000319	J	4.68E-05	<0.00055		0.00055	NA
BGSB10-(1-2)-161122-S	8081B_LL	4,4'-DDE	PESTICIDES_ORGP	ND	UJ	0.000146	<0.00055		0.00055	NA
BGSB10-(1-2)-161122-S	8081B_LL	4,4'-DDT	PESTICIDES_ORGP	ND		4.68E-05	<0.00055		0.00055	NA
BGSB10-(1-2)-161122-S	8081B_LL	ALDRIN	PESTICIDES_ORGP	0.0000811		4.84E-05	<0.00033		0.00033	NA
BGSB10-(1-2)-161122-S	8081B_LL	ALPHA-BHC	PESTICIDES_ORGP	ND		0.000135	<0.00033		0.00033	NA
BGSB10-(1-2)-161122-S	8081B_LL	BETA-BHC	PESTICIDES_ORGP	ND	UJ	0.000103	<0.00033		0.00033	NA
BGSB10-(1-2)-161122-S	8081B_LL	CIS-CHLORDANE	PESTICIDES_ORGP	0.000621	J	7.38E-05	<0.00022		0.00022	NA
BGSB10-(1-2)-161122-S	8081B_LL	DELTA-BHC	PESTICIDES_ORGP	ND		0.000163	<0.00022	JL	0.00022	NA
BGSB10-(1-2)-161122-S	8081B_LL	DIELDRIN	PESTICIDES_ORGP	0.000899		4.35E-05	<0.00055		0.00055	NA
BGSB10-(1-2)-161122-S	8081B_LL	ENDOSULFAN I	PESTICIDES_ORGP	ND		2.92E-05	<0.00033		0.00033	NA
BGSB10-(1-2)-161122-S	8081B_LL	ENDOSULFAN II	PESTICIDES_ORGP	ND		0.00014	<0.00066		0.00066	NA
BGSB10-(1-2)-161122-S	8081B_LL	ENDOSULFAN SULFATE	PESTICIDES_ORGP	ND		5.83E-05	<0.00066		0.00066	NA
BGSB10-(1-2)-161122-S	8081B_LL	ENDRIN	PESTICIDES_ORGP	ND		0.000134	<0.00066		0.00066	NA
BGSB10-(1-2)-161122-S	8081B_LL	ENDRIN ALDEHYDE	PESTICIDES_ORGP	ND		0.000135	<0.00066		0.00066	NA
BGSB10-(1-2)-161122-S	8081B_LL	ENDRIN KETONE	PESTICIDES_ORGP	ND		0.000153	<0.00066		0.00066	NA
BGSB10-(1-2)-161122-S	8081B_LL	GAMMA-BHC (LINDANE)	PESTICIDES_ORGP	ND		9.47E-05	<0.00022		0.00022	NA
BGSB10-(1-2)-161122-S	8081B_LL	HEPTACHLOR	PESTICIDES_ORGP	ND		3.96E-05	<0.00033		0.00033	NA
BGSB10-(1-2)-161122-S	8081B_LL	HEPTACHLOR EPOXIDE	PESTICIDES_ORGP	ND		0.000055	<0.00033		0.00033	NA
BGSB10-(1-2)-161122-S	8081B_LL	METHOXYCHLOR	PESTICIDES_ORGP	ND	UJ	0.000133	<0.0037		0.0037	NA
BGSB10-(1-2)-161122-S	8081B_LL	TOXAPHENE	PESTICIDES_ORGP	ND		0.0151	<0.0053		0.0053	NA
BGSB10-(1-2)-161122-S	8081B_LL	TRANS-CHLORDANE	PESTICIDES_ORGP	ND		3.58E-05	<0.00022		0.00022	NA
BGSB10-(1-2)-161122-S	8151A	2,4,5-T	HERBICIDES	ND	U	0.00276	<0.0015		0.0015	NA
BGSB10-(1-2)-161122-S	8151A	2,4-D	HERBICIDES	ND	U	0.00603	<0.00077		0.00077	NA
BGSB10-(1-2)-161122-S	8151A	2,4-DB	HERBICIDES	ND	U	0.00674	<0.00099		0.00099	NA
BGSB10-(1-2)-161122-S	8151A	DALAPON	HERBICIDES	ND		0.00781	0.016	J	0.0013	NA
BGSB10-(1-2)-161122-S	8151A	DICAMBA	HERBICIDES	ND		0.00527	<0.0014		0.0014	NA

Table A-2 Data Comparison Summary, November 2016

Sample Location ID	Method	Analyte	Parameter	EA Results			PRP Results			RPD[2]
				Result (mg/kg)	Qualifier	MDL (mg/kg)	Result mg/kg	Qualifier[1]	MDL (mg/kg)	
BGSB10-(1-2)-161122-S	8151A	DICHLORPROP	HERBICIDES	ND		0.0104	<0.0018		0.0018	NA
BGSB10-(1-2)-161122-S	8151A	DINOSEB	HERBICIDES	ND	U	0.00501	<0.0015		0.0015	NA
BGSB10-(1-2)-161122-S	8151A	MCPA	HERBICIDES	ND	U	1.81	<0.11		0.11	NA
BGSB10-(1-2)-161122-S	8151A	MCPP	HERBICIDES	ND	U	1.77	<0.18		0.18	NA
BGSB10-(1-2)-161122-S	8151A	SILVEX (2,4,5-TP)	HERBICIDES	ND	U	0.00231	<0.0019		0.0019	NA
BGSB10-(1-2)-161122-S	6020A	ALUMINUM	METALS	9720		0.629	6660		20.9	37
BGSB10-(1-2)-161122-S	6020A	ANTIMONY	METALS	0.473		0.0313	<0.209		0.209	NA
BGSB10-(1-2)-161122-S	6020A	ARSENIC	METALS	2.72		0.0157	3.03		0.104	11
BGSB10-(1-2)-161122-S	6020A	BARIUM	METALS	110		0.0161	107		0.0835	3
BGSB10-(1-2)-161122-S	6020A	BERYLLIUM	METALS	0.615		0.00818	0.489		0.0522	23
BGSB10-(1-2)-161122-S	6020A	BORON	METALS	6.22		0.347	3.69		1.46	**51**
BGSB10-(1-2)-161122-S	6020A	CADMIUM	METALS	0.306		0.0142	0.376		0.0522	21
BGSB10-(1-2)-161122-S	6020A	CHROMIUM	METALS	14.4		0.0569	14.5		0.0939	1
BGSB10-(1-2)-161122-S	6020A	COBALT	METALS	4.65		0.00273	4.86		0.0731	4
BGSB10-(1-2)-161122-S	6020A	COPPER	METALS	10.6		0.0568	11.4		0.104	7
BGSB10-(1-2)-161122-S	6020A	LEAD	METALS	89.5		0.00992	83.3		0.0522	7
BGSB10-(1-2)-161122-S	6020A	MANGANESE	METALS	217		0.0387	186		10.4	15
BGSB10-(1-2)-161122-S	7471B	MERCURY	METALS	0.0711		0.00688	0.0754		0.000547	6
BGSB10-(1-2)-161122-S	6020A	NICKEL	METALS	10		0.0424	9.67		0.0939	3
BGSB10-(1-2)-161122-S	6020A	SELENIUM	METALS	0.29		0.0482	0.356		0.188	20
BGSB10-(1-2)-161122-S	6020A	SILVER	METALS	0.384		0.00894	0.212		0.0835	**58**
BGSB10-(1-2)-161122-S	6020A	THALLIUM	METALS	0.0944		0.00283	0.0742	U	0.0731	24
BGSB10-(1-2)-161122-S	6020A	VANADIUM	METALS	17.8		0.0763	16.8		0.240	6
BGSB10-(1-2)-161122-S	6020A	ZINC	METALS	76.9		0.211	88.4		0.261	14
BGSB22-(0.0-0.5)-161122-S	8270D_LL	1,1'-BIPHENYL	SEMI-VOLATILE	ND		0.00322	<0.0018		0.0018	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	1,2,4,5-TETRACHLOROBENZENE	SEMI-VOLATILE	ND		0.00273	<0.0011		0.0011	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	1,4-DIOXANE	SEMI-VOLATILE	ND	U	0.00413	<0.0024		0.0024	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	1-METHYLNAPHTHALENE	SEMI-VOLATILE	ND		0.000769	<0.0016		0.0016	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	2,2'-OXYBIS[1-CHLOROPROPANE]	SEMI-VOLATILE	ND		0.000778	NR		NR	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	2,3,4,6-TETRACHLOROPHENOL	SEMI-VOLATILE	ND		0.00232	<0.0032		0.0032	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	2,4,5-TRICHLOROPHENOL	SEMI-VOLATILE	ND		0.00385	<0.0027		0.0027	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	2,4,6-TRICHLOROPHENOL	SEMI-VOLATILE	ND		0.0054	<0.0018		0.0018	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	2,4-DICHLOROPHENOL	SEMI-VOLATILE	ND		0.000723	<0.0014		0.0014	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	2,4-DIMETHYLPHENOL	SEMI-VOLATILE	ND	UJ	0.00564	<0.0036		0.0036	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	2,4-DINITROPHENOL	SEMI-VOLATILE	ND	UJ	0.0429	<0.0049		0.0049	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	2,4-DINITROTOLUENE	SEMI-VOLATILE	ND		0.00291	<0.00098		0.00098	NA

Table A-2 Data Comparison Summary, November 2016

Sample Location ID	Method	Analyte	Parameter	EA Results			PRP Results			RPD[2]
				Result (mg/kg)	Qualifier	MDL (mg/kg)	Result mg/kg	Qualifier[1]	MDL (mg/kg)	
BGSB22-(0.0-0.5)-161122-S	8270D_LL	2,6-DINITROTOLUENE	SEMI-VOLATILE	ND		0.00372	<0.0036		0.0036	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	2-CHLORONAPHTHALENE	SEMI-VOLATILE	ND		0.000752	<0.0014		0.0014	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	2-CHLOROPHENOL	SEMI-VOLATILE	ND		0.00295	<0.0014		0.0014	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	2-METHYLNAPHTHALENE	SEMI-VOLATILE	0.00137		0.000648	<0.00054		0.00054	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	2-METHYLPHENOL	SEMI-VOLATILE	ND		0.00252	<0.0012		0.0012	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	2-NITROANILINE	SEMI-VOLATILE	ND		0.0161	<0.0021		0.0021	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	2-NITROPHENOL	SEMI-VOLATILE	ND		0.00397	<0.0027		0.0027	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	3,3'-DICHLOROBENZIDINE	SEMI-VOLATILE	ND	UJ	0.00381	<0.0027		0.0027	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	3-NITROANILINE	SEMI-VOLATILE	ND		0.0148	<0.0021		0.0021	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	4,6-DINITRO-2-METHYLPHENOL	SEMI-VOLATILE	ND		0.0145	<0.0023		0.0023	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	4-BROMOPHENYL PHENYL ETHER	SEMI-VOLATILE	ND		0.00314	<0.0017		0.0017	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	4-CHLORO-3-METHYLPHENOL	SEMI-VOLATILE	ND		0.00332	<0.00076		0.00076	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	4-CHLOROPHENYL PHENYL ETHER	SEMI-VOLATILE	ND		0.00401	<0.0016		0.0016	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	4-NITROANILINE	SEMI-VOLATILE	ND		0.0146	<0.0024		0.0024	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	4-NITROPHENOL	SEMI-VOLATILE	ND		0.0131	<0.0021		0.0021	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	ACENAPHTHENE	SEMI-VOLATILE	ND		0.000692	<0.00054		0.00054	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	ACENAPHTHYLENE	SEMI-VOLATILE	0.00396		0.000826	<0.0011		0.0011	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	ACETOPHENONE	SEMI-VOLATILE	0.0169		0.00296	0.0019		0.00087	**160**
BGSB22-(0.0-0.5)-161122-S	8270D_LL	ANTHRACENE	SEMI-VOLATILE	0.00362		0.000705	<0.00054		0.00054	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	ATRAZINE	SEMI-VOLATILE	ND	UJ	0.00351	<0.0022		0.0022	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	BENZALDEHYDE	SEMI-VOLATILE	0.00751	J-	0.0054	<0.0013	JL	0.0013	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	BENZO[A]ANTHRACENE	SEMI-VOLATILE	0.014		0.000903	0.0037		0.0017	**116**
BGSB22-(0.0-0.5)-161122-S	8270D_LL	BENZO[A]PYRENE	SEMI-VOLATILE	0.0132		0.000721	<0.0011		0.0011	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	BENZO[B]FLUORANTHENE	SEMI-VOLATILE	0.0202	J-	0.00113	0.0063		0.0013	**105**
BGSB22-(0.0-0.5)-161122-S	8270D_LL	BENZO[G,H,I]PERYLENE	SEMI-VOLATILE	0.0165		0.000717	<0.00076		0.00076	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	BENZO[K]FLUORANTHENE	SEMI-VOLATILE	0.00857	J-	0.00146	0.0061		0.00098	34
BGSB22-(0.0-0.5)-161122-S	8270D_LL	BIS(2-CHLOROETHOXY)METHANE	SEMI-VOLATILE	ND	UJ	0.00237	<0.00098		0.00098	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	BIS(2-CHLOROETHYL)ETHER	SEMI-VOLATILE	ND	UJ	0.000967	<0.0012		0.0012	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	Bis(2-chloroisopropyl)ether	SEMI-VOLATILE	NR		NR	<0.0015		0.0015	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	BIS(2-ETHYLHEXYL) PHTHALATE	SEMI-VOLATILE	0.031		0.00582	0.015	U	0.0018	**70**
BGSB22-(0.0-0.5)-161122-S	8270D_LL	BUTYL BENZYL PHTHALATE	SEMI-VOLATILE	0.00591		0.00493	<0.0014		0.0014	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	CAPROLACTAM	SEMI-VOLATILE	0.184	R	0.0272	<0.0013		0.0013	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	CARBAZOLE	SEMI-VOLATILE	0.00176		0.000664	<0.0013		0.0013	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	CHRYSENE	SEMI-VOLATILE	0.0159		0.000858	0.0061		0.00087	**89**
BGSB22-(0.0-0.5)-161122-S	8270D_LL	DIBENZ(A,H)ANTHRACENE	SEMI-VOLATILE	0.00336		0.000802	<0.0017		0.0017	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	DIBENZOFURAN	SEMI-VOLATILE	ND		0.00355	<0.00076		0.00076	NA

Table A-2 Data Comparison Summary, November 2016

Sample Location ID	Method	Analyte	Parameter	EA Results			PRP Results			RPD[2]
				Result (mg/kg)	Qualifier	MDL (mg/kg)	Result mg/kg	Qualifier[1]	MDL (mg/kg)	
BGSB22-(0.0-0.5)-161122-S	8270D_LL	DIETHYL PHTHALATE	SEMI-VOLATILE	ND		0.00394	<0.0011		0.0011	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	DIMETHYL PHTHALATE	SEMI-VOLATILE	ND		0.00393	<0.00087		0.00087	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	DI-N-BUTYL PHTHALATE	SEMI-VOLATILE	0.00485		0.00452	<0.0013		0.0013	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	DI-N-OCTYL PHTHALATE	SEMI-VOLATILE	ND		0.0038	<0.00098		0.00098	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	FLUORANTHENE	SEMI-VOLATILE	0.0179		0.000771	0.0063		0.0012	**96**
BGSB22-(0.0-0.5)-161122-S	8270D_LL	FLUORENE	SEMI-VOLATILE	ND		0.00095	<0.0012		0.0012	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	HEXACHLOROBENZENE	SEMI-VOLATILE	ND		0.000768	<0.00098		0.00098	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	HEXACHLOROBUTADIENE	SEMI-VOLATILE	ND	UJ	0.000807	<0.0013		0.0013	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	HEXACHLOROCYCLOPENTADIENE	SEMI-VOLATILE	ND	UJ	0.00389	<0.00087		0.00087	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	HEXACHLOROETHANE	SEMI-VOLATILE	ND	UJ	0.00259	<0.0016		0.0016	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	INDENO[1,2,3-CD]PYRENE	SEMI-VOLATILE	0.0118		0.000743	<0.00087		0.00087	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	ISOPHORONE	SEMI-VOLATILE	ND		0.00272	<0.00087		0.00087	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	METHYLPHENOL, 3 & 4	SEMI-VOLATILE	ND		0.00353	<0.0011		0.0011	NA
							<0.0011		0.0011	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	NAPHTHALENE	SEMI-VOLATILE	ND	UJ	0.000621	<0.00065		0.00065	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	NITROBENZENE	SEMI-VOLATILE	ND	UJ	0.003	<0.00098		0.00098	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	N-NITROSODI-N-PROPYLAMINE	SEMI-VOLATILE	ND		0.000845	<0.0012		0.0012	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	N-NITROSODIPHENYLAMINE	SEMI-VOLATILE	ND		0.00334	<0.00076		0.00076	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	PENTACHLOROPHENOL	SEMI-VOLATILE	ND		0.00322	<0.0036		0.0036	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	PHENANTHRENE	SEMI-VOLATILE	ND		0.00115	0.0019		0.0016	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	PHENOL	SEMI-VOLATILE	ND		0.000852	<0.0012		0.0012	NA
BGSB22-(0.0-0.5)-161122-S	8270D_LL	PYRENE	SEMI-VOLATILE	0.0168	J-	0.000729	0.0059		0.00065	**96**
BGSB22-(0.0-0.5)-161122-S	8081B_LL	4,4'-DDD	PESTICIDES_ORGP	0.000472	J	4.59E-05	<0.00054		0.00054	NA
BGSB22-(0.0-0.5)-161122-S	8081B_LL	4,4'-DDE	PESTICIDES_ORGP	0.005	J	0.000143	0.0075	J	0.00054	40
BGSB22-(0.0-0.5)-161122-S	8081B_LL	4,4'-DDT	PESTICIDES_ORGP	0.0042	J-	4.59E-05	0.014		0.00054	**108**
BGSB22-(0.0-0.5)-161122-S	8081B_LL	ALDRIN	PESTICIDES_ORGP	ND		4.75E-05	<0.00033		0.00033	NA
BGSB22-(0.0-0.5)-161122-S	8081B_LL	ALPHA-BHC	PESTICIDES_ORGP	ND		0.000132	<0.00033		0.00033	NA
BGSB22-(0.0-0.5)-161122-S	8081B_LL	BETA-BHC	PESTICIDES_ORGP	ND		0.000101	<0.00033		0.00033	NA
BGSB22-(0.0-0.5)-161122-S	8081B_LL	CIS-CHLORDANE	PESTICIDES_ORGP	ND		7.24E-05	<0.00022		0.00022	NA
BGSB22-(0.0-0.5)-161122-S	8081B_LL	DELTA-BHC	PESTICIDES_ORGP	ND	UJ	0.00016	<0.00022	JL	0.00022	NA
BGSB22-(0.0-0.5)-161122-S	8081B_LL	DIELDRIN	PESTICIDES_ORGP	ND		4.27E-05	<0.00054		0.00054	NA
BGSB22-(0.0-0.5)-161122-S	8081B_LL	ENDOSULFAN I	PESTICIDES_ORGP	ND		2.86E-05	0.0015	J	0.00033	NA
BGSB22-(0.0-0.5)-161122-S	8081B_LL	ENDOSULFAN II	PESTICIDES_ORGP	ND		0.000138	<0.00065		0.00065	NA
BGSB22-(0.0-0.5)-161122-S	8081B_LL	ENDOSULFAN SULFATE	PESTICIDES_ORGP	ND		5.73E-05	0.003	J	0.00065	NA
BGSB22-(0.0-0.5)-161122-S	8081B_LL	ENDRIN	PESTICIDES_ORGP	ND		0.000131	<0.00065		0.00065	NA
BGSB22-(0.0-0.5)-161122-S	8081B_LL	ENDRIN ALDEHYDE	PESTICIDES_ORGP	ND		0.000132	<0.00065		0.00065	NA

Table A-2 Data Comparison Summary, November 2016

Sample Location ID	Method	Analyte	Parameter	EA Results			PRP Results			RPD[2]
				Result (mg/kg)	Qualifier	MDL (mg/kg)	Result mg/kg	Qualifier[1]	MDL (mg/kg)	
BGSB22-(0.0-0.5)-161122-S	8081B_LL	ENDRIN KETONE	PESTICIDES_ORGP	ND		0.00015	<0.00065		0.00065	NA
BGSB22-(0.0-0.5)-161122-S	8081B_LL	GAMMA-BHC (LINDANE)	PESTICIDES_ORGP	ND		9.29E-05	<0.00022		0.00022	NA
BGSB22-(0.0-0.5)-161122-S	8081B_LL	HEPTACHLOR	PESTICIDES_ORGP	0.000251	J	3.89E-05	<0.00033		0.00033	NA
BGSB22-(0.0-0.5)-161122-S	8081B_LL	HEPTACHLOR EPOXIDE	PESTICIDES_ORGP	0.000906	J	0.000054	0.0062		0.00033	**149**
BGSB22-(0.0-0.5)-161122-S	8081B_LL	METHOXYCHLOR	PESTICIDES_ORGP	ND	UJ	0.000131	<0.0037		0.0037	NA
BGSB22-(0.0-0.5)-161122-S	8081B_LL	TOXAPHENE	PESTICIDES_ORGP	ND		0.0148	<0.0052		0.0052	NA
BGSB22-(0.0-0.5)-161122-S	8081B_LL	TRANS-CHLORDANE	PESTICIDES_ORGP	ND		3.51E-05	<0.00022		0.00022	NA
BGSB22-(0.0-0.5)-161122-S	8151A	2,4,5-T	HERBICIDES	ND	U	0.00273	<0.0015	J	0.0015	NA
BGSB22-(0.0-0.5)-161122-S	8151A	2,4-D	HERBICIDES	ND	U	0.00595	<0.00076	J	0.00076	NA
BGSB22-(0.0-0.5)-161122-S	8151A	2,4-DB	HERBICIDES	ND	U	0.00666	0.021	J	0.00098	NA
BGSB22-(0.0-0.5)-161122-S	8151A	DALAPON	HERBICIDES	ND		0.00772	<0.0013		0.0013	NA
BGSB22-(0.0-0.5)-161122-S	8151A	DICAMBA	HERBICIDES	ND		0.00521	<0.0014	J	0.0014	NA
BGSB22-(0.0-0.5)-161122-S	8151A	DICHLORPROP	HERBICIDES	ND		0.0103	0.021	J	0.0017	NA
BGSB22-(0.0-0.5)-161122-S	8151A	DINOSEB	HERBICIDES	ND	U	0.00495	<0.0015	J	0.0015	NA
BGSB22-(0.0-0.5)-161122-S	8151A	MCPA	HERBICIDES	ND	U	1.79	<0.11	J	0.11	NA
BGSB22-(0.0-0.5)-161122-S	8151A	MCPP	HERBICIDES	ND	U	1.75	<0.17	J	0.17	NA
BGSB22-(0.0-0.5)-161122-S	8151A	SILVEX (2,4,5-TP)	HERBICIDES	ND	U	0.00229	<0.0018	J	0.0018	NA
BGSB22-(0.0-0.5)-161122-S	6020A	ALUMINUM	METALS	5750		0.609	2920		9.95	**65**
BGSB22-(0.0-0.5)-161122-S	6020A	ANTIMONY	METALS	0.379		0.0303	<0.199		0.199	NA
BGSB22-(0.0-0.5)-161122-S	6020A	ARSENIC	METALS	3.01	J-	0.0152	1.23		0.0995	**84**
BGSB22-(0.0-0.5)-161122-S	6020A	BARIUM	METALS	140	J-	0.0156	50.9		0.0796	**93**
BGSB22-(0.0-0.5)-161122-S	6020A	BERYLLIUM	METALS	0.43	J	0.00792	0.201		0.0498	**73**
BGSB22-(0.0-0.5)-161122-S	6020A	BORON	METALS	3.01		0.337	1.69		1.39	**56**
BGSB22-(0.0-0.5)-161122-S	6020A	CADMIUM	METALS	0.294		0.0137	0.204		0.0498	36
BGSB22-(0.0-0.5)-161122-S	6020A	CHROMIUM	METALS	7.5		0.0551	4.54		0.0896	49
BGSB22-(0.0-0.5)-161122-S	6020A	COBALT	METALS	7.81		0.00264	1.91		0.0697	**121**
BGSB22-(0.0-0.5)-161122-S	6020A	COPPER	METALS	10.1		0.055	6.67		0.0995	41
BGSB22-(0.0-0.5)-161122-S	6020A	LEAD	METALS	67.5		0.00961	39.1		0.0498	**53**
BGSB22-(0.0-0.5)-161122-S	6020A	MANGANESE	METALS	404	J-	0.0375	76.9		0.0995	**136**
BGSB22-(0.0-0.5)-161122-S	7471B	MERCURY	METALS	0.066		0.00804	0.0601		0.000527	9
BGSB22-(0.0-0.5)-161122-S	6020A	NICKEL	METALS	6.57		0.0411	3.61		0.0896	**58**
BGSB22-(0.0-0.5)-161122-S	6020A	SELENIUM	METALS	0.512		0.0467	0.217		0.179	**81**
BGSB22-(0.0-0.5)-161122-S	6020A	SILVER	METALS	0.0592		0.00866	<0.0796		0.0796	NA
BGSB22-(0.0-0.5)-161122-S	6020A	THALLIUM	METALS	0.0623		0.00275	<0.0697		0.0697	NA
BGSB22-(0.0-0.5)-161122-S	6020A	VANADIUM	METALS	17.9		0.0739	8.26		0.229	**74**
BGSB22-(0.0-0.5)-161122-S	6020A	ZINC	METALS	110	J-	0.204	82.8		0.249	28

Table A-2 Data Comparison Summary, November 2016

Sample Location ID	Method	Analyte	Parameter	EA Results			PRP Results			RPD[2]
				Result (mg/kg)	Qualifier	MDL (mg/kg)	Result mg/kg	Qualifier[1]	MDL (mg/kg)	
BGSB22-(1-2)-161122-S	8270D_LL	1,1'-BIPHENYL	SEMI-VOLATILE	ND		0.00366	<0.0021		0.0021	NA
BGSB22-(1-2)-161122-S	8270D_LL	1,2,4,5-TETRACHLOROBENZENE	SEMI-VOLATILE	ND		0.00311	<0.0012		0.0012	NA
BGSB22-(1-2)-161122-S	8270D_LL	1,4-DIOXANE	SEMI-VOLATILE	ND		0.0047	<0.0027		0.0027	NA
BGSB22-(1-2)-161122-S	8270D_LL	1-METHYLNAPHTHALENE	SEMI-VOLATILE	ND		0.000875	<0.0018		0.0018	NA
BGSB22-(1-2)-161122-S	8270D_LL	2,2'-OXYBIS[1-CHLOROPROPANE]	SEMI-VOLATILE	ND		0.000885	NR		NR	NA
BGSB22-(1-2)-161122-S	8270D_LL	2,3,4,6-TETRACHLOROPHENOL	SEMI-VOLATILE	ND		0.00264	<0.0035		0.0035	NA
BGSB22-(1-2)-161122-S	8270D_LL	2,4,5-TRICHLOROPHENOL	SEMI-VOLATILE	ND		0.00438	<0.0031		0.0031	NA
BGSB22-(1-2)-161122-S	8270D_LL	2,4,6-TRICHLOROPHENOL	SEMI-VOLATILE	ND		0.00614	<0.0021		0.0021	NA
BGSB22-(1-2)-161122-S	8270D_LL	2,4-DICHLOROPHENOL	SEMI-VOLATILE	ND		0.000823	<0.0016		0.0016	NA
BGSB22-(1-2)-161122-S	8270D_LL	2,4-DIMETHYLPHENOL	SEMI-VOLATILE	ND		0.00641	<0.0040		0.0040	NA
BGSB22-(1-2)-161122-S	8270D_LL	2,4-DINITROPHENOL	SEMI-VOLATILE	ND		0.0488	<0.0055		0.0055	NA
BGSB22-(1-2)-161122-S	8270D_LL	2,4-DINITROTOLUENE	SEMI-VOLATILE	ND		0.00331	<0.0011		0.0011	NA
BGSB22-(1-2)-161122-S	8270D_LL	2,6-DINITROTOLUENE	SEMI-VOLATILE	ND		0.00423	<0.0040		0.0040	NA
BGSB22-(1-2)-161122-S	8270D_LL	2-CHLORONAPHTHALENE	SEMI-VOLATILE	ND		0.000856	<0.0016		0.0016	NA
BGSB22-(1-2)-161122-S	8270D_LL	2-CHLOROPHENOL	SEMI-VOLATILE	ND		0.00335	<0.0016		0.0016	NA
BGSB22-(1-2)-161122-S	8270D_LL	2-METHYLNAPHTHALENE	SEMI-VOLATILE	ND		0.000737	<0.00061		0.00061	NA
BGSB22-(1-2)-161122-S	8270D_LL	2-METHYLPHENOL	SEMI-VOLATILE	ND		0.00287	<0.0013		0.0013	NA
BGSB22-(1-2)-161122-S	8270D_LL	2-NITROANILINE	SEMI-VOLATILE	ND		0.0184	<0.0023		0.0023	NA
BGSB22-(1-2)-161122-S	8270D_LL	2-NITROPHENOL	SEMI-VOLATILE	ND		0.00452	<0.0031		0.0031	NA
BGSB22-(1-2)-161122-S	8270D_LL	3,3'-DICHLOROBENZIDINE	SEMI-VOLATILE	ND		0.00434	<0.0031		0.0031	NA
BGSB22-(1-2)-161122-S	8270D_LL	3-NITROANILINE	SEMI-VOLATILE	ND		0.0169	<0.0023		0.0023	NA
BGSB22-(1-2)-161122-S	8270D_LL	4,6-DINITRO-2-METHYLPHENOL	SEMI-VOLATILE	ND		0.0165	<0.0026		0.0026	NA
BGSB22-(1-2)-161122-S	8270D_LL	4-BROMOPHENYL PHENYL ETHER	SEMI-VOLATILE	ND		0.00357	<0.0020		0.0020	NA
BGSB22-(1-2)-161122-S	8270D_LL	4-CHLORO-3-METHYLPHENOL	SEMI-VOLATILE	ND		0.00378	<0.00086		0.00086	NA
BGSB22-(1-2)-161122-S	8270D_LL	4-CHLOROPHENYL PHENYL ETHER	SEMI-VOLATILE	ND		0.00456	<0.0018		0.0018	NA
BGSB22-(1-2)-161122-S	8270D_LL	4-NITROANILINE	SEMI-VOLATILE	ND		0.0166	<0.0027		0.0027	NA
BGSB22-(1-2)-161122-S	8270D_LL	4-NITROPHENOL	SEMI-VOLATILE	ND		0.015	<0.0023		0.0023	NA
BGSB22-(1-2)-161122-S	8270D_LL	ACENAPHTHENE	SEMI-VOLATILE	ND		0.000788	<0.00061		0.00061	NA
BGSB22-(1-2)-161122-S	8270D_LL	ACENAPHTHYLENE	SEMI-VOLATILE	ND		0.000939	<0.0012		0.0012	NA
BGSB22-(1-2)-161122-S	8270D_LL	ACETOPHENONE	SEMI-VOLATILE	ND		0.00337	<0.00098		0.00098	NA
BGSB22-(1-2)-161122-S	8270D_LL	ANTHRACENE	SEMI-VOLATILE	ND		0.000802	<0.00061		0.00061	NA
BGSB22-(1-2)-161122-S	8270D_LL	ATRAZINE	SEMI-VOLATILE	ND		0.00399	<0.0024		0.0024	NA
BGSB22-(1-2)-161122-S	8270D_LL	BENZALDEHYDE	SEMI-VOLATILE	ND	UJ	0.00615	<0.0015	JL	0.0015	NA
BGSB22-(1-2)-161122-S	8270D_LL	BENZO[A]ANTHRACENE	SEMI-VOLATILE	ND		0.00103	<0.0020		0.0020	NA
BGSB22-(1-2)-161122-S	8270D_LL	BENZO[A]PYRENE	SEMI-VOLATILE	ND		0.000821	<0.0012		0.0012	NA
BGSB22-(1-2)-161122-S	8270D_LL	BENZO[B]FLUORANTHENE	SEMI-VOLATILE	ND		0.00129	<0.0015		0.0015	NA

Table A-2 Data Comparison Summary, November 2016

Sample Location ID	Method	Analyte	Parameter	EA Results			PRP Results			RPD[2]
				Result (mg/kg)	Qualifier	MDL (mg/kg)	Result mg/kg	Qualifier[1]	MDL (mg/kg)	
BGSB22-(1-2)-161122-S	8270D_LL	BENZO[G,H,I]PERYLENE	SEMI-VOLATILE	ND		0.000816	<0.00086		0.00086	NA
BGSB22-(1-2)-161122-S	8270D_LL	BENZO[K]FLUORANTHENE	SEMI-VOLATILE	ND		0.00166	<0.0011		0.0011	NA
BGSB22-(1-2)-161122-S	8270D_LL	BIS(2-CHLOROETHOXY)METHANE	SEMI-VOLATILE	ND		0.0027	<0.0011		0.0011	NA
BGSB22-(1-2)-161122-S	8270D_LL	BIS(2-CHLOROETHYL)ETHER	SEMI-VOLATILE	ND		0.0011	<0.0013		0.0013	NA
BGSB22-(1-2)-161122-S	8270D_LL	Bis(2-chloroisopropyl)ether	SEMI-VOLATILE	NR		NR	<0.0017		0.0017	NA
BGSB22-(1-2)-161122-S	8270D_LL	BIS(2-ETHYLHEXYL) PHTHALATE	SEMI-VOLATILE	ND		0.00663	<0.0021		0.0021	NA
BGSB22-(1-2)-161122-S	8270D_LL	BUTYL BENZYL PHTHALATE	SEMI-VOLATILE	ND		0.0056	<0.0016		0.0016	NA
BGSB22-(1-2)-161122-S	8270D_LL	CAPROLACTAM	SEMI-VOLATILE	ND		0.031	<0.0015		0.0015	NA
BGSB22-(1-2)-161122-S	8270D_LL	CARBAZOLE	SEMI-VOLATILE	ND		0.000756	<0.0015		0.0015	NA
BGSB22-(1-2)-161122-S	8270D_LL	CHRYSENE	SEMI-VOLATILE	ND		0.000976	<0.00098		0.00098	NA
BGSB22-(1-2)-161122-S	8270D_LL	DIBENZ(A,H)ANTHRACENE	SEMI-VOLATILE	ND		0.000912	<0.0020		0.0020	NA
BGSB22-(1-2)-161122-S	8270D_LL	DIBENZOFURAN	SEMI-VOLATILE	ND		0.00403	<0.00086		0.00086	NA
BGSB22-(1-2)-161122-S	8270D_LL	DIETHYL PHTHALATE	SEMI-VOLATILE	ND		0.00448	<0.0012		0.0012	NA
BGSB22-(1-2)-161122-S	8270D_LL	DIMETHYL PHTHALATE	SEMI-VOLATILE	ND		0.00447	<0.00098		0.00098	NA
BGSB22-(1-2)-161122-S	8270D_LL	DI-N-BUTYL PHTHALATE	SEMI-VOLATILE	ND		0.00514	<0.0015		0.0015	NA
BGSB22-(1-2)-161122-S	8270D_LL	DI-N-OCTYL PHTHALATE	SEMI-VOLATILE	ND		0.00432	<0.0011		0.0011	NA
BGSB22-(1-2)-161122-S	8270D_LL	FLUORANTHENE	SEMI-VOLATILE	ND		0.000877	<0.0013		0.0013	NA
BGSB22-(1-2)-161122-S	8270D_LL	FLUORENE	SEMI-VOLATILE	ND		0.00108	<0.0013		0.0013	NA
BGSB22-(1-2)-161122-S	8270D_LL	HEXACHLOROBENZENE	SEMI-VOLATILE	ND		0.000874	<0.0011		0.0011	NA
BGSB22-(1-2)-161122-S	8270D_LL	HEXACHLOROBUTADIENE	SEMI-VOLATILE	ND		0.000918	<0.0015		0.0015	NA
BGSB22-(1-2)-161122-S	8270D_LL	HEXACHLOROCYCLOPENTADIENE	SEMI-VOLATILE	ND		0.00442	<0.00098		0.00098	NA
BGSB22-(1-2)-161122-S	8270D_LL	HEXACHLOROETHANE	SEMI-VOLATILE	ND	UJ	0.00295	<0.0018		0.0018	NA
BGSB22-(1-2)-161122-S	8270D_LL	INDENO[1,2,3-CD]PYRENE	SEMI-VOLATILE	ND		0.000845	<0.00098		0.00098	NA
BGSB22-(1-2)-161122-S	8270D_LL	ISOPHORONE	SEMI-VOLATILE	ND		0.00309	<0.00098		0.00098	NA
BGSB22-(1-2)-161122-S	8270D_LL	METHYLPHENOL, 3 & 4	SEMI-VOLATILE	ND		0.00401	<0.0012		0.0012	NA
							<0.0012		0.0012	NA
BGSB22-(1-2)-161122-S	8270D_LL	NAPHTHALENE	SEMI-VOLATILE	ND		0.000707	<0.00073		0.00073	NA
BGSB22-(1-2)-161122-S	8270D_LL	NITROBENZENE	SEMI-VOLATILE	ND		0.00341	<0.0011		0.0011	NA
BGSB22-(1-2)-161122-S	8270D_LL	N-NITROSODI-N-PROPYLAMINE	SEMI-VOLATILE	ND		0.000962	<0.0013		0.0013	NA
BGSB22-(1-2)-161122-S	8270D_LL	N-NITROSODIPHENYLAMINE	SEMI-VOLATILE	ND		0.0038	<0.00086		0.00086	NA
BGSB22-(1-2)-161122-S	8270D_LL	PENTACHLOROPHENOL	SEMI-VOLATILE	ND		0.00367	<0.0040		0.0040	NA
BGSB22-(1-2)-161122-S	8270D_LL	PHENANTHRENE	SEMI-VOLATILE	ND		0.0013	<0.0018		0.0018	NA
BGSB22-(1-2)-161122-S	8270D_LL	PHENOL	SEMI-VOLATILE	ND		0.000969	<0.0013		0.0013	NA
BGSB22-(1-2)-161122-S	8270D_LL	PYRENE	SEMI-VOLATILE	ND		0.000829	<0.00073		0.00073	NA
BGSB22-(1-2)-161122-S	8081B_LL	4,4'-DDD	PESTICIDES_ORGP	0.000512		5.22E-05	<0.00061		0.00061	NA
BGSB22-(1-2)-161122-S	8081B_LL	4,4'-DDE	PESTICIDES_ORGP	ND		0.000163	<0.00061		0.00061	NA

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				Result (mg/kg)	Qualifier	MDL (mg/kg)	Result mg/kg	Qualifier[1]	MDL (mg/kg)	
BGSB22-(1-2)-161122-S	8081B_LL	4,4'-DDT	PESTICIDES_ORGP	ND	UJ	5.22E-05	<0.00061		0.00061	NA
BGSB22-(1-2)-161122-S	8081B_LL	ALDRIN	PESTICIDES_ORGP	ND		5.41E-05	<0.00037		0.00037	NA
BGSB22-(1-2)-161122-S	8081B_LL	ALPHA-BHC	PESTICIDES_ORGP	ND		0.000151	<0.00037		0.00037	NA
BGSB22-(1-2)-161122-S	8081B_LL	BETA-BHC	PESTICIDES_ORGP	ND		0.000115	<0.00037		0.00037	NA
BGSB22-(1-2)-161122-S	8081B_LL	CIS-CHLORDANE	PESTICIDES_ORGP	ND		8.24E-05	<0.00025		0.00025	NA
BGSB22-(1-2)-161122-S	8081B_LL	DELTA-BHC	PESTICIDES_ORGP	ND	UJ	0.000183	<0.00025	JL	0.00025	NA
BGSB22-(1-2)-161122-S	8081B_LL	DIELDRIN	PESTICIDES_ORGP	ND		4.86E-05	<0.00061		0.00061	NA
BGSB22-(1-2)-161122-S	8081B_LL	ENDOSULFAN I	PESTICIDES_ORGP	ND		3.26E-05	<0.00037		0.00037	NA
BGSB22-(1-2)-161122-S	8081B_LL	ENDOSULFAN II	PESTICIDES_ORGP	ND		0.000157	<0.00074		0.00074	NA
BGSB22-(1-2)-161122-S	8081B_LL	ENDOSULFAN SULFATE	PESTICIDES_ORGP	ND		6.52E-05	<0.00074		0.00074	NA
BGSB22-(1-2)-161122-S	8081B_LL	ENDRIN	PESTICIDES_ORGP	ND		0.000149	<0.00074		0.00074	NA
BGSB22-(1-2)-161122-S	8081B_LL	ENDRIN ALDEHYDE	PESTICIDES_ORGP	ND		0.000151	<0.00074		0.00074	NA
BGSB22-(1-2)-161122-S	8081B_LL	ENDRIN KETONE	PESTICIDES_ORGP	ND		0.000171	<0.00074		0.00074	NA
BGSB22-(1-2)-161122-S	8081B_LL	GAMMA-BHC (LINDANE)	PESTICIDES_ORGP	ND		0.000106	<0.00025		0.00025	NA
BGSB22-(1-2)-161122-S	8081B_LL	HEPTACHLOR	PESTICIDES_ORGP	ND		4.43E-05	<0.00037		0.00037	NA
BGSB22-(1-2)-161122-S	8081B_LL	HEPTACHLOR EPOXIDE	PESTICIDES_ORGP	ND		6.15E-05	<0.00037		0.00037	NA
BGSB22-(1-2)-161122-S	8081B_LL	METHOXYCHLOR	PESTICIDES_ORGP	ND	UJ	0.000149	<0.0042		0.0042	NA
BGSB22-(1-2)-161122-S	8081B_LL	TOXAPHENE	PESTICIDES_ORGP	ND		0.0169	<0.0059		0.0059	NA
BGSB22-(1-2)-161122-S	8081B_LL	TRANS-CHLORDANE	PESTICIDES_ORGP	ND		0.00004	<0.00025		0.00025	NA
BGSB22-(1-2)-161122-S	8151A	2,4,5-T	HERBICIDES	ND	U	0.00312	<0.0017		0.0017	NA
BGSB22-(1-2)-161122-S	8151A	2,4-D	HERBICIDES	ND	U	0.00681	<0.00086		0.00086	NA
BGSB22-(1-2)-161122-S	8151A	2,4-DB	HERBICIDES	ND	U	0.00761	<0.0011		0.0011	NA
BGSB22-(1-2)-161122-S	8151A	DALAPON	HERBICIDES	ND		0.00882	<0.0015		0.0015	NA
BGSB22-(1-2)-161122-S	8151A	DICAMBA	HERBICIDES	ND		0.00596	<0.0016		0.0016	NA
BGSB22-(1-2)-161122-S	8151A	DICHLORPROP	HERBICIDES	ND		0.0118	<0.0020		0.0020	NA
BGSB22-(1-2)-161122-S	8151A	DINOSEB	HERBICIDES	ND	U	0.00566	<0.0017		0.0017	NA
BGSB22-(1-2)-161122-S	8151A	MCPA	HERBICIDES	ND	U	2.05	<0.12		0.12	NA
BGSB22-(1-2)-161122-S	8151A	MCPP	HERBICIDES	ND	U	2	<0.20		0.20	NA
BGSB22-(1-2)-161122-S	8151A	SILVEX (2,4,5-TP)	HERBICIDES	ND	U	0.00261	<0.0021		0.0021	NA
BGSB22-(1-2)-161122-S	6020A	ALUMINUM	METALS	24800		0.614	17000		46.8	37
BGSB22-(1-2)-161122-S	6020A	ANTIMONY	METALS	0.419		0.0306	<0.234		0.234	NA
BGSB22-(1-2)-161122-S	6020A	ARSENIC	METALS	11.2		0.0153	2.23		0.117	**134**
BGSB22-(1-2)-161122-S	6020A	BARIUM	METALS	486		0.0158	224		18.7	**74**
BGSB22-(1-2)-161122-S	6020A	BERYLLIUM	METALS	2.48		0.00799	1.37		0.0585	**58**
BGSB22-(1-2)-161122-S	6020A	BORON	METALS	7.36		0.339	4.73		1.64	44
BGSB22-(1-2)-161122-S	6020A	CADMIUM	METALS	0.425		0.0138	<0.0585		0.0585	NA

Table A-2 Data Comparison Summary, November 2016

Sample Location ID	Method	Analyte	Parameter	EA Results			PRP Results			RPD[2]
				Result (mg/kg)	Qualifier	MDL (mg/kg)	Result mg/kg	Qualifier[1]	MDL (mg/kg)	
BGSB22-(1-2)-161122-S	6020A	CHROMIUM	METALS	26.4		0.0556	17.8		0.105	39
BGSB22-(1-2)-161122-S	6020A	COBALT	METALS	97.5		0.00266	8.08		0.0819	**169**
BGSB22-(1-2)-161122-S	6020A	COPPER	METALS	18.5		0.0555	7.89		0.117	**80**
BGSB22-(1-2)-161122-S	6020A	LEAD	METALS	107		0.00969	13.6		0.0585	**155**
BGSB22-(1-2)-161122-S	6020A	MANGANESE	METALS	7470		0.378	225		23.4	**188**
BGSB22-(1-2)-161122-S	7471B	MERCURY	METALS	0.00927		0.00906	0.00967		0.000626	4
BGSB22-(1-2)-161122-S	6020A	NICKEL	METALS	95.6		0.0414	14.3		0.105	**148**
BGSB22-(1-2)-161122-S	6020A	SELENIUM	METALS	2.6		0.0471	0.755		0.211	**110**
BGSB22-(1-2)-161122-S	6020A	SILVER	METALS	0.0529		0.00873	<0.0936		0.0936	NA
BGSB22-(1-2)-161122-S	6020A	THALLIUM	METALS	0.325		0.00277	0.141	U	0.0819	**79**
BGSB22-(1-2)-161122-S	6020A	VANADIUM	METALS	99.6		0.0745	37.8		0.269	**90**
BGSB22-(1-2)-161122-S	6020A	ZINC	METALS	37.1		0.206	24.7		0.293	40

NOTES:

RPDs exceeding the 50 percent criterion are in bold type.

[1] PRP qualifier definitions are unknown

[2] RPD only calculated for analytes detected above the MDL by both the EA and PRP laboratories

U = Value not detected above the MDL

J = Estimated value

MDL = Method Detection Limit

NA = Not applicable

NR = Not reported

RPD = Relative percent difference

mg/kg = miligram per kilogram

Appendix B

Laboratory Analytical Report
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Appendix C

Data Validation Report

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DATA VALIDATION REPORT
U.S. Oil Recovery Superfund Site
Remedial Investigation/Feasibility Study Oversight
November 2016 Sampling Event

Site Name:	U.S. Oil Recovery Superfund Site Pasadena, Harris County, Texas
Laboratory:	TestAmerica Laboratories, Inc. (TestAmerica), Pittsburgh, PA
QA Reviewer:	Adrienne Fung, Engineer EA Engineering, Science, and Technology, Inc., PBC (EA)
Sample Delivery Group Nos.:	180-61122-1
Sample Identification:	See Table 1
Matrix:	Soil
QC Criteria Reviewed:	Section 2.0
Laboratory Report Date:	8 December 2016

1.0 INTRODUCTION

Four background soil samples were collected on 22 November 2016 in support of the U.S. Oil Recovery Superfund Site Remedial Investigation/Feasibility Study (RI/FS) Oversight Task Order. The samples were shipped via overnight courier to TestAmerica Laboratories, Inc. (TestAmerica) in Pittsburgh, Pennsylvania, for analysis. The respective analytical parameters and testing methods for the four soil samples are provided below.

- Semivolatile organic compounds (SVOCs)—U.S. Environmental Protection Agency (EPA) Test Methods for Evaluating Solid Waste, Physical/Chemical Methods SW-846 (SW) 8270D low-level (LL) (EPA 2014)
- Organochlorine pesticides—EPA SW8081B LL (EPA 2007a)
- Chlorinated herbicides—EPA SW8151A (EPA 1996)
- Metals (project-specific list)—EPA SW6020A (EPA 1998)
- Mercury—EPA SW7471B (EPA 2007b)

ED_004012_00007786-00063

- Percent moisture and solids—Standard Methods for the Examination of Water and Wastewater (SM) 2540G.

The analytical data were validated in accordance with requirements specified in the following documents:

- *EPA National Functional Guidelines for Inorganic Superfund Methods Data Review, 540-R-2016-001* (EPA 2016a)

- *EPA National Functional Guidelines for Superfund Organic Methods Data Review, 540-R-2016-002* (EPA 2016b)

- *Sampling and Analysis Plan (SAP), Remedial Investigation/Feasibility Study Oversight, U.S. Oil Recovery Superfund Site, Area of Investigation 1, Pasadena, Harris County, Texas* (EA 2016).

Section 2.0 of this validation report identifies the criteria reviewed for the analytical method as appropriate based on EPA guidelines. Section 3.0 contains the definitions of the qualifiers to be applied to the data results based on the validation process. Section 4.0 provides an assessment of the overall data quality, and Section 5.0 provides the references to the guidelines and documents used in performing the review of the data set.

Table 1, Sample Cross-Reference, provides a list of the field sample identification (ID), laboratory sample delivery group (SDG) and sample ID, sample matrix, sample collection date, and analytical parameters. No field quality control (QC) samples were collected in association with the background sampling.

2.0 DATA VALIDATION CRITERIA

The criteria listed below were evaluated as part of the validation process, as applicable to the analytical method.

- Deliverables
- Chain of custody and sample receipt
- Holding times
- Instrument performance checks
- Calibration (initial and continuing)
- Blank detections
- Surrogate recoveries
- Internal standards
- Laboratory control samples (LCS)
- Matrix spike (MS), matrix spike duplicate (MSD), and laboratory duplicate samples
- Post-digestion spike samples
- Interference check samples (ICS)

- Serial dilutions
- Sample quantitation and reported detection limits
- Target compound identification
- Overall assessment of data.

TABLE 1: SAMPLE CROSS-REFERENCE TABLE

Field Sample ID	Laboratory Sample ID	Matrix	Date Collected	Analysis Parameter (Method)
BGSB22-(0.0-0.5)-161122-S	180-61122-1	Soil	22 November 2016	SVOCs (SW8270D LL), organochlorine pesticides (SW8081B LL), herbicides (SW8151A), metals (SW6020A/7471B), and percent moisture (SM2540G)
BGSB22-(1-2)-161122-S	180-61122-2	Soil	22 November 2016	Same as above
BGSB10-(0.0-0.5)-161122-S	180-61122-3	Soil	22 November 2016	Same as above
BGSB10-(1-2)-161122-S	180-61122-4	Soil	22 November 2016	Same as above

NOTES:
SVOCs = Semivolatile organic compounds

3.0 GLOSSARY OF DATA QUALIFIERS

The following definitions provide a brief explanation for the data qualifiers that may be applied to the data during the data review process. The definitions are consistent with EPA guidance (2016a, 2016b).

No qualifier — Indicates that the data are acceptable both qualitatively and quantitatively.

U — The analyte was analyzed for, but was not detected above the level of the reported sample quantitation limit.

J — The result is an estimated concentration. The associated numerical value is the approximate concentration of the analyte in the sample. The data are valid for project use to achieve project data quality objectives (DQOs).

J+ — The result is an estimated concentration, but the result may be biased high. The data are valid for project use to achieve project DQOs.

J- — The result is an estimated concentration, but the result may be biased low. The data are valid for project use to achieve project DQOs.

UJ — The analyte was analyzed for, but was not detected. The reported quantitation limit is approximate. The data are valid for project use to achieve project DQOs.

R The sample result is not usable to achieve project DQOs based on certain QC criteria outside of acceptance limits. The analyte may or may not be present in the sample.

4.0 DATA ASSESSMENT

The analytical data in the SDG (180-61122-1) were reviewed for the criteria listed in Section 2.0. The review included those elements specified for a Stage 4 validation, which include sample results forms, chain of custody, laboratory receipt checklist, method QC forms, instrument QC forms, instrument and preparation logs, instrument quantitation forms (raw data), instrument chromatograms, and spectra. A discussion of the data is presented in this section.

4.1 Method and Project Specific Analytical Service Request

Soil samples were collected and analyzed for SVOCs, organochlorine pesticides, herbicides, project-specific list of metals, mercury, and percent moisture for dry-weight data reporting.

4.2 Deliverables

The data package and electronic deliverable for the SDG are complete.

4.3 Chain of Custody and Sample Receipt

The samples were received by TestAmerica under appropriate chain of custody, in good condition, and the cooler temperature was at 2.5 degrees centigrade.

4.4 Holding Times

The samples were prepared and analyzed within method-specific holding times.

4.5 Instrument Performance Check

Instrument performance checks are performed to ensure mass resolution, identification, and sensitivity for gas chromatography (GC) and gas chromatography/mass spectroscopy (GC/MS) methods. The instrument performance check criteria was within method control criteria.

4.6 Calibration (Initial and Continuing)

The initial and continuing calibrations for the target analytes are within method-specified QC limits with the exception of herbicide analysis (SW8151A). The continuing calibration verification percent differences for the primary and/or secondary columns are above QC limits for herbicide analytes 2,4,5-T, MCPA, MCPP, and dinoseb. Because the indicated bias is high and results of the associated samples are non-detect, no data qualification has been applied on the basis of the calibration verification results.

4.7 Blank Detections

Laboratory method and calibration blanks were prepared and analyzed along with project samples. Results are within method QC criteria with no exceptions.

4.8 Surrogate Recoveries

The surrogate percent recoveries are within method QC criteria with the following exceptions:

- SVOCs—the percent recoveries for 2-fluorophenol are below the method control limits for samples BGSB22-(0.0-0.5)-161122-S, BGSB10-(0.0-0.5)-161122-S, and BGSB10-(1-2)-161122-S. Since the percent recoveries for the other five surrogates are within control limits, no data qualification is required based on these single outliers.

- Pesticides—the percent recoveries for decachlorobiphenyl and/or tetrachloro-m-xylene are outside the method control limits for samples BGSB10-(0.0-0.5)-161122-S and BGSB10-(1-2)-161122-S as a result of sample dilution. No qualification of data is required.

- Herbicides—the percent recoveries for 2,4-dichlorophenylacetic acid are outside the method control limits for samples BGSB22-(0.0-0.5)-161122-S, BGSB22-(1-2)-161122-S, BGSB10-(0.0-0.5)-161122-S, and BGSB10-(1-2)-161122-S as a result of sample dilution. No qualification of data is required.

4.9 Internal Standards

Internal standards were prepared and analyzed in accordance with the analytical methods. Internal standard areas and retention times are within method control limits for applicable methods.

4.10 Laboratory Control Samples

LCSs were prepared and analyzed as required by the analytical method. The LCS percent recoveries are within method control limits for target analytes, with the following exceptions:

- SVOCs—the LCS percent recoveries are below method control limits for benzaldehyde and hexachloroethane. The benzaldehyde result for sample BGSB22-(0.0-0.5)-161122-S was already J-qualified because the result is an estimated value below the reporting limit. A J- qualifier was applied to reflect potential low bias of the result. The other project sample results for benzaldehyde, as well as the results for hexachloroethane, are non-detect and have been flagged as estimated with the UJ- qualifier due to evidence of potential low bias.

- Pesticides—the LCS percent recoveries are below method control limits for delta-BHC, 4,4'-DDT, and methoxychlor. The corresponding project sample results are UJ- and J- qualified, signifying estimated non-detect and detect values due to evidence of potential low bias.

- Herbicides—the LCS percent recoveries are above method control limits, but within project-specified QC limits for 2,4,5-T, 2,4-D, silvex (2,4,5-TP), and MCPA. No data qualification is required based on the elevated recoveries.

- Herbicides—the LCS percent recoveries are above project-specified QC limits for 2,4-DB, dinoseb, and MCPP. The associated project sample results are non-detect and, therefore, no data qualification is required based on the potential high bias.

4.11 Matrix Spike, Matrix Spike Duplicate, and Laboratory Duplicate Samples

MS, MSD, and laboratory duplicate samples were prepared and analyzed according to the analytical method and project requirements. The percent recoveries and relative percent difference (RPD) of the QC samples are within project-specified QC limits, with the following exceptions:

- SVOCs—the percent recoveries are below project-specified QC limits for the MS and/or MSD samples prepared with sample BGSB22-(0.0-0.5)-161122-S for SVOC analytes 1,4-dioxane, 2,4-dimethylphenol, 2,4-dinitrophenol, atrazine, benzaldehyde, benzo(b)fluoranthene, benzo(k)fluoranthene, bis(2-chloroethoxy)methane, bis(2-chloroethyl)ether, hexachlorobutadiene, hexachlorocyclopentadiene, hexachloroethane, naphthalene, nitrobenzene, phenol, pyrene, and 3,3'-dichlorobenzidine. The results for these analytes in the associated sample have been flagged UJ as estimated non-detect and J- for estimated detect values.

- SVOCs—the percent recoveries for caprolactam are below 10 percent for the MS and MSD samples prepared with sample BGSB22-(0.0-0.5)-161122-S. The caprolactam result for this sample has been R qualified signifying rejected and not usable data.

- Metals—the percent recoveries are outside project-specified QC limits for the MS and/or MSD prepared with sample BGSB22-(0.0-0.5)-161122-S for aluminum, manganese, and lead. The native analyte concentrations in the sample are greater than four times the spike amount; therefore, no data qualification has been performed on the basis of the MS and/or MSD results.

- Metals—the percent recoveries are below project-specified QC limits for the MS and/or MSD prepared with sample BGSB22-(0.0-0.5)-161122-S for arsenic, barium, and zinc. The results for these analytes in the associated sample are J- qualified due to low bias.

4.12 Post-Digestion Spike Samples

A post-digestion spike sample was prepared with sample BGSB22-(0.0-0.5)-161122-S. Percent recoveries are within method-specified control limits with the exception of manganese, which was reported

below method-specified QC limits. The result for manganese for BGSB22-(0.0-0.5)-161122-S has been qualified as estimated with the J- qualifier due to evidence of low bias.

4.13 Interference Check Samples

Inductively coupled plasma (ICP) ICSs were prepared and analyzed according to the analytical method for metals. Percent recoveries are within method-specified control limits.

4.14 Serial Dilutions

ICP serial dilution was prepared with sample BGSB22-(0.0-0.5)-161122-S, and the percent differences are within method-specified control limits with the exception of beryllium. The result for beryllium for sample BGSB22-(0.0-0.5)-161122-S has been qualified as estimated with the J- qualifier due to the serial dilution result.

4.15 Sample Quantitation and Reported Detection Limits

The samples in SDG 180-61122-1 were reported with appropriate sensitivity. Results are reported on a dry-weight basis, as applicable. The samples were analyzed without dilution unless required as a result of elevated target analyte concentrations or the nature of the sample matrix. Sample dilutions resulted in elevated reporting limits for specific samples and analytes; however, for high level samples there is no impact on data quality.

Samples requiring dilutions are listed below.

- Sample BGSB10-(0.0-0.5)-161122-S (10-fold dilutions for SVOCs, 5-fold dilutions for organochlorine pesticides, and 20-fold dilutions for herbicides)
- Sample BGSB10-(1-2)-161122-S (5-fold dilutions for SVOCs, 5-fold dilutions for organochlorine pesticides, and 20-fold dilutions for herbicides)
- Sample BGSB22-(0.0-0.5)-161122-S (5-fold dilutions for organochlorine pesticides and 20-fold dilutions for herbicides)
- Sample BGSB22-(1-2)-161122-S (5-fold dilutions for organochlorine pesticides, 20-fold dilutions for herbicides, and 10-fold dilution for manganese).

4.16 Target Compound Identification

Target compound identification was performed for GC and GC/MS methods. Mass spectra criteria were within acceptance limits for the detected target analytes. Second column confirmation criteria were within acceptance limits for detected target analytes for GC methods, unless otherwise noted.

The RPDs between the primary and confirmation column results for pesticide analysis for the following samples are outside laboratory QC method criteria. The lower values have been reported and were flagged by the laboratory with "P." These results are flagged with J qualifiers.

- BGSB22-(0.0-0.5)-161122-S—4,4'-DDD, 4,4'-DDE, 4,4'-DDT, heptachlor, and heptachlor epoxide
- BGSB10-(0.0-0.5)-161122-S—cis-chlordane, dieldrin, and heptachlor epoxide
- BGSB10-(1-2)-161122-S—cis-chlordane and 4,4'-DDD.

4.17 Overall Assessment of Data

Appropriate data flags were used and defined in the analytical report. The allowable final data qualifiers for definitive data and the hierarchy of data qualifiers, listed in order of the most severe through the least severe, are *J+* or *J-*, *J*, *U*, and *UJ*. For data with multiple qualifiers, the hierarchy listed above has been implemented for applying the final validation qualifier to the data.

Project deliverables were reviewed for completeness and compliance in accordance with the SAP (EA 2016). Based on the data review, the completeness of deliverables is 100 percent. One SVOC data result is R qualified, signifying rejected or unusable data; caprolactam for sample BGSB22-(0.0-0.5)-161122-S. The analytical data achieve greater than the 90 percent data completeness objective and the project DQOs. The November 2016 sample data are usable and meet the objectives of the site RI/FS oversight.

5.0 REFERENCES

EA Engineering, Science, and Technology, Inc., PBC (EA). 2016. *Sampling and Analysis Plan, Remedial Investigation/Feasibility Study Oversight, U.S. Oil Recovery Superfund Site, Area of Investigation 1, Pasadena, Harris County, Texas.*

U.S. Environmental Protection Agency (EPA). 1996. *Method 8151A, Chlorinated Herbicides by GC Using Methylation or Pentafluorobenzylation Derivatization.* Revision 1. December.

-----. 1998. *Method 6020A, Inductively Coupled Plasma – Mass Spectrometry*. Revision 1. January.

-----. 2007a. *Method 8081B, Organochlorine Pesticides by Gas Chromatography*. Revision 2. February.

-----. 2007b. *Method 7471B, Mercury in Solid or Semisolid Waste (Manual Cold-Vapor Technique)*. Revision 2. February.

-----. 2014. *Method 8270D, Semivolatile Organic Compounds by Gas Chromatography/Mass Spectrometry*. Revision 5. July.

-----. 2016a. *National Functional Guidelines for Inorganic Superfund Methods Data Review*. EPA-540-R-2016-001. September.

-----. 2016b. *National Functional Guidelines for Superfund Organic Methods Data Review*. EPA-540-R-2016-002. September.

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TA Sample ID	Field Sample ID	Analytical Method	Analyte	CAS Number	Lab Qualifier	Data Qualifier	Qualification Comments
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW6020A	ARSENIC	7440-38-2	F1	J-	MS and/or MSD %R less than lower QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW6020A	BARIUM	7440-39-3	F1	J-	MS and/or MSD %R less than lower QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW6020A	BERYLLIUM	7440-41-7		J	Serial dilution %D less than lower QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW6020A	MANGANESE	7439-96-5		J-	Post-digestion spike %R less than lower QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW6020A	ZINC	7440-66-6	F1	J-	MS and/or MSD %R less than lower QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8081B	4,4'-DDD	72-54-8	P	J	Primary and secondary columns RPD outside QC limits
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8081B	4,4'-DDE	72-55-9	P	J	Primary and secondary columns RPD outside QC limits
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8081B	4,4'-DDT	50-29-3	P	J-	LCS %R less than lower QC limit; Primary and secondary columns RPD outside QC limits
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8081B	DELTA-BHC	319-86-8	U	UJ	LCS %R less than lower QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8081B	HEPTACHLOR	76-44-8	J P	J	Primary and secondary columns RPD outside QC limits
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8081B	HEPTACHLOR EPOXIDE	1024-57-3	P	J	Primary and secondary columns RPD outside QC limits
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8081B	METHOXYCHLOR	72-43-5	U	UJ	LCS %R less than lower QC limit
180-61122-2	BGSB22-(1-2)-161122-S	SW8081B	4,4'-DDT	50-29-3	U	UJ	LCS %R less than lower QC limit
180-61122-2	BGSB22-(1-2)-161122-S	SW8081B	DELTA-BHC	319-86-8	U	UJ	LCS %R less than lower QC limit
180-61122-2	BGSB22-(1-2)-161122-S	SW8081B	METHOXYCHLOR	72-43-5	U	UJ	LCS %R less than lower QC limit
180-61122-3	BGSB10-(0.0-0.5)-161122-S	SW8081B	4,4'-DDT	50-29-3	U	UJ	LCS %R less than lower QC limit
180-61122-3	BGSB10-(0.0-0.5)-161122-S	SW8081B	CIS-CHLORDANE	5103-71-9	P	J	Primary and secondary columns RPD outside QC limits
180-61122-3	BGSB10-(0.0-0.5)-161122-S	SW8081B	DELTA-BHC	319-86-8	U	UJ	LCS %R less than lower QC limit
180-61122-3	BGSB10-(0.0-0.5)-161122-S	SW8081B	DIELDRIN	60-57-1	P	J	Primary and secondary columns RPD outside QC limits
180-61122-3	BGSB10-(0.0-0.5)-161122-S	SW8081B	HEPTACHLOR EPOXIDE	1024-57-3	J P	J	Primary and secondary columns RPD outside QC limits
180-61122-3	BGSB10-(0.0-0.5)-161122-S	SW8081B	METHOXYCHLOR	72-43-5	U	UJ	LCS %R less than lower QC limit
180-61122-4	BGSB10-(1-2)-161122-S	SW8081B	4,4'-DDD	72-54-8	J P	J	Primary and secondary columns RPD outside QC limits
180-61122-4	BGSB10-(1-2)-161122-S	SW8081B	4,4'-DDT	50-29-3	U	UJ	LCS %R less than lower QC limit
180-61122-4	BGSB10-(1-2)-161122-S	SW8081B	BETA-BHC	319-85-7	U	UJ	LCS %R less than lower QC limit
180-61122-4	BGSB10-(1-2)-161122-S	SW8081B	CIS-CHLORDANE	5103-71-9	P	J	Primary and secondary columns RPD outside QC limits
180-61122-4	BGSB10-(1-2)-161122-S	SW8081B	METHOXYCHLOR	72-43-5	U	UJ	LCS %R less than lower QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8151A	2,4,5-T	93-76-5	U *	U	QC sample limits within project-specified QC limits
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8151A	2,4-D	94-75-7	U *	U	QC sample limits within project-specified QC limits
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8151A	2,4-DB	94-82-6	U *	U	LCS %R above upper QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8151A	DINOSEB	88-85-7	U *	U	LCS %R above upper QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8151A	MCPA	94-74-6	U *	U	QC sample limits within project-specified QC limits
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8151A	MCPP	93-65-2	U *	U	LCS %R above upper QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8151A	SILVEX (2,4,5-TP)	93-72-1	U *	U	QC sample limits within project-specified QC limits
180-61122-2	BGSB22-(1-2)-161122-S	SW8151A	2,4,5-T	93-76-5	U *	U	QC sample limits within project-specified QC limits
180-61122-2	BGSB22-(1-2)-161122-S	SW8151A	2,4-D	94-75-7	U *	U	QC sample limits within project-specified QC limits
180-61122-2	BGSB22-(1-2)-161122-S	SW8151A	2,4-DB	94-82-6	U *	U	LCS %R above upper QC limit
180-61122-2	BGSB22-(1-2)-161122-S	SW8151A	DINOSEB	88-85-7	U *	U	LCS %R above upper QC limit
180-61122-2	BGSB22-(1-2)-161122-S	SW8151A	MCPA	94-74-6	U *	U	QC sample limits within project-specified QC limits
180-61122-2	BGSB22-(1-2)-161122-S	SW8151A	MCPP	93-65-2	U *	U	LCS %R above upper QC limit
180-61122-2	BGSB22-(1-2)-161122-S	SW8151A	SILVEX (2,4,5-TP)	93-72-1	U *	U	QC sample limits within project-specified QC limits
180-61122-3	BGSB10-(0.0-0.5)-161122-S	SW8151A	2,4,5-T	93-76-5	U *	U	QC sample limits within project-specified QC limits
180-61122-3	BGSB10-(0.0-0.5)-161122-S	SW8151A	2,4-D	94-75-7	U *	U	QC sample limits within project-specified QC limits
180-61122-3	BGSB10-(0.0-0.5)-161122-S	SW8151A	2,4-DB	94-82-6	U *	U	LCS %R above upper QC limit
180-61122-3	BGSB10-(0.0-0.5)-161122-S	SW8151A	DINOSEB	88-85-7	U *	U	LCS %R above upper QC limit
180-61122-3	BGSB10-(0.0-0.5)-161122-S	SW8151A	MCPA	94-74-6	U *	U	QC sample limits within project-specified QC limits
180-61122-3	BGSB10-(0.0-0.5)-161122-S	SW8151A	MCPP	93-65-2	U *	U	LCS %R above upper QC limit
180-61122-3	BGSB10-(0.0-0.5)-161122-S	SW8151A	SILVEX (2,4,5-TP)	93-72-1	U *	U	QC sample limits within project-specified QC limits
180-61122-4	BGSB10-(1-2)-161122-S	SW8151A	2,4,5-T	93-76-5	U *	U	QC sample limits within project-specified QC limits
180-61122-4	BGSB10-(1-2)-161122-S	SW8151A	2,4-D	94-75-7	U *	U	QC sample limits within project-specified QC limits
180-61122-4	BGSB10-(1-2)-161122-S	SW8151A	2,4-DB	94-82-6	U *	U	LCS %R above upper QC limit

TA Sample ID	Field Sample ID	Analytical Method	Analyte	CAS Number	Lab Qualifier	Data Qualifier	Qualification Comments
180-61122-4	BGSB10-(1-2)-161122-S	SW8151A	DINOSEB	88-85-7	U *	U	LCS %R above upper QC limit
180-61122-4	BGSB10-(1-2)-161122-S	SW8151A	MCPA	94-74-6	U *	U	QC sample limits within project-specified QC limits
180-61122-4	BGSB10-(1-2)-161122-S	SW8151A	MCPP	93-65-2	U *	U	LCS %R above upper QC limit
180-61122-4	BGSB10-(1-2)-161122-S	SW8151A	SILVEX (2,4,5-TP)	93-72-1	U *	U	QC sample limits within project-specified QC limits
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8270D	1,4-DIOXANE	123-91-1	U	UJ	MS and/or MSD %R less than lower QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8270D	2,4-DIMETHYLPHENOL	105-67-9	U	UJ	MS and/or MSD %R less than lower QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8270D	2,4-DINITROPHENOL	51-28-5	U	UJ	MS and/or MSD %R less than lower QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8270D	3,3'-DICHLOROBENZIDINE	91-94-1	U F1	UJ	MS and/or MSD %R less than lower QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8270D	ATRAZINE	1912-24-9	U	UJ	MS and/or MSD %R less than lower QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8270D	BENZALDEHYDE	100-52-7	J	J-	LCS, MS and/or MSD %Rs less than lower QC limits
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8270D	BENZO[B]FLUORANTHENE	205-99-2		J-	MS and/or MSD %R less than lower QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8270D	BENZO[K]FLUORANTHENE	207-08-9		J-	MS and/or MSD %R less than lower QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8270D	BIS(2-CHLOROETHOXY)METHANE	111-91-1	U	UJ	MS and/or MSD %R less than lower QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8270D	BIS(2-CHLOROETHYL)ETHER	111-44-4	U	UJ	MS and/or MSD %R less than lower QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8270D	CAPROLACTAM	105-60-2	U F1	R	MS and/or MSD %R less than 10%R
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8270D	HEXACHLOROBUTADIENE	87-68-3	U	UJ	MS and/or MSD %R less than lower QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8270D	HEXACHLOROCYCLOPENTADIENE	77-47-4	U F1	UJ	MS and/or MSD %R less than lower QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8270D	HEXACHLOROETHANE	67-72-1	U	UJ	LCS, MS and/or MSD %Rs less than lower QC limits
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8270D	NAPHTHALENE	91-20-3	U	UJ	MS and/or MSD %R less than lower QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8270D	NITROBENZENE	98-95-3	U	UJ	MS and/or MSD %R less than lower QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8270D	PHENOL	108-95-2	U	UJ	MS and/or MSD %R less than lower QC limit
180-61122-1	BGSB22-(0.0-0.5)-161122-S	SW8270D	PYRENE	129-00-0		J-	MS and/or MSD %R less than lower QC limit
180-61122-2	BGSB22-(1-2)-161122-S	SW8270D	BENZALDEHYDE	100-52-7	U	UJ	LCS %R less than lower QC limit
180-61122-2	BGSB22-(1-2)-161122-S	SW8270D	HEXACHLOROETHANE	67-72-1	U	UJ	LCS %R less than lower QC limit
180-61122-3	BGSB10-(0.0-0.5)-161122-S	SW8270D	BENZALDEHYDE	100-52-7	U	UJ	LCS %R less than lower QC limit
180-61122-3	BGSB10-(0.0-0.5)-161122-S	SW8270D	HEXACHLOROETHANE	67-72-1	U	UJ	LCS %R less than lower QC limit
180-61122-4	BGSB10-(1-2)-161122-S	SW8270D	BENZALDEHYDE	100-52-7	U	UJ	LCS %R less than lower QC limit
180-61122-4	BGSB10-(1-2)-161122-S	SW8270D	HEXACHLOROETHANE	67-72-1	U	UJ	LCS %R less than lower QC limit

NOTES:
%R = Percent recovery
J = Estimated concentration
J- = Estimated concentration biased low
LCS = Laboratory control sample
MS = Matrix spike
MSD = Matrix spike duplicate
QC = Quality control
SW = SW-846 Test Methods for Evaluating Solid Waste, Third Edition and Updates
TA = TestAmerica Labortories, Inc.
R = Not usable
UJ = Not detected; quantitation limit is approximate