

Report Date:
15-Jan-18 14:17

Laboratory Report SC42525

Roux Associates, Inc.
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Attn: Amy Hoffmann

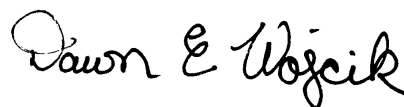
Project: ExxonMobil - Olean, NY
Project #: 0172.0210M010

I attest that the information contained within the report has been reviewed for accuracy and checked against the quality control requirements for each method. These results relate only to the sample(s) as received.
All applicable NELAC requirements have been met.

Massachusetts # M-MA138/MA1110
Connecticut # PH-0777
Florida # E87936
Maine # MA138
New Hampshire # 2972/2538
New Jersey # MA011
New York # 11393
Pennsylvania # 68-04426/68-02924
Rhode Island # LAO00348
USDA # P330-15-00375
Vermont # VT-11393



Authorized by:
Dawn Wojcik
Laboratory Director



Eurofins Spectrum Analytical holds primary NELAC certification in the State of New York for the analytes as indicated with an X in the "Cert." column within this report. Please note that the State of New York does not offer certification for all analytes. Please refer to our website for specific certification holdings in each state.

Please note that this report contains 333 pages of analytical data plus Chain of Custody document(s). When the Laboratory Report is indicated as revised, this report supersedes any previously dated reports for the laboratory ID(s) referenced above. Where this report identifies subcontracted analyses, copies of the subcontractor's test report are available upon request. This report may not be reproduced, except in full, without written approval from Eurofins Spectrum Analytical, Inc.

Eurofins Spectrum Analytical, Inc. is a NELAC accredited laboratory organization and meets NELAC testing standards. Use of the NELAC logo however does not insure that Eurofins Spectrum Analytical, Inc. is currently accredited for the specific method or analyte indicated. Please refer to our Quality web page at www.spectrum-analytical.com for a full listing of our current certifications and fields of accreditation. States in which Eurofins Spectrum Analytical, Inc. holds NELAC certification are New York, New Hampshire, New Jersey, Pennsylvania and Florida. All analytical work for Volatile Organic and Air analysis are transferred to and conducted at our 830 Silver Street location (PA-68-04426).

Please contact the Laboratory or Technical Director at 800-789-9115 with any questions regarding the data contained in this laboratory report.

Sample Summary

Work Order: SC42525
Project: ExxonMobil - Olean, NY
Project Number: 0172.0210M010

<u>Laboratory ID</u>	<u>Client Sample ID</u>	<u>Matrix</u>	<u>Date Sampled</u>	<u>Date Received</u>
SC42525-01	SS-001	Soil	12-Dec-17 12:45	18-Dec-17 11:40
SC42525-02	SS-002	Soil	12-Dec-17 13:15	18-Dec-17 11:40
SC42525-03	SS-003	Soil	12-Dec-17 13:45	18-Dec-17 11:40
SC42525-04	SS-FD	Soil	12-Dec-17 14:00	18-Dec-17 11:40
SC42525-05	SS-004	Soil	12-Dec-17 14:15	18-Dec-17 11:40
SC42525-06	SS-005	Soil	13-Dec-17 09:30	18-Dec-17 11:40
SC42525-07	SS-006	Soil	13-Dec-17 09:40	18-Dec-17 11:40
SC42525-08	SS-007	Soil	13-Dec-17 10:10	18-Dec-17 11:40
SC42525-09	SS-008	Soil	13-Dec-17 10:30	18-Dec-17 11:40
SC42525-10	SS-009	Soil	13-Dec-17 10:55	18-Dec-17 11:40
SC42525-11	SS-010	Soil	13-Dec-17 11:15	18-Dec-17 11:40
SC42525-12	SS-011	Soil	13-Dec-17 11:40	18-Dec-17 11:40
SC42525-13	SS-012	Soil	13-Dec-17 12:00	18-Dec-17 11:40
SC42525-14	SS-013	Soil	13-Dec-17 12:30	18-Dec-17 11:40
SC42525-15	SS-014	Soil	13-Dec-17 12:40	18-Dec-17 11:40
SC42525-16	SS-015	Soil	14-Dec-17 09:45	18-Dec-17 11:40
SC42525-17	SS-FD	Soil	14-Dec-17 09:50	18-Dec-17 11:40
SC42525-18	SS-016	Soil	14-Dec-17 10:15	18-Dec-17 11:40
SC42525-19	SS-017	Soil	14-Dec-17 10:40	18-Dec-17 11:40
SC42525-20	SS-018	Soil	14-Dec-17 11:00	18-Dec-17 11:40
SC42525-21	SS-019	Soil	14-Dec-17 11:20	18-Dec-17 11:40
SC42525-22	SS-020	Soil	14-Dec-17 11:40	18-Dec-17 11:40
SC42525-23	SS-021	Soil	14-Dec-17 12:00	18-Dec-17 11:40
SC42525-24	SS-022	Soil	14-Dec-17 12:15	18-Dec-17 11:40
SC42525-25	SS-023	Soil	14-Dec-17 12:40	18-Dec-17 11:40
SC42525-26	SS-024	Soil	14-Dec-17 13:00	18-Dec-17 11:40

CASE NARRATIVE:

Data has been reported to the RDL. This report includes estimated concentrations detected below the RDL and above the MDL (J-Flag).

All non-detects and all results below the detection limit are reported as "<" (less than) the detection limit in this report.

The samples were received 3.7 degrees Celsius, please refer to the Chain of Custody for details specific to temperature upon receipt. An infrared thermometer with a tolerance of +/- 1.0 degrees Celsius was used immediately upon receipt of the samples.

If a Matrix Spike (MS), Matrix Spike Duplicate (MSD) or Duplicate (DUP) was not requested on the Chain of Custody, method criteria may have been fulfilled with a source sample not of this Sample Delivery Group. If method or program required MS/MSD/Dup were not performed, sufficient sample was not provided to the laboratory.

All VOC soils samples submitted and analyzed in methanol will have a minimum dilution factor of 50. This is the minimum amount of solvent allowed on the instrumentation without causing interference. Soils are run on a manual load instrument. 100ug of sample (MEOH) is spiked into 5ml DI water along with the surrogate and added directly onto the instrument. Additional dilution factors may be required to keep analyte concentration within instrument calibration range.

Method SW846 5035A is designed to use on samples containing low levels of VOCs, ranging from 0.5 to 200 ug/Kg. Target analytes that are less responsive to purge and trap may be present at concentrations over 200ug/Kg but may not be reportable in the methanol preserved vial (SW846 5030). This is the result of the inherent dilution factor required for the methanol preservation.

Reactivity (40 CFR 261.23) Case Narrative:

These samples do not exhibit the characteristics of reactivity as defined in 40 CFR 261.23, sections (1), (2) and (4); however, Eurofins Spectrum Analytical, Inc. does not test for detonation, explosive reaction or potential, or forbidden explosives as defined in 40 CFR 261.23, sections (3), (6), (7) and (8).

Reactive sulfide and cyanide are tested at a pH of 2 and not tested at all conditions between pH 2 and 12.5 as stated in 40 CFR 261.23, section (5); thus reactive cyanide and sulfide results as reported in this document can not be used to support the nonreactive properties of these samples.

The responsibility falls on the generator to use knowledge of the waste to determine if the waste meets or does not meet the descriptive, prose definition of reactivity.

Sample SC42525-11 (SS-010) did not contain sufficient sample to analyze for the requested herbicide or mercury analyses. The associated sample analyses have been cancelled.

See below for any non-conformances and issues relating to quality control samples and/or sample analysis/matrix.

8015DM

Spikes:

1721207-MS1 *Source: SC42525-11*

The Reporting Limit has been raised to account for matrix interference.

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Diesel Range Organics (DRO) C10-C28

1721207-MSD1 *Source: SC42525-11*

The Reporting Limit has been raised to account for matrix interference.

8015DM

Spikes:

1721207-MSD1 *Source: SC42525-11*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Diesel Range Organics (DRO) C10-C28

Duplicates:

1721025-DUP1 *Source: SC42525-23*

The Reporting Limit has been raised to account for matrix interference.

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

1-Chlorooctadecane

1721207-DUP1 *Source: SC42525-01*

The Reporting Limit has been raised to account for matrix interference.

Samples:

SC42525-01 *SS-001*

The Reporting Limit has been raised to account for matrix interference.

SC42525-02 *SS-002*

The Reporting Limit has been raised to account for matrix interference.

SC42525-03 *SS-003*

The Reporting Limit has been raised to account for matrix interference.

SC42525-04 *SS-FD*

The Reporting Limit has been raised to account for matrix interference.

SC42525-05 *SS-004*

The Reporting Limit has been raised to account for matrix interference.

SC42525-06 *SS-005*

The Reporting Limit has been raised to account for matrix interference.

SC42525-07 *SS-006*

The Reporting Limit has been raised to account for matrix interference.

SC42525-08 *SS-007*

The Reporting Limit has been raised to account for matrix interference.

SC42525-09 *SS-008*

The Reporting Limit has been raised to account for matrix interference.

SC42525-10 *SS-009*

8015DM

Samples:

SC42525-10 *SS-009*

The Reporting Limit has been raised to account for matrix interference.

SC42525-11 *SS-010*

The Reporting Limit has been raised to account for matrix interference.

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

1-Chlorooctadecane

SC42525-12 *SS-011*

The Reporting Limit has been raised to account for matrix interference.

SC42525-13 *SS-012*

The Reporting Limit has been raised to account for matrix interference.

SC42525-14 *SS-013*

The Reporting Limit has been raised to account for matrix interference.

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

1-Chlorooctadecane

SC42525-15 *SS-014*

The Reporting Limit has been raised to account for matrix interference.

SC42525-16 *SS-015*

The Reporting Limit has been raised to account for matrix interference.

SC42525-17 *SS-FD*

The Reporting Limit has been raised to account for matrix interference.

SC42525-18 *SS-016*

The Reporting Limit has been raised to account for matrix interference.

SC42525-19 *SS-017*

The Reporting Limit has been raised to account for matrix interference.

SC42525-20 *SS-018*

The Reporting Limit has been raised to account for matrix interference.

SC42525-21 *SS-019*

The Reporting Limit has been raised to account for matrix interference.

8015DM

Samples:

SC42525-21 *SS-019*

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

1-Chlorooctadecane

SC42525-22 *SS-020*

The Reporting Limit has been raised to account for matrix interference.

SC42525-23 *SS-021*

The Reporting Limit has been raised to account for matrix interference.

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

1-Chlorooctadecane

SC42525-24 *SS-022*

The Reporting Limit has been raised to account for matrix interference.

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

1-Chlorooctadecane

SC42525-25 *SS-023*

The Reporting Limit has been raised to account for matrix interference.

SC42525-26 *SS-024*

The Reporting Limit has been raised to account for matrix interference.

SW846 1030

Samples:

SC42525-01 *SS-001*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC42525-02 *SS-002*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC42525-03 *SS-003*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC42525-04 *SS-FD*

SW846 1030

Samples:

SC42525-04 *SS-FD*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC42525-05 *SS-004*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC42525-06 *SS-005*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC42525-07 *SS-006*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC42525-08 *SS-007*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC42525-09 *SS-008*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC42525-10 *SS-009*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC42525-11 *SS-010*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC42525-12 *SS-011*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC42525-13 *SS-012*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SW846 1030

Samples:

SC42525-14 *SS-013*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC42525-15 *SS-014*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC42525-16 *SS-015*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC42525-17 *SS-FD*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC42525-18 *SS-016*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC42525-19 *SS-017*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC42525-20 *SS-018*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC42525-21 *SS-019*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC42525-22 *SS-020*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC42525-23 *SS-021*

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SW846 1030

Samples:

SC42525-24 SS-022

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC42525-25 SS-023

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SC42525-26 SS-024

A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.

Ignitability by Definition

SW846 6010C

Laboratory Control Samples:

1721203 SRM/SRMD

Chromium percent recoveries (81/87) are outside individual acceptance criteria (81.8-118.2), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SS-001
SS-002
SS-003
SS-004
SS-005
SS-006
SS-007
SS-008
SS-009
SS-010
SS-011
SS-012
SS-013
SS-014
SS-015
SS-016
SS-017
SS-018
SS-FD

SW846 6010C

Laboratory Control Samples:

1721203 SRM/SRMD

Silver percent recoveries (77/80) are outside individual acceptance criteria (79.6-120.4), but within overall method allowances.

All reported results of the following samples are considered to have a potentially low bias:

SS-001
SS-002
SS-003
SS-004
SS-005
SS-006
SS-007
SS-008
SS-009
SS-010
SS-011
SS-012
SS-013
SS-014
SS-015
SS-016
SS-017
SS-018
SS-FD

1800083 SRM/SRMD

Lead percent recoveries (79/84) are outside individual acceptance criteria (82.8-117), but within overall method allowances. All

reported results of the following samples are considered to have a potentially low bias:

SS-019
SS-020
SS-021
SS-022
SS-023
SS-024

1800406 SRM/SRMD

Lead percent recoveries (86/82) are outside individual acceptance criteria (82.8-117), but within overall method allowances. All

reported results of the following samples are considered to have a potentially low bias:

SS-001
SS-002
SS-003
SS-004
SS-005
SS-006
SS-007
SS-008
SS-009
SS-010
SS-011
SS-012
SS-013
SS-014
SS-015
SS-016
SS-017
SS-018
SS-FD

SW846 6010C

Spikes:

1800083-MS1 *Source: SC42525-22*

The spike recovery was outside acceptance limits for the MS, MSD and/or PS due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

Lead

1800083-MSD1 *Source: SC42525-22*

The spike recovery was outside acceptance limits for the MS, MSD and/or PS due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

Lead

1800083-PS1 *Source: SC42525-22*

The spike recovery was outside acceptance limits for the MS, MSD and/or PS due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.

Lead

1800406-MSD1 *Source: SC42525-01*

The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.

Lead

Duplicates:

S815619-SRD1 *Source: SS-020*

The dilution analysis is not within a control limit of 10%, therefore a chemical or physical interference effect must be suspected.

Barium (32%)
Chromium (29%)

S815898-SRD1 *Source: SS-010*

The dilution analysis is not within a control limit of 10%, therefore a chemical or physical interference effect must be suspected.

Arsenic (13%)
Chromium (15%)

S815956-SRD1 *Source: SS-001*

The dilution analysis is not within a control limit of 10%, therefore a chemical or physical interference effect must be suspected.

Lead (29%)

SW846 7471B

Spikes:

1721340-MS1 *Source: SC42525-21*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Mercury

1721340-MSD1 *Source: SC42525-21*

The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.

Mercury

Duplicates:

SW846 7471B

Duplicates:

1721204-DUP1 *Source: SC42525-01*

The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.

Mercury

1721340-DUP1 *Source: SC42525-21*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Mercury

Samples:

SC42525-21 *SS-019*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Mercury

SC42525-25 *SS-023*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Mercury

SC42525-26 *SS-024*

Sample dilution required for high concentration of target analytes to be within the instrument calibration range.

Mercury

SW846 8081B

Spikes:

1721116-MS1 *Source: SC42525-11*

The Reporting Limit has been raised to account for matrix interference.

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Chlordane (gamma)(trans)

The spike recovery is outside the acceptance limits for the MS and/or MSD due to sample dilution. The batch was accepted based on the acceptable

Alachlor

Alachlor [2C]

beta-BHC

Endrin aldehyde [2C]

The spike recovery is outside the acceptance limits for the MS and/or MSD due to sample dilution. The batch was accepted based on the acceptable LCS/LCSD recovery.

beta-BHC [2C]

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Methoxychlor

1721116-MSD1 *Source: SC42525-11*

The Reporting Limit has been raised to account for matrix interference.

SW846 8081B

Spikes:

1721116-MSD1 *Source: SC42525-11*

The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.

Chlordane (gamma)(trans)

The spike recovery is outside the acceptance limits for the MS and/or MSD due to sample dilution. The batch was accepted based on the acceptable

4,4'-DDD (p,p') [2C]

4,4'-DDE (p,p')

4,4'-DDE (p,p') [2C]

Alachlor

Alachlor [2C]

Aldrin [2C]

beta-BHC

beta-BHC [2C]

Chlordane (gamma)(trans) [2C]

delta-BHC

delta-BHC [2C]

Endosulfan I [2C]

Endosulfan II [2C]

Endosulfan sulfate [2C]

Heptachlor epoxide [2C]

1800219-MS1 *Source: SC42525-23RE1*

Duplicate analysis confirmed surrogate failure due to matrix effects.

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr) [2C]

Sample was originally analyzed within the recommended method holding time; however, QC materials for the sample run were out of control. As a result, the sample was immediately re-analyzed (outside the holding time).

The Reporting Limit has been raised to account for matrix interference.

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

4,4'-DDD (p,p') [2C]

4,4'-DDT (p,p')

4,4'-DDT (p,p') [2C]

Alachlor [2C]

beta-BHC

beta-BHC [2C]

delta-BHC [2C]

Endosulfan II

Endosulfan sulfate

Endrin

Endrin aldehyde

Endrin aldehyde [2C]

Endrin ketone

Endrin ketone [2C]

gamma-BHC (Lindane)

Methoxychlor

1800219-MSD1 *Source: SC42525-23RE1*

SW846 8081B

Spikes:

1800219-MSD1 *Source: SC42525-23RE1*

Duplicate analysis confirmed surrogate failure due to matrix effects.

Decachlorobiphenyl (Sr)
Decachlorobiphenyl (Sr) [2C]

RPD out of acceptance range.

4,4'-DDD (p,p')
4,4'-DDE (p,p') [2C]
4,4'-DDT (p,p')
Alachlor
Aldrin [2C]
alpha-Chlordane
Chlordane (gamma)(trans) [2C]
delta-BHC
Dieldrin [2C]
Endosulfan I [2C]
Endosulfan II
Endrin aldehyde [2C]
Endrin ketone
Heptachlor [2C]
Heptachlor epoxide [2C]
Methoxychlor

Sample was originally analyzed within the recommended method holding time; however, QC materials for the sample run were out of control. As a result, the sample was immediately re-analyzed (outside the holding time).

The Reporting Limit has been raised to account for matrix interference.

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

4,4'-DDD (p,p')
4,4'-DDD (p,p') [2C]
4,4'-DDE (p,p') [2C]
4,4'-DDT (p,p')
4,4'-DDT (p,p') [2C]
Alachlor
Aldrin [2C]
alpha-Chlordane
beta-BHC [2C]
Endosulfan I [2C]
Endosulfan II
Endosulfan sulfate
Endrin
Endrin [2C]
Endrin aldehyde
Endrin ketone
Endrin ketone [2C]
gamma-BHC (Lindane)
Heptachlor epoxide [2C]
Methoxychlor

Duplicates:

1721116-DUP1 *Source: SC42525-11*

The Reporting Limit has been raised to account for matrix interference.

SW846 8081B**Duplicates:**

1800219-DUP1 *Source: SC42525-23RE1*

Duplicate analysis confirmed surrogate failure due to matrix effects.

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr) [2C]

Sample was originally analyzed within the recommended method holding time; however, QC materials for the sample run were out of control. As a result, the sample was immediately re-analyzed (outside the holding time).

The Reporting Limit has been raised to account for matrix interference.

Samples:

SC42525-01 *SS-001*

The Reporting Limit has been raised to account for matrix interference.

SC42525-02 *SS-002*

The Reporting Limit has been raised to account for matrix interference.

SC42525-03 *SS-003*

The Reporting Limit has been raised to account for matrix interference.

SC42525-04 *SS-FD*

The Reporting Limit has been raised to account for matrix interference.

SC42525-05 *SS-004*

The Reporting Limit has been raised to account for matrix interference.

SC42525-06 *SS-005*

The Reporting Limit has been raised to account for matrix interference.

SC42525-07 *SS-006*

The Reporting Limit has been raised to account for matrix interference.

SC42525-08 *SS-007*

The Reporting Limit has been raised to account for matrix interference.

SC42525-09 *SS-008*

The Reporting Limit has been raised to account for matrix interference.

SC42525-10 *SS-009*

The Reporting Limit has been raised to account for matrix interference.

SC42525-11 *SS-010*

The Reporting Limit has been raised to account for matrix interference.

SC42525-12 *SS-011*

SW846 8081B**Samples:**

SC42525-12 *SS-011*

The Reporting Limit has been raised to account for matrix interference.

SC42525-13 *SS-012*

The Reporting Limit has been raised to account for matrix interference.

SC42525-14 *SS-013*

The Reporting Limit has been raised to account for matrix interference.

SC42525-15 *SS-014*

The Reporting Limit has been raised to account for matrix interference.

SC42525-16 *SS-015*

The Reporting Limit has been raised to account for matrix interference.

SC42525-17 *SS-FD*

The Reporting Limit has been raised to account for matrix interference.

SC42525-18 *SS-016*

The Reporting Limit has been raised to account for matrix interference.

SC42525-19 *SS-017*

The Reporting Limit has been raised to account for matrix interference.

SC42525-20 *SS-018*

The Reporting Limit has been raised to account for matrix interference.

SC42525-21 *SS-019*

The Reporting Limit has been raised to account for matrix interference.

SC42525-23 *SS-021*

Duplicate analysis confirmed surrogate failure due to matrix effects.

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr) [2C]

The Reporting Limit has been raised to account for matrix interference.

SC42525-23RE1 *SS-021*

Duplicate analysis confirmed surrogate failure due to matrix effects.

Decachlorobiphenyl (Sr)

Decachlorobiphenyl (Sr) [2C]

Sample was originally analyzed within the recommended method holding time; however, QC materials for the sample run were out of control. As a result, the sample was immediately re-analyzed (outside the holding time).

The Reporting Limit has been raised to account for matrix interference.

SW846 8081B

Samples:

SC42525-24 SS-022

Duplicate analysis confirmed surrogate failure due to matrix effects.

Decachlorobiphenyl (Sr)
Decachlorobiphenyl (Sr) [2C]

The Reporting Limit has been raised to account for matrix interference.

SC42525-24RE1 SS-022

Duplicate analysis confirmed surrogate failure due to matrix effects.

Decachlorobiphenyl (Sr)
Decachlorobiphenyl (Sr) [2C]

Sample was originally analyzed within the recommended method holding time; however, QC materials for the sample run were out of control. As a result, the sample was immediately re-analyzed (outside the holding time).

The Reporting Limit has been raised to account for matrix interference.

SC42525-25 SS-023

The Reporting Limit has been raised to account for matrix interference.

SC42525-26 SS-024

The Reporting Limit has been raised to account for matrix interference.

SW846 8082A

Duplicates:

1721117-DUP1 *Source: SC42525-11*

RPD out of acceptance range.

Aroclor-1262 [2C]

Samples:

SC42525-14 SS-013

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Decachlorobiphenyl (Sr)

SC42525-23 SS-021

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Decachlorobiphenyl (Sr)

SC42525-24 SS-022

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Decachlorobiphenyl (Sr)

SC42525-25 SS-023

SW846 8082A

Samples:

SC42525-25 SS-023

The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.

Decachlorobiphenyl (Sr)

SW846 8151A

Duplicates:

1721260-DUP1 Source: SC42525-06

RPD out of acceptance range.

2,4-D

Samples:

SC42525-16 SS-015

Difference between the two GC columns is greater than 40%.

2,4-D [2C]

SC42525-25 SS-023

Difference between the two GC columns is greater than 40%.

2,4-D [2C]

SW846 8260C

Calibration:

1711053

Analyte quantified by quadratic equation type calibration.

1,2-Dibromo-3-chloropropane

1,4-Dioxane

2-Hexanone (MBK)

4-Methyl-2-pentanone (MIBK)

Acetone

Tetrahydrofuran

trans-1,4-Dichloro-2-butene

This affected the following samples:

S710314-ICV1

1712025

Calibration:1712025

Analyte quantified by quadratic equation type calibration.

1,2,3-Trichlorobenzene
1,2,4-Trichlorobenzene
1,2,4-Trimethylbenzene
1,2-Dibromo-3-chloropropane
1,3,5-Trichlorobenzene
1,3,5-Trimethylbenzene
1,4-Dioxane
2-Hexanone (MBK)
4-Chlorotoluene
4-Isopropyltoluene
4-Methyl-2-pentanone (MIBK)
Bromoform
cis-1,3-Dichloropropene
Dibromochloromethane
Di-isopropyl ether
Ethyl tert-butyl ether
Ethylbenzene
Isopropylbenzene
m,p-Xylene
Methyl tert-butyl ether
Naphthalene
n-Butylbenzene
n-Propylbenzene
o-Xylene
sec-Butylbenzene
Styrene
tert-Butylbenzene
Tetrahydrofuran
trans-1,3-Dichloropropene
trans-1,4-Dichloro-2-butene
Vinyl chloride

This affected the following samples:

S710689-ICV1

Laboratory Control Samples:1721045 BS/BSD

Methyl tert-butyl ether percent recoveries (116/142) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SS-010

trans-1,2-Dichloroethene percent recoveries (126/138) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SS-010

1721132 BS/BSD

SW846 8260C

Laboratory Control Samples:

1721132 BS/BSD

Naphthalene percent recoveries (61/65) are outside individual acceptance criteria (70-130), but within overall method allowances.

All reported results of the following samples are considered to have a potentially low bias:

SS-001
SS-002
SS-004
SS-005
SS-006
SS-007
SS-008
SS-FD

1721132 BSD

2-Butanone (MEK) RPD 31% (30%) is outside individual acceptance criteria.

1721214 BS/BSD

1,2,4-Trichlorobenzene percent recoveries (70/69) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SS-009
SS-010
SS-011
SS-012
SS-013
SS-014
SS-015
SS-016
SS-FD

Acetone percent recoveries (65/64) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SS-009
SS-010
SS-011
SS-012
SS-013
SS-014
SS-015
SS-016
SS-FD

Naphthalene percent recoveries (60/63) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SS-009
SS-010
SS-011
SS-012
SS-013
SS-014
SS-015
SS-016
SS-FD

1721215 BS/BSD

SW846 8260C

Laboratory Control Samples:

1721215 BS/BSD

Bromomethane percent recoveries (123/131) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially high bias:

SS-003
SS-020

1721296 BS/BSD

1,2,4-Trichlorobenzene percent recoveries (68/68) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SS-017
SS-018
SS-019
SS-020
SS-021
SS-022
SS-023
SS-024

Acetone percent recoveries (66/61) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SS-017
SS-018
SS-019
SS-020
SS-021
SS-022
SS-023
SS-024

Naphthalene percent recoveries (61/61) are outside individual acceptance criteria (70-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SS-017
SS-018
SS-019
SS-020
SS-021
SS-022
SS-023
SS-024

Spikes:

1721045-MS1

Source: SC42525-11

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Bromomethane
Chloroethane
Ethanol
trans-1,2-Dichloroethene
Vinyl chloride

1721045-MSD1

Source: SC42525-11

SW846 8260C

Spikes:

1721045-MSD1 *Source: SC42525-11*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

1,3,5-Trichlorobenzene
Acetone
Bromomethane
Chloroethane
Ethanol
Hexachlorobutadiene
Vinyl chloride

1721215-MS1 *Source: SC42525-22*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Acrylonitrile
Bromomethane
Chloroethane
Tert-Butanol / butyl alcohol
Vinyl chloride

1721215-MSD1 *Source: SC42525-22*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

Acrylonitrile
Bromomethane
Chloroethane
Hexachlorobutadiene
Vinyl chloride

Samples:

S710998-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Chloromethane (-29.9%)
trans-1,2-Dichloroethene (26.1%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Vinyl chloride (-26.6%)

This affected the following samples:

1721045-BLK1
1721045-BS1
1721045-BSD1
1721045-MS1
1721045-MSD1
SS-010

S711036-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,2,3-Trichlorobenzene (-24.6%)
1,2,4-Trichlorobenzene (-29.3%)
Acrylonitrile (-22.9%)
Di-isopropyl ether (-21.7%)

SW846 8260C

Samples:

S711036-CCV1

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

1,4-Dioxane (-27.6%)
2-Hexanone (MBK) (-28.5%)
Acetone (-25.6%)
Naphthalene (-38.6%)

This affected the following samples:

1721132-BLK1
1721132-BS1
1721132-BSD1
SS-001
SS-002
SS-004
SS-005
SS-006
SS-007
SS-008
SS-FD

S711056-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,2,3-Trichlorobenzene (-26.6%)
1,2,4-Trichlorobenzene (-30.1%)
Di-isopropyl ether (-20.9%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

2-Hexanone (MBK) (-25.2%)
Acetone (-34.8%)
Naphthalene (-39.8%)

This affected the following samples:

1721214-BLK1
1721214-BS1
1721214-BSD1
SS-009
SS-010
SS-011
SS-012
SS-013
SS-014
SS-015
SS-016
SS-FD

S711057-CCV1

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Acetone (25.1%)
Bromomethane (20.2%)

SW846 8260C

Samples:

S711057-CCV1

This affected the following samples:

1721215-BLK1
1721215-BS1
1721215-BSD1
1721215-MS1
1721215-MSD1
SS-003
SS-020

S711104-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

1,2,3-Trichlorobenzene (-25.7%)
1,2,4-Trichlorobenzene (-31.7%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Acetone (-33.8%)
Naphthalene (-38.7%)

This affected the following samples:

1721296-BLK1
1721296-BS1
1721296-BSD1
SS-017
SS-018
SS-019
SS-020
SS-021
SS-022
SS-023
SS-024

SC42525-03 SS-003

Reporting limits reflect SW846 5035A High Level extraction technique due to interference and/or QC issues using SW846 5035A Low Level extraction technique.

SC42525-10 SS-009

Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.

1,2-Dichloroethane-d4

SC42525-22 SS-020

Sample data reported for QC purposes only.

SW846 8260C TICs

Samples:

SC42525-02 SS-002

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

SC42525-06 SS-005

SW846 8260C TICs

Samples:

SC42525-06 SS-005

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

SC42525-07 SS-006

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

SC42525-14 SS-013

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

Dimethyl sulfide

SW846 8270D

Calibration:

1712056

Analyte quantified by quadratic equation type calibration.

2,4-Dinitrophenol
4,6-Dinitro-2-methylphenol
Benzidine
Benzoic acid
Carbazole
Pentachlorophenol

This affected the following samples:

S711008-ICV1

Laboratory Control Samples:

1721023 BS/BSD

2,4-Dinitrophenol percent recoveries (26/24) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SS-019
SS-020
SS-021
SS-022
SS-023
SS-024

4-Chloroaniline percent recoveries (42/39) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SS-019
SS-020
SS-021
SS-022
SS-023
SS-024

SW846 8270D

Laboratory Control Samples:

1721023 BS/BSD

Aniline percent recoveries (42/39) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SS-019
SS-020
SS-021
SS-022
SS-023
SS-024

Benzoic acid percent recoveries (13/12) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SS-019
SS-020
SS-021
SS-022
SS-023
SS-024

Pentachlorophenol percent recoveries (33/29) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SS-019
SS-020
SS-021
SS-022
SS-023
SS-024

1721023 BSD

Benzidine RPD 31% (30%) is outside individual acceptance criteria.

1721023-BSD1

RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.

Benzidine

1721206 BS/BSD

SW846 8270D

Laboratory Control Samples:

1721206 BS/BSD

2,4-Dinitrophenol percent recoveries (33/27) are outside individual acceptance criteria (30-130), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SS-001
SS-002
SS-003
SS-004
SS-005
SS-006
SS-007
SS-008
SS-009
SS-010
SS-011
SS-012
SS-013
SS-014
SS-015
SS-016
SS-017
SS-018
SS-FD

4-Chloroaniline percent recoveries (26/25) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SS-001
SS-002
SS-003
SS-004
SS-005
SS-006
SS-007
SS-008
SS-009
SS-010
SS-011
SS-012
SS-013
SS-014
SS-015
SS-016
SS-017
SS-018
SS-FD

SW846 8270D

Laboratory Control Samples:

1721206 BS/BSD

Aniline percent recoveries (30/27) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SS-001
SS-002
SS-003
SS-004
SS-005
SS-006
SS-007
SS-008
SS-009
SS-010
SS-011
SS-012
SS-013
SS-014
SS-015
SS-016
SS-017
SS-018
SS-FD

Benzidine percent recoveries (34/33) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SS-001
SS-002
SS-003
SS-004
SS-005
SS-006
SS-007
SS-008
SS-009
SS-010
SS-011
SS-012
SS-013
SS-014
SS-015
SS-016
SS-017
SS-018
SS-FD

SW846 8270D

Laboratory Control Samples:

1721206 BS/BSD

Benzoic acid percent recoveries (21/21) are outside individual acceptance criteria (30-130), but within overall method allowances.

All reported results of the following samples are considered to have a potentially low bias:

SS-001
SS-002
SS-003
SS-004
SS-005
SS-006
SS-007
SS-008
SS-009
SS-010
SS-011
SS-012
SS-013
SS-014
SS-015
SS-016
SS-017
SS-018
SS-FD

Bis(2-chloroethoxy)methane percent recoveries (38/41) are outside individual acceptance criteria (40-140), but within overall method allowances. All reported results of the following samples are considered to have a potentially low bias:

SS-001
SS-002
SS-003
SS-004
SS-005
SS-006
SS-007
SS-008
SS-009
SS-010
SS-011
SS-012
SS-013
SS-014
SS-015
SS-016
SS-017
SS-018
SS-FD

Spikes:

1721023-MS1

Source: SC42525-22

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

2,4-Dinitrophenol
3,3'-Dichlorobenzidine
4,6-Dinitro-2-methylphenol
4-Chloroaniline
Aniline
Hexachlorocyclopentadiene

SW846 8270D

Spikes:

1721023-MSD1 *Source: SC42525-22*

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

2,4-Dinitrophenol
3,3'-Dichlorobenzidine
4,6-Dinitro-2-methylphenol
4-Chloroaniline
Aniline
Hexachlorocyclopentadiene

1721206-MS1 *Source: SC42525-11*

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

4-Chloroaniline
Aniline

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

2,4-Dinitrophenol
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
Bis(2-chloroethoxy)methane
Bis(2-chloroisopropyl)ether
Carbazole
Fluoranthene
Hexachlorocyclopentadiene
Hexachloroethane
Phenanthrene
Pyridine

1721206-MSD1 *Source: SC42525-11*

Analyte out of acceptance range in QC spike but no reportable concentration present in sample.

4-Chloroaniline
Aniline

The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.

2,4-Dinitrophenol
2-Nitrophenol
3,3'-Dichlorobenzidine
3-Nitroaniline
4,6-Dinitro-2-methylphenol
Bis(2-chloroethoxy)methane
Bis(2-chloroisopropyl)ether
Carbazole
Fluoranthene
Hexachlorocyclopentadiene
N-Nitrosodi-n-propylamine
Phenanthrene
Pyrene

Samples:

S711128-CCV1

SW846 8270D

Samples:

S711128-CCV1

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Pentachlorophenol (-30.1%)

This affected the following samples:

1721023-BLK1

1721023-BS1

1721023-BSD1

S815579-CCV1

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

2,4-Dinitrophenol (-25.8%)

Benzoic acid (-21.9%)

Carbazole (21.7%)

This affected the following samples:

1721023-DUP1

1721023-MS1

1721023-MSD1

SS-019

SS-020

SS-021

SS-022

SS-023

SS-024

S815620-CCV1

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

2,4-Dinitrophenol (-26.2%)

Benzidine (24.1%)

Benzoic acid (-24.4%)

This affected the following samples:

1721206-BLK1

1721206-BSD1

S815623-CCV1

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

Benzidine (75.7%)

Benzoic acid (-49.1%)

SW846 8270D

Samples:

S815623-CCV1

This affected the following samples:

1721206-MS1
1721206-MSD1
SS-001
SS-002
SS-003
SS-004
SS-005
SS-006
SS-007
SS-008
SS-009
SS-010
SS-011
SS-012
SS-013
SS-014
SS-015
SS-016
SS-017
SS-FD

S815628-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Pyridine (-50.5%)

Analyte percent drift is outside individual acceptance criteria (20), but within overall method allowances.

2,4-Dinitrophenol (-24.2%)

This affected the following samples:

1721206-DUP1

S815639-CCV1

Analyte percent difference is outside individual acceptance criteria (20), but within overall method allowances.

Hexachlorocyclopentadiene (25.0%)

This affected the following samples:

1721206-BS1
SS-018

SC42525-01 *SS-001*

The Reporting Limit has been raised to account for matrix interference.

SC42525-02 *SS-002*

The Reporting Limit has been raised to account for matrix interference.

SC42525-03 *SS-003*

The Reporting Limit has been raised to account for matrix interference.

SC42525-04 *SS-FD*

SW846 8270D**Samples:**

SC42525-04 *SS-FD*

The Reporting Limit has been raised to account for matrix interference.

SC42525-05 *SS-004*

The Reporting Limit has been raised to account for matrix interference.

SC42525-06 *SS-005*

The Reporting Limit has been raised to account for matrix interference.

SC42525-07 *SS-006*

The Reporting Limit has been raised to account for matrix interference.

SC42525-08 *SS-007*

The Reporting Limit has been raised to account for matrix interference.

SC42525-09 *SS-008*

The Reporting Limit has been raised to account for matrix interference.

SC42525-10 *SS-009*

The Reporting Limit has been raised to account for matrix interference.

SC42525-11 *SS-010*

The Reporting Limit has been raised to account for matrix interference.

SC42525-12 *SS-011*

The Reporting Limit has been raised to account for matrix interference.

SC42525-13 *SS-012*

The Reporting Limit has been raised to account for matrix interference.

SC42525-14 *SS-013*

The Reporting Limit has been raised to account for matrix interference.

SC42525-15 *SS-014*

The Reporting Limit has been raised to account for matrix interference.

SC42525-16 *SS-015*

The Reporting Limit has been raised to account for matrix interference.

SC42525-17 *SS-FD*

The Reporting Limit has been raised to account for matrix interference.

SC42525-18 *SS-016*

The Reporting Limit has been raised to account for matrix interference.

SW846 8270D

Samples:

SC42525-19 *SS-017*

The Reporting Limit has been raised to account for matrix interference.

SC42525-20 *SS-018*

The Reporting Limit has been raised to account for matrix interference.

SC42525-21 *SS-019*

The Reporting Limit has been raised to account for matrix interference.

SC42525-22 *SS-020*

The Reporting Limit has been raised to account for matrix interference.

SC42525-23 *SS-021*

The Reporting Limit has been raised to account for matrix interference.

SC42525-24 *SS-022*

The Reporting Limit has been raised to account for matrix interference.

SC42525-25 *SS-023*

The Reporting Limit has been raised to account for matrix interference.

SC42525-26 *SS-024*

The Reporting Limit has been raised to account for matrix interference.

SW846 8270D TICS

Samples:

SC42525-01 *SS-001*

The Reporting Limit has been raised to account for matrix interference.

SC42525-02 *SS-002*

The Reporting Limit has been raised to account for matrix interference.

SC42525-03 *SS-003*

The Reporting Limit has been raised to account for matrix interference.

SC42525-04 *SS-FD*

The Reporting Limit has been raised to account for matrix interference.

SC42525-05 *SS-004*

The Reporting Limit has been raised to account for matrix interference.

SC42525-06 *SS-005*

The Reporting Limit has been raised to account for matrix interference.

SW846 8270D TICS

Samples:

SC42525-07 SS-006

The Reporting Limit has been raised to account for matrix interference.

SC42525-08 SS-007

The Reporting Limit has been raised to account for matrix interference.

SC42525-09 SS-008

The Reporting Limit has been raised to account for matrix interference.

SC42525-10 SS-009

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

1,19-Eicosadiene
Oxirane, hexadecyl-

The Reporting Limit has been raised to account for matrix interference.

SC42525-11 SS-010

The Reporting Limit has been raised to account for matrix interference.

SC42525-12 SS-011

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

Ethane, 1,1,2,2-tetrachloro-

The Reporting Limit has been raised to account for matrix interference.

SC42525-13 SS-012

The Reporting Limit has been raised to account for matrix interference.

SC42525-14 SS-013

The Reporting Limit has been raised to account for matrix interference.

SC42525-15 SS-014

The Reporting Limit has been raised to account for matrix interference.

SC42525-16 SS-015

The Reporting Limit has been raised to account for matrix interference.

SC42525-17 SS-FD

The Reporting Limit has been raised to account for matrix interference.

SC42525-18 SS-016

The Reporting Limit has been raised to account for matrix interference.

SC42525-19 SS-017

SW846 8270D TICS

Samples:

SC42525-19 SS-017

The Reporting Limit has been raised to account for matrix interference.

SC42525-20 SS-018

The Reporting Limit has been raised to account for matrix interference.

SC42525-21 SS-019

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

tridecane, 5-propyl-

SC42525-22 SS-020

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

Octadecanal

SC42525-23 SS-021

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

Perylene

SC42525-24 SS-022

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

9,10-anthracenedione

Perylene

SC42525-26 SS-024

(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.

Cyclohexasiloxane, dodecane...

Cyclopentasiloxane, decamet...

Sample Acceptance Check Form

Client: Roux Associates, Inc.
Project: ExxonMobil - Olean, NY / 0172.0210M010
Work Order: SC42525
Sample(s) received on: 12/18/2017

The following outlines the condition of samples for the attached Chain of Custody upon receipt.

	<u>Yes</u>	<u>No</u>	<u>N/A</u>
Were custody seals present?	☐	☒	☐
Were custody seals intact?	☐	☐	☒
Were samples received at a temperature of $\leq 6^{\circ}\text{C}$?	☒	☐	☐
Were samples cooled on ice upon transfer to laboratory representative?	☒	☐	☐
Were sample containers received intact?	☒	☐	☐
Were samples properly labeled (labels affixed to sample containers and include sample ID, site location, and/or project number and the collection date)?	☒	☐	☐
Were samples accompanied by a Chain of Custody document?	☒	☐	☐
Does Chain of Custody document include proper, full, and complete documentation, which shall include sample ID, site location, and/or project number, date and time of collection, collector's name, preservation type, sample matrix and any special remarks concerning the sample?	☒	☐	☐
Did sample container labels agree with Chain of Custody document?	☒	☐	☐
Were samples received within method-specific holding times?	☒	☐	☐

Summary of Hits

Lab ID: SC42525-01

Client ID: SS-001

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	1040	D	303	mg/kg	8015DM
Other Oil	Calculated as		303	mg/kg	8015DM
Unidentified	1040	D	303	mg/kg	8015DM
Arsenic	9.40		1.73	mg/kg	SW846 6010C
Barium	73.0		1.15	mg/kg	SW846 6010C
Cadmium	0.878		0.577	mg/kg	SW846 6010C
Chromium	10.1		1.15	mg/kg	SW846 6010C
Lead	50.8		1.71	mg/kg	SW846 6010C
Selenium	0.450	J	1.73	mg/kg	SW846 6010C
Mercury	0.171		0.0318	mg/kg	SW846 7471B
Aroclor-1260 [2C]	9.11	J	11.4	µg/kg	SW846 8082A

Lab ID: SC42525-02

Client ID: SS-002

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	737	D	177	mg/kg	8015DM
Other Oil	Calculated as		177	mg/kg	8015DM
Unidentified	737	D	177	mg/kg	8015DM
Arsenic	11.8		2.02	mg/kg	SW846 6010C
Barium	80.8		1.34	mg/kg	SW846 6010C
Cadmium	1.08		0.672	mg/kg	SW846 6010C
Chromium	12.2		1.34	mg/kg	SW846 6010C
Lead	69.4		2.02	mg/kg	SW846 6010C
Mercury	0.119		0.0378	mg/kg	SW846 7471B
Fluoranthene	1080	J, D	1810	µg/kg	SW846 8270D
Pyrene	1010	J, D	1810	µg/kg	SW846 8270D

Lab ID: SC42525-03

Client ID: SS-003

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	377	D	61.3	mg/kg	8015DM
Other Oil	Calculated as		61.3	mg/kg	8015DM
Unidentified	377	D	61.3	mg/kg	8015DM
Arsenic	10.1		1.75	mg/kg	SW846 6010C
Barium	64.4		1.17	mg/kg	SW846 6010C
Cadmium	0.816		0.583	mg/kg	SW846 6010C
Chromium	12.1		1.17	mg/kg	SW846 6010C
Lead	58.2		1.74	mg/kg	SW846 6010C
Selenium	0.467	J	1.75	mg/kg	SW846 6010C
Mercury	0.0974		0.0334	mg/kg	SW846 7471B
Aroclor-1254 [2C]	115		11.6	µg/kg	SW846 8082A
Methyl tert-butyl ether	36.9	J, D	78.6	µg/kg	SW846 8260C
Naphthalene	84.1	D	78.6	µg/kg	SW846 8260C
Benzo (a) anthracene	243	J, D	389	µg/kg	SW846 8270D
Benzo (a) pyrene	241	J, D	389	µg/kg	SW846 8270D
Benzo (b) fluoranthene	241	J, D	389	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	175	J, D	389	µg/kg	SW846 8270D
Benzo (k) fluoranthene	188	J, D	389	µg/kg	SW846 8270D
Chrysene	262	J, D	389	µg/kg	SW846 8270D
Fluoranthene	497	D	389	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	167	J, D	389	µg/kg	SW846 8270D
Phenanthrene	332	J, D	389	µg/kg	SW846 8270D
Pyrene	523	D	389	µg/kg	SW846 8270D

Lab ID: SC42525-04

Client ID: SS-FD

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	372	D	61.9	mg/kg	8015DM
Other Oil	Calculated as		61.9	mg/kg	8015DM
Unidentified	372	D	61.9	mg/kg	8015DM
Arsenic	11.6		1.76	mg/kg	SW846 6010C
Barium	68.1		1.17	mg/kg	SW846 6010C
Cadmium	0.882		0.586	mg/kg	SW846 6010C
Chromium	9.31		1.17	mg/kg	SW846 6010C
Lead	59.2		1.75	mg/kg	SW846 6010C
Selenium	0.592	J	1.76	mg/kg	SW846 6010C
Mercury	0.142		0.0322	mg/kg	SW846 7471B
Aroclor-1254 [2C]	29.5		11.6	µg/kg	SW846 8082A
Benzo (a) anthracene	498	D	392	µg/kg	SW846 8270D
Benzo (a) pyrene	416	D	392	µg/kg	SW846 8270D
Benzo (b) fluoranthene	373	J, D	392	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	284	J, D	392	µg/kg	SW846 8270D
Benzo (k) fluoranthene	353	J, D	392	µg/kg	SW846 8270D
Chrysene	467	D	392	µg/kg	SW846 8270D
Fluoranthene	1170	D	392	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	277	J, D	392	µg/kg	SW846 8270D
Phenanthrene	722	D	392	µg/kg	SW846 8270D
Pyrene	986	D	392	µg/kg	SW846 8270D

Lab ID: SC42525-05

Client ID: SS-004

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	450	D	162	mg/kg	8015DM
Other Oil	Calculated as		162	mg/kg	8015DM
Unidentified	450	D	162	mg/kg	8015DM
Arsenic	7.78		1.83	mg/kg	SW846 6010C
Barium	57.4		1.22	mg/kg	SW846 6010C
Cadmium	0.709		0.609	mg/kg	SW846 6010C
Chromium	9.37		1.22	mg/kg	SW846 6010C
Lead	34.8		1.83	mg/kg	SW846 6010C
Mercury	0.222		0.0322	mg/kg	SW846 7471B
Aroclor-1260	8.68	J	12.2	µg/kg	SW846 8082A

Lab ID: SC42525-06

Client ID: SS-005

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	491	D	158	mg/kg	8015DM
Other Oil	Calculated as		158	mg/kg	8015DM
Unidentified	491	D	158	mg/kg	8015DM
Arsenic	16.2		1.82	mg/kg	SW846 6010C
Barium	94.9		1.22	mg/kg	SW846 6010C
Cadmium	1.16		0.608	mg/kg	SW846 6010C
Chromium	15.2		1.22	mg/kg	SW846 6010C
Lead	54.0		1.82	mg/kg	SW846 6010C
Selenium	0.419	J	1.82	mg/kg	SW846 6010C
Mercury	0.221		0.0337	mg/kg	SW846 7471B
Gasoline Range Organics (C6-C10)	1.8	J, D	8.3	mg/kg	SW846 8015D
Aroclor-1260 [2C]	7.83	J	12.0	µg/kg	SW846 8082A
2,4-D [2C]	14.5		8.10	µg/kg	SW846 8151A
2-Butanone (MEK)	14.2	J	14.6	µg/kg	SW846 8260C
Ethanol	879	J	1460	µg/kg	SW846 8260C
2-Methylnaphthalene	643	J, D	804	µg/kg	SW846 8270D
Phenanthrene	691	J, D	804	µg/kg	SW846 8270D
Pyrene	595	J, D	804	µg/kg	SW846 8270D

Lab ID: SC42525-07

Client ID: SS-006

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	458	D	171	mg/kg	8015DM
Other Oil	Calculated as		171	mg/kg	8015DM
Unidentified	458	D	171	mg/kg	8015DM
Arsenic	11.3		1.93	mg/kg	SW846 6010C
Barium	95.9		1.29	mg/kg	SW846 6010C
Cadmium	1.15		0.643	mg/kg	SW846 6010C
Chromium	11.1		1.29	mg/kg	SW846 6010C
Lead	37.7		1.95	mg/kg	SW846 6010C
Selenium	0.630	J	1.93	mg/kg	SW846 6010C
Mercury	0.188		0.0339	mg/kg	SW846 7471B
Aroclor-1260	11.0	J	12.9	µg/kg	SW846 8082A
2,4-D	17.2		8.65	µg/kg	SW846 8151A
Benzo (a) pyrene	340	J, D	871	µg/kg	SW846 8270D
Fluoranthene	684	J, D	871	µg/kg	SW846 8270D
Phenanthrene	531	J, D	871	µg/kg	SW846 8270D
Pyrene	636	J, D	871	µg/kg	SW846 8270D

Lab ID: SC42525-08

Client ID: SS-007

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	142	D	78.0	mg/kg	8015DM
Other Oil	Calculated as		78.0	mg/kg	8015DM
Unidentified	142	D	78.0	mg/kg	8015DM
Arsenic	9.88		2.21	mg/kg	SW846 6010C
Barium	69.4		1.47	mg/kg	SW846 6010C
Cadmium	0.968		0.736	mg/kg	SW846 6010C
Chromium	13.2		1.47	mg/kg	SW846 6010C
Lead	36.4		2.24	mg/kg	SW846 6010C
Mercury	0.178		0.0394	mg/kg	SW846 7471B
2,4-D	23.7		9.93	µg/kg	SW846 8151A
Fluoranthene	622	J, D	996	µg/kg	SW846 8270D

Lab ID: SC42525-09

Client ID: SS-008

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	408	D	158	mg/kg	8015DM
Other Oil	Calculated as		158	mg/kg	8015DM
Unidentified	408	D	158	mg/kg	8015DM
Arsenic	10.6		1.79	mg/kg	SW846 6010C
Barium	69.7		1.19	mg/kg	SW846 6010C
Cadmium	1.03		0.597	mg/kg	SW846 6010C
Chromium	10.5		1.19	mg/kg	SW846 6010C
Lead	23.2		1.79	mg/kg	SW846 6010C
Mercury	0.0784		0.0318	mg/kg	SW846 7471B
Aroclor-1254	39.6		12.0	µg/kg	SW846 8082A
Aroclor-1260	18.6		12.0	µg/kg	SW846 8082A
2,4-D [2C]	16.0		8.05	µg/kg	SW846 8151A
Ethanol	706	J	1320	µg/kg	SW846 8260C
Benzo (a) anthracene	526	J, D	809	µg/kg	SW846 8270D
Benzo (a) pyrene	542	J, D	809	µg/kg	SW846 8270D
Benzo (b) fluoranthene	437	J, D	809	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	408	J, D	809	µg/kg	SW846 8270D
Benzo (k) fluoranthene	590	J, D	809	µg/kg	SW846 8270D
Chrysene	546	J, D	809	µg/kg	SW846 8270D
Fluoranthene	1160	D	809	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	372	J, D	809	µg/kg	SW846 8270D
Phenanthrene	603	J, D	809	µg/kg	SW846 8270D
Pyrene	950	D	809	µg/kg	SW846 8270D

Lab ID: SC42525-10

Client ID: SS-009

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	494	D	166	mg/kg	8015DM
Other Oil	Calculated as		166	mg/kg	8015DM
Unidentified	494	D	166	mg/kg	8015DM
Arsenic	30.9		1.89	mg/kg	SW846 6010C
Barium	71.3		1.26	mg/kg	SW846 6010C
Cadmium	2.18		0.629	mg/kg	SW846 6010C
Chromium	10.9		1.26	mg/kg	SW846 6010C
Lead	52.2		1.90	mg/kg	SW846 6010C
Mercury	0.239		0.0377	mg/kg	SW846 7471B
Aroclor-1260	15.2		12.6	µg/kg	SW846 8082A
2,4-D [2C]	23.4		8.40	µg/kg	SW846 8151A
Ethanol	1270	J	1910	µg/kg	SW846 8260C
Benzo (a) anthracene	537	D	425	µg/kg	SW846 8270D
Benzo (a) pyrene	584	D	425	µg/kg	SW846 8270D
Benzo (b) fluoranthene	654	D	425	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	429	D	425	µg/kg	SW846 8270D
Benzo (k) fluoranthene	467	D	425	µg/kg	SW846 8270D
Chrysene	630	D	425	µg/kg	SW846 8270D
Fluoranthene	1170	D	425	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	420	J, D	425	µg/kg	SW846 8270D
Phenanthrene	581	D	425	µg/kg	SW846 8270D
Pyrene	1010	D	425	µg/kg	SW846 8270D

Lab ID: SC42525-11

Client ID: SS-010

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	718	D	159	mg/kg	8015DM
Other Oil	Calculated as		159	mg/kg	8015DM
Unidentified	718	D	159	mg/kg	8015DM
Arsenic	16.6		1.82	mg/kg	SW846 6010C
Barium	86.0		1.21	mg/kg	SW846 6010C
Cadmium	1.20		0.607	mg/kg	SW846 6010C
Chromium	12.0		1.21	mg/kg	SW846 6010C
Lead	66.2		1.80	mg/kg	SW846 6010C
Gasoline Range Organics (C6-C10)	3.9	J, D	6.7	mg/kg	SW846 8015D
Aroclor-1262	31.2		12.0	µg/kg	SW846 8082A
1,2,4-Trimethylbenzene	126	D	66.8	µg/kg	SW846 8260C
1,3,5-Trimethylbenzene	71.5	D	66.8	µg/kg	SW846 8260C
4-Isopropyltoluene	26.1	J, D	66.8	µg/kg	SW846 8260C
Benzene	46.1	J, D	66.8	µg/kg	SW846 8260C
Ethanol	4950	J, D	13400	µg/kg	SW846 8260C
Ethylbenzene	50.1	J, D	66.8	µg/kg	SW846 8260C
Isopropylbenzene	21.4	J, D	66.8	µg/kg	SW846 8260C
m,p-Xylene	276	D	134	µg/kg	SW846 8260C
Methyl tert-butyl ether	30.1	J, D	66.8	µg/kg	SW846 8260C
Naphthalene	170	D	66.8	µg/kg	SW846 8260C
n-Butylbenzene	36.8	J, D	66.8	µg/kg	SW846 8260C
n-Propylbenzene	38.8	J, D	66.8	µg/kg	SW846 8260C
o-Xylene	64.2	J, D	66.8	µg/kg	SW846 8260C
sec-Butylbenzene	32.1	J, D	66.8	µg/kg	SW846 8260C
Toluene	123	D	66.8	µg/kg	SW846 8260C
Fluoranthene	483	J, D	806	µg/kg	SW846 8270D
Pyrene	467	J, D	806	µg/kg	SW846 8270D

Lab ID: SC42525-11RE1

Client ID: SS-010

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Ethanol	1260	J	1520	µg/kg	SW846 8260C

Lab ID: SC42525-12

Client ID: SS-011

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	786	D	152	mg/kg	8015DM
Other Oil	Calculated as		152	mg/kg	8015DM
Unidentified	786	D	152	mg/kg	8015DM
Arsenic	16.4		1.75	mg/kg	SW846 6010C
Barium	102		1.16	mg/kg	SW846 6010C
Cadmium	1.37		0.582	mg/kg	SW846 6010C
Chromium	14.6		1.16	mg/kg	SW846 6010C
Lead	39.2		1.75	mg/kg	SW846 6010C
Selenium	0.466	J	1.75	mg/kg	SW846 6010C
Mercury	0.0766		0.0305	mg/kg	SW846 7471B
Gasoline Range Organics (C6-C10)	2.5	J, D	7.7	mg/kg	SW846 8015D
Aroclor-1262	29.6		11.5	µg/kg	SW846 8082A
2,4-D [2C]	11.6		7.74	µg/kg	SW846 8151A
Benzo (a) anthracene	109	J, D	156	µg/kg	SW846 8270D
Benzo (a) pyrene	136	J, D	156	µg/kg	SW846 8270D
Benzo (b) fluoranthene	121	J, D	156	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	139	J, D	156	µg/kg	SW846 8270D
Benzo (k) fluoranthene	130	J, D	156	µg/kg	SW846 8270D
Chrysene	144	J, D	156	µg/kg	SW846 8270D
Fluoranthene	244	D	156	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	113	J, D	156	µg/kg	SW846 8270D
Phenanthrene	135	J, D	156	µg/kg	SW846 8270D
Pyrene	208	D	156	µg/kg	SW846 8270D

Lab ID: SC42525-13

Client ID: SS-012

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	1890	D	155	mg/kg	8015DM
Other Oil	Calculated as		155	mg/kg	8015DM
Unidentified	1890	D	155	mg/kg	8015DM
Arsenic	15.7		1.76	mg/kg	SW846 6010C
Barium	96.6		1.17	mg/kg	SW846 6010C
Cadmium	2.04		0.586	mg/kg	SW846 6010C
Chromium	18.3		1.17	mg/kg	SW846 6010C
Lead	54.6		1.75	mg/kg	SW846 6010C
Mercury	0.0894		0.0333	mg/kg	SW846 7471B
Gasoline Range Organics (C6-C10)	1.8	J, D	6.8	mg/kg	SW846 8015D
Aroclor-1268	192		11.7	µg/kg	SW846 8082A
2,4-D [2C]	9.35		7.83	µg/kg	SW846 8151A

Lab ID: SC42525-14

Client ID: SS-013

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	1970	D	166	mg/kg	8015DM
Other Oil	Calculated as		166	mg/kg	8015DM
Unidentified	1970	D	166	mg/kg	8015DM
Arsenic	24.6		1.90	mg/kg	SW846 6010C
Barium	87.3		1.26	mg/kg	SW846 6010C
Cadmium	1.32		0.632	mg/kg	SW846 6010C
Chromium	14.9		1.26	mg/kg	SW846 6010C
Lead	127		1.90	mg/kg	SW846 6010C
Mercury	0.370		0.0368	mg/kg	SW846 7471B
Gasoline Range Organics (C6-C10)	2.5	J, D	8.3	mg/kg	SW846 8015D
2,4-D [2C]	6.68	J	8.39	µg/kg	SW846 8151A
Anthracene	1120	J, D	1700	µg/kg	SW846 8270D
Benzo (a) anthracene	2770	D	1700	µg/kg	SW846 8270D
Benzo (a) pyrene	2920	D	1700	µg/kg	SW846 8270D
Benzo (b) fluoranthene	2080	D	1700	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	1940	D	1700	µg/kg	SW846 8270D
Benzo (k) fluoranthene	2850	D	1700	µg/kg	SW846 8270D
Chrysene	2820	D	1700	µg/kg	SW846 8270D
Fluoranthene	6870	D	1700	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	1810	D	1700	µg/kg	SW846 8270D
Phenanthrene	4810	D	1700	µg/kg	SW846 8270D
Pyrene	5940	D	1700	µg/kg	SW846 8270D

Lab ID: SC42525-15

Client ID: SS-014

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	458	D	62.2	mg/kg	8015DM
Other Oil	Calculated as		62.2	mg/kg	8015DM
Unidentified	458	D	62.2	mg/kg	8015DM
Arsenic	12.1		1.75	mg/kg	SW846 6010C
Barium	55.3		1.17	mg/kg	SW846 6010C
Cadmium	1.03		0.583	mg/kg	SW846 6010C
Chromium	12.3		1.17	mg/kg	SW846 6010C
Lead	34.6		1.76	mg/kg	SW846 6010C
Mercury	0.184		0.0334	mg/kg	SW846 7471B
2,4-D	9.33		7.82	µg/kg	SW846 8151A
Benzo (a) anthracene	84.1	J, D	157	µg/kg	SW846 8270D
Benzo (a) pyrene	109	J, D	157	µg/kg	SW846 8270D
Benzo (b) fluoranthene	76.2	J, D	157	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	125	J, D	157	µg/kg	SW846 8270D
Benzo (k) fluoranthene	99.0	J, D	157	µg/kg	SW846 8270D
Bis(2-chloroethyl)ether	165	J, D	394	µg/kg	SW846 8270D
Chrysene	131	J, D	157	µg/kg	SW846 8270D
Fluoranthene	157	D	157	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	58.9	J, D	157	µg/kg	SW846 8270D
Phenanthrene	132	J, D	157	µg/kg	SW846 8270D
Pyrene	182	D	157	µg/kg	SW846 8270D

Lab ID: SC42525-16

Client ID: SS-015

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	1110	D	153	mg/kg	8015DM
Other Oil	Calculated as		153	mg/kg	8015DM
Unidentified	1110	D	153	mg/kg	8015DM
Arsenic	11.0		1.73	mg/kg	SW846 6010C
Barium	57.0		1.15	mg/kg	SW846 6010C
Cadmium	0.691		0.577	mg/kg	SW846 6010C
Chromium	9.19		1.15	mg/kg	SW846 6010C
Lead	46.4		1.74	mg/kg	SW846 6010C
Mercury	0.705	D	0.168	mg/kg	SW846 7471B
Gasoline Range Organics (C6-C10)	1.5	J, D	6.7	mg/kg	SW846 8015D
2,4-D [2C]	18.4	P	7.69	µg/kg	SW846 8151A

Lab ID: SC42525-17

Client ID: SS-FD

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	1130	D	155	mg/kg	8015DM
Other Oil	Calculated as		155	mg/kg	8015DM
Unidentified	1130	D	155	mg/kg	8015DM
Arsenic	12.4		1.77	mg/kg	SW846 6010C
Barium	66.3		1.18	mg/kg	SW846 6010C
Cadmium	0.873		0.590	mg/kg	SW846 6010C
Chromium	10.9		1.18	mg/kg	SW846 6010C
Lead	44.3		1.76	mg/kg	SW846 6010C
Mercury	0.577	D	0.171	mg/kg	SW846 7471B
Gasoline Range Organics (C6-C10)	1.5	J, D	6.1	mg/kg	SW846 8015D
2,4-D [2C]	7.80	J	7.84	µg/kg	SW846 8151A

Lab ID: SC42525-18

Client ID: SS-016

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	610	D	58.3	mg/kg	8015DM
Other Oil	Calculated as		58.3	mg/kg	8015DM
Unidentified	610	D	58.3	mg/kg	8015DM
Arsenic	13.6		1.65	mg/kg	SW846 6010C
Barium	70.6		1.10	mg/kg	SW846 6010C
Cadmium	1.17		0.549	mg/kg	SW846 6010C
Chromium	13.1		1.10	mg/kg	SW846 6010C
Lead	52.0		1.67	mg/kg	SW846 6010C
Mercury	1.00	D	0.152	mg/kg	SW846 7471B
Gasoline Range Organics (C6-C10)	2.3	J, D	5.6	mg/kg	SW846 8015D
2,4-D [2C]	15.3		7.30	µg/kg	SW846 8151A
Bis(2-chloroethyl)ether	2550	D	1850	µg/kg	SW846 8270D

Lab ID: SC42525-19

Client ID: SS-017

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	133	D	56.5	mg/kg	8015DM
Other Oil	Calculated as		56.5	mg/kg	8015DM
Unidentified	133	D	56.5	mg/kg	8015DM
Arsenic	7.68		1.63	mg/kg	SW846 6010C
Barium	40.2		1.08	mg/kg	SW846 6010C
Cadmium	0.561		0.542	mg/kg	SW846 6010C
Chromium	6.05		1.08	mg/kg	SW846 6010C
Lead	29.3		1.62	mg/kg	SW846 6010C
Mercury	0.147		0.0289	mg/kg	SW846 7471B
Gasoline Range Organics (C6-C10)	1.1	J, D	4.7	mg/kg	SW846 8015D
2,4-D	14.2		7.14	µg/kg	SW846 8151A
Bis(2-chloroethyl)ether	178	J, D	361	µg/kg	SW846 8270D
Fluoranthene	95.8	J, D	144	µg/kg	SW846 8270D
Phenanthrene	74.9	J, D	144	µg/kg	SW846 8270D
Pyrene	82.1	J, D	144	µg/kg	SW846 8270D

This laboratory report is not valid without an authorized signature on the cover page.

Lab ID: SC42525-20

Client ID: SS-018

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	247	D	65.8	mg/kg	8015DM
Other Oil	Calculated as		65.8	mg/kg	8015DM
Unidentified	247	D	65.8	mg/kg	8015DM
Arsenic	6.21		1.88	mg/kg	SW846 6010C
Barium	51.4		1.26	mg/kg	SW846 6010C
Cadmium	0.850		0.628	mg/kg	SW846 6010C
Chromium	8.70		1.26	mg/kg	SW846 6010C
Lead	14.4		1.88	mg/kg	SW846 6010C
Selenium	0.420	J	1.88	mg/kg	SW846 6010C
Mercury	0.0774		0.0331	mg/kg	SW846 7471B
2,4-D [2C]	14.1		8.34	µg/kg	SW846 8151A
Ethanol	303	J	1470	µg/kg	SW846 8260C
Benzo (a) pyrene	440	J, D	839	µg/kg	SW846 8270D
Benzo (b) fluoranthene	449	J, D	839	µg/kg	SW846 8270D
Benzo (k) fluoranthene	356	J, D	839	µg/kg	SW846 8270D
Chrysene	428	J, D	839	µg/kg	SW846 8270D
Fluoranthene	847	D	839	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	344	J, D	839	µg/kg	SW846 8270D
Pyrene	658	J, D	839	µg/kg	SW846 8270D

Lab ID: SC42525-21

Client ID: SS-019

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	913	D	155	mg/kg	8015DM
Other Oil	Calculated as		155	mg/kg	8015DM
Unidentified	913	D	155	mg/kg	8015DM
Arsenic	12.5		1.77	mg/kg	SW846 6010C
Barium	125		1.18	mg/kg	SW846 6010C
Cadmium	1.19		0.590	mg/kg	SW846 6010C
Chromium	13.0		1.18	mg/kg	SW846 6010C
Lead	114		1.77	mg/kg	SW846 6010C
Mercury	4.84	GS1, D	0.658	mg/kg	SW846 7471B
Gasoline Range Organics (C6-C10)	3.1	J, D	7.1	mg/kg	SW846 8015D
2,4-D [2C]	8.56		7.82	µg/kg	SW846 8151A
Bis(2-chloroethyl)ether	999	D	986	µg/kg	SW846 8270D
Fluoranthene	226	J, D	394	µg/kg	SW846 8270D
Phenanthrene	216	J, D	394	µg/kg	SW846 8270D
Pyrene	228	J, D	394	µg/kg	SW846 8270D

Lab ID: SC42525-22

Client ID: SS-020

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	256	D	157	mg/kg	8015DM
Other Oil	Calculated as		157	mg/kg	8015DM
Unidentified	256	D	157	mg/kg	8015DM
Arsenic	5.99		1.76	mg/kg	SW846 6010C
Barium	41.6		1.17	mg/kg	SW846 6010C
Cadmium	0.707		0.585	mg/kg	SW846 6010C
Chromium	8.28		1.17	mg/kg	SW846 6010C
Lead	11.9		1.76	mg/kg	SW846 6010C
Benzo (a) anthracene	811	D	792	µg/kg	SW846 8270D
Benzo (a) pyrene	784	J, D	792	µg/kg	SW846 8270D
Benzo (b) fluoranthene	887	D	792	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	424	J, D	792	µg/kg	SW846 8270D
Benzo (k) fluoranthene	610	J, D	792	µg/kg	SW846 8270D
Chrysene	1000	D	792	µg/kg	SW846 8270D
Fluoranthene	2270	D	792	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	447	J, D	792	µg/kg	SW846 8270D
Phenanthrene	788	J, D	792	µg/kg	SW846 8270D
Pyrene	1630	D	792	µg/kg	SW846 8270D

Lab ID: SC42525-22RE1

Client ID: SS-020

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Ethanol	1360		1230	µg/kg	SW846 8260C

Lab ID: SC42525-23

Client ID: SS-021

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	1550	D	148	mg/kg	8015DM
Other Oil	Calculated as		148	mg/kg	8015DM
Unidentified	1550	D	148	mg/kg	8015DM
Arsenic	10.5		1.69	mg/kg	SW846 6010C
Barium	58.2		1.13	mg/kg	SW846 6010C
Cadmium	1.73		0.565	mg/kg	SW846 6010C
Chromium	10.7		1.13	mg/kg	SW846 6010C
Lead	49.6		1.69	mg/kg	SW846 6010C
Mercury	0.0516		0.0297	mg/kg	SW846 7471B
Gasoline Range Organics (C6-C10)	1.2	J, D	5.2	mg/kg	SW846 8015D
Aroclor-1260	30.6		22.3	µg/kg	SW846 8082A
2,4-D	11.2		7.50	µg/kg	SW846 8151A
Anthracene	4090	D	3020	µg/kg	SW846 8270D
Benzo (a) anthracene	19600	D	3020	µg/kg	SW846 8270D
Benzo (a) pyrene	17000	D	3020	µg/kg	SW846 8270D
Benzo (b) fluoranthene	19600	D	3020	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	9410	D	3020	µg/kg	SW846 8270D
Benzo (k) fluoranthene	14500	D	3020	µg/kg	SW846 8270D
Chrysene	22500	D	3020	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	2460	J, D	3020	µg/kg	SW846 8270D
Fluoranthene	53100	D	3020	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	10000	D	3020	µg/kg	SW846 8270D
Phenanthrene	27800	D	3020	µg/kg	SW846 8270D
Pyrene	43500	D	3020	µg/kg	SW846 8270D

Lab ID: SC42525-24

Client ID: SS-022

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	1320	D	164	mg/kg	8015DM
Other Oil	Calculated as		164	mg/kg	8015DM
Unidentified	1320	D	164	mg/kg	8015DM
Arsenic	7.51		1.86	mg/kg	SW846 6010C
Barium	52.1		1.24	mg/kg	SW846 6010C
Cadmium	0.901		0.619	mg/kg	SW846 6010C
Chromium	9.59		1.24	mg/kg	SW846 6010C
Lead	23.6		1.86	mg/kg	SW846 6010C
Mercury	0.0354		0.0335	mg/kg	SW846 7471B
2,4-D [2C]	14.7		8.22	µg/kg	SW846 8151A
Acenaphthene	1190	J, D	1670	µg/kg	SW846 8270D
Anthracene	2880	D	1670	µg/kg	SW846 8270D
Benzo (a) anthracene	13200	D	1670	µg/kg	SW846 8270D
Benzo (a) pyrene	12100	D	1670	µg/kg	SW846 8270D
Benzo (b) fluoranthene	12600	D	1670	µg/kg	SW846 8270D
Benzo (g,h,i) perylene	6650	D	1670	µg/kg	SW846 8270D
Benzo (k) fluoranthene	13000	D	1670	µg/kg	SW846 8270D
Chrysene	15000	D	1670	µg/kg	SW846 8270D
Dibenzo (a,h) anthracene	1640	J, D	1670	µg/kg	SW846 8270D
Dibenzofuran	776	J, D	4180	µg/kg	SW846 8270D
Fluoranthene	40300	D	1670	µg/kg	SW846 8270D
Fluorene	1250	J, D	1670	µg/kg	SW846 8270D
Indeno (1,2,3-cd) pyrene	7540	D	1670	µg/kg	SW846 8270D
Phenanthrene	20400	D	1670	µg/kg	SW846 8270D
Pyrene	28100	D	1670	µg/kg	SW846 8270D

Lab ID: SC42525-25

Client ID: SS-023

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	801	D	168	mg/kg	8015DM
Other Oil	Calculated as		168	mg/kg	8015DM
Unidentified	801	D	168	mg/kg	8015DM
Arsenic	14.5		1.90	mg/kg	SW846 6010C
Barium	86.9		1.27	mg/kg	SW846 6010C
Cadmium	0.969		0.634	mg/kg	SW846 6010C
Chromium	12.0		1.27	mg/kg	SW846 6010C
Lead	64.8		1.90	mg/kg	SW846 6010C
Selenium	0.450	J	1.90	mg/kg	SW846 6010C
Mercury	0.632	GS1, D0.0762		mg/kg	SW846 7471B
2,4-D [2C]	21.3	P	8.57	µg/kg	SW846 8151A
Fluoranthene	515	J, D	851	µg/kg	SW846 8270D
Pyrene	476	J, D	851	µg/kg	SW846 8270D

Lab ID: SC42525-26

Client ID: SS-024

Parameter	Result	Flag	Reporting Limit	Units	Analytical Method
Diesel Range Organics (DRO) C10-C28	610	D	169	mg/kg	8015DM
Other Oil	Calculated as		169	mg/kg	8015DM
Unidentified	610	D	169	mg/kg	8015DM
Arsenic	12.2		1.91	mg/kg	SW846 6010C
Barium	104		1.27	mg/kg	SW846 6010C
Cadmium	0.938		0.637	mg/kg	SW846 6010C
Chromium	12.2		1.27	mg/kg	SW846 6010C
Lead	50.2		1.91	mg/kg	SW846 6010C
Mercury	1.63	GS1, D0.345		mg/kg	SW846 7471B
2,4-D	15.4		8.59	µg/kg	SW846 8151A
Benzo (a) pyrene	337	J, D	854	µg/kg	SW846 8270D
Benzo (k) fluoranthene	337	J, D	854	µg/kg	SW846 8270D
Chrysene	499	J, D	854	µg/kg	SW846 8270D
Fluoranthene	986	D	854	µg/kg	SW846 8270D
Phenanthrene	499	J, D	854	µg/kg	SW846 8270D
Pyrene	871	D	854	µg/kg	SW846 8270D

Please note that because there are no reporting limits associated with hazardous waste characterizations or micro analyses, this summary does not include hits from these analyses if included in this work order.

Sample Identification

SS-001

SC42525-01

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

12-Dec-17 12:45

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction				BD	1720930
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
Initial weight: 4.79 g													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 6.80	U	µg/kg dry	6.80	3.45	1	SW846 8260C	21-Dec-17	21-Dec-17	GMA	1721132	X
67-64-1	Acetone	< 68.0	U	µg/kg dry	68.0	27.2	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 6.80	U	µg/kg dry	6.80	6.53	1	"	"	"	"	"	X
71-43-2	Benzene	< 6.80	U	µg/kg dry	6.80	1.80	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 6.80	U	µg/kg dry	6.80	1.82	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 6.80	U	µg/kg dry	6.80	3.43	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 6.80	U	µg/kg dry	6.80	4.53	1	"	"	"	"	"	X
75-25-2	Bromoform	< 6.80	U	µg/kg dry	6.80	6.49	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 13.6	U	µg/kg dry	13.6	6.14	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 13.6	U	µg/kg dry	13.6	12.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 6.80	U	µg/kg dry	6.80	1.94	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 6.80	U	µg/kg dry	6.80	1.24	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 6.80	U	µg/kg dry	6.80	1.52	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 13.6	U	µg/kg dry	13.6	4.35	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 6.80	U	µg/kg dry	6.80	5.56	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 6.80	U	µg/kg dry	6.80	2.13	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 13.6	U	µg/kg dry	13.6	3.77	1	"	"	"	"	"	X
67-66-3	Chloroform	< 6.80	U	µg/kg dry	6.80	3.65	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 13.6	U	µg/kg dry	13.6	2.81	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 6.80	U	µg/kg dry	6.80	1.69	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 6.80	U	µg/kg dry	6.80	1.60	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 13.6	U	µg/kg dry	13.6	9.82	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 6.80	U	µg/kg dry	6.80	4.61	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 6.80	U	µg/kg dry	6.80	4.56	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 6.80	U	µg/kg dry	6.80	3.54	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 6.80	U	µg/kg dry	6.80	1.77	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 6.80	U	µg/kg dry	6.80	1.48	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 6.80	U	µg/kg dry	6.80	2.01	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 13.6	U	µg/kg dry	13.6	2.58	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 6.80	U	µg/kg dry	6.80	1.78	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 6.80	U	µg/kg dry	6.80	2.43	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 6.80	U	µg/kg dry	6.80	3.56	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 6.80	U	µg/kg dry	6.80	2.52	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 6.80	U	µg/kg dry	6.80	3.60	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 6.80	U	µg/kg dry	6.80	3.56	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 6.80	U	µg/kg dry	6.80	3.52	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 6.80	U	µg/kg dry	6.80	3.21	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 6.80	U	µg/kg dry	6.80	2.19	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 6.80	U	µg/kg dry	6.80	4.10	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 6.80	U	µg/kg dry	6.80	3.57	1	"	"	"	"	"	X

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Sample Identification

SS-001

SC42525-01

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

12-Dec-17 12:45

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 4.79 g

100-41-4	Ethylbenzene	< 6.80	U	µg/kg dry	6.80	0.98	1	SW846 8260C	21-Dec-17	21-Dec-17	GMA	1721132	X
87-68-3	Hexachlorobutadiene	< 6.80	U	µg/kg dry	6.80	3.41	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 13.6	U	µg/kg dry	13.6	8.34	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 6.80	U	µg/kg dry	6.80	1.34	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 6.80	U	µg/kg dry	6.80	1.46	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 6.80	U	µg/kg dry	6.80	2.50	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 13.6	U	µg/kg dry	13.6	3.49	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 13.6	U	µg/kg dry	13.6	2.70	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 6.80	U	µg/kg dry	6.80	4.04	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 6.80	U	µg/kg dry	6.80	1.10	1	"	"	"	"	"	X
100-42-5	Styrene	< 6.80	U	µg/kg dry	6.80	1.37	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 6.80	U	µg/kg dry	6.80	5.78	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 6.80	U	µg/kg dry	6.80	5.75	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 6.80	U	µg/kg dry	6.80	2.32	1	"	"	"	"	"	X
108-88-3	Toluene	< 6.80	U	µg/kg dry	6.80	2.20	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 6.80	U	µg/kg dry	6.80	2.39	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 6.80	U	µg/kg dry	6.80	5.01	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 6.80	U	µg/kg dry	6.80	2.13	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 6.80	U	µg/kg dry	6.80	2.26	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 6.80	U	µg/kg dry	6.80	4.93	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 6.80	U	µg/kg dry	6.80	1.86	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 6.80	U	µg/kg dry	6.80	3.66	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 6.80	U	µg/kg dry	6.80	5.10	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 6.80	U	µg/kg dry	6.80	1.65	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 6.80	U	µg/kg dry	6.80	1.17	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 6.80	U	µg/kg dry	6.80	2.30	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 13.6	U	µg/kg dry	13.6	1.22	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 6.80	U	µg/kg dry	6.80	1.90	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 13.6	U	µg/kg dry	13.6	10.7	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 6.80	U	µg/kg dry	6.80	6.16	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 6.80	U	µg/kg dry	6.80	2.27	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 6.80	U	µg/kg dry	6.80	3.66	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 6.80	U	µg/kg dry	6.80	1.26	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 68.0	U	µg/kg dry	68.0	44.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 136	U	µg/kg dry	136	118	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 34.0	U	µg/kg dry	34.0	15.5	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1360	U	µg/kg dry	1360	254	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	89		70-130 %		"	"	"	"	"	"	"	
2037-26-5	Toluene-d8	98		70-130 %		"	"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	129		70-130 %		"	"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	109		70-130 %		"	"	"	"	"	"	"	

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SC42525-01

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Matrix

Soil

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Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 13.34 g

Gasoline Range Organics (C6-C10)	< 7.3	U, D, GRO	mg/kg dry	7.3	1.5	50	SW846 8015D	20-Dec-17	20-Dec-17	SD	1721038	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	108		70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MSPrepared by method SW846 5035A Soil (low level)Initial weight: 4.79 g

Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	21-Dec-17	21-Dec-17	GMA	1721132	

Semivolatile Organic Compounds by GCMSSemivolatile Organic CompoundsPrepared by method SW846 3546

R01

83-32-9	Acenaphthene	< 7650	U, D	µg/kg dry	7650	3810	20	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
208-96-8	Acenaphthylene	< 7650	U, D	µg/kg dry	7650	3770	20	"	"	"	"	"	X
62-53-3	Aniline	< 37900	U, D	µg/kg dry	37900	2720	20	"	"	"	"	"	X
120-12-7	Anthracene	< 7650	U, D	µg/kg dry	7650	3660	20	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 37900	U, D	µg/kg dry	37900	3720	20	"	"	"	"	"	
92-87-5	Benzidine	< 37900	U, D	µg/kg dry	37900	7620	20	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 7650	U, D	µg/kg dry	7650	4040	20	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 7650	U, D	µg/kg dry	7650	2850	20	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 7650	U, D	µg/kg dry	7650	3710	20	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 7650	U, D	µg/kg dry	7650	3070	20	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 7650	U, D	µg/kg dry	7650	2990	20	"	"	"	"	"	X
65-85-0	Benzoic acid	< 37900	U, D	µg/kg dry	37900	7950	20	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 37900	U, D	µg/kg dry	37900	3100	20	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 37900	U, D	µg/kg dry	37900	3360	20	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 19200	U, D	µg/kg dry	19200	2740	20	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 19200	U, D	µg/kg dry	19200	2950	20	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 19200	U, D	µg/kg dry	19200	4730	20	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 37900	U, D	µg/kg dry	37900	3550	20	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 37900	U, D	µg/kg dry	37900	4420	20	"	"	"	"	"	X
86-74-8	Carbazole	< 19200	U, D	µg/kg dry	19200	10700	20	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 37900	U, D	µg/kg dry	37900	3610	20	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 19200	U, D	µg/kg dry	19200	4140	20	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 37900	U, D	µg/kg dry	37900	3500	20	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 19200	U, D	µg/kg dry	19200	3410	20	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 37900	U, D	µg/kg dry	37900	4500	20	"	"	"	"	"	X
218-01-9	Chrysene	< 7650	U, D	µg/kg dry	7650	3820	20	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 7650	U, D	µg/kg dry	7650	2940	20	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 19200	U, D	µg/kg dry	19200	2910	20	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 37900	U, D	µg/kg dry	37900	3300	20	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 37900	U, D	µg/kg dry	37900	3300	20	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 37900	U, D	µg/kg dry	37900	3510	20	"	"	"	"	"	X

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Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
			R01										
91-94-1	3,3'-Dichlorobenzidine	< 37900	U, D	µg/kg dry	37900	5760	20	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
120-83-2	2,4-Dichlorophenol	< 19200	U, D	µg/kg dry	19200	3580	20	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 37900	U, D	µg/kg dry	37900	4680	20	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 37900	U, D	µg/kg dry	37900	4140	20	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 37900	U, D	µg/kg dry	37900	2710	20	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 37900	U, D	µg/kg dry	37900	4010	20	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 37900	U, D	µg/kg dry	37900	4860	20	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 37900	U, D	µg/kg dry	37900	3850	20	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 19200	U, D	µg/kg dry	19200	7410	20	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 19200	U, D	µg/kg dry	19200	4310	20	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 37900	U, D	µg/kg dry	37900	4280	20	"	"	"	"	"	X
206-44-0	Fluoranthene	< 7650	U, D	µg/kg dry	7650	4040	20	"	"	"	"	"	X
86-73-7	Fluorene	< 7650	U, D	µg/kg dry	7650	3890	20	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 19200	U, D	µg/kg dry	19200	3770	20	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 19200	U, D	µg/kg dry	19200	4580	20	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 19200	U, D	µg/kg dry	19200	2600	20	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 19200	U, D	µg/kg dry	19200	4130	20	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 7650	U, D	µg/kg dry	7650	2750	20	"	"	"	"	"	X
78-59-1	Isophorone	< 19200	U, D	µg/kg dry	19200	3590	20	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 7650	U, D	µg/kg dry	7650	4620	20	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 37900	U, D	µg/kg dry	37900	3220	20	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 37900	U, D	µg/kg dry	37900	3660	20	"	"	"	"	"	X
91-20-3	Naphthalene	< 7650	U, D	µg/kg dry	7650	3570	20	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 37900	U, D	µg/kg dry	37900	3210	20	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 37900	U, D	µg/kg dry	37900	5170	20	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 19200	U, D	µg/kg dry	19200	5900	20	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 19200	U, D	µg/kg dry	19200	3490	20	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 19200	U, D	µg/kg dry	19200	3180	20	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 151000	U, D	µg/kg dry	151000	6120	20	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 19200	U, D	µg/kg dry	19200	3560	20	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 19200	U, D	µg/kg dry	19200	3730	20	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 37900	U, D	µg/kg dry	37900	4110	20	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 37900	U, D	µg/kg dry	37900	4040	20	"	"	"	"	"	X
85-01-8	Phenanthrene	< 7650	U, D	µg/kg dry	7650	3560	20	"	"	"	"	"	X
108-95-2	Phenol	< 37900	U, D	µg/kg dry	37900	2490	20	"	"	"	"	"	X
129-00-0	Pyrene	< 7650	U, D	µg/kg dry	7650	4270	20	"	"	"	"	"	X
110-86-1	Pyridine	< 37900	U, D	µg/kg dry	37900	5640	20	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 37900	U, D	µg/kg dry	37900	3750	20	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 7650	U, D	µg/kg dry	7650	3760	20	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 37900	U, D	µg/kg dry	37900	3410	20	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 19200	U, D	µg/kg dry	19200	3420	20	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 37900	U, D	µg/kg dry	37900	5980	20	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 37900	U, D	µg/kg dry	37900	3670	20	"	"	"	"	"	X

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Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	82			30-130 %			SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	
367-12-4	2-Fluorophenol	74			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	68			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	60			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	90			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	56			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

R01

Tentatively Identified Compounds	None found			µg/kg dry			20	SW846 8270D TICS	"	"	MSL	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 11.4	U	µg/kg dry	11.4	5.10	1	SW846 8082A	21-Dec-17	28-Dec-17	AM	1721117	X
11104-28-2	Aroclor-1221	< 11.4	U	µg/kg dry	11.4	6.06	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 11.4	U	µg/kg dry	11.4	5.70	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 11.4	U	µg/kg dry	11.4	11.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 11.4	U	µg/kg dry	11.4	10.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 11.4	U	µg/kg dry	11.4	7.45	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	9.11	J	µg/kg dry	11.4	6.61	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 11.4	U	µg/kg dry	11.4	9.93	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 11.4	U	µg/kg dry	11.4	5.14	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	55			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3550CMethylation date: 20-Dec-17

93-76-5	2,4,5-T	< 7.65	U	µg/kg dry	7.65	4.17	1	SW846 8151A	20-Dec-17	04-Jan-18	SM	1721032	X
93-72-1	2,4,5-TP (Silvex)	< 7.65	U	µg/kg dry	7.65	3.15	1	"	"	"	"	"	X
94-75-7	2,4-D	< 7.65	U	µg/kg dry	7.65	2.72	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 7.65	U	µg/kg dry	7.65	5.79	1	"	"	"	"	"	X
75-99-0	Dalapon	< 7.65	U	µg/kg dry	7.65	3.06	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 7.65	U	µg/kg dry	7.65	3.12	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 7.65	U	µg/kg dry	7.65	5.59	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 7.65	U	µg/kg dry	7.65	3.11	1	"	"	"	"	"	X
94-74-6	MCPA	< 2570	U	µg/kg dry	2570	1140	1	"	"	"	"	"	X
94-81-5	MCPB	< 2570	U	µg/kg dry	2570	1140	1	"	"	"	"	"	
93-65-2	MCPB	< 2570	U	µg/kg dry	2570	1140	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	105			30-150 %			"	"	"	"	"	

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Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

HerbicidesChlorinated HerbicidesMethylation date: 20-Dec-17

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150 %			SW846 8151A	20-Dec-17	04-Jan-18	SM	1721032	
2552-89-8	DCAA (Sr)	60			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	60			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 56.9	U, D	µg/kg dry	56.9	15.3	10	SW846 8081B	21-Dec-17	04-Jan-18	SM	1721116	X
319-85-7	beta-BHC	< 56.9	U, D	µg/kg dry	56.9	22.6	10	"	"	"	"	"	X
319-86-8	delta-BHC	< 56.9	U, D	µg/kg dry	56.9	16.4	10	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 34.2	U, D	µg/kg dry	34.2	16.4	10	"	"	"	"	"	X
76-44-8	Heptachlor	< 56.9	U, D	µg/kg dry	56.9	19.0	10	"	"	"	"	"	X
309-00-2	Aldrin	< 56.9	U, D	µg/kg dry	56.9	17.5	10	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 56.9	U, D	µg/kg dry	56.9	20.2	10	"	"	"	"	"	X
959-98-8	Endosulfan I	< 56.9	U, D	µg/kg dry	56.9	20.0	10	"	"	"	"	"	X
60-57-1	Dieldrin	< 56.9	U, D	µg/kg dry	56.9	20.0	10	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 56.9	U, D	µg/kg dry	56.9	18.0	10	"	"	"	"	"	X
72-20-8	Endrin	< 91.1	U, D	µg/kg dry	91.1	20.0	10	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 91.1	U, D	µg/kg dry	91.1	21.4	10	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 91.1	U, D	µg/kg dry	91.1	19.8	10	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 91.1	U, D	µg/kg dry	91.1	19.0	10	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 91.1	U, D	µg/kg dry	91.1	17.5	10	"	"	"	"	"	X
72-43-5	Methoxychlor	< 91.1	U, D	µg/kg dry	91.1	20.2	10	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 91.1	U, D	µg/kg dry	91.1	20.5	10	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 91.1	U, D	µg/kg dry	91.1	19.0	10	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 56.9	U, D	µg/kg dry	56.9	19.5	10	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 56.9	U, D	µg/kg dry	56.9	20.5	10	"	"	"	"	"	X
8001-35-2	Toxaphene	< 1140	U, D	µg/kg dry	1140	246	10	"	"	"	"	"	X
57-74-9	Chlordane	< 228	U, D	µg/kg dry	228	225	10	"	"	"	"	"	X
15972-60-8	Alachlor	< 56.9	U, D	µg/kg dry	56.9	27.9	10	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	91			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	89			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	132			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	107			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 303	U, D	mg/kg dry	303	202	10	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
68476-31-3	Fuel Oil #4	< 303	U, D	mg/kg dry	303	303	10	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 303	U, D	mg/kg dry	303	303	10	"	"	"	"	"	
M09800000	Motor Oil	< 303	U, D	mg/kg dry	303	303	10	"	"	"	"	"	
J00100000	Aviation Fuel	< 303	U, D	mg/kg dry	303	303	10	"	"	"	"	"	

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Sample Identification

SS-001

SC42525-01

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

12-Dec-17 12:45

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons													
Diesel Range Organics				R01									
	Unidentified	1,040	D	mg/kg dry	303	303	10	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
	Other Oil	Calculated as		mg/kg dry	303	303	10	"	"	"	"	"	
	Diesel Range Organics (DRO) C10-C28	1,040	D,DRO	mg/kg dry	303	202	10	"	"	"	"	"	X
Surrogate recoveries:													
3386-33-2	1-Chlorooctadecane	85			40-140 %			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
<u>Prepared by method SW846 3050B</u>													
7440-22-4	Silver	< 1.73	U	mg/kg dry	1.73	0.187	1	SW846 6010C	28-Dec-17	10-Jan-18	SJR/T	1721203	X
7440-38-2	Arsenic	9.40		mg/kg dry	1.73	0.219	1	"	"	"	"	"	X
7440-39-3	Barium	73.0		mg/kg dry	1.15	0.136	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.878		mg/kg dry	0.577	0.0299	1	"	"	"	"	"	X
7440-47-3	Chromium	10.1		mg/kg dry	1.15	0.153	1	"	"	"	"	"	X
7439-97-6	Mercury	0.171		mg/kg dry	0.0318	0.0088	1	SW846 7471B	03-Jan-18	05-Jan-18	ABW	1721204	X
<u>Prepared by method SW846 3051A</u>													
7439-92-1	Lead	50.8		mg/kg dry	1.71	0.242	1	SW846 6010C	11-Jan-18	12-Jan-18	SJR/T	1800406	X
<u>Prepared by method SW846 3050B</u>													
7782-49-2	Selenium	0.450	J	mg/kg dry	1.73	0.330	1	"	28-Dec-17	10-Jan-18	"	1721203	X
General Chemistry Parameters													
	% Solids	86.6		%			1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720888	
Toxicity Characteristics													
	Ignitability by Definition	Negative	IgHT	N/A			1	SW846 1030	19-Dec-17 10:54	19-Dec-17 12:05	BD	1720970	X
Reactivity Cyanide/Sulfide													
	Reactivity	See Narrative		mg/kg dry			1	SW846 Ch. 7.3	20-Dec-17	28-Dec-17	TN	1721061	
57-12-5	Reactive Cyanide	< 24.5	U	mg/kg dry	24.5	24.5	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 48.9	U	mg/kg dry	48.9	48.9	1	"	"	"	"	"	

Sample Identification

SS-002

SC42525-02

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

12-Dec-17 13:15

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			BD	1720930	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
Initial weight: 5.37 g													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 8.15	U	µg/kg dry	8.15	4.13	1	SW846 8260C	21-Dec-17	21-Dec-17	GMA	1721132	X
67-64-1	Acetone	< 81.5	U	µg/kg dry	81.5	32.6	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 8.15	U	µg/kg dry	8.15	7.83	1	"	"	"	"	"	X
71-43-2	Benzene	< 8.15	U	µg/kg dry	8.15	2.16	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 8.15	U	µg/kg dry	8.15	2.18	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 8.15	U	µg/kg dry	8.15	4.12	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 8.15	U	µg/kg dry	8.15	5.44	1	"	"	"	"	"	X
75-25-2	Bromoform	< 8.15	U	µg/kg dry	8.15	7.78	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 16.3	U	µg/kg dry	16.3	7.36	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 16.3	U	µg/kg dry	16.3	14.6	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 8.15	U	µg/kg dry	8.15	2.33	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 8.15	U	µg/kg dry	8.15	1.48	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 8.15	U	µg/kg dry	8.15	1.83	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 16.3	U	µg/kg dry	16.3	5.22	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 8.15	U	µg/kg dry	8.15	6.67	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 8.15	U	µg/kg dry	8.15	2.55	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 16.3	U	µg/kg dry	16.3	4.52	1	"	"	"	"	"	X
67-66-3	Chloroform	< 8.15	U	µg/kg dry	8.15	4.38	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 16.3	U	µg/kg dry	16.3	3.37	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 8.15	U	µg/kg dry	8.15	2.03	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 8.15	U	µg/kg dry	8.15	1.92	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 16.3	U	µg/kg dry	16.3	11.8	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 8.15	U	µg/kg dry	8.15	5.53	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 8.15	U	µg/kg dry	8.15	5.47	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 8.15	U	µg/kg dry	8.15	4.24	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 8.15	U	µg/kg dry	8.15	2.12	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 8.15	U	µg/kg dry	8.15	1.77	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 8.15	U	µg/kg dry	8.15	2.41	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 16.3	U	µg/kg dry	16.3	3.09	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 8.15	U	µg/kg dry	8.15	2.14	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 8.15	U	µg/kg dry	8.15	2.92	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 8.15	U	µg/kg dry	8.15	4.26	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 8.15	U	µg/kg dry	8.15	3.02	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 8.15	U	µg/kg dry	8.15	4.32	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 8.15	U	µg/kg dry	8.15	4.27	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 8.15	U	µg/kg dry	8.15	4.22	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 8.15	U	µg/kg dry	8.15	3.85	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 8.15	U	µg/kg dry	8.15	2.62	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 8.15	U	µg/kg dry	8.15	4.92	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 8.15	U	µg/kg dry	8.15	4.28	1	"	"	"	"	"	X

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Sample Identification

SS-002

SC42525-02

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

12-Dec-17 13:15

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 5.37 g

100-41-4	Ethylbenzene	< 8.15	U	µg/kg dry	8.15	1.17	1	SW846 8260C	21-Dec-17	21-Dec-17	GMA	1721132	X
87-68-3	Hexachlorobutadiene	< 8.15	U	µg/kg dry	8.15	4.09	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 16.3	U	µg/kg dry	16.3	10.0	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 8.15	U	µg/kg dry	8.15	1.61	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 8.15	U	µg/kg dry	8.15	1.75	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 8.15	U	µg/kg dry	8.15	3.00	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 16.3	U	µg/kg dry	16.3	4.19	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 16.3	U	µg/kg dry	16.3	3.24	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 8.15	U	µg/kg dry	8.15	4.85	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 8.15	U	µg/kg dry	8.15	1.32	1	"	"	"	"	"	X
100-42-5	Styrene	< 8.15	U	µg/kg dry	8.15	1.64	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 8.15	U	µg/kg dry	8.15	6.93	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 8.15	U	µg/kg dry	8.15	6.90	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 8.15	U	µg/kg dry	8.15	2.79	1	"	"	"	"	"	X
108-88-3	Toluene	< 8.15	U	µg/kg dry	8.15	2.64	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 8.15	U	µg/kg dry	8.15	2.86	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 8.15	U	µg/kg dry	8.15	6.01	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 8.15	U	µg/kg dry	8.15	2.56	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 8.15	U	µg/kg dry	8.15	2.71	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 8.15	U	µg/kg dry	8.15	5.91	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 8.15	U	µg/kg dry	8.15	2.23	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 8.15	U	µg/kg dry	8.15	4.39	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 8.15	U	µg/kg dry	8.15	6.11	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 8.15	U	µg/kg dry	8.15	1.98	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 8.15	U	µg/kg dry	8.15	1.40	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 8.15	U	µg/kg dry	8.15	2.76	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 16.3	U	µg/kg dry	16.3	1.47	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 8.15	U	µg/kg dry	8.15	2.28	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 16.3	U	µg/kg dry	16.3	12.8	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 8.15	U	µg/kg dry	8.15	7.39	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 8.15	U	µg/kg dry	8.15	2.72	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 8.15	U	µg/kg dry	8.15	4.39	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 8.15	U	µg/kg dry	8.15	1.52	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 81.5	U	µg/kg dry	81.5	53.3	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 163	U	µg/kg dry	163	142	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 40.8	U	µg/kg dry	40.8	18.6	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1630	U	µg/kg dry	1630	304	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	104		70-130 %		"	"	"	"	"	"	"	
2037-26-5	Toluene-d8	95		70-130 %		"	"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	128		70-130 %		"	"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	109		70-130 %		"	"	"	"	"	"	"	

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Sample Identification

SS-002

SC42525-02

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

12-Dec-17 13:15

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 12.29 g

	Gasoline Range Organics (C6-C10)	< 10.1	U, D, GRO	mg/kg dry	10.1	2.0	50	SW846 8015D	20-Dec-17	20-Dec-17	SD	1721038	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	106			70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MS

J N

Prepared by method SW846 5035A Soil (low level)Initial weight: 5.37 g

80-56-8	.alpha.-Pinene	68		µg/kg dry			1	SW846 8260C TICs	21-Dec-17	21-Dec-17	GMA	1721132	
127-91-3	Bicyclo[3.1.1]heptane, 6,6-...	27		µg/kg dry			1	"	"	"	"	"	
005794-03-6	Bicyclo[2.2.1]heptane, 2,2-...	85		µg/kg dry			1	"	"	"	"	"	
13466-78-9	3-Carene	16		µg/kg dry			1	"	"	"	"	"	

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Prepared by method SW846 3546

83-32-9	Acenaphthene	< 1810	U, D	µg/kg dry	1810	900	20	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
208-96-8	Acenaphthylene	< 1810	U, D	µg/kg dry	1810	892	20	"	"	"	"	"	X
62-53-3	Aniline	< 8950	U, D	µg/kg dry	8950	643	20	"	"	"	"	"	X
120-12-7	Anthracene	< 1810	U, D	µg/kg dry	1810	865	20	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 8950	U, D	µg/kg dry	8950	880	20	"	"	"	"	"	
92-87-5	Benzidine	< 8950	U, D	µg/kg dry	8950	1800	20	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 1810	U, D	µg/kg dry	1810	954	20	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 1810	U, D	µg/kg dry	1810	673	20	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 1810	U, D	µg/kg dry	1810	876	20	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 1810	U, D	µg/kg dry	1810	727	20	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 1810	U, D	µg/kg dry	1810	708	20	"	"	"	"	"	X
65-85-0	Benzoic acid	< 8950	U, D	µg/kg dry	8950	1880	20	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 8950	U, D	µg/kg dry	8950	733	20	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 8950	U, D	µg/kg dry	8950	794	20	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4530	U, D	µg/kg dry	4530	649	20	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4530	U, D	µg/kg dry	4530	697	20	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 4530	U, D	µg/kg dry	4530	1120	20	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 8950	U, D	µg/kg dry	8950	838	20	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 8950	U, D	µg/kg dry	8950	1040	20	"	"	"	"	"	X
86-74-8	Carbazole	< 4530	U, D	µg/kg dry	4530	2530	20	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 8950	U, D	µg/kg dry	8950	854	20	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4530	U, D	µg/kg dry	4530	979	20	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 8950	U, D	µg/kg dry	8950	827	20	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4530	U, D	µg/kg dry	4530	805	20	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 8950	U, D	µg/kg dry	8950	1060	20	"	"	"	"	"	X
218-01-9	Chrysene	< 1810	U, D	µg/kg dry	1810	903	20	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 1810	U, D	µg/kg dry	1810	694	20	"	"	"	"	"	X

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Sample Identification

SS-002

SC42525-02

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

12-Dec-17 13:15

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>			R01										
132-64-9	Dibenzofuran	< 4530	U, D	µg/kg dry	4530	689	20	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
95-50-1	1,2-Dichlorobenzene	< 8950	U, D	µg/kg dry	8950	781	20	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 8950	U, D	µg/kg dry	8950	781	20	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 8950	U, D	µg/kg dry	8950	830	20	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 8950	U, D	µg/kg dry	8950	1360	20	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 4530	U, D	µg/kg dry	4530	847	20	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 8950	U, D	µg/kg dry	8950	1110	20	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 8950	U, D	µg/kg dry	8950	979	20	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 8950	U, D	µg/kg dry	8950	640	20	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 8950	U, D	µg/kg dry	8950	949	20	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 8950	U, D	µg/kg dry	8950	1150	20	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 8950	U, D	µg/kg dry	8950	911	20	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4530	U, D	µg/kg dry	4530	1750	20	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4530	U, D	µg/kg dry	4530	1020	20	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 8950	U, D	µg/kg dry	8950	1010	20	"	"	"	"	"	X
206-44-0	Fluoranthene	1,080	J, D	µg/kg dry	1810	956	20	"	"	"	"	"	X
86-73-7	Fluorene	< 1810	U, D	µg/kg dry	1810	919	20	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4530	U, D	µg/kg dry	4530	891	20	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4530	U, D	µg/kg dry	4530	1080	20	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4530	U, D	µg/kg dry	4530	615	20	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4530	U, D	µg/kg dry	4530	976	20	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 1810	U, D	µg/kg dry	1810	651	20	"	"	"	"	"	X
78-59-1	Isophorone	< 4530	U, D	µg/kg dry	4530	849	20	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 1810	U, D	µg/kg dry	1810	1090	20	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 8950	U, D	µg/kg dry	8950	761	20	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 8950	U, D	µg/kg dry	8950	865	20	"	"	"	"	"	X
91-20-3	Naphthalene	< 1810	U, D	µg/kg dry	1810	843	20	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 8950	U, D	µg/kg dry	8950	759	20	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 8950	U, D	µg/kg dry	8950	1220	20	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4530	U, D	µg/kg dry	4530	1390	20	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4530	U, D	µg/kg dry	4530	824	20	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4530	U, D	µg/kg dry	4530	751	20	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 35800	U, D	µg/kg dry	35800	1450	20	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4530	U, D	µg/kg dry	4530	841	20	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4530	U, D	µg/kg dry	4530	882	20	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 8950	U, D	µg/kg dry	8950	970	20	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 8950	U, D	µg/kg dry	8950	956	20	"	"	"	"	"	X
85-01-8	Phenanthrene	< 1810	U, D	µg/kg dry	1810	842	20	"	"	"	"	"	X
108-95-2	Phenol	< 8950	U, D	µg/kg dry	8950	589	20	"	"	"	"	"	X
129-00-0	Pyrene	1,010	J, D	µg/kg dry	1810	1010	20	"	"	"	"	"	X
110-86-1	Pyridine	< 8950	U, D	µg/kg dry	8950	1330	20	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 8950	U, D	µg/kg dry	8950	887	20	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1810	U, D	µg/kg dry	1810	889	20	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 8950	U, D	µg/kg dry	8950	805	20	"	"	"	"	"	X

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Sample Identification

SS-002

SC42525-02

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

12-Dec-17 13:15

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

88-06-2	2,4,6-Trichlorophenol	< 4530	U, D	µg/kg dry	4530	808	20	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
82-68-8	Pentachloronitrobenzene	< 8950	U, D	µg/kg dry	8950	1410	20	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzen e	< 8950	U, D	µg/kg dry	8950	868	20	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	73			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	64			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	66			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	56			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	73			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	58			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

R01

	Tentatively Identified Compounds	None found		µg/kg dry			20	SW846 8270D TICS	"	"	MSL	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 13.4	U	µg/kg dry	13.4	6.01	1	SW846 8082A	21-Dec-17	28-Dec-17	AM	1721117	X
11104-28-2	Aroclor-1221	< 13.4	U	µg/kg dry	13.4	7.14	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 13.4	U	µg/kg dry	13.4	6.71	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 13.4	U	µg/kg dry	13.4	13.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 13.4	U	µg/kg dry	13.4	12.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 13.4	U	µg/kg dry	13.4	8.77	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	< 13.4	U	µg/kg dry	13.4	7.79	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 13.4	U	µg/kg dry	13.4	11.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 13.4	U	µg/kg dry	13.4	6.05	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	55			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	55			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3550CMethylation date: 20-Dec-17

93-76-5	2,4,5-T	< 9.00	U	µg/kg dry	9.00	4.90	1	SW846 8151A	20-Dec-17	04-Jan-18	SM	1721032	X
93-72-1	2,4,5-TP (Silvex)	< 9.00	U	µg/kg dry	9.00	3.70	1	"	"	"	"	"	X
94-75-7	2,4-D	< 9.00	U	µg/kg dry	9.00	3.20	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 9.00	U	µg/kg dry	9.00	6.80	1	"	"	"	"	"	X
75-99-0	Dalapon	< 9.00	U	µg/kg dry	9.00	3.60	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 9.00	U	µg/kg dry	9.00	3.67	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 9.00	U	µg/kg dry	9.00	6.58	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 9.00	U	µg/kg dry	9.00	3.65	1	"	"	"	"	"	X
94-74-6	MCPA	< 3020	U	µg/kg dry	3020	1340	1	"	"	"	"	"	X
94-81-5	MCPB	< 3020	U	µg/kg dry	3020	1340	1	"	"	"	"	"	

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Sample Identification

SS-002

SC42525-02

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

12-Dec-17 13:15

Received

18-Dec-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.

HerbicidesChlorinated HerbicidesMethylation date: 20-Dec-17

93-65-2	MCPPP	< 3020	U	µg/kg dry	3020	1340	1	SW846 8151A	20-Dec-17	04-Jan-18	SM	1721032	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	135			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	125			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr)	65			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	90			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 67.1	U, D	µg/kg dry	67.1	18.0	10	SW846 8081B	21-Dec-17	04-Jan-18	SM	1721116	X
319-85-7	beta-BHC	< 67.1	U, D	µg/kg dry	67.1	26.6	10	"	"	"	"	"	X
319-86-8	delta-BHC	< 67.1	U, D	µg/kg dry	67.1	19.3	10	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 40.2	U, D	µg/kg dry	40.2	19.3	10	"	"	"	"	"	X
76-44-8	Heptachlor	< 67.1	U, D	µg/kg dry	67.1	22.4	10	"	"	"	"	"	X
309-00-2	Aldrin	< 67.1	U, D	µg/kg dry	67.1	20.7	10	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 67.1	U, D	µg/kg dry	67.1	23.7	10	"	"	"	"	"	X
959-98-8	Endosulfan I	< 67.1	U, D	µg/kg dry	67.1	23.6	10	"	"	"	"	"	X
60-57-1	Dieldrin	< 67.1	U, D	µg/kg dry	67.1	23.6	10	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 67.1	U, D	µg/kg dry	67.1	21.2	10	"	"	"	"	"	X
72-20-8	Endrin	< 107	U, D	µg/kg dry	107	23.6	10	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 107	U, D	µg/kg dry	107	25.2	10	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 107	U, D	µg/kg dry	107	23.3	10	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 107	U, D	µg/kg dry	107	22.4	10	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 107	U, D	µg/kg dry	107	20.7	10	"	"	"	"	"	X
72-43-5	Methoxychlor	< 107	U, D	µg/kg dry	107	23.7	10	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 107	U, D	µg/kg dry	107	24.1	10	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 107	U, D	µg/kg dry	107	22.4	10	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 67.1	U, D	µg/kg dry	67.1	22.9	10	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 67.1	U, D	µg/kg dry	67.1	24.1	10	"	"	"	"	"	X
8001-35-2	Toxaphene	< 1340	U, D	µg/kg dry	1340	290	10	"	"	"	"	"	X
57-74-9	Chlordane	< 268	U, D	µg/kg dry	268	265	10	"	"	"	"	"	X
15972-60-8	Alachlor	< 67.1	U, D	µg/kg dry	67.1	32.9	10	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	88			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	140			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	111			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 177	U, D	mg/kg dry	177	118	5	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	

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Sample Identification

SS-002

SC42525-02

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

12-Dec-17 13:15

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons													
Diesel Range Organics													
			R01										
68476-31-3	Fuel Oil #4	< 177	U, D	mg/kg dry	177	177	5	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
68553-00-4	Fuel Oil #6	< 177	U, D	mg/kg dry	177	177	5	"	"	"	"	"	
M09800000	Motor Oil	< 177	U, D	mg/kg dry	177	177	5	"	"	"	"	"	
J00100000	Aviation Fuel	< 177	U, D	mg/kg dry	177	177	5	"	"	"	"	"	
	Unidentified	737	D	mg/kg dry	177	177	5	"	"	"	"	"	
	Other Oil	Calculated as		mg/kg dry	177	177	5	"	"	"	"	"	
	Diesel Range Organics (DRO) C10-C28	737	D,DRO	mg/kg dry	177	118	5	"	"	"	"	"	X
Surrogate recoveries:													
3386-33-2	1-Chlorooctadecane	82			40-140 %			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-22-4	Silver	< 2.02	U	mg/kg dry	2.02	0.218	1	SW846 6010C	28-Dec-17	10-Jan-18	SJR/T	1721203	X
7440-38-2	Arsenic	11.8		mg/kg dry	2.02	0.255	1	"	"	"	"	"	X
7440-39-3	Barium	80.8		mg/kg dry	1.34	0.159	1	"	"	"	"	"	X
7440-43-9	Cadmium	1.08		mg/kg dry	0.672	0.0348	1	"	"	"	"	"	X
7440-47-3	Chromium	12.2		mg/kg dry	1.34	0.179	1	"	"	"	"	"	X
7439-97-6	Mercury	0.119		mg/kg dry	0.0378	0.0105	1	SW846 7471B	03-Jan-18	05-Jan-18	ABW	1721204	X
Prepared by method SW846 3051A													
7439-92-1	Lead	69.4		mg/kg dry	2.02	0.285	1	SW846 6010C	11-Jan-18	12-Jan-18	SJR/T	1800406	X
Prepared by method SW846 3050B													
7782-49-2	Selenium	< 2.02	U	mg/kg dry	2.02	0.384	1	"	28-Dec-17	10-Jan-18	"	1721203	X
General Chemistry Parameters													
	% Solids	73.4		%			1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720888	
Toxicity Characteristics													
	Ignitability by Definition	Negative	IgHT	N/A			1	SW846 1030	19-Dec-17 10:54	19-Dec-17 12:05	BD	1720970	X
Reactivity Cyanide/Sulfide													
	Reactivity	See Narrative		mg/kg dry			1	SW846 Ch. 7.3	20-Dec-17	28-Dec-17	TN	1721061	
57-12-5	Reactive Cyanide	< 23.1	U	mg/kg dry	23.1	23.1	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 46.1	U	mg/kg dry	46.1	46.1	1	"	"	"	"	"	

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Sample Identification

SS-003

SC42525-03

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

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Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			BD	1720930	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (high level)</u>													
Initial weight: 12.49 g													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 78.6	U, D	µg/kg dry	78.6	39.8	50	SW846 8260C	22-Dec-17	22-Dec-17	GMA	1721215	X
67-64-1	Acetone	< 78.6	U, D	µg/kg dry	78.6	314	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 78.6	U, D	µg/kg dry	78.6	75.5	50	"	"	"	"	"	X
71-43-2	Benzene	< 78.6	U, D	µg/kg dry	78.6	20.8	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 78.6	U, D	µg/kg dry	78.6	21.0	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 78.6	U, D	µg/kg dry	78.6	39.7	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 78.6	U, D	µg/kg dry	78.6	52.4	50	"	"	"	"	"	X
75-25-2	Bromoform	< 78.6	U, D	µg/kg dry	78.6	75.0	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 157	U, D	µg/kg dry	157	71.0	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 157	U, D	µg/kg dry	157	140	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 78.6	U, D	µg/kg dry	78.6	22.5	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 78.6	U, D	µg/kg dry	78.6	14.3	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 78.6	U, D	µg/kg dry	78.6	17.6	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 157	U, D	µg/kg dry	157	50.3	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 78.6	U, D	µg/kg dry	78.6	64.3	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 78.6	U, D	µg/kg dry	78.6	24.6	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 157	U, D	µg/kg dry	157	43.6	50	"	"	"	"	"	X
67-66-3	Chloroform	< 78.6	U, D	µg/kg dry	78.6	42.2	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 157	U, D	µg/kg dry	157	32.5	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 78.6	U, D	µg/kg dry	78.6	19.6	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 78.6	U, D	µg/kg dry	78.6	18.5	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 157	U, D	µg/kg dry	157	114	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 78.6	U, D	µg/kg dry	78.6	53.3	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 78.6	U, D	µg/kg dry	78.6	52.7	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 78.6	U, D	µg/kg dry	78.6	40.9	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 78.6	U, D	µg/kg dry	78.6	20.4	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 78.6	U, D	µg/kg dry	78.6	17.1	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 78.6	U, D	µg/kg dry	78.6	23.3	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 157	U, D	µg/kg dry	157	29.8	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 78.6	U, D	µg/kg dry	78.6	20.6	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 78.6	U, D	µg/kg dry	78.6	28.1	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 78.6	U, D	µg/kg dry	78.6	41.1	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 78.6	U, D	µg/kg dry	78.6	29.2	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 78.6	U, D	µg/kg dry	78.6	41.6	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 78.6	U, D	µg/kg dry	78.6	41.2	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 78.6	U, D	µg/kg dry	78.6	40.7	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 78.6	U, D	µg/kg dry	78.6	37.1	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 78.6	U, D	µg/kg dry	78.6	25.3	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 78.6	U, D	µg/kg dry	78.6	47.4	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 78.6	U, D	µg/kg dry	78.6	41.3	50	"	"	"	"	"	X

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Matrix

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CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260			VOC8										
Initial weight: 12.49 g													
100-41-4	Ethylbenzene	< 78.6	U, D	µg/kg dry	78.6	11.3	50	SW846 8260C	22-Dec-17	22-Dec-17	GMA	1721215	X
87-68-3	Hexachlorobutadiene	< 78.6	U, D	µg/kg dry	78.6	39.4	50	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 157	U, D	µg/kg dry	157	96.4	50	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 78.6	U, D	µg/kg dry	78.6	15.5	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 78.6	U, D	µg/kg dry	78.6	16.9	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	36.9	J, D	µg/kg dry	78.6	28.9	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 157	U, D	µg/kg dry	157	40.4	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 157	U, D	µg/kg dry	157	31.2	50	"	"	"	"	"	X
91-20-3	Naphthalene	84.1	D	µg/kg dry	78.6	46.8	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 78.6	U, D	µg/kg dry	78.6	12.7	50	"	"	"	"	"	X
100-42-5	Styrene	< 78.6	U, D	µg/kg dry	78.6	15.8	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 78.6	U, D	µg/kg dry	78.6	66.8	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 78.6	U, D	µg/kg dry	78.6	66.5	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 78.6	U, D	µg/kg dry	78.6	26.9	50	"	"	"	"	"	X
108-88-3	Toluene	< 78.6	U, D	µg/kg dry	78.6	25.5	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 78.6	U, D	µg/kg dry	78.6	27.6	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 78.6	U, D	µg/kg dry	78.6	57.9	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 78.6	U, D	µg/kg dry	78.6	24.7	50	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 78.6	U, D	µg/kg dry	78.6	26.1	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 78.6	U, D	µg/kg dry	78.6	57.0	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 78.6	U, D	µg/kg dry	78.6	21.5	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 78.6	U, D	µg/kg dry	78.6	42.4	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 78.6	U, D	µg/kg dry	78.6	58.9	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 78.6	U, D	µg/kg dry	78.6	19.1	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 78.6	U, D	µg/kg dry	78.6	13.5	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 78.6	U, D	µg/kg dry	78.6	26.6	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 157	U, D	µg/kg dry	157	14.1	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 78.6	U, D	µg/kg dry	78.6	22.0	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 157	U, D	µg/kg dry	157	124	50	"	"	"	"	"	X
60-29-7	Ethyl ether	< 78.6	U, D	µg/kg dry	78.6	71.2	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 78.6	U, D	µg/kg dry	78.6	26.2	50	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 78.6	U, D	µg/kg dry	78.6	42.4	50	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 78.6	U, D	µg/kg dry	78.6	14.6	50	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 786	U, D	µg/kg dry	786	514	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 1570	U, D	µg/kg dry	1570	1360	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 393	U, D	µg/kg dry	393	179	50	"	"	"	"	"	X
64-17-5	Ethanol	< 15700	U, D	µg/kg dry	15700	2930	50	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	4-Bromofluorobenzene	102			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	101			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	104			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	102			70-130 %			"	"	"	"	"	

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Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 12.51 g

Gasoline Range Organics (C6-C10)	< 7.8	U, D, GRO	mg/kg dry	7.8	1.6	50	SW846 8015D	20-Dec-17	20-Dec-17	SD	1721038	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	110		70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MSPrepared by method SW846 5035A Soil (high level)Initial weight: 12.49 g

Tentatively Identified Compounds	None found		µg/kg dry			50	SW846 8260C TICs	22-Dec-17	22-Dec-17	GMA	1721215	

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Prepared by method SW846 3546

83-32-9	Acenaphthene	< 389	U, D	µg/kg dry	389	194	5	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
208-96-8	Acenaphthylene	< 389	U, D	µg/kg dry	389	192	5	"	"	"	"	"	X
62-53-3	Aniline	< 1920	U, D	µg/kg dry	1920	138	5	"	"	"	"	"	X
120-12-7	Anthracene	< 389	U, D	µg/kg dry	389	186	5	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 1920	U, D	µg/kg dry	1920	189	5	"	"	"	"	"	
92-87-5	Benzidine	< 1920	U, D	µg/kg dry	1920	387	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	243	J, D	µg/kg dry	389	205	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	241	J, D	µg/kg dry	389	145	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	241	J, D	µg/kg dry	389	188	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	175	J, D	µg/kg dry	389	156	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	188	J, D	µg/kg dry	389	152	5	"	"	"	"	"	X
65-85-0	Benzoic acid	< 1920	U, D	µg/kg dry	1920	404	5	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 1920	U, D	µg/kg dry	1920	158	5	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 1920	U, D	µg/kg dry	1920	171	5	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 974	U, D	µg/kg dry	974	139	5	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 974	U, D	µg/kg dry	974	150	5	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 974	U, D	µg/kg dry	974	240	5	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 1920	U, D	µg/kg dry	1920	180	5	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 1920	U, D	µg/kg dry	1920	224	5	"	"	"	"	"	X
86-74-8	Carbazole	< 974	U, D	µg/kg dry	974	543	5	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 1920	U, D	µg/kg dry	1920	184	5	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 974	U, D	µg/kg dry	974	210	5	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 1920	U, D	µg/kg dry	1920	178	5	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 974	U, D	µg/kg dry	974	173	5	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 1920	U, D	µg/kg dry	1920	229	5	"	"	"	"	"	X
218-01-9	Chrysene	262	J, D	µg/kg dry	389	194	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 389	U, D	µg/kg dry	389	149	5	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 974	U, D	µg/kg dry	974	148	5	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1920	U, D	µg/kg dry	1920	168	5	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1920	U, D	µg/kg dry	1920	168	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1920	U, D	µg/kg dry	1920	178	5	"	"	"	"	"	X

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Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
R01													
91-94-1	3,3'-Dichlorobenzidine	< 1920	U, D	µg/kg dry	1920	293	5	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
120-83-2	2,4-Dichlorophenol	< 974	U, D	µg/kg dry	974	182	5	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 1920	U, D	µg/kg dry	1920	238	5	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 1920	U, D	µg/kg dry	1920	210	5	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 1920	U, D	µg/kg dry	1920	138	5	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 1920	U, D	µg/kg dry	1920	204	5	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 1920	U, D	µg/kg dry	1920	247	5	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 1920	U, D	µg/kg dry	1920	196	5	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 974	U, D	µg/kg dry	974	377	5	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 974	U, D	µg/kg dry	974	219	5	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 1920	U, D	µg/kg dry	1920	217	5	"	"	"	"	"	X
206-44-0	Fluoranthene	497	D	µg/kg dry	389	205	5	"	"	"	"	"	X
86-73-7	Fluorene	< 389	U, D	µg/kg dry	389	198	5	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 974	U, D	µg/kg dry	974	192	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 974	U, D	µg/kg dry	974	233	5	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 974	U, D	µg/kg dry	974	132	5	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 974	U, D	µg/kg dry	974	210	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	167	J, D	µg/kg dry	389	140	5	"	"	"	"	"	X
78-59-1	Isophorone	< 974	U, D	µg/kg dry	974	182	5	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 389	U, D	µg/kg dry	389	235	5	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 1920	U, D	µg/kg dry	1920	164	5	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 1920	U, D	µg/kg dry	1920	186	5	"	"	"	"	"	X
91-20-3	Naphthalene	< 389	U, D	µg/kg dry	389	181	5	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 1920	U, D	µg/kg dry	1920	163	5	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 1920	U, D	µg/kg dry	1920	263	5	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 974	U, D	µg/kg dry	974	300	5	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 974	U, D	µg/kg dry	974	177	5	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 974	U, D	µg/kg dry	974	161	5	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 7700	U, D	µg/kg dry	7700	311	5	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 974	U, D	µg/kg dry	974	181	5	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 974	U, D	µg/kg dry	974	190	5	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 1920	U, D	µg/kg dry	1920	209	5	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 1920	U, D	µg/kg dry	1920	206	5	"	"	"	"	"	X
85-01-8	Phenanthrene	332	J, D	µg/kg dry	389	181	5	"	"	"	"	"	X
108-95-2	Phenol	< 1920	U, D	µg/kg dry	1920	127	5	"	"	"	"	"	X
129-00-0	Pyrene	523	D	µg/kg dry	389	217	5	"	"	"	"	"	X
110-86-1	Pyridine	< 1920	U, D	µg/kg dry	1920	287	5	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1920	U, D	µg/kg dry	1920	191	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 389	U, D	µg/kg dry	389	191	5	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 1920	U, D	µg/kg dry	1920	173	5	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 974	U, D	µg/kg dry	974	174	5	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 1920	U, D	µg/kg dry	1920	304	5	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 1920	U, D	µg/kg dry	1920	187	5	"	"	"	"	"	X

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Sample Identification

SS-003

SC42525-03

Client Project #

0172.0210M010

Matrix

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12-Dec-17 13:45

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	73			30-130 %			SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	
367-12-4	2-Fluorophenol	63			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	69			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	62			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	82			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	68			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

R01

Tentatively Identified Compounds	None found			µg/kg dry			5	SW846 8270D TICS	"	"	MSL	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 11.6	U	µg/kg dry	11.6	5.17	1	SW846 8082A	21-Dec-17	28-Dec-17	AM	1721117	X
11104-28-2	Aroclor-1221	< 11.6	U	µg/kg dry	11.6	6.15	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 11.6	U	µg/kg dry	11.6	5.78	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 11.6	U	µg/kg dry	11.6	11.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 11.6	U	µg/kg dry	11.6	10.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	115		µg/kg dry	11.6	11.2	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 11.6	U	µg/kg dry	11.6	6.19	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 11.6	U	µg/kg dry	11.6	10.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 11.6	U	µg/kg dry	11.6	5.21	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	55			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	55			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	145			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	120			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3550CMethylation date: 20-Dec-17

93-76-5	2,4,5-T	< 7.77	U	µg/kg dry	7.77	4.23	1	SW846 8151A	20-Dec-17	04-Jan-18	SM	1721032	X
93-72-1	2,4,5-TP (Silvex)	< 7.77	U	µg/kg dry	7.77	3.19	1	"	"	"	"	"	X
94-75-7	2,4-D	< 7.77	U	µg/kg dry	7.77	2.76	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 7.77	U	µg/kg dry	7.77	5.87	1	"	"	"	"	"	X
75-99-0	Dalapon	< 7.77	U	µg/kg dry	7.77	3.11	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 7.77	U	µg/kg dry	7.77	3.17	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 7.77	U	µg/kg dry	7.77	5.68	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 7.77	U	µg/kg dry	7.77	3.15	1	"	"	"	"	"	X
94-74-6	MCPA	< 2610	U	µg/kg dry	2610	1160	1	"	"	"	"	"	X
94-81-5	MCPB	< 2610	U	µg/kg dry	2610	1160	1	"	"	"	"	"	
93-65-2	MCPB	< 2610	U	µg/kg dry	2610	1160	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	120			30-150 %			"	"	"	"	"	

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

HerbicidesChlorinated HerbicidesMethylation date: 20-Dec-17

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	105			30-150 %			SW846 8151A	20-Dec-17	04-Jan-18	SM	1721032	
2552-89-8	DCAA (Sr)	70			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	80			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 57.8	U, D	µg/kg dry	57.8	15.5	10	SW846 8081B	21-Dec-17	04-Jan-18	SM	1721116	X
319-85-7	beta-BHC	< 57.8	U, D	µg/kg dry	57.8	22.9	10	"	"	"	"	"	X
319-86-8	delta-BHC	< 57.8	U, D	µg/kg dry	57.8	16.6	10	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 34.7	U, D	µg/kg dry	34.7	16.6	10	"	"	"	"	"	X
76-44-8	Heptachlor	< 57.8	U, D	µg/kg dry	57.8	19.3	10	"	"	"	"	"	X
309-00-2	Aldrin	< 57.8	U, D	µg/kg dry	57.8	17.8	10	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 57.8	U, D	µg/kg dry	57.8	20.4	10	"	"	"	"	"	X
959-98-8	Endosulfan I	< 57.8	U, D	µg/kg dry	57.8	20.3	10	"	"	"	"	"	X
60-57-1	Dieldrin	< 57.8	U, D	µg/kg dry	57.8	20.3	10	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 57.8	U, D	µg/kg dry	57.8	18.3	10	"	"	"	"	"	X
72-20-8	Endrin	< 92.4	U, D	µg/kg dry	92.4	20.3	10	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 92.4	U, D	µg/kg dry	92.4	21.7	10	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 92.4	U, D	µg/kg dry	92.4	20.1	10	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 92.4	U, D	µg/kg dry	92.4	19.3	10	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 92.4	U, D	µg/kg dry	92.4	17.8	10	"	"	"	"	"	X
72-43-5	Methoxychlor	< 92.4	U, D	µg/kg dry	92.4	20.4	10	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 92.4	U, D	µg/kg dry	92.4	20.8	10	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 92.4	U, D	µg/kg dry	92.4	19.3	10	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 57.8	U, D	µg/kg dry	57.8	19.8	10	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 57.8	U, D	µg/kg dry	57.8	20.8	10	"	"	"	"	"	X
8001-35-2	Toxaphene	< 1160	U, D	µg/kg dry	1160	250	10	"	"	"	"	"	X
57-74-9	Chlordane	< 231	U, D	µg/kg dry	231	228	10	"	"	"	"	"	X
15972-60-8	Alachlor	< 57.8	U, D	µg/kg dry	57.8	28.3	10	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	98			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	149			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 61.3	U, D	mg/kg dry	61.3	40.8	2	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
68476-31-3	Fuel Oil #4	< 61.3	U, D	mg/kg dry	61.3	61.3	2	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 61.3	U, D	mg/kg dry	61.3	61.3	2	"	"	"	"	"	
M09800000	Motor Oil	< 61.3	U, D	mg/kg dry	61.3	61.3	2	"	"	"	"	"	
J00100000	Aviation Fuel	< 61.3	U, D	mg/kg dry	61.3	61.3	2	"	"	"	"	"	

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Sample Identification

SS-003

SC42525-03

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

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Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons													
Diesel Range Organics				R01									
	Unidentified	377	D	mg/kg dry	61.3	61.3	2	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
	Other Oil	Calculated as		mg/kg dry	61.3	61.3	2	"	"	"	"	"	
	Diesel Range Organics (DRO) C10-C28	377	D,DRO	mg/kg dry	61.3	40.8	2	"	"	"	"	"	X
Surrogate recoveries:													
3386-33-2	1-Chlorooctadecane	106			40-140 %			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
<u>Prepared by method SW846 3050B</u>													
7440-22-4	Silver	< 1.75	U	mg/kg dry	1.75	0.189	1	SW846 6010C	28-Dec-17	10-Jan-18	SJR/T	1721203	X
7440-38-2	Arsenic	10.1		mg/kg dry	1.75	0.222	1	"	"	"	"	"	X
7440-39-3	Barium	64.4		mg/kg dry	1.17	0.138	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.816		mg/kg dry	0.583	0.0302	1	"	"	"	"	"	X
7440-47-3	Chromium	12.1		mg/kg dry	1.17	0.155	1	"	"	"	"	"	X
7439-97-6	Mercury	0.0974		mg/kg dry	0.0334	0.0093	1	SW846 7471B	03-Jan-18	05-Jan-18	ABW	1721204	X
<u>Prepared by method SW846 3051A</u>													
7439-92-1	Lead	58.2		mg/kg dry	1.74	0.246	1	SW846 6010C	11-Jan-18	12-Jan-18	SJR/T	1800406	X
<u>Prepared by method SW846 3050B</u>													
7782-49-2	Selenium	0.467	J	mg/kg dry	1.75	0.334	1	"	28-Dec-17	10-Jan-18	"	1721203	X
General Chemistry Parameters													
	% Solids	85.6		%			1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720888	
Toxicity Characteristics													
	Ignitability by Definition	Negative	IgHT	N/A			1	SW846 1030	19-Dec-17 10:54	19-Dec-17 12:05	BD	1720970	X
Reactivity Cyanide/Sulfide													
	Reactivity	See Narrative		mg/kg dry			1	SW846 Ch. 7.3	20-Dec-17	28-Dec-17	TN	1721061	
57-12-5	Reactive Cyanide	< 23.8	U	mg/kg dry	23.8	23.8	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 47.6	U	mg/kg dry	47.6	47.6	1	"	"	"	"	"	

Sample Identification

SS-FD

SC42525-04

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

12-Dec-17 14:00

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			BD	1720930	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
								Initial weight: 5.51 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 6.29	U	µg/kg dry	6.29	3.19	1	SW846 8260C	21-Dec-17	21-Dec-17	GMA	1721132	X
67-64-1	Acetone	< 62.9	U	µg/kg dry	62.9	25.1	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 6.29	U	µg/kg dry	6.29	6.04	1	"	"	"	"	"	X
71-43-2	Benzene	< 6.29	U	µg/kg dry	6.29	1.67	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 6.29	U	µg/kg dry	6.29	1.68	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 6.29	U	µg/kg dry	6.29	3.18	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 6.29	U	µg/kg dry	6.29	4.19	1	"	"	"	"	"	X
75-25-2	Bromoform	< 6.29	U	µg/kg dry	6.29	6.00	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 12.6	U	µg/kg dry	12.6	5.68	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 12.6	U	µg/kg dry	12.6	11.2	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 6.29	U	µg/kg dry	6.29	1.80	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 6.29	U	µg/kg dry	6.29	1.14	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 6.29	U	µg/kg dry	6.29	1.41	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 12.6	U	µg/kg dry	12.6	4.02	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 6.29	U	µg/kg dry	6.29	5.14	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 6.29	U	µg/kg dry	6.29	1.97	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 12.6	U	µg/kg dry	12.6	3.49	1	"	"	"	"	"	X
67-66-3	Chloroform	< 6.29	U	µg/kg dry	6.29	3.38	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 12.6	U	µg/kg dry	12.6	2.60	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 6.29	U	µg/kg dry	6.29	1.57	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 6.29	U	µg/kg dry	6.29	1.48	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 12.6	U	µg/kg dry	12.6	9.09	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 6.29	U	µg/kg dry	6.29	4.26	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 6.29	U	µg/kg dry	6.29	4.22	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 6.29	U	µg/kg dry	6.29	3.27	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 6.29	U	µg/kg dry	6.29	1.63	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 6.29	U	µg/kg dry	6.29	1.36	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 6.29	U	µg/kg dry	6.29	1.86	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 12.6	U	µg/kg dry	12.6	2.38	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 6.29	U	µg/kg dry	6.29	1.65	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 6.29	U	µg/kg dry	6.29	2.25	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 6.29	U	µg/kg dry	6.29	3.29	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 6.29	U	µg/kg dry	6.29	2.33	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 6.29	U	µg/kg dry	6.29	3.33	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 6.29	U	µg/kg dry	6.29	3.29	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 6.29	U	µg/kg dry	6.29	3.26	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 6.29	U	µg/kg dry	6.29	2.97	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 6.29	U	µg/kg dry	6.29	2.02	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 6.29	U	µg/kg dry	6.29	3.79	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 6.29	U	µg/kg dry	6.29	3.30	1	"	"	"	"	"	X

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Sample Identification

SS-FD

SC42525-04

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

12-Dec-17 14:00

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 5.51 g

100-41-4	Ethylbenzene	< 6.29	U	µg/kg dry	6.29	0.91	1	SW846 8260C	21-Dec-17	21-Dec-17	GMA	1721132	X
87-68-3	Hexachlorobutadiene	< 6.29	U	µg/kg dry	6.29	3.16	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 12.6	U	µg/kg dry	12.6	7.71	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 6.29	U	µg/kg dry	6.29	1.24	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 6.29	U	µg/kg dry	6.29	1.35	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 6.29	U	µg/kg dry	6.29	2.31	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 12.6	U	µg/kg dry	12.6	3.23	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 12.6	U	µg/kg dry	12.6	2.50	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 6.29	U	µg/kg dry	6.29	3.74	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 6.29	U	µg/kg dry	6.29	1.02	1	"	"	"	"	"	X
100-42-5	Styrene	< 6.29	U	µg/kg dry	6.29	1.26	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 6.29	U	µg/kg dry	6.29	5.34	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 6.29	U	µg/kg dry	6.29	5.32	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 6.29	U	µg/kg dry	6.29	2.15	1	"	"	"	"	"	X
108-88-3	Toluene	< 6.29	U	µg/kg dry	6.29	2.04	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 6.29	U	µg/kg dry	6.29	2.21	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 6.29	U	µg/kg dry	6.29	4.63	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 6.29	U	µg/kg dry	6.29	1.97	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 6.29	U	µg/kg dry	6.29	2.09	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 6.29	U	µg/kg dry	6.29	4.56	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 6.29	U	µg/kg dry	6.29	1.72	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 6.29	U	µg/kg dry	6.29	3.39	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 6.29	U	µg/kg dry	6.29	4.72	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 6.29	U	µg/kg dry	6.29	1.53	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 6.29	U	µg/kg dry	6.29	1.08	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 6.29	U	µg/kg dry	6.29	2.13	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 12.6	U	µg/kg dry	12.6	1.13	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 6.29	U	µg/kg dry	6.29	1.76	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 12.6	U	µg/kg dry	12.6	9.91	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 6.29	U	µg/kg dry	6.29	5.70	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 6.29	U	µg/kg dry	6.29	2.10	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 6.29	U	µg/kg dry	6.29	3.39	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 6.29	U	µg/kg dry	6.29	1.17	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 62.9	U	µg/kg dry	62.9	41.1	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 126	U	µg/kg dry	126	109	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 31.4	U	µg/kg dry	31.4	14.3	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1260	U	µg/kg dry	1260	235	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	93			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	128			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	107			70-130 %		"	"	"	"	"	"	

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Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 10.85 g

Gasoline Range Organics (C6-C10)	< 9.1	U, D, GRO	mg/kg dry	9.1	1.8	50	SW846 8015D	20-Dec-17	20-Dec-17	SD	1721038	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	108		70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MSPrepared by method SW846 5035A Soil (low level)Initial weight: 5.51 g

Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	21-Dec-17	21-Dec-17	GMA	1721132	

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Prepared by method SW846 3546

83-32-9	Acenaphthene	< 392	U, D	µg/kg dry	392	195	5	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
208-96-8	Acenaphthylene	< 392	U, D	µg/kg dry	392	194	5	"	"	"	"	"	X
62-53-3	Aniline	< 1940	U, D	µg/kg dry	1940	139	5	"	"	"	"	"	X
120-12-7	Anthracene	< 392	U, D	µg/kg dry	392	188	5	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 1940	U, D	µg/kg dry	1940	191	5	"	"	"	"	"	
92-87-5	Benzidine	< 1940	U, D	µg/kg dry	1940	391	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	498	D	µg/kg dry	392	207	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	416	D	µg/kg dry	392	146	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	373	J, D	µg/kg dry	392	190	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	284	J, D	µg/kg dry	392	158	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	353	J, D	µg/kg dry	392	154	5	"	"	"	"	"	X
65-85-0	Benzoic acid	< 1940	U, D	µg/kg dry	1940	408	5	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 1940	U, D	µg/kg dry	1940	159	5	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 1940	U, D	µg/kg dry	1940	172	5	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 983	U, D	µg/kg dry	983	141	5	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 983	U, D	µg/kg dry	983	151	5	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 983	U, D	µg/kg dry	983	242	5	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 1940	U, D	µg/kg dry	1940	182	5	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 1940	U, D	µg/kg dry	1940	227	5	"	"	"	"	"	X
86-74-8	Carbazole	< 983	U, D	µg/kg dry	983	548	5	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 1940	U, D	µg/kg dry	1940	185	5	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 983	U, D	µg/kg dry	983	212	5	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 1940	U, D	µg/kg dry	1940	179	5	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 983	U, D	µg/kg dry	983	175	5	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 1940	U, D	µg/kg dry	1940	231	5	"	"	"	"	"	X
218-01-9	Chrysene	467	D	µg/kg dry	392	196	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 392	U, D	µg/kg dry	392	151	5	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 983	U, D	µg/kg dry	983	149	5	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1940	U, D	µg/kg dry	1940	169	5	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1940	U, D	µg/kg dry	1940	169	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1940	U, D	µg/kg dry	1940	180	5	"	"	"	"	"	X

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Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
R01													
91-94-1	3,3'-Dichlorobenzidine	< 1940	U, D	µg/kg dry	1940	295	5	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
120-83-2	2,4-Dichlorophenol	< 983	U, D	µg/kg dry	983	184	5	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 1940	U, D	µg/kg dry	1940	240	5	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 1940	U, D	µg/kg dry	1940	212	5	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 1940	U, D	µg/kg dry	1940	139	5	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 1940	U, D	µg/kg dry	1940	206	5	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 1940	U, D	µg/kg dry	1940	249	5	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 1940	U, D	µg/kg dry	1940	198	5	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 983	U, D	µg/kg dry	983	380	5	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 983	U, D	µg/kg dry	983	221	5	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 1940	U, D	µg/kg dry	1940	219	5	"	"	"	"	"	X
206-44-0	Fluoranthene	1,170	D	µg/kg dry	392	207	5	"	"	"	"	"	X
86-73-7	Fluorene	< 392	U, D	µg/kg dry	392	199	5	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 983	U, D	µg/kg dry	983	193	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 983	U, D	µg/kg dry	983	235	5	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 983	U, D	µg/kg dry	983	134	5	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 983	U, D	µg/kg dry	983	212	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	277	J, D	µg/kg dry	392	141	5	"	"	"	"	"	X
78-59-1	Isophorone	< 983	U, D	µg/kg dry	983	184	5	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 392	U, D	µg/kg dry	392	237	5	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 1940	U, D	µg/kg dry	1940	165	5	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 1940	U, D	µg/kg dry	1940	188	5	"	"	"	"	"	X
91-20-3	Naphthalene	< 392	U, D	µg/kg dry	392	183	5	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 1940	U, D	µg/kg dry	1940	165	5	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 1940	U, D	µg/kg dry	1940	265	5	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 983	U, D	µg/kg dry	983	302	5	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 983	U, D	µg/kg dry	983	179	5	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 983	U, D	µg/kg dry	983	163	5	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 7770	U, D	µg/kg dry	7770	314	5	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 983	U, D	µg/kg dry	983	182	5	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 983	U, D	µg/kg dry	983	191	5	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 1940	U, D	µg/kg dry	1940	211	5	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 1940	U, D	µg/kg dry	1940	207	5	"	"	"	"	"	X
85-01-8	Phenanthrene	722	D	µg/kg dry	392	183	5	"	"	"	"	"	X
108-95-2	Phenol	< 1940	U, D	µg/kg dry	1940	128	5	"	"	"	"	"	X
129-00-0	Pyrene	986	D	µg/kg dry	392	219	5	"	"	"	"	"	X
110-86-1	Pyridine	< 1940	U, D	µg/kg dry	1940	289	5	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1940	U, D	µg/kg dry	1940	192	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 392	U, D	µg/kg dry	392	193	5	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 1940	U, D	µg/kg dry	1940	175	5	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 983	U, D	µg/kg dry	983	175	5	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 1940	U, D	µg/kg dry	1940	307	5	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 1940	U, D	µg/kg dry	1940	188	5	"	"	"	"	"	X

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Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	79			30-130 %			SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	
367-12-4	2-Fluorophenol	59			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	68			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	60			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	80			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	66			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

R01

Tentatively Identified Compounds	None found			µg/kg dry			5	SW846 8270D TICS	"	"	MSL	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 11.6	U	µg/kg dry	11.6	5.20	1	SW846 8082A	21-Dec-17	28-Dec-17	AM	1721117	X
11104-28-2	Aroclor-1221	< 11.6	U	µg/kg dry	11.6	6.18	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 11.6	U	µg/kg dry	11.6	5.81	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 11.6	U	µg/kg dry	11.6	11.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 11.6	U	µg/kg dry	11.6	10.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254 [2C]	29.5		µg/kg dry	11.6	11.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 11.6	U	µg/kg dry	11.6	6.22	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 11.6	U	µg/kg dry	11.6	10.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 11.6	U	µg/kg dry	11.6	5.24	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	60			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	60			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	150			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	115			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3550CMethylation date: 20-Dec-17

93-76-5	2,4,5-T	< 7.84	U	µg/kg dry	7.84	4.27	1	SW846 8151A	20-Dec-17	04-Jan-18	SM	1721032	X
93-72-1	2,4,5-TP (Silvex)	< 7.84	U	µg/kg dry	7.84	3.22	1	"	"	"	"	"	X
94-75-7	2,4-D	< 7.84	U	µg/kg dry	7.84	2.79	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 7.84	U	µg/kg dry	7.84	5.93	1	"	"	"	"	"	X
75-99-0	Dalapon	< 7.84	U	µg/kg dry	7.84	3.13	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 7.84	U	µg/kg dry	7.84	3.19	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 7.84	U	µg/kg dry	7.84	5.73	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 7.84	U	µg/kg dry	7.84	3.18	1	"	"	"	"	"	X
94-74-6	MCPA	< 2630	U	µg/kg dry	2630	1170	1	"	"	"	"	"	X
94-81-5	MCPB	< 2630	U	µg/kg dry	2630	1170	1	"	"	"	"	"	
93-65-2	MCPB	< 2630	U	µg/kg dry	2630	1170	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	140			30-150 %			"	"	"	"	"	

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Sample Identification

SS-FD

SC42525-04

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

12-Dec-17 14:00

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

HerbicidesChlorinated HerbicidesMethylation date: 20-Dec-17

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	145			30-150 %			SW846 8151A	20-Dec-17	04-Jan-18	SM	1721032	
2552-89-8	DCAA (Sr)	95			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	135			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 58.1	U, D	µg/kg dry	58.1	15.6	10	SW846 8081B	21-Dec-17	04-Jan-18	SM	1721116	X
319-85-7	beta-BHC	< 58.1	U, D	µg/kg dry	58.1	23.0	10	"	"	"	"	"	X
319-86-8	delta-BHC	< 58.1	U, D	µg/kg dry	58.1	16.7	10	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 34.9	U, D	µg/kg dry	34.9	16.7	10	"	"	"	"	"	X
76-44-8	Heptachlor	< 58.1	U, D	µg/kg dry	58.1	19.4	10	"	"	"	"	"	X
309-00-2	Aldrin	< 58.1	U, D	µg/kg dry	58.1	17.9	10	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 58.1	U, D	µg/kg dry	58.1	20.6	10	"	"	"	"	"	X
959-98-8	Endosulfan I	< 58.1	U, D	µg/kg dry	58.1	20.4	10	"	"	"	"	"	X
60-57-1	Dieldrin	< 58.1	U, D	µg/kg dry	58.1	20.4	10	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 58.1	U, D	µg/kg dry	58.1	18.4	10	"	"	"	"	"	X
72-20-8	Endrin	< 92.9	U, D	µg/kg dry	92.9	20.4	10	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 92.9	U, D	µg/kg dry	92.9	21.8	10	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 92.9	U, D	µg/kg dry	92.9	20.2	10	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 92.9	U, D	µg/kg dry	92.9	19.4	10	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 92.9	U, D	µg/kg dry	92.9	17.9	10	"	"	"	"	"	X
72-43-5	Methoxychlor	< 92.9	U, D	µg/kg dry	92.9	20.6	10	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 92.9	U, D	µg/kg dry	92.9	20.9	10	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 92.9	U, D	µg/kg dry	92.9	19.4	10	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 58.1	U, D	µg/kg dry	58.1	19.9	10	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 58.1	U, D	µg/kg dry	58.1	20.9	10	"	"	"	"	"	X
8001-35-2	Toxaphene	< 1160	U, D	µg/kg dry	1160	251	10	"	"	"	"	"	X
57-74-9	Chlordane	< 232	U, D	µg/kg dry	232	230	10	"	"	"	"	"	X
15972-60-8	Alachlor	< 58.1	U, D	µg/kg dry	58.1	28.5	10	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	83			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	131			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	106			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 61.9	U, D	mg/kg dry	61.9	41.2	2	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
68476-31-3	Fuel Oil #4	< 61.9	U, D	mg/kg dry	61.9	61.9	2	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 61.9	U, D	mg/kg dry	61.9	61.9	2	"	"	"	"	"	
M09800000	Motor Oil	< 61.9	U, D	mg/kg dry	61.9	61.9	2	"	"	"	"	"	
J00100000	Aviation Fuel	< 61.9	U, D	mg/kg dry	61.9	61.9	2	"	"	"	"	"	

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Sample Identification

SS-FD

SC42525-04

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons													
Diesel Range Organics													
			R01										
	Unidentified	372	D	mg/kg dry	61.9	61.9	2	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
	Other Oil	Calculated as		mg/kg dry	61.9	61.9	2	"	"	"	"	"	
	Diesel Range Organics (DRO) C10-C28	372	D,DRO	mg/kg dry	61.9	41.2	2	"	"	"	"	"	X
Surrogate recoveries:													
3386-33-2	1-Chlorooctadecane	98			40-140 %			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-22-4	Silver	< 1.76	U	mg/kg dry	1.76	0.190	1	SW846 6010C	28-Dec-17	10-Jan-18	SJR/T	1721203	X
7440-38-2	Arsenic	11.6		mg/kg dry	1.76	0.223	1	"	"	"	"	"	X
7440-39-3	Barium	68.1		mg/kg dry	1.17	0.138	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.882		mg/kg dry	0.586	0.0304	1	"	"	"	"	"	X
7440-47-3	Chromium	9.31		mg/kg dry	1.17	0.156	1	"	"	"	"	"	X
7439-97-6	Mercury	0.142		mg/kg dry	0.0322	0.0089	1	SW846 7471B	03-Jan-18	05-Jan-18	ABW	1721204	X
Prepared by method SW846 3051A													
7439-92-1	Lead	59.2		mg/kg dry	1.75	0.248	1	SW846 6010C	11-Jan-18	12-Jan-18	SJR/T	1800406	X
Prepared by method SW846 3050B													
7782-49-2	Selenium	0.592	J	mg/kg dry	1.76	0.335	1	"	28-Dec-17	10-Jan-18	"	1721203	X
General Chemistry Parameters													
	% Solids	84.5		%			1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720888	
Toxicity Characteristics													
	Ignitability by Definition	Negative	IgHT	N/A			1	SW846 1030	19-Dec-17 10:54	19-Dec-17 12:05	BD	1720970	X
Reactivity Cyanide/Sulfide													
	Reactivity	See Narrative		mg/kg dry			1	SW846 Ch. 7.3	20-Dec-17	28-Dec-17	TN	1721061	
57-12-5	Reactive Cyanide	< 24.1	U	mg/kg dry	24.1	24.1	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 48.3	U	mg/kg dry	48.3	48.3	1	"	"	"	"	"	

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SS-004

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Client Project #

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Matrix

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Collection Date/Time

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18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			BD	1720930	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)													
								Initial weight: 4.09 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 8.79	U	µg/kg dry	8.79	4.46	1	SW846 8260C	21-Dec-17	21-Dec-17	GMA	1721132	X
67-64-1	Acetone	< 87.9	U	µg/kg dry	87.9	35.2	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 8.79	U	µg/kg dry	8.79	8.45	1	"	"	"	"	"	X
71-43-2	Benzene	< 8.79	U	µg/kg dry	8.79	2.33	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 8.79	U	µg/kg dry	8.79	2.35	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 8.79	U	µg/kg dry	8.79	4.44	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 8.79	U	µg/kg dry	8.79	5.86	1	"	"	"	"	"	X
75-25-2	Bromoform	< 8.79	U	µg/kg dry	8.79	8.39	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 17.6	U	µg/kg dry	17.6	7.94	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 17.6	U	µg/kg dry	17.6	15.7	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 8.79	U	µg/kg dry	8.79	2.51	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 8.79	U	µg/kg dry	8.79	1.60	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 8.79	U	µg/kg dry	8.79	1.97	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 17.6	U	µg/kg dry	17.6	5.63	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 8.79	U	µg/kg dry	8.79	7.19	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 8.79	U	µg/kg dry	8.79	2.75	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 17.6	U	µg/kg dry	17.6	4.88	1	"	"	"	"	"	X
67-66-3	Chloroform	< 8.79	U	µg/kg dry	8.79	4.72	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 17.6	U	µg/kg dry	17.6	3.63	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 8.79	U	µg/kg dry	8.79	2.19	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 8.79	U	µg/kg dry	8.79	2.07	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 17.6	U	µg/kg dry	17.6	12.7	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 8.79	U	µg/kg dry	8.79	5.96	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 8.79	U	µg/kg dry	8.79	5.90	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 8.79	U	µg/kg dry	8.79	4.57	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 8.79	U	µg/kg dry	8.79	2.29	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 8.79	U	µg/kg dry	8.79	1.91	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 8.79	U	µg/kg dry	8.79	2.60	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 17.6	U	µg/kg dry	17.6	3.33	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 8.79	U	µg/kg dry	8.79	2.30	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 8.79	U	µg/kg dry	8.79	3.15	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 8.79	U	µg/kg dry	8.79	4.60	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 8.79	U	µg/kg dry	8.79	3.26	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 8.79	U	µg/kg dry	8.79	4.66	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 8.79	U	µg/kg dry	8.79	4.61	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 8.79	U	µg/kg dry	8.79	4.55	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 8.79	U	µg/kg dry	8.79	4.15	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 8.79	U	µg/kg dry	8.79	2.83	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 8.79	U	µg/kg dry	8.79	5.30	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 8.79	U	µg/kg dry	8.79	4.61	1	"	"	"	"	"	X

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Sample Identification

SS-004

SC42525-05

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

12-Dec-17 14:15

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
Initial weight: 4.09 g													
100-41-4	Ethylbenzene	< 8.79	U	µg/kg dry	8.79	1.27	1	SW846 8260C	21-Dec-17	21-Dec-17	GMA	1721132	X
87-68-3	Hexachlorobutadiene	< 8.79	U	µg/kg dry	8.79	4.41	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 17.6	U	µg/kg dry	17.6	10.8	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 8.79	U	µg/kg dry	8.79	1.73	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 8.79	U	µg/kg dry	8.79	1.89	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 8.79	U	µg/kg dry	8.79	3.23	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 17.6	U	µg/kg dry	17.6	4.52	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 17.6	U	µg/kg dry	17.6	3.49	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 8.79	U	µg/kg dry	8.79	5.23	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 8.79	U	µg/kg dry	8.79	1.42	1	"	"	"	"	"	X
100-42-5	Styrene	< 8.79	U	µg/kg dry	8.79	1.77	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 8.79	U	µg/kg dry	8.79	7.47	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 8.79	U	µg/kg dry	8.79	7.44	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 8.79	U	µg/kg dry	8.79	3.01	1	"	"	"	"	"	X
108-88-3	Toluene	< 8.79	U	µg/kg dry	8.79	2.85	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 8.79	U	µg/kg dry	8.79	3.09	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 8.79	U	µg/kg dry	8.79	6.48	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 8.79	U	µg/kg dry	8.79	2.76	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 8.79	U	µg/kg dry	8.79	2.92	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 8.79	U	µg/kg dry	8.79	6.37	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 8.79	U	µg/kg dry	8.79	2.40	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 8.79	U	µg/kg dry	8.79	4.74	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 8.79	U	µg/kg dry	8.79	6.59	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 8.79	U	µg/kg dry	8.79	2.14	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 8.79	U	µg/kg dry	8.79	1.51	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 8.79	U	µg/kg dry	8.79	2.97	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 17.6	U	µg/kg dry	17.6	1.58	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 8.79	U	µg/kg dry	8.79	2.46	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 17.6	U	µg/kg dry	17.6	13.9	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 8.79	U	µg/kg dry	8.79	7.96	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 8.79	U	µg/kg dry	8.79	2.94	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 8.79	U	µg/kg dry	8.79	4.74	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 8.79	U	µg/kg dry	8.79	1.63	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 87.9	U	µg/kg dry	87.9	57.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 176	U	µg/kg dry	176	153	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 43.9	U	µg/kg dry	43.9	20.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1760	U	µg/kg dry	1760	328	1	"	"	"	"	"	X
<u>Surrogate recoveries:</u>													
460-00-4	4-Bromofluorobenzene	92			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	97			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	130			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	110			70-130 %			"	"	"	"	"	

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Sample Identification

SS-004

SC42525-05

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

12-Dec-17 14:15

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 12.39 g

Gasoline Range Organics (C6-C10)	< 8.7	U, D, GRO	mg/kg dry	8.7	1.8	50	SW846 8015D	20-Dec-17	20-Dec-17	SD	1721038	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	107		70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MSPrepared by method SW846 5035A Soil (low level)Initial weight: 4.09 g

Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	21-Dec-17	21-Dec-17	GMA	1721132	

Semivolatile Organic Compounds by GCMSSemivolatile Organic CompoundsPrepared by method SW846 3546

R01

83-32-9	Acenaphthene	< 1650	U, D	µg/kg dry	1650	822	20	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
208-96-8	Acenaphthylene	< 1650	U, D	µg/kg dry	1650	815	20	"	"	"	"	"	X
62-53-3	Aniline	< 8170	U, D	µg/kg dry	8170	587	20	"	"	"	"	"	X
120-12-7	Anthracene	< 1650	U, D	µg/kg dry	1650	790	20	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 8170	U, D	µg/kg dry	8170	804	20	"	"	"	"	"	
92-87-5	Benzidine	< 8170	U, D	µg/kg dry	8170	1640	20	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 1650	U, D	µg/kg dry	1650	872	20	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 1650	U, D	µg/kg dry	1650	615	20	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 1650	U, D	µg/kg dry	1650	800	20	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 1650	U, D	µg/kg dry	1650	664	20	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 1650	U, D	µg/kg dry	1650	646	20	"	"	"	"	"	X
65-85-0	Benzoic acid	< 8170	U, D	µg/kg dry	8170	1720	20	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 8170	U, D	µg/kg dry	8170	669	20	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 8170	U, D	µg/kg dry	8170	726	20	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4140	U, D	µg/kg dry	4140	592	20	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4140	U, D	µg/kg dry	4140	636	20	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 4140	U, D	µg/kg dry	4140	1020	20	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 8170	U, D	µg/kg dry	8170	765	20	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 8170	U, D	µg/kg dry	8170	953	20	"	"	"	"	"	X
86-74-8	Carbazole	< 4140	U, D	µg/kg dry	4140	2310	20	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 8170	U, D	µg/kg dry	8170	780	20	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4140	U, D	µg/kg dry	4140	894	20	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 8170	U, D	µg/kg dry	8170	755	20	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4140	U, D	µg/kg dry	4140	735	20	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 8170	U, D	µg/kg dry	8170	971	20	"	"	"	"	"	X
218-01-9	Chrysene	< 1650	U, D	µg/kg dry	1650	825	20	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 1650	U, D	µg/kg dry	1650	634	20	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4140	U, D	µg/kg dry	4140	629	20	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 8170	U, D	µg/kg dry	8170	713	20	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 8170	U, D	µg/kg dry	8170	713	20	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 8170	U, D	µg/kg dry	8170	758	20	"	"	"	"	"	X

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Sample Identification

SS-004

SC42525-05

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

12-Dec-17 14:15

Received

18-Dec-17

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Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>			R01										
91-94-1	3,3'-Dichlorobenzidine	< 8170	U, D	µg/kg dry	8170	1240	20	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
120-83-2	2,4-Dichlorophenol	< 4140	U, D	µg/kg dry	4140	773	20	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 8170	U, D	µg/kg dry	8170	1010	20	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 8170	U, D	µg/kg dry	8170	894	20	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 8170	U, D	µg/kg dry	8170	584	20	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 8170	U, D	µg/kg dry	8170	867	20	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 8170	U, D	µg/kg dry	8170	1050	20	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 8170	U, D	µg/kg dry	8170	832	20	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4140	U, D	µg/kg dry	4140	1600	20	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4140	U, D	µg/kg dry	4140	931	20	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 8170	U, D	µg/kg dry	8170	923	20	"	"	"	"	"	X
206-44-0	Fluoranthene	< 1650	U, D	µg/kg dry	1650	873	20	"	"	"	"	"	X
86-73-7	Fluorene	< 1650	U, D	µg/kg dry	1650	839	20	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4140	U, D	µg/kg dry	4140	814	20	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4140	U, D	µg/kg dry	4140	988	20	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4140	U, D	µg/kg dry	4140	562	20	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4140	U, D	µg/kg dry	4140	891	20	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 1650	U, D	µg/kg dry	1650	594	20	"	"	"	"	"	X
78-59-1	Isophorone	< 4140	U, D	µg/kg dry	4140	775	20	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 1650	U, D	µg/kg dry	1650	998	20	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 8170	U, D	µg/kg dry	8170	695	20	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 8170	U, D	µg/kg dry	8170	790	20	"	"	"	"	"	X
91-20-3	Naphthalene	< 1650	U, D	µg/kg dry	1650	770	20	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 8170	U, D	µg/kg dry	8170	693	20	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 8170	U, D	µg/kg dry	8170	1120	20	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4140	U, D	µg/kg dry	4140	1270	20	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4140	U, D	µg/kg dry	4140	753	20	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4140	U, D	µg/kg dry	4140	686	20	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 32700	U, D	µg/kg dry	32700	1320	20	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4140	U, D	µg/kg dry	4140	768	20	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4140	U, D	µg/kg dry	4140	805	20	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 8170	U, D	µg/kg dry	8170	886	20	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 8170	U, D	µg/kg dry	8170	873	20	"	"	"	"	"	X
85-01-8	Phenanthrene	< 1650	U, D	µg/kg dry	1650	769	20	"	"	"	"	"	X
108-95-2	Phenol	< 8170	U, D	µg/kg dry	8170	538	20	"	"	"	"	"	X
129-00-0	Pyrene	< 1650	U, D	µg/kg dry	1650	921	20	"	"	"	"	"	X
110-86-1	Pyridine	< 8170	U, D	µg/kg dry	8170	1220	20	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 8170	U, D	µg/kg dry	8170	810	20	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1650	U, D	µg/kg dry	1650	812	20	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 8170	U, D	µg/kg dry	8170	735	20	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4140	U, D	µg/kg dry	4140	738	20	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 8170	U, D	µg/kg dry	8170	1290	20	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 8170	U, D	µg/kg dry	8170	792	20	"	"	"	"	"	X

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Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	67			30-130 %			SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	
367-12-4	2-Fluorophenol	56			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	61			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	55			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	72			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	64			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

R01

Tentatively Identified Compounds	0.0	U, D	µg/kg dry				20	SW846 8270D TICS	"	"	MSL	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 12.2	U	µg/kg dry	12.2	5.48	1	SW846 8082A	21-Dec-17	28-Dec-17	AM	1721117	X
11104-28-2	Aroclor-1221	< 12.2	U	µg/kg dry	12.2	6.51	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 12.2	U	µg/kg dry	12.2	6.12	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 12.2	U	µg/kg dry	12.2	12.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 12.2	U	µg/kg dry	12.2	11.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 12.2	U	µg/kg dry	12.2	8.00	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	8.68	J	µg/kg dry	12.2	6.55	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 12.2	U	µg/kg dry	12.2	10.7	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 12.2	U	µg/kg dry	12.2	5.51	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	55			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3550CMethylation date: 20-Dec-17

93-76-5	2,4,5-T	< 8.23	U	µg/kg dry	8.23	4.49	1	SW846 8151A	20-Dec-17	04-Jan-18	SM	1721032	X
93-72-1	2,4,5-TP (Silvex)	< 8.23	U	µg/kg dry	8.23	3.38	1	"	"	"	"	"	X
94-75-7	2,4-D	< 8.23	U	µg/kg dry	8.23	2.92	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 8.23	U	µg/kg dry	8.23	6.22	1	"	"	"	"	"	X
75-99-0	Dalapon	< 8.23	U	µg/kg dry	8.23	3.29	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 8.23	U	µg/kg dry	8.23	3.35	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 8.23	U	µg/kg dry	8.23	6.02	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 8.23	U	µg/kg dry	8.23	3.34	1	"	"	"	"	"	X
94-74-6	MCPA	< 2760	U	µg/kg dry	2760	1230	1	"	"	"	"	"	X
94-81-5	MCPB	< 2760	U	µg/kg dry	2760	1230	1	"	"	"	"	"	
93-65-2	MCPB	< 2760	U	µg/kg dry	2760	1230	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	125			30-150 %			"	"	"	"	"	

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SS-004

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Matrix

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HerbicidesChlorinated HerbicidesMethylation date: 20-Dec-17

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	110			30-150 %			SW846 8151A	20-Dec-17	04-Jan-18	SM	1721032	
2552-89-8	DCAA (Sr)	60			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	50			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 61.1	U, D	µg/kg dry	61.1	16.4	10	SW846 8081B	21-Dec-17	04-Jan-18	SM	1721116	X
319-85-7	beta-BHC	< 61.1	U, D	µg/kg dry	61.1	24.2	10	"	"	"	"	"	X
319-86-8	delta-BHC	< 61.1	U, D	µg/kg dry	61.1	17.6	10	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 36.7	U, D	µg/kg dry	36.7	17.6	10	"	"	"	"	"	X
76-44-8	Heptachlor	< 61.1	U, D	µg/kg dry	61.1	20.4	10	"	"	"	"	"	X
309-00-2	Aldrin	< 61.1	U, D	µg/kg dry	61.1	18.8	10	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 61.1	U, D	µg/kg dry	61.1	21.6	10	"	"	"	"	"	X
959-98-8	Endosulfan I	< 61.1	U, D	µg/kg dry	61.1	21.5	10	"	"	"	"	"	X
60-57-1	Dieldrin	< 61.1	U, D	µg/kg dry	61.1	21.5	10	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 61.1	U, D	µg/kg dry	61.1	19.3	10	"	"	"	"	"	X
72-20-8	Endrin	< 97.8	U, D	µg/kg dry	97.8	21.5	10	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 97.8	U, D	µg/kg dry	97.8	23.0	10	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 97.8	U, D	µg/kg dry	97.8	21.3	10	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 97.8	U, D	µg/kg dry	97.8	20.4	10	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 97.8	U, D	µg/kg dry	97.8	18.8	10	"	"	"	"	"	X
72-43-5	Methoxychlor	< 97.8	U, D	µg/kg dry	97.8	21.6	10	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 97.8	U, D	µg/kg dry	97.8	22.0	10	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 97.8	U, D	µg/kg dry	97.8	20.4	10	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 61.1	U, D	µg/kg dry	61.1	20.9	10	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 61.1	U, D	µg/kg dry	61.1	22.0	10	"	"	"	"	"	X
8001-35-2	Toxaphene	< 1220	U, D	µg/kg dry	1220	264	10	"	"	"	"	"	X
57-74-9	Chlordane	< 245	U, D	µg/kg dry	245	242	10	"	"	"	"	"	X
15972-60-8	Alachlor	< 61.1	U, D	µg/kg dry	61.1	30.0	10	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	71			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	57			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	97			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	88			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 162	U, D	mg/kg dry	162	108	5	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
68476-31-3	Fuel Oil #4	< 162	U, D	mg/kg dry	162	162	5	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 162	U, D	mg/kg dry	162	162	5	"	"	"	"	"	
M09800000	Motor Oil	< 162	U, D	mg/kg dry	162	162	5	"	"	"	"	"	
J00100000	Aviation Fuel	< 162	U, D	mg/kg dry	162	162	5	"	"	"	"	"	

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Extractable Petroleum Hydrocarbons													
Diesel Range Organics													
			R01										
	Unidentified	450	D	mg/kg dry	162	162	5	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
	Other Oil	Calculated as		mg/kg dry	162	162	5	"	"	"	"	"	
	Diesel Range Organics (DRO) C10-C28	450	D,DRO	mg/kg dry	162	108	5	"	"	"	"	"	X
Surrogate recoveries:													
3386-33-2	1-Chlorooctadecane	95			40-140 %			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-22-4	Silver	< 1.83	U	mg/kg dry	1.83	0.197	1	SW846 6010C	28-Dec-17	10-Jan-18	SJR/T	1721203	X
7440-38-2	Arsenic	7.78		mg/kg dry	1.83	0.231	1	"	"	"	"	"	X
7440-39-3	Barium	57.4		mg/kg dry	1.22	0.144	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.709		mg/kg dry	0.609	0.0315	1	"	"	"	"	"	X
7440-47-3	Chromium	9.37		mg/kg dry	1.22	0.162	1	"	"	"	"	"	X
7439-97-6	Mercury	0.222		mg/kg dry	0.0322	0.0089	1	SW846 7471B	03-Jan-18	05-Jan-18	ABW	1721204	X
Prepared by method SW846 3051A													
7439-92-1	Lead	34.8		mg/kg dry	1.83	0.259	1	SW846 6010C	11-Jan-18	12-Jan-18	SJR/T	1800406	X
Prepared by method SW846 3050B													
7782-49-2	Selenium	< 1.83	U	mg/kg dry	1.83	0.348	1	"	28-Dec-17	10-Jan-18	"	1721203	X
General Chemistry Parameters													
	% Solids	80.6		%			1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720888	
Toxicity Characteristics													
	Ignitability by Definition	Negative	IgHT	N/A			1	SW846 1030	19-Dec-17 10:54	19-Dec-17 12:05	BD	1720970	X
Reactivity Cyanide/Sulfide													
	Reactivity	See Narrative		mg/kg dry			1	SW846 Ch. 7.3	20-Dec-17	28-Dec-17	TN	1721061	
57-12-5	Reactive Cyanide	< 23.5	U	mg/kg dry	23.5	23.5	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 47.1	U	mg/kg dry	47.1	47.1	1	"	"	"	"	"	

Sample Identification

SS-005

SC42525-06

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 09:30

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			BD	1720930	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
								Initial weight: 4.9 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 7.29	U	µg/kg dry	7.29	3.70	1	SW846 8260C	21-Dec-17	21-Dec-17	GMA	1721132	X
67-64-1	Acetone	< 72.9	U	µg/kg dry	72.9	29.2	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 7.29	U	µg/kg dry	7.29	7.01	1	"	"	"	"	"	X
71-43-2	Benzene	< 7.29	U	µg/kg dry	7.29	1.93	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 7.29	U	µg/kg dry	7.29	1.95	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 7.29	U	µg/kg dry	7.29	3.68	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 7.29	U	µg/kg dry	7.29	4.87	1	"	"	"	"	"	X
75-25-2	Bromoform	< 7.29	U	µg/kg dry	7.29	6.96	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 14.6	U	µg/kg dry	14.6	6.59	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	14.2	J	µg/kg dry	14.6	13.0	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 7.29	U	µg/kg dry	7.29	2.09	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 7.29	U	µg/kg dry	7.29	1.33	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 7.29	U	µg/kg dry	7.29	1.63	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 14.6	U	µg/kg dry	14.6	4.67	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 7.29	U	µg/kg dry	7.29	5.97	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 7.29	U	µg/kg dry	7.29	2.28	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 14.6	U	µg/kg dry	14.6	4.05	1	"	"	"	"	"	X
67-66-3	Chloroform	< 7.29	U	µg/kg dry	7.29	3.92	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 14.6	U	µg/kg dry	14.6	3.01	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 7.29	U	µg/kg dry	7.29	1.82	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 7.29	U	µg/kg dry	7.29	1.71	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 14.6	U	µg/kg dry	14.6	10.5	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 7.29	U	µg/kg dry	7.29	4.95	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 7.29	U	µg/kg dry	7.29	4.89	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 7.29	U	µg/kg dry	7.29	3.79	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 7.29	U	µg/kg dry	7.29	1.90	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 7.29	U	µg/kg dry	7.29	1.58	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 7.29	U	µg/kg dry	7.29	2.16	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 14.6	U	µg/kg dry	14.6	2.76	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 7.29	U	µg/kg dry	7.29	1.91	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 7.29	U	µg/kg dry	7.29	2.61	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 7.29	U	µg/kg dry	7.29	3.81	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 7.29	U	µg/kg dry	7.29	2.71	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 7.29	U	µg/kg dry	7.29	3.87	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 7.29	U	µg/kg dry	7.29	3.82	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 7.29	U	µg/kg dry	7.29	3.78	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 7.29	U	µg/kg dry	7.29	3.44	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 7.29	U	µg/kg dry	7.29	2.35	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 7.29	U	µg/kg dry	7.29	4.40	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 7.29	U	µg/kg dry	7.29	3.83	1	"	"	"	"	"	X

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Sample Identification

SS-005

SC42525-06

Client Project #

0172.0210M010

Matrix

Soil

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 4.9 g

100-41-4	Ethylbenzene	< 7.29	U	µg/kg dry	7.29	1.05	1	SW846 8260C	21-Dec-17	21-Dec-17	GMA	1721132	X
87-68-3	Hexachlorobutadiene	< 7.29	U	µg/kg dry	7.29	3.66	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 14.6	U	µg/kg dry	14.6	8.95	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 7.29	U	µg/kg dry	7.29	1.44	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 7.29	U	µg/kg dry	7.29	1.57	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 7.29	U	µg/kg dry	7.29	2.68	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 14.6	U	µg/kg dry	14.6	3.75	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 14.6	U	µg/kg dry	14.6	2.90	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 7.29	U	µg/kg dry	7.29	4.34	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 7.29	U	µg/kg dry	7.29	1.18	1	"	"	"	"	"	X
100-42-5	Styrene	< 7.29	U	µg/kg dry	7.29	1.47	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 7.29	U	µg/kg dry	7.29	6.20	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 7.29	U	µg/kg dry	7.29	6.17	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 7.29	U	µg/kg dry	7.29	2.49	1	"	"	"	"	"	X
108-88-3	Toluene	< 7.29	U	µg/kg dry	7.29	2.36	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 7.29	U	µg/kg dry	7.29	2.56	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 7.29	U	µg/kg dry	7.29	5.38	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 7.29	U	µg/kg dry	7.29	2.29	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 7.29	U	µg/kg dry	7.29	2.42	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 7.29	U	µg/kg dry	7.29	5.29	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 7.29	U	µg/kg dry	7.29	1.99	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 7.29	U	µg/kg dry	7.29	3.93	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 7.29	U	µg/kg dry	7.29	5.47	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 7.29	U	µg/kg dry	7.29	1.77	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 7.29	U	µg/kg dry	7.29	1.25	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 7.29	U	µg/kg dry	7.29	2.47	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 14.6	U	µg/kg dry	14.6	1.31	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 7.29	U	µg/kg dry	7.29	2.04	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 14.6	U	µg/kg dry	14.6	11.5	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 7.29	U	µg/kg dry	7.29	6.61	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 7.29	U	µg/kg dry	7.29	2.44	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 7.29	U	µg/kg dry	7.29	3.93	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 7.29	U	µg/kg dry	7.29	1.36	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 72.9	U	µg/kg dry	72.9	47.7	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 146	U	µg/kg dry	146	127	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 36.5	U	µg/kg dry	36.5	16.6	1	"	"	"	"	"	X
64-17-5	Ethanol	879	J	µg/kg dry	1460	272	1	"	"	"	"	"	

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	95			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	130			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	109			70-130 %		"	"	"	"	"	"	

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Sample Identification

SS-005

SC42525-06

Client Project #

0172.0210M010

Matrix

Soil

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Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 12.6 g

	Gasoline Range Organics (C6-C10)	1.8	J, D,GRO	mg/kg dry	8.3	1.7	50	SW846 8015D	20-Dec-17	20-Dec-17	SD	1721038	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	107			70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MS

J N

Prepared by method SW846 5035A Soil (low level)Initial weight: 4.9 g

75-18-3	Dimethyl sulfide	22		µg/kg dry			1	SW846 8260C TICs	21-Dec-17	21-Dec-17	GMA	1721132	

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Prepared by method SW846 3546

83-32-9	Acenaphthene	< 804	U, D	µg/kg dry	804	400	10	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
208-96-8	Acenaphthylene	< 804	U, D	µg/kg dry	804	397	10	"	"	"	"	"	X
62-53-3	Aniline	< 3980	U, D	µg/kg dry	3980	286	10	"	"	"	"	"	X
120-12-7	Anthracene	< 804	U, D	µg/kg dry	804	385	10	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 3980	U, D	µg/kg dry	3980	391	10	"	"	"	"	"	
92-87-5	Benzidine	< 3980	U, D	µg/kg dry	3980	800	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 804	U, D	µg/kg dry	804	424	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 804	U, D	µg/kg dry	804	299	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 804	U, D	µg/kg dry	804	389	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 804	U, D	µg/kg dry	804	323	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 804	U, D	µg/kg dry	804	315	10	"	"	"	"	"	X
65-85-0	Benzoic acid	< 3980	U, D	µg/kg dry	3980	835	10	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 3980	U, D	µg/kg dry	3980	326	10	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 3980	U, D	µg/kg dry	3980	353	10	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 2010	U, D	µg/kg dry	2010	288	10	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 2010	U, D	µg/kg dry	2010	310	10	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 2010	U, D	µg/kg dry	2010	497	10	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 3980	U, D	µg/kg dry	3980	373	10	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 3980	U, D	µg/kg dry	3980	464	10	"	"	"	"	"	X
86-74-8	Carbazole	< 2010	U, D	µg/kg dry	2010	1120	10	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 3980	U, D	µg/kg dry	3980	380	10	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 2010	U, D	µg/kg dry	2010	435	10	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 3980	U, D	µg/kg dry	3980	368	10	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 2010	U, D	µg/kg dry	2010	358	10	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 3980	U, D	µg/kg dry	3980	473	10	"	"	"	"	"	X
218-01-9	Chrysene	< 804	U, D	µg/kg dry	804	401	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 804	U, D	µg/kg dry	804	309	10	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 2010	U, D	µg/kg dry	2010	306	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 3980	U, D	µg/kg dry	3980	347	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3980	U, D	µg/kg dry	3980	347	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3980	U, D	µg/kg dry	3980	369	10	"	"	"	"	"	X

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Sample Identification

SS-005

SC42525-06

Client Project #

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Matrix

Soil

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Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
			R01										
91-94-1	3,3'-Dichlorobenzidine	< 3980	U, D	µg/kg dry	3980	605	10	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
120-83-2	2,4-Dichlorophenol	< 2010	U, D	µg/kg dry	2010	376	10	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 3980	U, D	µg/kg dry	3980	492	10	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 3980	U, D	µg/kg dry	3980	435	10	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 3980	U, D	µg/kg dry	3980	284	10	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 3980	U, D	µg/kg dry	3980	422	10	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 3980	U, D	µg/kg dry	3980	511	10	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 3980	U, D	µg/kg dry	3980	405	10	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 2010	U, D	µg/kg dry	2010	779	10	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 2010	U, D	µg/kg dry	2010	453	10	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 3980	U, D	µg/kg dry	3980	450	10	"	"	"	"	"	X
206-44-0	Fluoranthene	< 804	U, D	µg/kg dry	804	425	10	"	"	"	"	"	X
86-73-7	Fluorene	< 804	U, D	µg/kg dry	804	409	10	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 2010	U, D	µg/kg dry	2010	396	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 2010	U, D	µg/kg dry	2010	481	10	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 2010	U, D	µg/kg dry	2010	274	10	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 2010	U, D	µg/kg dry	2010	434	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 804	U, D	µg/kg dry	804	289	10	"	"	"	"	"	X
78-59-1	Isophorone	< 2010	U, D	µg/kg dry	2010	377	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	643	J, D	µg/kg dry	804	486	10	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 3980	U, D	µg/kg dry	3980	338	10	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 3980	U, D	µg/kg dry	3980	385	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 804	U, D	µg/kg dry	804	375	10	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 3980	U, D	µg/kg dry	3980	338	10	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 3980	U, D	µg/kg dry	3980	544	10	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 2010	U, D	µg/kg dry	2010	620	10	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 2010	U, D	µg/kg dry	2010	366	10	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 2010	U, D	µg/kg dry	2010	334	10	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 15900	U, D	µg/kg dry	15900	643	10	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 2010	U, D	µg/kg dry	2010	374	10	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 2010	U, D	µg/kg dry	2010	392	10	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 3980	U, D	µg/kg dry	3980	431	10	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 3980	U, D	µg/kg dry	3980	425	10	"	"	"	"	"	X
85-01-8	Phenanthrene	691	J, D	µg/kg dry	804	374	10	"	"	"	"	"	X
108-95-2	Phenol	< 3980	U, D	µg/kg dry	3980	262	10	"	"	"	"	"	X
129-00-0	Pyrene	595	J, D	µg/kg dry	804	448	10	"	"	"	"	"	X
110-86-1	Pyridine	< 3980	U, D	µg/kg dry	3980	593	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3980	U, D	µg/kg dry	3980	394	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 804	U, D	µg/kg dry	804	395	10	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 3980	U, D	µg/kg dry	3980	358	10	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 2010	U, D	µg/kg dry	2010	359	10	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 3980	U, D	µg/kg dry	3980	628	10	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 3980	U, D	µg/kg dry	3980	386	10	"	"	"	"	"	X

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Sample Identification

SS-005

SC42525-06

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 09:30

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	62			30-130 %			SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	
367-12-4	2-Fluorophenol	47			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	56			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	45			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	63			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	54			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

R01

Tentatively Identified Compounds	0.0	U, D	µg/kg dry				10	SW846 8270D TICS	"	"	MSL	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 12.0	U	µg/kg dry	12.0	5.39	1	SW846 8082A	21-Dec-17	28-Dec-17	AM	1721117	X
11104-28-2	Aroclor-1221	< 12.0	U	µg/kg dry	12.0	6.41	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 12.0	U	µg/kg dry	12.0	6.03	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 12.0	U	µg/kg dry	12.0	11.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 12.0	U	µg/kg dry	12.0	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 12.0	U	µg/kg dry	12.0	7.88	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260 [2C]	7.83	J	µg/kg dry	12.0	6.99	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 12.0	U	µg/kg dry	12.0	10.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 12.0	U	µg/kg dry	12.0	5.43	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	65			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	60			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	120			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	110			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3546Methylation date: 22-Dec-17

93-76-5	2,4,5-T	< 8.10	U	µg/kg dry	8.10	4.41	1	SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	X
93-72-1	2,4,5-TP (Silvex)	< 8.10	U	µg/kg dry	8.10	3.33	1	"	"	"	"	"	X
94-75-7	2,4-D [2C]	14.5		µg/kg dry	8.10	3.21	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 8.10	U	µg/kg dry	8.10	6.12	1	"	"	"	"	"	X
75-99-0	Dalapon	< 8.10	U	µg/kg dry	8.10	3.24	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 8.10	U	µg/kg dry	8.10	3.30	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 8.10	U	µg/kg dry	8.10	5.92	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 8.10	U	µg/kg dry	8.10	3.29	1	"	"	"	"	"	X
94-74-6	MCPA	< 2720	U	µg/kg dry	2720	1210	1	"	"	"	"	"	X
94-81-5	MCPB	< 2720	U	µg/kg dry	2720	1210	1	"	"	"	"	"	
93-65-2	MCPD	< 2720	U	µg/kg dry	2720	1210	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	115			30-150 %			"	"	"	"	"	

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Sample Identification

SS-005

SC42525-06

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 09:30

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

HerbicidesChlorinated HerbicidesMethylation date: 22-Dec-17

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %			SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	
2552-89-8	DCAA (Sr)	105			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	95			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 60.2	U, D	µg/kg dry	60.2	16.1	10	SW846 8081B	21-Dec-17	04-Jan-18	SM	1721116	X
319-85-7	beta-BHC	< 60.2	U, D	µg/kg dry	60.2	23.8	10	"	"	"	"	"	X
319-86-8	delta-BHC	< 60.2	U, D	µg/kg dry	60.2	17.3	10	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 36.1	U, D	µg/kg dry	36.1	17.3	10	"	"	"	"	"	X
76-44-8	Heptachlor	< 60.2	U, D	µg/kg dry	60.2	20.1	10	"	"	"	"	"	X
309-00-2	Aldrin	< 60.2	U, D	µg/kg dry	60.2	18.5	10	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 60.2	U, D	µg/kg dry	60.2	21.3	10	"	"	"	"	"	X
959-98-8	Endosulfan I	< 60.2	U, D	µg/kg dry	60.2	21.2	10	"	"	"	"	"	X
60-57-1	Dieldrin	< 60.2	U, D	µg/kg dry	60.2	21.2	10	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 60.2	U, D	µg/kg dry	60.2	19.0	10	"	"	"	"	"	X
72-20-8	Endrin	< 96.3	U, D	µg/kg dry	96.3	21.2	10	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 96.3	U, D	µg/kg dry	96.3	22.6	10	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 96.3	U, D	µg/kg dry	96.3	21.0	10	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 96.3	U, D	µg/kg dry	96.3	20.1	10	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 96.3	U, D	µg/kg dry	96.3	18.5	10	"	"	"	"	"	X
72-43-5	Methoxychlor	< 96.3	U, D	µg/kg dry	96.3	21.3	10	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 96.3	U, D	µg/kg dry	96.3	21.7	10	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 96.3	U, D	µg/kg dry	96.3	20.1	10	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 60.2	U, D	µg/kg dry	60.2	20.6	10	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 60.2	U, D	µg/kg dry	60.2	21.7	10	"	"	"	"	"	X
8001-35-2	Toxaphene	< 1200	U, D	µg/kg dry	1200	260	10	"	"	"	"	"	X
57-74-9	Chlordane	< 241	U, D	µg/kg dry	241	238	10	"	"	"	"	"	X
15972-60-8	Alachlor	< 60.2	U, D	µg/kg dry	60.2	29.5	10	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	84			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	89			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	116			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	110			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 158	U, D	mg/kg dry	158	105	5	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
68476-31-3	Fuel Oil #4	< 158	U, D	mg/kg dry	158	158	5	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 158	U, D	mg/kg dry	158	158	5	"	"	"	"	"	
M09800000	Motor Oil	< 158	U, D	mg/kg dry	158	158	5	"	"	"	"	"	
J00100000	Aviation Fuel	< 158	U, D	mg/kg dry	158	158	5	"	"	"	"	"	

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Sample Identification

SS-005

SC42525-06

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 09:30

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons													
Diesel Range Organics													
			R01										
	Unidentified	491	D	mg/kg dry	158	158	5	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
	Other Oil	Calculated as		mg/kg dry	158	158	5	"	"	"	"	"	
	Diesel Range Organics (DRO) C10-C28	491	D,DRO	mg/kg dry	158	105	5	"	"	"	"	"	X
Surrogate recoveries:													
3386-33-2	1-Chlorooctadecane	91			40-140 %			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-22-4	Silver	< 1.82	U	mg/kg dry	1.82	0.197	1	SW846 6010C	28-Dec-17	10-Jan-18	SJR/T	1721203	X
7440-38-2	Arsenic	16.2		mg/kg dry	1.82	0.231	1	"	"	"	"	"	X
7440-39-3	Barium	94.9		mg/kg dry	1.22	0.143	1	"	"	"	"	"	X
7440-43-9	Cadmium	1.16		mg/kg dry	0.608	0.0315	1	"	"	"	"	"	X
7440-47-3	Chromium	15.2		mg/kg dry	1.22	0.162	1	"	"	"	"	"	X
7439-97-6	Mercury	0.221		mg/kg dry	0.0337	0.0094	1	SW846 7471B	03-Jan-18	05-Jan-18	ABW	1721204	X
Prepared by method SW846 3051A													
7439-92-1	Lead	54.0		mg/kg dry	1.82	0.257	1	SW846 6010C	11-Jan-18	12-Jan-18	SJR/T	1800406	X
Prepared by method SW846 3050B													
7782-49-2	Selenium	0.419	J	mg/kg dry	1.82	0.348	1	"	28-Dec-17	10-Jan-18	"	1721203	X
General Chemistry Parameters													
	% Solids	82.2		%			1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720888	
Toxicity Characteristics													
	Ignitability by Definition	Negative	IgHT	N/A			1	SW846 1030	19-Dec-17 10:54	19-Dec-17 12:05	BD	1720970	X
Reactivity Cyanide/Sulfide													
	Reactivity	See Narrative		mg/kg dry			1	SW846 Ch. 7.3	20-Dec-17	28-Dec-17	TN	1721061	
57-12-5	Reactive Cyanide	< 23.7	U	mg/kg dry	23.7	23.7	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 47.4	U	mg/kg dry	47.4	47.4	1	"	"	"	"	"	

Sample Identification

SS-006

SC42525-07

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 09:40

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Volatile Organic CompoundsPrepared by method Volatiles

VOC Extraction

Field
extracted

N/A

1

VOC Soil
Extraction

BD

1720930

Volatile Organic Compounds by SW846 8260Prepared by method SW846 5035A Soil (low level)Initial weight: 4.86 g

76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 8.27	U	µg/kg dry	8.27	4.19	1	SW846 8260C	21-Dec-17	21-Dec-17	GMA	1721132	X
67-64-1	Acetone	< 82.7	U	µg/kg dry	82.7	33.1	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 8.27	U	µg/kg dry	8.27	7.94	1	"	"	"	"	"	X
71-43-2	Benzene	< 8.27	U	µg/kg dry	8.27	2.19	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 8.27	U	µg/kg dry	8.27	2.21	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 8.27	U	µg/kg dry	8.27	4.17	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 8.27	U	µg/kg dry	8.27	5.51	1	"	"	"	"	"	X
75-25-2	Bromoform	< 8.27	U	µg/kg dry	8.27	7.89	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 16.5	U	µg/kg dry	16.5	7.46	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 16.5	U	µg/kg dry	16.5	14.8	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 8.27	U	µg/kg dry	8.27	2.36	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 8.27	U	µg/kg dry	8.27	1.50	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 8.27	U	µg/kg dry	8.27	1.85	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 16.5	U	µg/kg dry	16.5	5.29	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 8.27	U	µg/kg dry	8.27	6.76	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 8.27	U	µg/kg dry	8.27	2.59	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 16.5	U	µg/kg dry	16.5	4.59	1	"	"	"	"	"	X
67-66-3	Chloroform	< 8.27	U	µg/kg dry	8.27	4.44	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 16.5	U	µg/kg dry	16.5	3.41	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 8.27	U	µg/kg dry	8.27	2.06	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 8.27	U	µg/kg dry	8.27	1.94	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 16.5	U	µg/kg dry	16.5	11.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 8.27	U	µg/kg dry	8.27	5.60	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 8.27	U	µg/kg dry	8.27	5.55	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 8.27	U	µg/kg dry	8.27	4.30	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 8.27	U	µg/kg dry	8.27	2.15	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 8.27	U	µg/kg dry	8.27	1.79	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 8.27	U	µg/kg dry	8.27	2.45	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 16.5	U	µg/kg dry	16.5	3.13	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 8.27	U	µg/kg dry	8.27	2.17	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 8.27	U	µg/kg dry	8.27	2.96	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 8.27	U	µg/kg dry	8.27	4.32	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 8.27	U	µg/kg dry	8.27	3.07	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 8.27	U	µg/kg dry	8.27	4.38	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 8.27	U	µg/kg dry	8.27	4.33	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 8.27	U	µg/kg dry	8.27	4.28	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 8.27	U	µg/kg dry	8.27	3.90	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 8.27	U	µg/kg dry	8.27	2.66	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 8.27	U	µg/kg dry	8.27	4.98	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 8.27	U	µg/kg dry	8.27	4.34	1	"	"	"	"	"	X

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Sample Identification

SS-006

SC42525-07

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 09:40

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 4.86 g

100-41-4	Ethylbenzene	< 8.27	U	µg/kg dry	8.27	1.19	1	SW846 8260C	21-Dec-17	21-Dec-17	GMA	1721132	X
87-68-3	Hexachlorobutadiene	< 8.27	U	µg/kg dry	8.27	4.15	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 16.5	U	µg/kg dry	16.5	10.1	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 8.27	U	µg/kg dry	8.27	1.63	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 8.27	U	µg/kg dry	8.27	1.78	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 8.27	U	µg/kg dry	8.27	3.04	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 16.5	U	µg/kg dry	16.5	4.25	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 16.5	U	µg/kg dry	16.5	3.28	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 8.27	U	µg/kg dry	8.27	4.92	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 8.27	U	µg/kg dry	8.27	1.34	1	"	"	"	"	"	X
100-42-5	Styrene	< 8.27	U	µg/kg dry	8.27	1.66	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 8.27	U	µg/kg dry	8.27	7.03	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 8.27	U	µg/kg dry	8.27	6.99	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 8.27	U	µg/kg dry	8.27	2.83	1	"	"	"	"	"	X
108-88-3	Toluene	< 8.27	U	µg/kg dry	8.27	2.68	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 8.27	U	µg/kg dry	8.27	2.90	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 8.27	U	µg/kg dry	8.27	6.09	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 8.27	U	µg/kg dry	8.27	2.60	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 8.27	U	µg/kg dry	8.27	2.74	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 8.27	U	µg/kg dry	8.27	5.99	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 8.27	U	µg/kg dry	8.27	2.26	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 8.27	U	µg/kg dry	8.27	4.45	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 8.27	U	µg/kg dry	8.27	6.20	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 8.27	U	µg/kg dry	8.27	2.01	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 8.27	U	µg/kg dry	8.27	1.42	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 8.27	U	µg/kg dry	8.27	2.79	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 16.5	U	µg/kg dry	16.5	1.49	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 8.27	U	µg/kg dry	8.27	2.31	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 16.5	U	µg/kg dry	16.5	13.0	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 8.27	U	µg/kg dry	8.27	7.49	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 8.27	U	µg/kg dry	8.27	2.76	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 8.27	U	µg/kg dry	8.27	4.45	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 8.27	U	µg/kg dry	8.27	1.54	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 82.7	U	µg/kg dry	82.7	54.1	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 165	U	µg/kg dry	165	144	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 41.3	U	µg/kg dry	41.3	18.9	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1650	U	µg/kg dry	1650	308	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	94			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	130			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	108			70-130 %		"	"	"	"	"	"	

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Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 17.07 g

	Gasoline Range Organics (C6-C10)	< 7.3	U, D, GRO	mg/kg dry	7.3	1.5	50	SW846 8015D	20-Dec-17	20-Dec-17	SD	1721038	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	110			70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MS

J N

Prepared by method SW846 5035A Soil (low level)Initial weight: 4.86 g

75-18-3	Dimethyl sulfide	12		µg/kg dry			1	SW846 8260C TICs	21-Dec-17	21-Dec-17	GMA	1721132	

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Prepared by method SW846 3546

83-32-9	Acenaphthene	< 871	U, D	µg/kg dry	871	434	10	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
208-96-8	Acenaphthylene	< 871	U, D	µg/kg dry	871	430	10	"	"	"	"	"	X
62-53-3	Aniline	< 4310	U, D	µg/kg dry	4310	310	10	"	"	"	"	"	X
120-12-7	Anthracene	< 871	U, D	µg/kg dry	871	417	10	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4310	U, D	µg/kg dry	4310	424	10	"	"	"	"	"	
92-87-5	Benzidine	< 4310	U, D	µg/kg dry	4310	867	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 871	U, D	µg/kg dry	871	460	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	340	J, D	µg/kg dry	871	324	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 871	U, D	µg/kg dry	871	422	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 871	U, D	µg/kg dry	871	350	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 871	U, D	µg/kg dry	871	341	10	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4310	U, D	µg/kg dry	4310	905	10	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4310	U, D	µg/kg dry	4310	353	10	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4310	U, D	µg/kg dry	4310	383	10	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 2180	U, D	µg/kg dry	2180	312	10	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 2180	U, D	µg/kg dry	2180	336	10	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 2180	U, D	µg/kg dry	2180	538	10	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4310	U, D	µg/kg dry	4310	404	10	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4310	U, D	µg/kg dry	4310	503	10	"	"	"	"	"	X
86-74-8	Carbazole	< 2180	U, D	µg/kg dry	2180	1220	10	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4310	U, D	µg/kg dry	4310	411	10	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 2180	U, D	µg/kg dry	2180	472	10	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4310	U, D	µg/kg dry	4310	398	10	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 2180	U, D	µg/kg dry	2180	388	10	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4310	U, D	µg/kg dry	4310	512	10	"	"	"	"	"	X
218-01-9	Chrysene	< 871	U, D	µg/kg dry	871	435	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 871	U, D	µg/kg dry	871	334	10	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 2180	U, D	µg/kg dry	2180	332	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4310	U, D	µg/kg dry	4310	376	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4310	U, D	µg/kg dry	4310	376	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4310	U, D	µg/kg dry	4310	400	10	"	"	"	"	"	X

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Sample Identification

SS-006

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Client Project #

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Matrix

Soil

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Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
			R01										
91-94-1	3,3'-Dichlorobenzidine	< 4310	U, D	µg/kg dry	4310	656	10	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
120-83-2	2,4-Dichlorophenol	< 2180	U, D	µg/kg dry	2180	408	10	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4310	U, D	µg/kg dry	4310	533	10	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4310	U, D	µg/kg dry	4310	472	10	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4310	U, D	µg/kg dry	4310	308	10	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4310	U, D	µg/kg dry	4310	457	10	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4310	U, D	µg/kg dry	4310	553	10	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4310	U, D	µg/kg dry	4310	439	10	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 2180	U, D	µg/kg dry	2180	844	10	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 2180	U, D	µg/kg dry	2180	491	10	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 4310	U, D	µg/kg dry	4310	487	10	"	"	"	"	"	X
206-44-0	Fluoranthene	684	J, D	µg/kg dry	871	460	10	"	"	"	"	"	X
86-73-7	Fluorene	< 871	U, D	µg/kg dry	871	443	10	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 2180	U, D	µg/kg dry	2180	429	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 2180	U, D	µg/kg dry	2180	521	10	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 2180	U, D	µg/kg dry	2180	297	10	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 2180	U, D	µg/kg dry	2180	470	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 871	U, D	µg/kg dry	871	313	10	"	"	"	"	"	X
78-59-1	Isophorone	< 2180	U, D	µg/kg dry	2180	409	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 871	U, D	µg/kg dry	871	526	10	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4310	U, D	µg/kg dry	4310	366	10	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 4310	U, D	µg/kg dry	4310	417	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 871	U, D	µg/kg dry	871	406	10	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4310	U, D	µg/kg dry	4310	366	10	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4310	U, D	µg/kg dry	4310	589	10	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 2180	U, D	µg/kg dry	2180	671	10	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 2180	U, D	µg/kg dry	2180	397	10	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 2180	U, D	µg/kg dry	2180	362	10	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 17200	U, D	µg/kg dry	17200	696	10	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 2180	U, D	µg/kg dry	2180	405	10	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 2180	U, D	µg/kg dry	2180	425	10	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4310	U, D	µg/kg dry	4310	467	10	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 4310	U, D	µg/kg dry	4310	461	10	"	"	"	"	"	X
85-01-8	Phenanthrene	531	J, D	µg/kg dry	871	405	10	"	"	"	"	"	X
108-95-2	Phenol	< 4310	U, D	µg/kg dry	4310	284	10	"	"	"	"	"	X
129-00-0	Pyrene	636	J, D	µg/kg dry	871	486	10	"	"	"	"	"	X
110-86-1	Pyridine	< 4310	U, D	µg/kg dry	4310	643	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4310	U, D	µg/kg dry	4310	427	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 871	U, D	µg/kg dry	871	428	10	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 4310	U, D	µg/kg dry	4310	388	10	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 2180	U, D	µg/kg dry	2180	389	10	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4310	U, D	µg/kg dry	4310	681	10	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4310	U, D	µg/kg dry	4310	418	10	"	"	"	"	"	X

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Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	79			30-130 %			SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	
367-12-4	2-Fluorophenol	69			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	72			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	65			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	81			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	74			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

R01

Tentatively Identified Compounds	0.0	U, D	µg/kg dry				10	SW846 8270D TICS	"	"	MSL	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 12.9	U	µg/kg dry	12.9	5.78	1	SW846 8082A	21-Dec-17	28-Dec-17	AM	1721117	X
11104-28-2	Aroclor-1221	< 12.9	U	µg/kg dry	12.9	6.87	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 12.9	U	µg/kg dry	12.9	6.46	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 12.9	U	µg/kg dry	12.9	12.7	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 12.9	U	µg/kg dry	12.9	11.8	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 12.9	U	µg/kg dry	12.9	8.44	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	11.0	J	µg/kg dry	12.9	6.91	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 12.9	U	µg/kg dry	12.9	11.3	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 12.9	U	µg/kg dry	12.9	5.82	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	55			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	60			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	115			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3546Methylation date: 22-Dec-17

93-76-5	2,4,5-T	< 8.65	U	µg/kg dry	8.65	4.72	1	SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	X
93-72-1	2,4,5-TP (Silvex)	< 8.65	U	µg/kg dry	8.65	3.56	1	"	"	"	"	"	X
94-75-7	2,4-D	17.2		µg/kg dry	8.65	3.07	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 8.65	U	µg/kg dry	8.65	6.54	1	"	"	"	"	"	X
75-99-0	Dalapon	< 8.65	U	µg/kg dry	8.65	3.46	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 8.65	U	µg/kg dry	8.65	3.53	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 8.65	U	µg/kg dry	8.65	6.32	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 8.65	U	µg/kg dry	8.65	3.51	1	"	"	"	"	"	X
94-74-6	MCPA	< 2910	U	µg/kg dry	2910	1290	1	"	"	"	"	"	X
94-81-5	MCPB	< 2910	U	µg/kg dry	2910	1290	1	"	"	"	"	"	
93-65-2	MCPB	< 2910	U	µg/kg dry	2910	1290	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	

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Sample Identification

SS-006

SC42525-07

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 09:40

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

HerbicidesChlorinated HerbicidesMethylation date: 22-Dec-17

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150 %			SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	
2552-89-8	DCAA (Sr)	50			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	65			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 64.5	U, D	µg/kg dry	64.5	17.3	10	SW846 8081B	21-Dec-17	04-Jan-18	SM	1721116	X
319-85-7	beta-BHC	< 64.5	U, D	µg/kg dry	64.5	25.6	10	"	"	"	"	"	X
319-86-8	delta-BHC	< 64.5	U, D	µg/kg dry	64.5	18.6	10	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 38.7	U, D	µg/kg dry	38.7	18.6	10	"	"	"	"	"	X
76-44-8	Heptachlor	< 64.5	U, D	µg/kg dry	64.5	21.6	10	"	"	"	"	"	X
309-00-2	Aldrin	< 64.5	U, D	µg/kg dry	64.5	19.9	10	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 64.5	U, D	µg/kg dry	64.5	22.8	10	"	"	"	"	"	X
959-98-8	Endosulfan I	< 64.5	U, D	µg/kg dry	64.5	22.7	10	"	"	"	"	"	X
60-57-1	Dieldrin	< 64.5	U, D	µg/kg dry	64.5	22.7	10	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 64.5	U, D	µg/kg dry	64.5	20.4	10	"	"	"	"	"	X
72-20-8	Endrin	< 103	U, D	µg/kg dry	103	22.7	10	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 103	U, D	µg/kg dry	103	24.3	10	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 103	U, D	µg/kg dry	103	22.5	10	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 103	U, D	µg/kg dry	103	21.6	10	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 103	U, D	µg/kg dry	103	19.9	10	"	"	"	"	"	X
72-43-5	Methoxychlor	< 103	U, D	µg/kg dry	103	22.8	10	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 103	U, D	µg/kg dry	103	23.2	10	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 103	U, D	µg/kg dry	103	21.6	10	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 64.5	U, D	µg/kg dry	64.5	22.1	10	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 64.5	U, D	µg/kg dry	64.5	23.2	10	"	"	"	"	"	X
8001-35-2	Toxaphene	< 1290	U, D	µg/kg dry	1290	279	10	"	"	"	"	"	X
57-74-9	Chlordane	< 258	U, D	µg/kg dry	258	255	10	"	"	"	"	"	X
15972-60-8	Alachlor	< 64.5	U, D	µg/kg dry	64.5	31.6	10	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	73			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	69			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	84			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	103			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 171	U, D	mg/kg dry	171	114	5	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
68476-31-3	Fuel Oil #4	< 171	U, D	mg/kg dry	171	171	5	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 171	U, D	mg/kg dry	171	171	5	"	"	"	"	"	
M09800000	Motor Oil	< 171	U, D	mg/kg dry	171	171	5	"	"	"	"	"	
J00100000	Aviation Fuel	< 171	U, D	mg/kg dry	171	171	5	"	"	"	"	"	

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Sample Identification

SS-006

SC42525-07

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 09:40

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons													
Diesel Range Organics													
			R01										
	Unidentified	458	D	mg/kg dry	171	171	5	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
	Other Oil	Calculated as		mg/kg dry	171	171	5	"	"	"	"	"	
	Diesel Range Organics (DRO) C10-C28	458	D,DRO	mg/kg dry	171	114	5	"	"	"	"	"	X
Surrogate recoveries:													
3386-33-2	1-Chlorooctadecane	86			40-140 %			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-22-4	Silver	< 1.93	U	mg/kg dry	1.93	0.208	1	SW846 6010C	28-Dec-17	10-Jan-18	SJR/T	1721203	X
7440-38-2	Arsenic	11.3		mg/kg dry	1.93	0.244	1	"	"	"	"	"	X
7440-39-3	Barium	95.9		mg/kg dry	1.29	0.152	1	"	"	"	"	"	X
7440-43-9	Cadmium	1.15		mg/kg dry	0.643	0.0333	1	"	"	"	"	"	X
7440-47-3	Chromium	11.1		mg/kg dry	1.29	0.171	1	"	"	"	"	"	X
7439-97-6	Mercury	0.188		mg/kg dry	0.0339	0.0094	1	SW846 7471B	03-Jan-18	05-Jan-18	ABW	1721204	X
Prepared by method SW846 3051A													
7439-92-1	Lead	37.7		mg/kg dry	1.95	0.275	1	SW846 6010C	11-Jan-18	12-Jan-18	SJR/T	1800406	X
Prepared by method SW846 3050B													
7782-49-2	Selenium	0.630	J	mg/kg dry	1.93	0.368	1	"	28-Dec-17	10-Jan-18	"	1721203	X
General Chemistry Parameters													
	% Solids	76.5		%			1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720888	
Toxicity Characteristics													
	Ignitability by Definition	Negative	IgHT	N/A			1	SW846 1030	19-Dec-17 10:54	19-Dec-17 12:05	BD	1720970	X
Reactivity Cyanide/Sulfide													
	Reactivity	See Narrative		mg/kg dry			1	SW846 Ch. 7.3	20-Dec-17	28-Dec-17	TN	1721061	
57-12-5	Reactive Cyanide	< 24.9	U	mg/kg dry	24.9	24.9	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 49.9	U	mg/kg dry	49.9	49.9	1	"	"	"	"	"	

Sample Identification

SS-007

SC42525-08

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 10:10

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			BD	1720930	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
Initial weight: 5.08 g													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 9.87	U	µg/kg dry	9.87	5.01	1	SW846 8260C	21-Dec-17	21-Dec-17	GMA	1721132	X
67-64-1	Acetone	< 98.7	U	µg/kg dry	98.7	39.5	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 9.87	U	µg/kg dry	9.87	9.49	1	"	"	"	"	"	X
71-43-2	Benzene	< 9.87	U	µg/kg dry	9.87	2.62	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 9.87	U	µg/kg dry	9.87	2.64	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 9.87	U	µg/kg dry	9.87	4.99	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 9.87	U	µg/kg dry	9.87	6.59	1	"	"	"	"	"	X
75-25-2	Bromoform	< 9.87	U	µg/kg dry	9.87	9.42	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 19.7	U	µg/kg dry	19.7	8.92	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 19.7	U	µg/kg dry	19.7	17.7	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 9.87	U	µg/kg dry	9.87	2.82	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 9.87	U	µg/kg dry	9.87	1.80	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 9.87	U	µg/kg dry	9.87	2.21	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 19.7	U	µg/kg dry	19.7	6.32	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 9.87	U	µg/kg dry	9.87	8.08	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 9.87	U	µg/kg dry	9.87	3.09	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 19.7	U	µg/kg dry	19.7	5.48	1	"	"	"	"	"	X
67-66-3	Chloroform	< 9.87	U	µg/kg dry	9.87	5.30	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 19.7	U	µg/kg dry	19.7	4.08	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 9.87	U	µg/kg dry	9.87	2.46	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 9.87	U	µg/kg dry	9.87	2.32	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 19.7	U	µg/kg dry	19.7	14.3	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 9.87	U	µg/kg dry	9.87	6.69	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 9.87	U	µg/kg dry	9.87	6.63	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 9.87	U	µg/kg dry	9.87	5.13	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 9.87	U	µg/kg dry	9.87	2.57	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 9.87	U	µg/kg dry	9.87	2.14	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 9.87	U	µg/kg dry	9.87	2.92	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 19.7	U	µg/kg dry	19.7	3.74	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 9.87	U	µg/kg dry	9.87	2.59	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 9.87	U	µg/kg dry	9.87	3.53	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 9.87	U	µg/kg dry	9.87	5.16	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 9.87	U	µg/kg dry	9.87	3.66	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 9.87	U	µg/kg dry	9.87	5.23	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 9.87	U	µg/kg dry	9.87	5.17	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 9.87	U	µg/kg dry	9.87	5.11	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 9.87	U	µg/kg dry	9.87	4.66	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 9.87	U	µg/kg dry	9.87	3.18	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 9.87	U	µg/kg dry	9.87	5.95	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 9.87	U	µg/kg dry	9.87	5.18	1	"	"	"	"	"	X

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Sample Identification

SS-007

SC42525-08

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 10:10

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 5.08 g

100-41-4	Ethylbenzene	< 9.87	U	µg/kg dry	9.87	1.42	1	SW846 8260C	21-Dec-17	21-Dec-17	GMA	1721132	X
87-68-3	Hexachlorobutadiene	< 9.87	U	µg/kg dry	9.87	4.96	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 19.7	U	µg/kg dry	19.7	12.1	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 9.87	U	µg/kg dry	9.87	1.95	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 9.87	U	µg/kg dry	9.87	2.12	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 9.87	U	µg/kg dry	9.87	3.63	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 19.7	U	µg/kg dry	19.7	5.07	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 19.7	U	µg/kg dry	19.7	3.92	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 9.87	U	µg/kg dry	9.87	5.87	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 9.87	U	µg/kg dry	9.87	1.60	1	"	"	"	"	"	X
100-42-5	Styrene	< 9.87	U	µg/kg dry	9.87	1.98	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 9.87	U	µg/kg dry	9.87	8.39	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 9.87	U	µg/kg dry	9.87	8.35	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 9.87	U	µg/kg dry	9.87	3.38	1	"	"	"	"	"	X
108-88-3	Toluene	< 9.87	U	µg/kg dry	9.87	3.20	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 9.87	U	µg/kg dry	9.87	3.47	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 9.87	U	µg/kg dry	9.87	7.28	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 9.87	U	µg/kg dry	9.87	3.10	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 9.87	U	µg/kg dry	9.87	3.28	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 9.87	U	µg/kg dry	9.87	7.16	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 9.87	U	µg/kg dry	9.87	2.70	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 9.87	U	µg/kg dry	9.87	5.32	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 9.87	U	µg/kg dry	9.87	7.41	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 9.87	U	µg/kg dry	9.87	2.40	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 9.87	U	µg/kg dry	9.87	1.70	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 9.87	U	µg/kg dry	9.87	3.34	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 19.7	U	µg/kg dry	19.7	1.78	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 9.87	U	µg/kg dry	9.87	2.76	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 19.7	U	µg/kg dry	19.7	15.6	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 9.87	U	µg/kg dry	9.87	8.95	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 9.87	U	µg/kg dry	9.87	3.30	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 9.87	U	µg/kg dry	9.87	5.32	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 9.87	U	µg/kg dry	9.87	1.84	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 98.7	U	µg/kg dry	98.7	64.6	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 197	U	µg/kg dry	197	171	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 49.4	U	µg/kg dry	49.4	22.5	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1970	U	µg/kg dry	1970	368	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	94			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	130			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	108			70-130 %		"	"	"	"	"	"	

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Sample Identification

SS-007

SC42525-08

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 10:10

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 16.07 g

Gasoline Range Organics (C6-C10)	< 9.5	U, D, GRO	mg/kg dry	9.5	1.9	50	SW846 8015D	20-Dec-17	20-Dec-17	SD	1721038	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	106		70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MSPrepared by method SW846 5035A Soil (low level)Initial weight: 5.08 g

Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	21-Dec-17	21-Dec-17	GMA	1721132	

Semivolatile Organic Compounds by GCMSSemivolatile Organic CompoundsPrepared by method SW846 3546

R01

83-32-9	Acenaphthene	< 996	U, D	µg/kg dry	996	496	10	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
208-96-8	Acenaphthylene	< 996	U, D	µg/kg dry	996	491	10	"	"	"	"	"	X
62-53-3	Aniline	< 4930	U, D	µg/kg dry	4930	354	10	"	"	"	"	"	X
120-12-7	Anthracene	< 996	U, D	µg/kg dry	996	476	10	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4930	U, D	µg/kg dry	4930	485	10	"	"	"	"	"	
92-87-5	Benzidine	< 4930	U, D	µg/kg dry	4930	992	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 996	U, D	µg/kg dry	996	526	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 996	U, D	µg/kg dry	996	371	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 996	U, D	µg/kg dry	996	482	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 996	U, D	µg/kg dry	996	400	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 996	U, D	µg/kg dry	996	390	10	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4930	U, D	µg/kg dry	4930	1030	10	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4930	U, D	µg/kg dry	4930	404	10	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4930	U, D	µg/kg dry	4930	438	10	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 2490	U, D	µg/kg dry	2490	357	10	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 2490	U, D	µg/kg dry	2490	384	10	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 2490	U, D	µg/kg dry	2490	615	10	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4930	U, D	µg/kg dry	4930	462	10	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4930	U, D	µg/kg dry	4930	575	10	"	"	"	"	"	X
86-74-8	Carbazole	< 2490	U, D	µg/kg dry	2490	1390	10	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4930	U, D	µg/kg dry	4930	470	10	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 2490	U, D	µg/kg dry	2490	539	10	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4930	U, D	µg/kg dry	4930	456	10	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 2490	U, D	µg/kg dry	2490	444	10	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4930	U, D	µg/kg dry	4930	585	10	"	"	"	"	"	X
218-01-9	Chrysene	< 996	U, D	µg/kg dry	996	497	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 996	U, D	µg/kg dry	996	382	10	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 2490	U, D	µg/kg dry	2490	379	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4930	U, D	µg/kg dry	4930	430	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4930	U, D	µg/kg dry	4930	430	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4930	U, D	µg/kg dry	4930	457	10	"	"	"	"	"	X

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SC42525-08

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Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
			R01										
91-94-1	3,3'-Dichlorobenzidine	< 4930	U, D	µg/kg dry	4930	750	10	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
120-83-2	2,4-Dichlorophenol	< 2490	U, D	µg/kg dry	2490	466	10	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4930	U, D	µg/kg dry	4930	609	10	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4930	U, D	µg/kg dry	4930	539	10	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4930	U, D	µg/kg dry	4930	352	10	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4930	U, D	µg/kg dry	4930	523	10	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4930	U, D	µg/kg dry	4930	633	10	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4930	U, D	µg/kg dry	4930	502	10	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 2490	U, D	µg/kg dry	2490	965	10	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 2490	U, D	µg/kg dry	2490	562	10	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 4930	U, D	µg/kg dry	4930	557	10	"	"	"	"	"	X
206-44-0	Fluoranthene	622	J, D	µg/kg dry	996	526	10	"	"	"	"	"	X
86-73-7	Fluorene	< 996	U, D	µg/kg dry	996	506	10	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 2490	U, D	µg/kg dry	2490	491	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 2490	U, D	µg/kg dry	2490	596	10	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 2490	U, D	µg/kg dry	2490	339	10	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 2490	U, D	µg/kg dry	2490	538	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 996	U, D	µg/kg dry	996	358	10	"	"	"	"	"	X
78-59-1	Isophorone	< 2490	U, D	µg/kg dry	2490	467	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 996	U, D	µg/kg dry	996	602	10	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4930	U, D	µg/kg dry	4930	419	10	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 4930	U, D	µg/kg dry	4930	476	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 996	U, D	µg/kg dry	996	464	10	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4930	U, D	µg/kg dry	4930	418	10	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4930	U, D	µg/kg dry	4930	674	10	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 2490	U, D	µg/kg dry	2490	768	10	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 2490	U, D	µg/kg dry	2490	454	10	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 2490	U, D	µg/kg dry	2490	414	10	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 19700	U, D	µg/kg dry	19700	796	10	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 2490	U, D	µg/kg dry	2490	463	10	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 2490	U, D	µg/kg dry	2490	486	10	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4930	U, D	µg/kg dry	4930	535	10	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 4930	U, D	µg/kg dry	4930	527	10	"	"	"	"	"	X
85-01-8	Phenanthrene	< 996	U, D	µg/kg dry	996	464	10	"	"	"	"	"	X
108-95-2	Phenol	< 4930	U, D	µg/kg dry	4930	324	10	"	"	"	"	"	X
129-00-0	Pyrene	< 996	U, D	µg/kg dry	996	556	10	"	"	"	"	"	X
110-86-1	Pyridine	< 4930	U, D	µg/kg dry	4930	735	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4930	U, D	µg/kg dry	4930	488	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 996	U, D	µg/kg dry	996	490	10	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 4930	U, D	µg/kg dry	4930	444	10	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 2490	U, D	µg/kg dry	2490	445	10	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4930	U, D	µg/kg dry	4930	778	10	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4930	U, D	µg/kg dry	4930	478	10	"	"	"	"	"	X

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Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	75			30-130 %			SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	
367-12-4	2-Fluorophenol	62			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	66			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	58			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	79			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	72			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

R01

Tentatively Identified Compounds	0.0	U, D	µg/kg dry				10	SW846 8270D TICS	"	"	MSL	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 14.8	U	µg/kg dry	14.8	6.64	1	SW846 8082A	21-Dec-17	28-Dec-17	AM	1721117	X
11104-28-2	Aroclor-1221	< 14.8	U	µg/kg dry	14.8	7.88	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 14.8	U	µg/kg dry	14.8	7.42	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 14.8	U	µg/kg dry	14.8	14.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 14.8	U	µg/kg dry	14.8	13.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 14.8	U	µg/kg dry	14.8	9.69	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 14.8	U	µg/kg dry	14.8	7.94	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 14.8	U	µg/kg dry	14.8	12.9	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 14.8	U	µg/kg dry	14.8	6.68	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	45			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	40			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	110			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	75			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3546Methylation date: 22-Dec-17

93-76-5	2,4,5-T	< 9.93	U	µg/kg dry	9.93	5.41	1	SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	X
93-72-1	2,4,5-TP (Silvex)	< 9.93	U	µg/kg dry	9.93	4.08	1	"	"	"	"	"	X
94-75-7	2,4-D	23.7		µg/kg dry	9.93	3.53	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 9.93	U	µg/kg dry	9.93	7.51	1	"	"	"	"	"	X
75-99-0	Dalapon	< 9.93	U	µg/kg dry	9.93	3.97	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 9.93	U	µg/kg dry	9.93	4.05	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 9.93	U	µg/kg dry	9.93	7.26	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 9.93	U	µg/kg dry	9.93	4.03	1	"	"	"	"	"	X
94-74-6	MCPA	< 3330	U	µg/kg dry	3330	1480	1	"	"	"	"	"	X
94-81-5	MCPB	< 3330	U	µg/kg dry	3330	1480	1	"	"	"	"	"	
93-65-2	MCPB	< 3330	U	µg/kg dry	3330	1480	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	105			30-150 %			"	"	"	"	"	

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HerbicidesChlorinated HerbicidesMethylation date: 22-Dec-17

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	95			30-150 %			SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	
2552-89-8	DCAA (Sr)	100			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	105			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 74.1	U, D	µg/kg dry	74.1	19.9	10	SW846 8081B	21-Dec-17	04-Jan-18	SM	1721116	X
319-85-7	beta-BHC	< 74.1	U, D	µg/kg dry	74.1	29.3	10	"	"	"	"	"	X
319-86-8	delta-BHC	< 74.1	U, D	µg/kg dry	74.1	21.3	10	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 44.5	U, D	µg/kg dry	44.5	21.3	10	"	"	"	"	"	X
76-44-8	Heptachlor	< 74.1	U, D	µg/kg dry	74.1	24.7	10	"	"	"	"	"	X
309-00-2	Aldrin	< 74.1	U, D	µg/kg dry	74.1	22.8	10	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 74.1	U, D	µg/kg dry	74.1	26.2	10	"	"	"	"	"	X
959-98-8	Endosulfan I	< 74.1	U, D	µg/kg dry	74.1	26.1	10	"	"	"	"	"	X
60-57-1	Dieldrin	< 74.1	U, D	µg/kg dry	74.1	26.1	10	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 74.1	U, D	µg/kg dry	74.1	23.4	10	"	"	"	"	"	X
72-20-8	Endrin	< 119	U, D	µg/kg dry	119	26.1	10	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 119	U, D	µg/kg dry	119	27.9	10	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 119	U, D	µg/kg dry	119	25.8	10	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 119	U, D	µg/kg dry	119	24.7	10	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 119	U, D	µg/kg dry	119	22.8	10	"	"	"	"	"	X
72-43-5	Methoxychlor	< 119	U, D	µg/kg dry	119	26.2	10	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 119	U, D	µg/kg dry	119	26.7	10	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 119	U, D	µg/kg dry	119	24.7	10	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 74.1	U, D	µg/kg dry	74.1	25.3	10	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 74.1	U, D	µg/kg dry	74.1	26.7	10	"	"	"	"	"	X
8001-35-2	Toxaphene	< 1480	U, D	µg/kg dry	1480	321	10	"	"	"	"	"	X
57-74-9	Chlordane	< 296	U, D	µg/kg dry	296	293	10	"	"	"	"	"	X
15972-60-8	Alachlor	< 74.1	U, D	µg/kg dry	74.1	36.3	10	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	76			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	76			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	83			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 78.0	U, D	mg/kg dry	78.0	51.9	2	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
68476-31-3	Fuel Oil #4	< 78.0	U, D	mg/kg dry	78.0	78.0	2	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 78.0	U, D	mg/kg dry	78.0	78.0	2	"	"	"	"	"	
M09800000	Motor Oil	< 78.0	U, D	mg/kg dry	78.0	78.0	2	"	"	"	"	"	
J00100000	Aviation Fuel	< 78.0	U, D	mg/kg dry	78.0	78.0	2	"	"	"	"	"	

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Sample Identification

SS-007

SC42525-08

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 10:10

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons													
Diesel Range Organics													
			R01										
	Unidentified	142	D	mg/kg dry	78.0	78.0	2	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
	Other Oil	Calculated as		mg/kg dry	78.0	78.0	2	"	"	"	"	"	
	Diesel Range Organics (DRO) C10-C28	142	D,DRO	mg/kg dry	78.0	51.9	2	"	"	"	"	"	X
Surrogate recoveries:													
3386-33-2	1-Chlorooctadecane	40			40-140 %			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-22-4	Silver	< 2.21	U	mg/kg dry	2.21	0.238	1	SW846 6010C	28-Dec-17	10-Jan-18	SJR/T	1721203	X
7440-38-2	Arsenic	9.88		mg/kg dry	2.21	0.280	1	"	"	"	"	"	X
7440-39-3	Barium	69.4		mg/kg dry	1.47	0.174	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.968		mg/kg dry	0.736	0.0381	1	"	"	"	"	"	X
7440-47-3	Chromium	13.2		mg/kg dry	1.47	0.196	1	"	"	"	"	"	X
7439-97-6	Mercury	0.178		mg/kg dry	0.0394	0.0109	1	SW846 7471B	03-Jan-18	05-Jan-18	ABW	1721204	X
Prepared by method SW846 3051A													
7439-92-1	Lead	36.4		mg/kg dry	2.24	0.317	1	SW846 6010C	11-Jan-18	12-Jan-18	SJR/T	1800406	X
Prepared by method SW846 3050B													
7782-49-2	Selenium	< 2.21	U	mg/kg dry	2.21	0.421	1	"	28-Dec-17	10-Jan-18	"	1721203	X
General Chemistry Parameters													
	% Solids	66.7		%			1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720888	
Toxicity Characteristics													
	Ignitability by Definition	Negative	IgHT	N/A			1	SW846 1030	19-Dec-17 10:54	19-Dec-17 12:05	BD	1720970	X
Reactivity Cyanide/Sulfide													
	Reactivity	See Narrative		mg/kg dry			1	SW846 Ch. 7.3	20-Dec-17	28-Dec-17	TN	1721061	
57-12-5	Reactive Cyanide	< 23.7	U	mg/kg dry	23.7	23.7	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 47.5	U	mg/kg dry	47.5	47.5	1	"	"	"	"	"	

Sample Identification

SS-008

SC42525-09

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 10:30

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction				BD	1720930
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
								Initial weight: 5.53 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 6.58	U	µg/kg dry	6.58	3.34	1	SW846 8260C	21-Dec-17	21-Dec-17	GMA	1721132	X
67-64-1	Acetone	< 65.8	U	µg/kg dry	65.8	26.3	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 6.58	U	µg/kg dry	6.58	6.32	1	"	"	"	"	"	X
71-43-2	Benzene	< 6.58	U	µg/kg dry	6.58	1.74	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 6.58	U	µg/kg dry	6.58	1.76	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 6.58	U	µg/kg dry	6.58	3.32	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 6.58	U	µg/kg dry	6.58	4.39	1	"	"	"	"	"	X
75-25-2	Bromoform	< 6.58	U	µg/kg dry	6.58	6.28	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 13.2	U	µg/kg dry	13.2	5.94	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 13.2	U	µg/kg dry	13.2	11.8	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 6.58	U	µg/kg dry	6.58	1.88	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 6.58	U	µg/kg dry	6.58	1.20	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 6.58	U	µg/kg dry	6.58	1.47	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 13.2	U	µg/kg dry	13.2	4.21	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 6.58	U	µg/kg dry	6.58	5.38	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 6.58	U	µg/kg dry	6.58	2.06	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 13.2	U	µg/kg dry	13.2	3.65	1	"	"	"	"	"	X
67-66-3	Chloroform	< 6.58	U	µg/kg dry	6.58	3.53	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 13.2	U	µg/kg dry	13.2	2.72	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 6.58	U	µg/kg dry	6.58	1.64	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 6.58	U	µg/kg dry	6.58	1.55	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 13.2	U	µg/kg dry	13.2	9.51	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 6.58	U	µg/kg dry	6.58	4.46	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 6.58	U	µg/kg dry	6.58	4.41	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 6.58	U	µg/kg dry	6.58	3.42	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 6.58	U	µg/kg dry	6.58	1.71	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 6.58	U	µg/kg dry	6.58	1.43	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 6.58	U	µg/kg dry	6.58	1.95	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 13.2	U	µg/kg dry	13.2	2.49	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 6.58	U	µg/kg dry	6.58	1.72	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 6.58	U	µg/kg dry	6.58	2.35	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 6.58	U	µg/kg dry	6.58	3.44	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 6.58	U	µg/kg dry	6.58	2.44	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 6.58	U	µg/kg dry	6.58	3.49	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 6.58	U	µg/kg dry	6.58	3.45	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 6.58	U	µg/kg dry	6.58	3.41	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 6.58	U	µg/kg dry	6.58	3.10	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 6.58	U	µg/kg dry	6.58	2.12	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 6.58	U	µg/kg dry	6.58	3.97	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 6.58	U	µg/kg dry	6.58	3.45	1	"	"	"	"	"	X

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Sample Identification

SS-008

SC42525-09

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 10:30

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
Initial weight: 5.53 g													
100-41-4	Ethylbenzene	< 6.58	U	µg/kg dry	6.58	0.95	1	SW846 8260C	21-Dec-17	21-Dec-17	GMA	1721132	X
87-68-3	Hexachlorobutadiene	< 6.58	U	µg/kg dry	6.58	3.30	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 13.2	U	µg/kg dry	13.2	8.07	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 6.58	U	µg/kg dry	6.58	1.30	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 6.58	U	µg/kg dry	6.58	1.41	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 6.58	U	µg/kg dry	6.58	2.42	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 13.2	U	µg/kg dry	13.2	3.38	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 13.2	U	µg/kg dry	13.2	2.61	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 6.58	U	µg/kg dry	6.58	3.91	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 6.58	U	µg/kg dry	6.58	1.07	1	"	"	"	"	"	X
100-42-5	Styrene	< 6.58	U	µg/kg dry	6.58	1.32	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 6.58	U	µg/kg dry	6.58	5.59	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 6.58	U	µg/kg dry	6.58	5.57	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 6.58	U	µg/kg dry	6.58	2.25	1	"	"	"	"	"	X
108-88-3	Toluene	< 6.58	U	µg/kg dry	6.58	2.13	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 6.58	U	µg/kg dry	6.58	2.31	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 6.58	U	µg/kg dry	6.58	4.85	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 6.58	U	µg/kg dry	6.58	2.07	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 6.58	U	µg/kg dry	6.58	2.18	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 6.58	U	µg/kg dry	6.58	4.77	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 6.58	U	µg/kg dry	6.58	1.80	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 6.58	U	µg/kg dry	6.58	3.55	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 6.58	U	µg/kg dry	6.58	4.93	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 6.58	U	µg/kg dry	6.58	1.60	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 6.58	U	µg/kg dry	6.58	1.13	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 6.58	U	µg/kg dry	6.58	2.22	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 13.2	U	µg/kg dry	13.2	1.18	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 6.58	U	µg/kg dry	6.58	1.84	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 13.2	U	µg/kg dry	13.2	10.4	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 6.58	U	µg/kg dry	6.58	5.96	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 6.58	U	µg/kg dry	6.58	2.20	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 6.58	U	µg/kg dry	6.58	3.55	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 6.58	U	µg/kg dry	6.58	1.22	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 65.8	U	µg/kg dry	65.8	43.0	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 132	U	µg/kg dry	132	114	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 32.9	U	µg/kg dry	32.9	15.0	1	"	"	"	"	"	X
64-17-5	Ethanol	706	J	µg/kg dry	1320	245	1	"	"	"	"	"	
<u>Surrogate recoveries:</u>													
460-00-4	4-Bromofluorobenzene	92			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	97			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	129			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	107			70-130 %			"	"	"	"	"	

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Sample Identification

SS-008

SC42525-09

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 10:30

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 16.21 g

Gasoline Range Organics (C6-C10)	< 6.7	U, D, GRO	mg/kg dry	6.7	1.4	50	SW846 8015D	20-Dec-17	20-Dec-17	SD	1721038	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	104		70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MSPrepared by method SW846 5035A Soil (low level)Initial weight: 5.53 g

Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	21-Dec-17	21-Dec-17	GMA	1721132	

Semivolatile Organic Compounds by GCMSSemivolatile Organic CompoundsPrepared by method SW846 3546

R01

83-32-9	Acenaphthene	< 809	U, D	µg/kg dry	809	403	10	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
208-96-8	Acenaphthylene	< 809	U, D	µg/kg dry	809	399	10	"	"	"	"	"	X
62-53-3	Aniline	< 4000	U, D	µg/kg dry	4000	288	10	"	"	"	"	"	X
120-12-7	Anthracene	< 809	U, D	µg/kg dry	809	387	10	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4000	U, D	µg/kg dry	4000	394	10	"	"	"	"	"	
92-87-5	Benzidine	< 4000	U, D	µg/kg dry	4000	806	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	526	J, D	µg/kg dry	809	427	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	542	J, D	µg/kg dry	809	301	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	437	J, D	µg/kg dry	809	392	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	408	J, D	µg/kg dry	809	325	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	590	J, D	µg/kg dry	809	317	10	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4000	U, D	µg/kg dry	4000	841	10	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4000	U, D	µg/kg dry	4000	328	10	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4000	U, D	µg/kg dry	4000	355	10	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 2030	U, D	µg/kg dry	2030	290	10	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 2030	U, D	µg/kg dry	2030	312	10	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 2030	U, D	µg/kg dry	2030	500	10	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4000	U, D	µg/kg dry	4000	375	10	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4000	U, D	µg/kg dry	4000	467	10	"	"	"	"	"	X
86-74-8	Carbazole	< 2030	U, D	µg/kg dry	2030	1130	10	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4000	U, D	µg/kg dry	4000	382	10	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 2030	U, D	µg/kg dry	2030	438	10	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4000	U, D	µg/kg dry	4000	370	10	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 2030	U, D	µg/kg dry	2030	360	10	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4000	U, D	µg/kg dry	4000	476	10	"	"	"	"	"	X
218-01-9	Chrysene	546	J, D	µg/kg dry	809	404	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 809	U, D	µg/kg dry	809	311	10	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 2030	U, D	µg/kg dry	2030	308	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4000	U, D	µg/kg dry	4000	349	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4000	U, D	µg/kg dry	4000	349	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4000	U, D	µg/kg dry	4000	371	10	"	"	"	"	"	X

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Sample Identification

SS-008

SC42525-09

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 10:30

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>				R01									
91-94-1	3,3'-Dichlorobenzidine	< 4000	U, D	µg/kg dry	4000	609	10	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
120-83-2	2,4-Dichlorophenol	< 2030	U, D	µg/kg dry	2030	379	10	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4000	U, D	µg/kg dry	4000	495	10	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4000	U, D	µg/kg dry	4000	438	10	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4000	U, D	µg/kg dry	4000	286	10	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4000	U, D	µg/kg dry	4000	425	10	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4000	U, D	µg/kg dry	4000	514	10	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4000	U, D	µg/kg dry	4000	408	10	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 2030	U, D	µg/kg dry	2030	784	10	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 2030	U, D	µg/kg dry	2030	456	10	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 4000	U, D	µg/kg dry	4000	452	10	"	"	"	"	"	X
206-44-0	Fluoranthene	1,160	D	µg/kg dry	809	428	10	"	"	"	"	"	X
86-73-7	Fluorene	< 809	U, D	µg/kg dry	809	411	10	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 2030	U, D	µg/kg dry	2030	399	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 2030	U, D	µg/kg dry	2030	484	10	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 2030	U, D	µg/kg dry	2030	275	10	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 2030	U, D	µg/kg dry	2030	437	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	372	J, D	µg/kg dry	809	291	10	"	"	"	"	"	X
78-59-1	Isophorone	< 2030	U, D	µg/kg dry	2030	380	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 809	U, D	µg/kg dry	809	489	10	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4000	U, D	µg/kg dry	4000	340	10	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 4000	U, D	µg/kg dry	4000	387	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 809	U, D	µg/kg dry	809	377	10	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4000	U, D	µg/kg dry	4000	340	10	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4000	U, D	µg/kg dry	4000	547	10	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 2030	U, D	µg/kg dry	2030	624	10	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 2030	U, D	µg/kg dry	2030	369	10	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 2030	U, D	µg/kg dry	2030	336	10	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 16000	U, D	µg/kg dry	16000	647	10	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 2030	U, D	µg/kg dry	2030	376	10	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 2030	U, D	µg/kg dry	2030	395	10	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4000	U, D	µg/kg dry	4000	434	10	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 4000	U, D	µg/kg dry	4000	428	10	"	"	"	"	"	X
85-01-8	Phenanthrene	603	J, D	µg/kg dry	809	377	10	"	"	"	"	"	X
108-95-2	Phenol	< 4000	U, D	µg/kg dry	4000	264	10	"	"	"	"	"	X
129-00-0	Pyrene	950	D	µg/kg dry	809	451	10	"	"	"	"	"	X
110-86-1	Pyridine	< 4000	U, D	µg/kg dry	4000	597	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4000	U, D	µg/kg dry	4000	397	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 809	U, D	µg/kg dry	809	398	10	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 4000	U, D	µg/kg dry	4000	360	10	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 2030	U, D	µg/kg dry	2030	361	10	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4000	U, D	µg/kg dry	4000	632	10	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4000	U, D	µg/kg dry	4000	388	10	"	"	"	"	"	X

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Sample Identification

SS-008

SC42525-09

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 10:30

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	87			30-130 %			SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	
367-12-4	2-Fluorophenol	73			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	75			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	74			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	92			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	90			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

R01

Tentatively Identified Compounds	0.0	U, D	µg/kg dry				10	SW846 8270D TICS	"	"	MSL	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 12.0	U	µg/kg dry	12.0	5.38	1	SW846 8082A	21-Dec-17	28-Dec-17	AM	1721117	X
11104-28-2	Aroclor-1221	< 12.0	U	µg/kg dry	12.0	6.39	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 12.0	U	µg/kg dry	12.0	6.01	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 12.0	U	µg/kg dry	12.0	11.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 12.0	U	µg/kg dry	12.0	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	39.6		µg/kg dry	12.0	7.85	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	18.6		µg/kg dry	12.0	6.43	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 12.0	U	µg/kg dry	12.0	10.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 12.0	U	µg/kg dry	12.0	5.42	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	55			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	55			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	125			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3546Methylation date: 22-Dec-17

93-76-5	2,4,5-T	< 8.05	U	µg/kg dry	8.05	4.39	1	SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	X
93-72-1	2,4,5-TP (Silvex)	< 8.05	U	µg/kg dry	8.05	3.31	1	"	"	"	"	"	X
94-75-7	2,4-D [2C]	16.0		µg/kg dry	8.05	3.19	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 8.05	U	µg/kg dry	8.05	6.09	1	"	"	"	"	"	X
75-99-0	Dalapon	< 8.05	U	µg/kg dry	8.05	3.22	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 8.05	U	µg/kg dry	8.05	3.28	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 8.05	U	µg/kg dry	8.05	5.89	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 8.05	U	µg/kg dry	8.05	3.27	1	"	"	"	"	"	X
94-74-6	MCPA	< 2710	U	µg/kg dry	2710	1200	1	"	"	"	"	"	X
94-81-5	MCPB	< 2710	U	µg/kg dry	2710	1200	1	"	"	"	"	"	
93-65-2	MCPB	< 2710	U	µg/kg dry	2710	1200	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	105			30-150 %			"	"	"	"	"	

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Matrix

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HerbicidesChlorinated HerbicidesMethylation date: 22-Dec-17

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	
2552-89-8	DCAA (Sr)	55			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	50			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 60.0	U, D	µg/kg dry	60.0	16.1	10	SW846 8081B	21-Dec-17	04-Jan-18	SM	1721116	X
319-85-7	beta-BHC	< 60.0	U, D	µg/kg dry	60.0	23.8	10	"	"	"	"	"	X
319-86-8	delta-BHC	< 60.0	U, D	µg/kg dry	60.0	17.3	10	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 36.0	U, D	µg/kg dry	36.0	17.3	10	"	"	"	"	"	X
76-44-8	Heptachlor	< 60.0	U, D	µg/kg dry	60.0	20.1	10	"	"	"	"	"	X
309-00-2	Aldrin	< 60.0	U, D	µg/kg dry	60.0	18.5	10	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 60.0	U, D	µg/kg dry	60.0	21.3	10	"	"	"	"	"	X
959-98-8	Endosulfan I	< 60.0	U, D	µg/kg dry	60.0	21.1	10	"	"	"	"	"	X
60-57-1	Dieldrin	< 60.0	U, D	µg/kg dry	60.0	21.1	10	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 60.0	U, D	µg/kg dry	60.0	19.0	10	"	"	"	"	"	X
72-20-8	Endrin	< 96.1	U, D	µg/kg dry	96.1	21.1	10	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 96.1	U, D	µg/kg dry	96.1	22.6	10	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 96.1	U, D	µg/kg dry	96.1	20.9	10	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 96.1	U, D	µg/kg dry	96.1	20.1	10	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 96.1	U, D	µg/kg dry	96.1	18.5	10	"	"	"	"	"	X
72-43-5	Methoxychlor	< 96.1	U, D	µg/kg dry	96.1	21.3	10	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 96.1	U, D	µg/kg dry	96.1	21.6	10	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 96.1	U, D	µg/kg dry	96.1	20.1	10	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 60.0	U, D	µg/kg dry	60.0	20.5	10	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 60.0	U, D	µg/kg dry	60.0	21.6	10	"	"	"	"	"	X
8001-35-2	Toxaphene	< 1200	U, D	µg/kg dry	1200	260	10	"	"	"	"	"	X
57-74-9	Chlordane	< 240	U, D	µg/kg dry	240	238	10	"	"	"	"	"	X
15972-60-8	Alachlor	< 60.0	U, D	µg/kg dry	60.0	29.4	10	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	87			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	87			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	131			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	96			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 158	U, D	mg/kg dry	158	105	5	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
68476-31-3	Fuel Oil #4	< 158	U, D	mg/kg dry	158	158	5	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 158	U, D	mg/kg dry	158	158	5	"	"	"	"	"	
M09800000	Motor Oil	< 158	U, D	mg/kg dry	158	158	5	"	"	"	"	"	
J00100000	Aviation Fuel	< 158	U, D	mg/kg dry	158	158	5	"	"	"	"	"	

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Sample Identification

SS-008

SC42525-09

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 10:30

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18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons													
Diesel Range Organics				R01									
	Unidentified	408	D	mg/kg dry	158	158	5	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
	Other Oil	Calculated as		mg/kg dry	158	158	5	"	"	"	"	"	
	Diesel Range Organics (DRO) C10-C28	408	D,DRO	mg/kg dry	158	105	5	"	"	"	"	"	X
Surrogate recoveries:													
3386-33-2	1-Chlorooctadecane	79			40-140 %			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
<u>Prepared by method SW846 3050B</u>													
7440-22-4	Silver	< 1.79	U	mg/kg dry	1.79	0.193	1	SW846 6010C	28-Dec-17	10-Jan-18	SJR/T	1721203	X
7440-38-2	Arsenic	10.6		mg/kg dry	1.79	0.227	1	"	"	"	"	"	X
7440-39-3	Barium	69.7		mg/kg dry	1.19	0.141	1	"	"	"	"	"	X
7440-43-9	Cadmium	1.03		mg/kg dry	0.597	0.0309	1	"	"	"	"	"	X
7440-47-3	Chromium	10.5		mg/kg dry	1.19	0.159	1	"	"	"	"	"	X
7439-97-6	Mercury	0.0784		mg/kg dry	0.0318	0.0088	1	SW846 7471B	03-Jan-18	05-Jan-18	ABW	1721204	X
<u>Prepared by method SW846 3051A</u>													
7439-92-1	Lead	23.2		mg/kg dry	1.79	0.253	1	SW846 6010C	11-Jan-18	12-Jan-18	SJR/T	1800406	X
<u>Prepared by method SW846 3050B</u>													
7782-49-2	Selenium	< 1.79	U	mg/kg dry	1.79	0.341	1	"	28-Dec-17	10-Jan-18	"	1721203	X
General Chemistry Parameters													
	% Solids	82.2		%			1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720888	
Toxicity Characteristics													
	Ignitability by Definition	Negative	IgHT	N/A			1	SW846 1030	19-Dec-17 10:54	19-Dec-17 12:05	BD	1720970	X
Reactivity Cyanide/Sulfide													
	Reactivity	See Narrative		mg/kg dry			1	SW846 Ch. 7.3	20-Dec-17	28-Dec-17	TN	1721061	
57-12-5	Reactive Cyanide	< 23.0	U	mg/kg dry	23.0	23.0	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 45.9	U	mg/kg dry	45.9	45.9	1	"	"	"	"	"	

Sample Identification

SS-009

SC42525-10

Client Project #

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Matrix

Soil

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Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction				BD	1720930
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
								Initial weight: 3.91 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 9.56	U	µg/kg dry	9.56	4.85	1	SW846 8260C	22-Dec-17	22-Dec-17	GMA	1721214	X
67-64-1	Acetone	< 95.6	U	µg/kg dry	95.6	38.2	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 9.56	U	µg/kg dry	9.56	9.19	1	"	"	"	"	"	X
71-43-2	Benzene	< 9.56	U	µg/kg dry	9.56	2.53	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 9.56	U	µg/kg dry	9.56	2.55	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 9.56	U	µg/kg dry	9.56	4.83	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 9.56	U	µg/kg dry	9.56	6.38	1	"	"	"	"	"	X
75-25-2	Bromoform	< 9.56	U	µg/kg dry	9.56	9.12	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 19.1	U	µg/kg dry	19.1	8.63	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 19.1	U	µg/kg dry	19.1	17.1	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 9.56	U	µg/kg dry	9.56	2.73	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 9.56	U	µg/kg dry	9.56	1.74	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 9.56	U	µg/kg dry	9.56	2.14	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 19.1	U	µg/kg dry	19.1	6.12	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 9.56	U	µg/kg dry	9.56	7.82	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 9.56	U	µg/kg dry	9.56	2.99	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 19.1	U	µg/kg dry	19.1	5.31	1	"	"	"	"	"	X
67-66-3	Chloroform	< 9.56	U	µg/kg dry	9.56	5.13	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 19.1	U	µg/kg dry	19.1	3.95	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 9.56	U	µg/kg dry	9.56	2.38	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 9.56	U	µg/kg dry	9.56	2.25	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 19.1	U	µg/kg dry	19.1	13.8	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 9.56	U	µg/kg dry	9.56	6.48	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 9.56	U	µg/kg dry	9.56	6.42	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 9.56	U	µg/kg dry	9.56	4.97	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 9.56	U	µg/kg dry	9.56	2.49	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 9.56	U	µg/kg dry	9.56	2.07	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 9.56	U	µg/kg dry	9.56	2.83	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 19.1	U	µg/kg dry	19.1	3.62	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 9.56	U	µg/kg dry	9.56	2.50	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 9.56	U	µg/kg dry	9.56	3.42	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 9.56	U	µg/kg dry	9.56	5.00	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 9.56	U	µg/kg dry	9.56	3.55	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 9.56	U	µg/kg dry	9.56	5.07	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 9.56	U	µg/kg dry	9.56	5.01	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 9.56	U	µg/kg dry	9.56	4.95	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 9.56	U	µg/kg dry	9.56	4.51	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 9.56	U	µg/kg dry	9.56	3.08	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 9.56	U	µg/kg dry	9.56	5.77	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 9.56	U	µg/kg dry	9.56	5.02	1	"	"	"	"	"	X

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Sample Identification

SS-009

SC42525-10

Client Project

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 10:55

Received

18-Dec-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Initial weight: 3.91 g													
100-41-4	Ethylbenzene	< 9.56	U	µg/kg dry	9.56	1.38	1	SW846 8260C	22-Dec-17	22-Dec-17	GMA	1721214	X
87-68-3	Hexachlorobutadiene	< 9.56	U	µg/kg dry	9.56	4.80	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 19.1	U	µg/kg dry	19.1	11.7	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 9.56	U	µg/kg dry	9.56	1.88	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 9.56	U	µg/kg dry	9.56	2.06	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 9.56	U	µg/kg dry	9.56	3.52	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 19.1	U	µg/kg dry	19.1	4.91	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 19.1	U	µg/kg dry	19.1	3.80	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 9.56	U	µg/kg dry	9.56	5.69	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 9.56	U	µg/kg dry	9.56	1.55	1	"	"	"	"	"	X
100-42-5	Styrene	< 9.56	U	µg/kg dry	9.56	1.92	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 9.56	U	µg/kg dry	9.56	8.13	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 9.56	U	µg/kg dry	9.56	8.09	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 9.56	U	µg/kg dry	9.56	3.27	1	"	"	"	"	"	X
108-88-3	Toluene	< 9.56	U	µg/kg dry	9.56	3.10	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 9.56	U	µg/kg dry	9.56	3.36	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 9.56	U	µg/kg dry	9.56	7.05	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 9.56	U	µg/kg dry	9.56	3.00	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 9.56	U	µg/kg dry	9.56	3.17	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 9.56	U	µg/kg dry	9.56	6.93	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 9.56	U	µg/kg dry	9.56	2.61	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 9.56	U	µg/kg dry	9.56	5.15	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 9.56	U	µg/kg dry	9.56	7.17	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 9.56	U	µg/kg dry	9.56	2.32	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 9.56	U	µg/kg dry	9.56	1.64	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 9.56	U	µg/kg dry	9.56	3.23	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 19.1	U	µg/kg dry	19.1	1.72	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 9.56	U	µg/kg dry	9.56	2.68	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 19.1	U	µg/kg dry	19.1	15.1	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 9.56	U	µg/kg dry	9.56	8.66	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 9.56	U	µg/kg dry	9.56	3.19	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 9.56	U	µg/kg dry	9.56	5.15	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 9.56	U	µg/kg dry	9.56	1.78	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 95.6	U	µg/kg dry	95.6	62.6	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 191	U	µg/kg dry	191	166	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 47.8	U	µg/kg dry	47.8	21.8	1	"	"	"	"	"	X
64-17-5	Ethanol	1,270	J	µg/kg dry	1910	357	1	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	4-Bromofluorobenzene	92			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	131	SGCMS VOC		70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	109			70-130 %			"	"	"	"	"	

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Sample Identification

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SC42525-10

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0172.0210M010

Matrix

Soil

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<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 14.93 g

Gasoline Range Organics (C6-C10)	< 7.8	U, D, GRO	mg/kg dry	7.8	1.6	50	SW846 8015D	20-Dec-17	20-Dec-17	SD	1721038	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	102		70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MSPrepared by method SW846 5035A Soil (low level)Initial weight: 3.91 g

Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	22-Dec-17	22-Dec-17	GMA	1721214	

Semivolatile Organic Compounds by GCMSSemivolatile Organic CompoundsPrepared by method SW846 3546

R01

83-32-9	Acenaphthene	< 425	U, D	µg/kg dry	425	211	5	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
208-96-8	Acenaphthylene	< 425	U, D	µg/kg dry	425	209	5	"	"	"	"	"	X
62-53-3	Aniline	< 2100	U, D	µg/kg dry	2100	151	5	"	"	"	"	"	X
120-12-7	Anthracene	< 425	U, D	µg/kg dry	425	203	5	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 2100	U, D	µg/kg dry	2100	207	5	"	"	"	"	"	
92-87-5	Benzidine	< 2100	U, D	µg/kg dry	2100	423	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	537	D	µg/kg dry	425	224	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	584	D	µg/kg dry	425	158	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	654	D	µg/kg dry	425	206	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	429	D	µg/kg dry	425	171	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	467	D	µg/kg dry	425	166	5	"	"	"	"	"	X
65-85-0	Benzoic acid	< 2100	U, D	µg/kg dry	2100	441	5	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 2100	U, D	µg/kg dry	2100	172	5	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 2100	U, D	µg/kg dry	2100	187	5	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 1060	U, D	µg/kg dry	1060	152	5	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 1060	U, D	µg/kg dry	1060	164	5	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 1060	U, D	µg/kg dry	1060	262	5	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 2100	U, D	µg/kg dry	2100	197	5	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 2100	U, D	µg/kg dry	2100	245	5	"	"	"	"	"	X
86-74-8	Carbazole	< 1060	U, D	µg/kg dry	1060	593	5	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 2100	U, D	µg/kg dry	2100	201	5	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 1060	U, D	µg/kg dry	1060	230	5	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 2100	U, D	µg/kg dry	2100	194	5	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 1060	U, D	µg/kg dry	1060	189	5	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 2100	U, D	µg/kg dry	2100	250	5	"	"	"	"	"	X
218-01-9	Chrysene	630	D	µg/kg dry	425	212	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 425	U, D	µg/kg dry	425	163	5	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 1060	U, D	µg/kg dry	1060	162	5	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 2100	U, D	µg/kg dry	2100	183	5	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 2100	U, D	µg/kg dry	2100	183	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 2100	U, D	µg/kg dry	2100	195	5	"	"	"	"	"	X

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Sample Identification

SS-009

SC42525-10

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 10:55

Received

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
			R01										
91-94-1	3,3'-Dichlorobenzidine	< 2100	U, D	µg/kg dry	2100	320	5	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
120-83-2	2,4-Dichlorophenol	< 1060	U, D	µg/kg dry	1060	199	5	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 2100	U, D	µg/kg dry	2100	260	5	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 2100	U, D	µg/kg dry	2100	230	5	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 2100	U, D	µg/kg dry	2100	150	5	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 2100	U, D	µg/kg dry	2100	223	5	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 2100	U, D	µg/kg dry	2100	270	5	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 2100	U, D	µg/kg dry	2100	214	5	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 1060	U, D	µg/kg dry	1060	411	5	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 1060	U, D	µg/kg dry	1060	239	5	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 2100	U, D	µg/kg dry	2100	237	5	"	"	"	"	"	X
206-44-0	Fluoranthene	1,170	D	µg/kg dry	425	224	5	"	"	"	"	"	X
86-73-7	Fluorene	< 425	U, D	µg/kg dry	425	216	5	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 1060	U, D	µg/kg dry	1060	209	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 1060	U, D	µg/kg dry	1060	254	5	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 1060	U, D	µg/kg dry	1060	145	5	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 1060	U, D	µg/kg dry	1060	229	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	420	J, D	µg/kg dry	425	153	5	"	"	"	"	"	X
78-59-1	Isophorone	< 1060	U, D	µg/kg dry	1060	199	5	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 425	U, D	µg/kg dry	425	257	5	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 2100	U, D	µg/kg dry	2100	179	5	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 2100	U, D	µg/kg dry	2100	203	5	"	"	"	"	"	X
91-20-3	Naphthalene	< 425	U, D	µg/kg dry	425	198	5	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 2100	U, D	µg/kg dry	2100	178	5	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 2100	U, D	µg/kg dry	2100	287	5	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 1060	U, D	µg/kg dry	1060	327	5	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 1060	U, D	µg/kg dry	1060	194	5	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 1060	U, D	µg/kg dry	1060	176	5	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 8400	U, D	µg/kg dry	8400	339	5	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 1060	U, D	µg/kg dry	1060	197	5	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 1060	U, D	µg/kg dry	1060	207	5	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 2100	U, D	µg/kg dry	2100	228	5	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 2100	U, D	µg/kg dry	2100	224	5	"	"	"	"	"	X
85-01-8	Phenanthrene	581	D	µg/kg dry	425	198	5	"	"	"	"	"	X
108-95-2	Phenol	< 2100	U, D	µg/kg dry	2100	138	5	"	"	"	"	"	X
129-00-0	Pyrene	1,010	D	µg/kg dry	425	237	5	"	"	"	"	"	X
110-86-1	Pyridine	< 2100	U, D	µg/kg dry	2100	313	5	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 2100	U, D	µg/kg dry	2100	208	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 425	U, D	µg/kg dry	425	209	5	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 2100	U, D	µg/kg dry	2100	189	5	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 1060	U, D	µg/kg dry	1060	190	5	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 2100	U, D	µg/kg dry	2100	332	5	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 2100	U, D	µg/kg dry	2100	204	5	"	"	"	"	"	X

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Sample Identification

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SC42525-10

Client Project #

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Matrix

Soil

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Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	74			30-130 %			SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	
367-12-4	2-Fluorophenol	63			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	70			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	64			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	79			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	78			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

R01

007390-81-0	Oxirane, hexadecyl-	980	J N, D	µg/kg dry			5	SW846 8270D TICS	"	"	MSL	"	
014811-95-1	1,19-Eicosadiene	1,000	J N, D	µg/kg dry			5	"	"	"	"	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 12.6	U	µg/kg dry	12.6	5.66	1	SW846 8082A	21-Dec-17	28-Dec-17	AM	1721117	X
11104-28-2	Aroclor-1221	< 12.6	U	µg/kg dry	12.6	6.72	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 12.6	U	µg/kg dry	12.6	6.33	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 12.6	U	µg/kg dry	12.6	12.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 12.6	U	µg/kg dry	12.6	11.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 12.6	U	µg/kg dry	12.6	8.27	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	15.2		µg/kg dry	12.6	6.77	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 12.6	U	µg/kg dry	12.6	11.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 12.6	U	µg/kg dry	12.6	5.70	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	50			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3546Methylation date: 22-Dec-17

93-76-5	2,4,5-T	< 8.40	U	µg/kg dry	8.40	4.58	1	SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	X
93-72-1	2,4,5-TP (Silvex)	< 8.40	U	µg/kg dry	8.40	3.45	1	"	"	"	"	"	X
94-75-7	2,4-D [2C]	23.4		µg/kg dry	8.40	3.33	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 8.40	U	µg/kg dry	8.40	6.35	1	"	"	"	"	"	X
75-99-0	Dalapon	< 8.40	U	µg/kg dry	8.40	3.36	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 8.40	U	µg/kg dry	8.40	3.42	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 8.40	U	µg/kg dry	8.40	6.14	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 8.40	U	µg/kg dry	8.40	3.41	1	"	"	"	"	"	X
94-74-6	MCPA	< 2820	U	µg/kg dry	2820	1260	1	"	"	"	"	"	X
94-81-5	MCPB	< 2820	U	µg/kg dry	2820	1260	1	"	"	"	"	"	
93-65-2	MCPB	< 2820	U	µg/kg dry	2820	1260	1	"	"	"	"	"	X

Surrogate recoveries:*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

SS-009

SC42525-10

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 10:55

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

HerbicidesChlorinated HerbicidesMethylation date: 22-Dec-17

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	135			30-150 %			SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	115			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr)	105			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	80			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 63.2	U, D	µg/kg dry	63.2	16.9	10	SW846 8081B	21-Dec-17	04-Jan-18	SM	1721116	X
319-85-7	beta-BHC	< 63.2	U, D	µg/kg dry	63.2	25.0	10	"	"	"	"	"	X
319-86-8	delta-BHC	< 63.2	U, D	µg/kg dry	63.2	18.2	10	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 37.9	U, D	µg/kg dry	37.9	18.2	10	"	"	"	"	"	X
76-44-8	Heptachlor	< 63.2	U, D	µg/kg dry	63.2	21.1	10	"	"	"	"	"	X
309-00-2	Aldrin	< 63.2	U, D	µg/kg dry	63.2	19.5	10	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 63.2	U, D	µg/kg dry	63.2	22.4	10	"	"	"	"	"	X
959-98-8	Endosulfan I	< 63.2	U, D	µg/kg dry	63.2	22.2	10	"	"	"	"	"	X
60-57-1	Dieldrin	< 63.2	U, D	µg/kg dry	63.2	22.2	10	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 63.2	U, D	µg/kg dry	63.2	20.0	10	"	"	"	"	"	X
72-20-8	Endrin	< 101	U, D	µg/kg dry	101	22.2	10	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 101	U, D	µg/kg dry	101	23.8	10	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 101	U, D	µg/kg dry	101	22.0	10	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 101	U, D	µg/kg dry	101	21.1	10	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 101	U, D	µg/kg dry	101	19.5	10	"	"	"	"	"	X
72-43-5	Methoxychlor	< 101	U, D	µg/kg dry	101	22.4	10	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 101	U, D	µg/kg dry	101	22.8	10	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 101	U, D	µg/kg dry	101	21.1	10	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 63.2	U, D	µg/kg dry	63.2	21.6	10	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 63.2	U, D	µg/kg dry	63.2	22.8	10	"	"	"	"	"	X
8001-35-2	Toxaphene	< 1260	U, D	µg/kg dry	1260	273	10	"	"	"	"	"	X
57-74-9	Chlordane	< 253	U, D	µg/kg dry	253	250	10	"	"	"	"	"	X
15972-60-8	Alachlor	< 63.2	U, D	µg/kg dry	63.2	31.0	10	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	77			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	74			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	89			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	104			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 166	U, D	mg/kg dry	166	110	5	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
68476-31-3	Fuel Oil #4	< 166	U, D	mg/kg dry	166	166	5	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 166	U, D	mg/kg dry	166	166	5	"	"	"	"	"	
M09800000	Motor Oil	< 166	U, D	mg/kg dry	166	166	5	"	"	"	"	"	

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Sample Identification

SS-009

SC42525-10

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 10:55

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

J00100000	Aviation Fuel	< 166	U, D	mg/kg dry	166	166	5	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
	Unidentified	494	D	mg/kg dry	166	166	5	"	"	"	"	"	
	Other Oil	Calculated as		mg/kg dry	166	166	5	"	"	"	"	"	
	Diesel Range Organics (DRO) C10-C28	494	D,DRO	mg/kg dry	166	110	5	"	"	"	"	"	X

Surrogate recoveries:

3386-33-2	1-Chlorooctadecane	86			40-140 %			"	"	"	"	"	

Total Metals by EPA 6000/7000 Series MethodsPrepared by method SW846 3050B

7440-22-4	Silver	< 1.89	U	mg/kg dry	1.89	0.204	1	SW846 6010C	28-Dec-17	10-Jan-18	SJR/T	1721203	X
7440-38-2	Arsenic	30.9		mg/kg dry	1.89	0.239	1	"	"	"	"	"	X
7440-39-3	Barium	71.3		mg/kg dry	1.26	0.149	1	"	"	"	"	"	X
7440-43-9	Cadmium	2.18		mg/kg dry	0.629	0.0326	1	"	"	"	"	"	X
7440-47-3	Chromium	10.9		mg/kg dry	1.26	0.167	1	"	"	"	"	"	X
7439-97-6	Mercury	0.239		mg/kg dry	0.0377	0.0105	1	SW846 7471B	03-Jan-18	05-Jan-18	ABW	1721204	X

Prepared by method SW846 3051A

7439-92-1	Lead	52.2		mg/kg dry	1.90	0.268	1	SW846 6010C	11-Jan-18	12-Jan-18	SJR/T	1800406	X

Prepared by method SW846 3050B

7782-49-2	Selenium	< 1.89	U	mg/kg dry	1.89	0.360	1	"	28-Dec-17	10-Jan-18	"	1721203	X

General Chemistry Parameters

% Solids	78.2			%			1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720888	

Toxicity Characteristics

Ignitability by Definition	Negative	IgHT	N/A				1	SW846 1030	19-Dec-17 10:54	19-Dec-17 12:05	BD	1720970	X

Reactivity Cyanide/Sulfide

Reactivity	See Narrative			mg/kg dry			1	SW846 Ch. 7.3	20-Dec-17	28-Dec-17	TN	1721061	
57-12-5	Reactive Cyanide	< 24.9	U	mg/kg dry	24.9	24.9	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 49.9	U	mg/kg dry	49.9	49.9	1	"	"	"	"	"	

Sample Identification

SS-010

SC42525-11

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 11:15

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			BD	1720930	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (high level)</u>													
Initial weight: 16.3 g													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 66.8	U, D	µg/kg dry	66.8	33.9	50	SW846 8260C	20-Dec-17	20-Dec-17	GMA	1721045	X
67-64-1	Acetone	< 66.8	U, D	µg/kg dry	66.8	267	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 66.8	U, D	µg/kg dry	66.8	64.2	50	"	"	"	"	"	X
71-43-2	Benzene	46.1	J, D	µg/kg dry	66.8	17.7	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 66.8	U, D	µg/kg dry	66.8	17.8	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 66.8	U, D	µg/kg dry	66.8	33.8	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 66.8	U, D	µg/kg dry	66.8	44.6	50	"	"	"	"	"	X
75-25-2	Bromoform	< 66.8	U, D	µg/kg dry	66.8	63.8	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 134	U, D	µg/kg dry	134	60.4	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 134	U, D	µg/kg dry	134	120	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	36.8	J, D	µg/kg dry	66.8	19.1	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	32.1	J, D	µg/kg dry	66.8	12.2	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 66.8	U, D	µg/kg dry	66.8	15.0	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 134	U, D	µg/kg dry	134	42.8	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 66.8	U, D	µg/kg dry	66.8	54.7	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 66.8	U, D	µg/kg dry	66.8	20.9	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 134	U, D	µg/kg dry	134	37.1	50	"	"	"	"	"	X
67-66-3	Chloroform	< 66.8	U, D	µg/kg dry	66.8	35.9	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 134	U, D	µg/kg dry	134	27.6	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 66.8	U, D	µg/kg dry	66.8	16.6	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 66.8	U, D	µg/kg dry	66.8	15.7	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 134	U, D	µg/kg dry	134	96.6	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 66.8	U, D	µg/kg dry	66.8	45.3	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 66.8	U, D	µg/kg dry	66.8	44.9	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 66.8	U, D	µg/kg dry	66.8	34.8	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 66.8	U, D	µg/kg dry	66.8	17.4	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 66.8	U, D	µg/kg dry	66.8	14.5	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 66.8	U, D	µg/kg dry	66.8	19.8	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 134	U, D	µg/kg dry	134	25.3	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 66.8	U, D	µg/kg dry	66.8	17.5	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 66.8	U, D	µg/kg dry	66.8	23.9	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 66.8	U, D	µg/kg dry	66.8	35.0	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 66.8	U, D	µg/kg dry	66.8	24.8	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 66.8	U, D	µg/kg dry	66.8	35.4	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 66.8	U, D	µg/kg dry	66.8	35.0	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 66.8	U, D	µg/kg dry	66.8	34.6	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 66.8	U, D	µg/kg dry	66.8	31.6	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 66.8	U, D	µg/kg dry	66.8	21.5	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 66.8	U, D	µg/kg dry	66.8	40.3	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 66.8	U, D	µg/kg dry	66.8	35.1	50	"	"	"	"	"	X

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Sample Identification

SS-010

SC42525-11

Client Project

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 11:15

Received

18-Dec-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260													
Initial weight: 16.3 g													
100-41-4	Ethylbenzene	50.1	J, D	µg/kg dry	66.8	9.63	50	SW846 8260C	20-Dec-17	20-Dec-17	GMA	1721045	X
87-68-3	Hexachlorobutadiene	< 66.8	U, D	µg/kg dry	66.8	33.6	50	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 134	U, D	µg/kg dry	134	82.0	50	"	"	"	"	"	X
98-82-8	Isopropylbenzene	21.4	J, D	µg/kg dry	66.8	13.2	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	26.1	J, D	µg/kg dry	66.8	14.4	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	30.1	J, D	µg/kg dry	66.8	24.6	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 134	U, D	µg/kg dry	134	34.4	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 134	U, D	µg/kg dry	134	26.5	50	"	"	"	"	"	X
91-20-3	Naphthalene	170	D	µg/kg dry	66.8	39.8	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	38.8	J, D	µg/kg dry	66.8	10.8	50	"	"	"	"	"	X
100-42-5	Styrene	< 66.8	U, D	µg/kg dry	66.8	13.4	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 66.8	U, D	µg/kg dry	66.8	56.8	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 66.8	U, D	µg/kg dry	66.8	56.6	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 66.8	U, D	µg/kg dry	66.8	22.9	50	"	"	"	"	"	X
108-88-3	Toluene	123	D	µg/kg dry	66.8	21.7	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 66.8	U, D	µg/kg dry	66.8	23.5	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 66.8	U, D	µg/kg dry	66.8	49.3	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 66.8	U, D	µg/kg dry	66.8	21.0	50	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 66.8	U, D	µg/kg dry	66.8	22.2	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 66.8	U, D	µg/kg dry	66.8	48.5	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 66.8	U, D	µg/kg dry	66.8	18.2	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 66.8	U, D	µg/kg dry	66.8	36.0	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 66.8	U, D	µg/kg dry	66.8	50.1	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	126	D	µg/kg dry	66.8	16.2	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	71.5	D	µg/kg dry	66.8	11.5	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 66.8	U, D	µg/kg dry	66.8	22.6	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	276	D	µg/kg dry	134	12.0	50	"	"	"	"	"	X
95-47-6	o-Xylene	64.2	J, D	µg/kg dry	66.8	18.7	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 134	U, D	µg/kg dry	134	105	50	"	"	"	"	"	X
60-29-7	Ethyl ether	< 66.8	U, D	µg/kg dry	66.8	60.6	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 66.8	U, D	µg/kg dry	66.8	22.3	50	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 66.8	U, D	µg/kg dry	66.8	36.0	50	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 66.8	U, D	µg/kg dry	66.8	12.4	50	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 668	U, D	µg/kg dry	668	437	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 1340	U, D	µg/kg dry	1340	1160	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 334	U, D	µg/kg dry	334	153	50	"	"	"	"	"	X
64-17-5	Ethanol	4,950	J, D	µg/kg dry	13400	2490	50	"	"	"	"	"	X
Surrogate recoveries:													
460-00-4	4-Bromofluorobenzene	104			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	100			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	102			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	99			70-130 %			"	"	"	"	"	

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Sample Identification

SS-010

SC42525-11

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 11:15

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Re-analysis of Volatile Organic Compounds</u>													
<u>by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>							<u>Initial weight: 4.66 g</u>						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 7.61	U	µg/kg dry	7.61	3.86	1	SW846 8260C	22-Dec-17	22-Dec-17	MP	1721214	X
67-64-1	Acetone	< 76.1	U	µg/kg dry	76.1	30.4	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 7.61	U	µg/kg dry	7.61	7.32	1	"	"	"	"	"	X
71-43-2	Benzene	< 7.61	U	µg/kg dry	7.61	2.02	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 7.61	U	µg/kg dry	7.61	2.03	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 7.61	U	µg/kg dry	7.61	3.85	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 7.61	U	µg/kg dry	7.61	5.08	1	"	"	"	"	"	X
75-25-2	Bromoform	< 7.61	U	µg/kg dry	7.61	7.26	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 15.2	U	µg/kg dry	15.2	6.88	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 15.2	U	µg/kg dry	15.2	13.6	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 7.61	U	µg/kg dry	7.61	2.18	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 7.61	U	µg/kg dry	7.61	1.39	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 7.61	U	µg/kg dry	7.61	1.71	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 15.2	U	µg/kg dry	15.2	4.87	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 7.61	U	µg/kg dry	7.61	6.23	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 7.61	U	µg/kg dry	7.61	2.38	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 15.2	U	µg/kg dry	15.2	4.23	1	"	"	"	"	"	X
67-66-3	Chloroform	< 7.61	U	µg/kg dry	7.61	4.09	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 15.2	U	µg/kg dry	15.2	3.14	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 7.61	U	µg/kg dry	7.61	1.90	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 7.61	U	µg/kg dry	7.61	1.79	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 15.2	U	µg/kg dry	15.2	11.0	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 7.61	U	µg/kg dry	7.61	5.16	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 7.61	U	µg/kg dry	7.61	5.11	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 7.61	U	µg/kg dry	7.61	3.96	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 7.61	U	µg/kg dry	7.61	1.98	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 7.61	U	µg/kg dry	7.61	1.65	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 7.61	U	µg/kg dry	7.61	2.25	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 15.2	U	µg/kg dry	15.2	2.89	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 7.61	U	µg/kg dry	7.61	1.99	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 7.61	U	µg/kg dry	7.61	2.73	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 7.61	U	µg/kg dry	7.61	3.98	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 7.61	U	µg/kg dry	7.61	2.82	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 7.61	U	µg/kg dry	7.61	4.04	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 7.61	U	µg/kg dry	7.61	3.99	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 7.61	U	µg/kg dry	7.61	3.94	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 7.61	U	µg/kg dry	7.61	3.59	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 7.61	U	µg/kg dry	7.61	2.45	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 7.61	U	µg/kg dry	7.61	4.59	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 7.61	U	µg/kg dry	7.61	4.00	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 7.61	U	µg/kg dry	7.61	1.10	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 7.61	U	µg/kg dry	7.61	3.82	1	"	"	"	"	"	X

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Sample Identification

SS-010

SC42525-11

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

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Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Volatile Organic CompoundsRe-analysis of Volatile Organic Compoundsby SW846 8260

Initial weight: 4.66 g

591-78-6	2-Hexanone (MBK)	< 15.2	U	µg/kg dry	15.2	9.34	1	SW846 8260C	22-Dec-17	22-Dec-17	MP	1721214	X
98-82-8	Isopropylbenzene	< 7.61	U	µg/kg dry	7.61	1.50	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 7.61	U	µg/kg dry	7.61	1.64	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 7.61	U	µg/kg dry	7.61	2.80	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 15.2	U	µg/kg dry	15.2	3.91	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 15.2	U	µg/kg dry	15.2	3.02	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 7.61	U	µg/kg dry	7.61	4.53	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 7.61	U	µg/kg dry	7.61	1.23	1	"	"	"	"	"	X
100-42-5	Styrene	< 7.61	U	µg/kg dry	7.61	1.53	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 7.61	U	µg/kg dry	7.61	6.47	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 7.61	U	µg/kg dry	7.61	6.44	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 7.61	U	µg/kg dry	7.61	2.60	1	"	"	"	"	"	X
108-88-3	Toluene	< 7.61	U	µg/kg dry	7.61	2.47	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 7.61	U	µg/kg dry	7.61	2.67	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 7.61	U	µg/kg dry	7.61	5.61	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 7.61	U	µg/kg dry	7.61	2.39	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 7.61	U	µg/kg dry	7.61	2.53	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 7.61	U	µg/kg dry	7.61	5.52	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 7.61	U	µg/kg dry	7.61	2.08	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 7.61	U	µg/kg dry	7.61	4.10	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 7.61	U	µg/kg dry	7.61	5.71	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 7.61	U	µg/kg dry	7.61	1.85	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 7.61	U	µg/kg dry	7.61	1.31	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 7.61	U	µg/kg dry	7.61	2.57	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 15.2	U	µg/kg dry	15.2	1.37	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 7.61	U	µg/kg dry	7.61	2.13	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 15.2	U	µg/kg dry	15.2	12.0	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 7.61	U	µg/kg dry	7.61	6.90	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 7.61	U	µg/kg dry	7.61	2.54	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 7.61	U	µg/kg dry	7.61	4.10	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 7.61	U	µg/kg dry	7.61	1.42	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 76.1	U	µg/kg dry	76.1	49.8	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 152	U	µg/kg dry	152	132	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 38.1	U	µg/kg dry	38.1	17.4	1	"	"	"	"	"	X
64-17-5	Ethanol	1,260	J	µg/kg dry	1520	284	1	"	"	"	"	"	

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	95		70-130 %		"	"	"	"	"	"	"	
2037-26-5	Toluene-d8	98		70-130 %		"	"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	128		70-130 %		"	"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	108		70-130 %		"	"	"	"	"	"	"	

Gasoline Range OrganicsPrepared by method VPH - EPA 5035A Soil

Initial weight: 16.3 g

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Sample Identification

SS-010

SC42525-11

Client Project #

0172.0210M010

Matrix

Soil

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Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 16.3 g

Gasoline Range Organics (C6-C10)	3.9	J, D, GRO	mg/kg dry	6.7	1.4	50	SW846 8015D	20-Dec-17	20-Dec-17	SD	1721038	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	97		70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MSPrepared by method SW846 5035A Soil (high level)Initial weight: 16.3 g

Tentatively Identified Compounds	None found		µg/kg dry			50	SW846 8260C TICs	20-Dec-17	20-Dec-17	GMA	1721045	

Re-analysis of Tentatively IdentifiedCompounds by GC/MSPrepared by method SW846 5035A Soil (low level)Initial weight: 4.66 g

Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	22-Dec-17	22-Dec-17	MP	1721214	

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Prepared by method SW846 3546

83-32-9	Acenaphthene	< 806	U, D	µg/kg dry	806	401	10	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
208-96-8	Acenaphthylene	< 806	U, D	µg/kg dry	806	397	10	"	"	"	"	"	X
62-53-3	Aniline	< 3990	U, D	µg/kg dry	3990	286	10	"	"	"	"	"	X
120-12-7	Anthracene	< 806	U, D	µg/kg dry	806	385	10	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 3990	U, D	µg/kg dry	3990	392	10	"	"	"	"	"	
92-87-5	Benzidine	< 3990	U, D	µg/kg dry	3990	802	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 806	U, D	µg/kg dry	806	425	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 806	U, D	µg/kg dry	806	300	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 806	U, D	µg/kg dry	806	390	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 806	U, D	µg/kg dry	806	324	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 806	U, D	µg/kg dry	806	315	10	"	"	"	"	"	X
65-85-0	Benzoic acid	< 3990	U, D	µg/kg dry	3990	837	10	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 3990	U, D	µg/kg dry	3990	326	10	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 3990	U, D	µg/kg dry	3990	354	10	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 2020	U, D	µg/kg dry	2020	289	10	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 2020	U, D	µg/kg dry	2020	310	10	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 2020	U, D	µg/kg dry	2020	498	10	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 3990	U, D	µg/kg dry	3990	373	10	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 3990	U, D	µg/kg dry	3990	465	10	"	"	"	"	"	X
86-74-8	Carbazole	< 2020	U, D	µg/kg dry	2020	1130	10	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 3990	U, D	µg/kg dry	3990	380	10	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 2020	U, D	µg/kg dry	2020	436	10	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 3990	U, D	µg/kg dry	3990	368	10	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 2020	U, D	µg/kg dry	2020	359	10	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 3990	U, D	µg/kg dry	3990	473	10	"	"	"	"	"	X
218-01-9	Chrysene	< 806	U, D	µg/kg dry	806	402	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 806	U, D	µg/kg dry	806	309	10	"	"	"	"	"	X

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Sample Identification

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SC42525-11

Client Project #

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Matrix

Soil

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Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>			R01										
132-64-9	Dibenzofuran	< 2020	U, D	µg/kg dry	2020	307	10	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
95-50-1	1,2-Dichlorobenzene	< 3990	U, D	µg/kg dry	3990	348	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3990	U, D	µg/kg dry	3990	348	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3990	U, D	µg/kg dry	3990	370	10	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 3990	U, D	µg/kg dry	3990	606	10	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 2020	U, D	µg/kg dry	2020	377	10	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 3990	U, D	µg/kg dry	3990	493	10	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 3990	U, D	µg/kg dry	3990	436	10	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 3990	U, D	µg/kg dry	3990	285	10	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 3990	U, D	µg/kg dry	3990	423	10	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 3990	U, D	µg/kg dry	3990	512	10	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 3990	U, D	µg/kg dry	3990	406	10	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 2020	U, D	µg/kg dry	2020	780	10	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 2020	U, D	µg/kg dry	2020	454	10	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 3990	U, D	µg/kg dry	3990	450	10	"	"	"	"	"	X
206-44-0	Fluoranthene	483	J, D	µg/kg dry	806	426	10	"	"	"	"	"	X
86-73-7	Fluorene	< 806	U, D	µg/kg dry	806	409	10	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 2020	U, D	µg/kg dry	2020	397	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 2020	U, D	µg/kg dry	2020	482	10	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 2020	U, D	µg/kg dry	2020	274	10	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 2020	U, D	µg/kg dry	2020	435	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 806	U, D	µg/kg dry	806	290	10	"	"	"	"	"	X
78-59-1	Isophorone	< 2020	U, D	µg/kg dry	2020	378	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 806	U, D	µg/kg dry	806	487	10	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 3990	U, D	µg/kg dry	3990	339	10	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 3990	U, D	µg/kg dry	3990	385	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 806	U, D	µg/kg dry	806	376	10	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 3990	U, D	µg/kg dry	3990	338	10	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 3990	U, D	µg/kg dry	3990	545	10	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 2020	U, D	µg/kg dry	2020	621	10	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 2020	U, D	µg/kg dry	2020	367	10	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 2020	U, D	µg/kg dry	2020	335	10	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 15900	U, D	µg/kg dry	15900	644	10	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 2020	U, D	µg/kg dry	2020	374	10	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 2020	U, D	µg/kg dry	2020	393	10	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 3990	U, D	µg/kg dry	3990	432	10	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 3990	U, D	µg/kg dry	3990	426	10	"	"	"	"	"	X
85-01-8	Phenanthrene	< 806	U, D	µg/kg dry	806	375	10	"	"	"	"	"	X
108-95-2	Phenol	< 3990	U, D	µg/kg dry	3990	262	10	"	"	"	"	"	X
129-00-0	Pyrene	467	J, D	µg/kg dry	806	449	10	"	"	"	"	"	X
110-86-1	Pyridine	< 3990	U, D	µg/kg dry	3990	594	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3990	U, D	µg/kg dry	3990	395	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 806	U, D	µg/kg dry	806	396	10	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 3990	U, D	µg/kg dry	3990	359	10	"	"	"	"	"	X

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Sample Identification

SS-010

SC42525-11

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 11:15

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

88-06-2	2,4,6-Trichlorophenol	< 2020	U, D	µg/kg dry	2020	360	10	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
82-68-8	Pentachloronitrobenzene	< 3990	U, D	µg/kg dry	3990	629	10	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzen e	< 3990	U, D	µg/kg dry	3990	386	10	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	41			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	33			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	35			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	32			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	48			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	39			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

R01

	Tentatively Identified Compounds	None found		µg/kg dry			10	SW846 8270D TICS	"	"	MSL	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 12.0	U	µg/kg dry	12.0	5.38	1	SW846 8082A	21-Dec-17	28-Dec-17	AM	1721117	X
11104-28-2	Aroclor-1221	< 12.0	U	µg/kg dry	12.0	6.39	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 12.0	U	µg/kg dry	12.0	6.01	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 12.0	U	µg/kg dry	12.0	11.9	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 12.0	U	µg/kg dry	12.0	11.0	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 12.0	U	µg/kg dry	12.0	7.85	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 12.0	U	µg/kg dry	12.0	6.43	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	31.2		µg/kg dry	12.0	10.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 12.0	U	µg/kg dry	12.0	5.42	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	55			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	60			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	125			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 60.0	U, D	µg/kg dry	60.0	16.1	10	SW846 8081B	21-Dec-17	05-Jan-18	SM	1721116	X
319-85-7	beta-BHC	< 60.0	U, D	µg/kg dry	60.0	23.8	10	"	"	"	"	"	X
319-86-8	delta-BHC	< 60.0	U, D	µg/kg dry	60.0	17.3	10	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 36.0	U, D	µg/kg dry	36.0	17.3	10	"	"	"	"	"	X
76-44-8	Heptachlor	< 60.0	U, D	µg/kg dry	60.0	20.1	10	"	"	"	"	"	X
309-00-2	Aldrin	< 60.0	U, D	µg/kg dry	60.0	18.5	10	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 60.0	U, D	µg/kg dry	60.0	21.3	10	"	"	"	"	"	X
959-98-8	Endosulfan I	< 60.0	U, D	µg/kg dry	60.0	21.1	10	"	"	"	"	"	X
60-57-1	Dieldrin	< 60.0	U, D	µg/kg dry	60.0	21.1	10	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 60.0	U, D	µg/kg dry	60.0	19.0	10	"	"	"	"	"	X

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Sample Identification

SS-010

SC42525-11

Client Project #

0172.0210M010

Matrix

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

PesticidesOrganochlorine Pesticides

R01

72-20-8	Endrin	< 96.1	U, D	µg/kg dry	96.1	21.1	10	SW846 8081B	21-Dec-17	05-Jan-18	SM	1721116	X
33213-65-9	Endosulfan II	< 96.1	U, D	µg/kg dry	96.1	22.6	10	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 96.1	U, D	µg/kg dry	96.1	20.9	10	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 96.1	U, D	µg/kg dry	96.1	20.1	10	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 96.1	U, D	µg/kg dry	96.1	18.5	10	"	"	"	"	"	X
72-43-5	Methoxychlor	< 96.1	U, D	µg/kg dry	96.1	21.3	10	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 96.1	U, D	µg/kg dry	96.1	21.6	10	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 96.1	U, D	µg/kg dry	96.1	20.1	10	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 60.0	U, D	µg/kg dry	60.0	20.5	10	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 60.0	U, D	µg/kg dry	60.0	21.6	10	"	"	"	"	"	X
8001-35-2	Toxaphene	< 1200	U, D	µg/kg dry	1200	260	10	"	"	"	"	"	X
57-74-9	Chlordane	< 240	U, D	µg/kg dry	240	238	10	"	"	"	"	"	X
15972-60-8	Alachlor	< 60.0	U, D	µg/kg dry	60.0	29.4	10	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	83			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	109			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 159	U, D	mg/kg dry	159	105	5	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
68476-31-3	Fuel Oil #4	< 159	U, D	mg/kg dry	159	159	5	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 159	U, D	mg/kg dry	159	159	5	"	"	"	"	"	
M09800000	Motor Oil	< 159	U, D	mg/kg dry	159	159	5	"	"	"	"	"	
J00100000	Aviation Fuel	< 159	U, D	mg/kg dry	159	159	5	"	"	"	"	"	
	Unidentified	718	D	mg/kg dry	159	159	5	"	"	"	"	"	
	Other Oil	Calculated as		mg/kg dry	159	159	5	"	"	"	"	"	
	Diesel Range Organics (DRO) C10-C28	718	D,DRO	mg/kg dry	159	105	5	"	"	"	"	"	X

Surrogate recoveries:

3386-33-2	1-Chlorooctadecane	477	S02		40-140 %			"	"	"	"	"	

Total Metals by EPA 6000/7000 Series MethodsPrepared by method SW846 3050B

7440-22-4	Silver	< 1.82	U	mg/kg dry	1.82	0.197	1	SW846 6010C	28-Dec-17	10-Jan-18	SJR/T	1721203	X
7440-38-2	Arsenic	16.6		mg/kg dry	1.82	0.231	1	"	"	"	"	"	X
7440-39-3	Barium	86.0		mg/kg dry	1.21	0.143	1	"	"	"	"	"	X
7440-43-9	Cadmium	1.20		mg/kg dry	0.607	0.0314	1	"	"	"	"	"	X
7440-47-3	Chromium	12.0		mg/kg dry	1.21	0.161	1	"	"	"	"	"	X

Prepared by method SW846 3051A

7439-92-1	Lead	66.2		mg/kg dry	1.80	0.255	1	"	11-Jan-18	12-Jan-18	"	1800406	X

Prepared by method SW846 3050B

7782-49-2	Selenium	< 1.82	U	mg/kg dry	1.82	0.347	1	"	28-Dec-17	10-Jan-18	"	1721203	X

General Chemistry Parameters*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

SS-010

SC42525-11

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 11:15

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
General Chemistry Parameters													
	% Solids	82.2		%			1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720888	
Toxicity Characteristics													
	Ignitability by Definition	Negative	IgHT	N/A			1	SW846 1030	19-Dec-17 10:54	19-Dec-17 12:05	BD	1720970	X
Reactivity Cyanide/Sulfide													
	Reactivity	See Narrative		mg/kg dry			1	SW846 Ch. 7.3	20-Dec-17	28-Dec-17	TN	1721061	
57-12-5	Reactive Cyanide	< 22.9	U	mg/kg dry	22.9	22.9	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 45.8	U	mg/kg dry	45.8	45.8	1	"	"	"	"	"	

Sample Identification

SS-011

SC42525-12

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 11:40

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18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			BD	1720930	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)													
								Initial weight: 4.42 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 7.51	U	µg/kg dry	7.51	3.81	1	SW846 8260C	22-Dec-17	22-Dec-17	MP	1721214	X
67-64-1	Acetone	< 75.1	U	µg/kg dry	75.1	30.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 7.51	U	µg/kg dry	7.51	7.21	1	"	"	"	"	"	X
71-43-2	Benzene	< 7.51	U	µg/kg dry	7.51	1.99	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 7.51	U	µg/kg dry	7.51	2.00	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 7.51	U	µg/kg dry	7.51	3.79	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 7.51	U	µg/kg dry	7.51	5.01	1	"	"	"	"	"	X
75-25-2	Bromoform	< 7.51	U	µg/kg dry	7.51	7.16	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 15.0	U	µg/kg dry	15.0	6.78	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 15.0	U	µg/kg dry	15.0	13.4	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 7.51	U	µg/kg dry	7.51	2.15	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 7.51	U	µg/kg dry	7.51	1.37	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 7.51	U	µg/kg dry	7.51	1.68	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 15.0	U	µg/kg dry	15.0	4.80	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 7.51	U	µg/kg dry	7.51	6.14	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 7.51	U	µg/kg dry	7.51	2.35	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 15.0	U	µg/kg dry	15.0	4.17	1	"	"	"	"	"	X
67-66-3	Chloroform	< 7.51	U	µg/kg dry	7.51	4.03	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 15.0	U	µg/kg dry	15.0	3.10	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 7.51	U	µg/kg dry	7.51	1.87	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 7.51	U	µg/kg dry	7.51	1.76	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 15.0	U	µg/kg dry	15.0	10.8	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 7.51	U	µg/kg dry	7.51	5.09	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 7.51	U	µg/kg dry	7.51	5.04	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 7.51	U	µg/kg dry	7.51	3.90	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 7.51	U	µg/kg dry	7.51	1.95	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 7.51	U	µg/kg dry	7.51	1.63	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 7.51	U	µg/kg dry	7.51	2.22	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 15.0	U	µg/kg dry	15.0	2.84	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 7.51	U	µg/kg dry	7.51	1.97	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 7.51	U	µg/kg dry	7.51	2.69	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 7.51	U	µg/kg dry	7.51	3.93	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 7.51	U	µg/kg dry	7.51	2.78	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 7.51	U	µg/kg dry	7.51	3.98	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 7.51	U	µg/kg dry	7.51	3.93	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 7.51	U	µg/kg dry	7.51	3.89	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 7.51	U	µg/kg dry	7.51	3.54	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 7.51	U	µg/kg dry	7.51	2.42	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 7.51	U	µg/kg dry	7.51	4.53	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 7.51	U	µg/kg dry	7.51	3.94	1	"	"	"	"	"	X

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Sample Identification

SS-011

SC42525-12

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 11:40

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 4.42 g

100-41-4	Ethylbenzene	< 7.51	U	µg/kg dry	7.51	1.08	1	SW846 8260C	22-Dec-17	22-Dec-17	MP	1721214	X
87-68-3	Hexachlorobutadiene	< 7.51	U	µg/kg dry	7.51	3.77	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 15.0	U	µg/kg dry	15.0	9.21	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 7.51	U	µg/kg dry	7.51	1.48	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 7.51	U	µg/kg dry	7.51	1.61	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 7.51	U	µg/kg dry	7.51	2.76	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 15.0	U	µg/kg dry	15.0	3.86	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 15.0	U	µg/kg dry	15.0	2.98	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 7.51	U	µg/kg dry	7.51	4.47	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 7.51	U	µg/kg dry	7.51	1.22	1	"	"	"	"	"	X
100-42-5	Styrene	< 7.51	U	µg/kg dry	7.51	1.51	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 7.51	U	µg/kg dry	7.51	6.38	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 7.51	U	µg/kg dry	7.51	6.35	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 7.51	U	µg/kg dry	7.51	2.57	1	"	"	"	"	"	X
108-88-3	Toluene	< 7.51	U	µg/kg dry	7.51	2.43	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 7.51	U	µg/kg dry	7.51	2.63	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 7.51	U	µg/kg dry	7.51	5.53	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 7.51	U	µg/kg dry	7.51	2.36	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 7.51	U	µg/kg dry	7.51	2.49	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 7.51	U	µg/kg dry	7.51	5.44	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 7.51	U	µg/kg dry	7.51	2.05	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 7.51	U	µg/kg dry	7.51	4.05	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 7.51	U	µg/kg dry	7.51	5.63	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 7.51	U	µg/kg dry	7.51	1.82	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 7.51	U	µg/kg dry	7.51	1.29	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 7.51	U	µg/kg dry	7.51	2.54	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 15.0	U	µg/kg dry	15.0	1.35	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 7.51	U	µg/kg dry	7.51	2.10	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 15.0	U	µg/kg dry	15.0	11.8	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 7.51	U	µg/kg dry	7.51	6.80	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 7.51	U	µg/kg dry	7.51	2.51	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 7.51	U	µg/kg dry	7.51	4.05	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 7.51	U	µg/kg dry	7.51	1.40	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 75.1	U	µg/kg dry	75.1	49.1	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 150	U	µg/kg dry	150	130	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 37.5	U	µg/kg dry	37.5	17.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1500	U	µg/kg dry	1500	280	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	93		70-130 %		"	"	"	"	"
2037-26-5	Toluene-d8	98		70-130 %		"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	129		70-130 %		"	"	"	"	"
1868-53-7	Dibromofluoromethane	109		70-130 %		"	"	"	"	"

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Sample Identification

SS-011

SC42525-12

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 11:40

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 12.82 g

Gasoline Range Organics (C6-C10)	2.5	J, D, GRO	mg/kg dry	7.7	1.6	50	SW846 8015D	22-Dec-17	22-Dec-17	SD	1721219	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	105		70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MSPrepared by method SW846 5035A Soil (low level)Initial weight: 4.42 g

Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	22-Dec-17	22-Dec-17	MP	1721214	

Semivolatile Organic Compounds by GCMSSemivolatile Organic CompoundsPrepared by method SW846 3546

R01

83-32-9	Acenaphthene	< 156	U, D	µg/kg dry	156	77.5	2	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
208-96-8	Acenaphthylene	< 156	U, D	µg/kg dry	156	76.8	2	"	"	"	"	"	X
62-53-3	Aniline	< 771	U, D	µg/kg dry	771	55.3	2	"	"	"	"	"	X
120-12-7	Anthracene	< 156	U, D	µg/kg dry	156	74.5	2	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 771	U, D	µg/kg dry	771	75.8	2	"	"	"	"	"	
92-87-5	Benzidine	< 771	U, D	µg/kg dry	771	155	2	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	109	J, D	µg/kg dry	156	82.2	2	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	136	J, D	µg/kg dry	156	58.0	2	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	121	J, D	µg/kg dry	156	75.4	2	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	139	J, D	µg/kg dry	156	62.6	2	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	130	J, D	µg/kg dry	156	60.9	2	"	"	"	"	"	X
65-85-0	Benzoic acid	< 771	U, D	µg/kg dry	771	162	2	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 771	U, D	µg/kg dry	771	63.1	2	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 771	U, D	µg/kg dry	771	68.4	2	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 390	U, D	µg/kg dry	390	55.9	2	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 390	U, D	µg/kg dry	390	60.0	2	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 390	U, D	µg/kg dry	390	96.2	2	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 771	U, D	µg/kg dry	771	72.2	2	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 771	U, D	µg/kg dry	771	89.9	2	"	"	"	"	"	X
86-74-8	Carbazole	< 390	U, D	µg/kg dry	390	218	2	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 771	U, D	µg/kg dry	771	73.5	2	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 390	U, D	µg/kg dry	390	84.3	2	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 771	U, D	µg/kg dry	771	71.2	2	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 390	U, D	µg/kg dry	390	69.3	2	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 771	U, D	µg/kg dry	771	91.5	2	"	"	"	"	"	X
218-01-9	Chrysene	144	J, D	µg/kg dry	156	77.8	2	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 156	U, D	µg/kg dry	156	59.8	2	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 390	U, D	µg/kg dry	390	59.3	2	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 771	U, D	µg/kg dry	771	67.2	2	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 771	U, D	µg/kg dry	771	67.2	2	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 771	U, D	µg/kg dry	771	71.4	2	"	"	"	"	"	X

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SS-011

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Matrix

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CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
R01													
91-94-1	3,3'-Dichlorobenzidine	< 771	U, D	µg/kg dry	771	117	2	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
120-83-2	2,4-Dichlorophenol	< 390	U, D	µg/kg dry	390	72.9	2	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 771	U, D	µg/kg dry	771	95.3	2	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 771	U, D	µg/kg dry	771	84.3	2	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 771	U, D	µg/kg dry	771	55.1	2	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 771	U, D	µg/kg dry	771	81.7	2	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 771	U, D	µg/kg dry	771	98.9	2	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 771	U, D	µg/kg dry	771	78.5	2	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 390	U, D	µg/kg dry	390	151	2	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 390	U, D	µg/kg dry	390	87.8	2	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 771	U, D	µg/kg dry	771	87.1	2	"	"	"	"	"	X
206-44-0	Fluoranthene	244	D	µg/kg dry	156	82.3	2	"	"	"	"	"	X
86-73-7	Fluorene	< 156	U, D	µg/kg dry	156	79.2	2	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 390	U, D	µg/kg dry	390	76.7	2	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 390	U, D	µg/kg dry	390	93.2	2	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 390	U, D	µg/kg dry	390	53.0	2	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 390	U, D	µg/kg dry	390	84.1	2	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	113	J, D	µg/kg dry	156	56.0	2	"	"	"	"	"	X
78-59-1	Isophorone	< 390	U, D	µg/kg dry	390	73.1	2	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 156	U, D	µg/kg dry	156	94.1	2	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 771	U, D	µg/kg dry	771	65.5	2	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 771	U, D	µg/kg dry	771	74.5	2	"	"	"	"	"	X
91-20-3	Naphthalene	< 156	U, D	µg/kg dry	156	72.6	2	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 771	U, D	µg/kg dry	771	65.4	2	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 771	U, D	µg/kg dry	771	105	2	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 390	U, D	µg/kg dry	390	120	2	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 390	U, D	µg/kg dry	390	71.0	2	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 390	U, D	µg/kg dry	390	64.7	2	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 3080	U, D	µg/kg dry	3080	124	2	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 390	U, D	µg/kg dry	390	72.4	2	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 390	U, D	µg/kg dry	390	75.9	2	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 771	U, D	µg/kg dry	771	83.6	2	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 771	U, D	µg/kg dry	771	82.3	2	"	"	"	"	"	X
85-01-8	Phenanthrene	135	J, D	µg/kg dry	156	72.5	2	"	"	"	"	"	X
108-95-2	Phenol	< 771	U, D	µg/kg dry	771	50.7	2	"	"	"	"	"	X
129-00-0	Pyrene	208	D	µg/kg dry	156	86.9	2	"	"	"	"	"	X
110-86-1	Pyridine	< 771	U, D	µg/kg dry	771	115	2	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 771	U, D	µg/kg dry	771	76.4	2	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 156	U, D	µg/kg dry	156	76.6	2	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 771	U, D	µg/kg dry	771	69.3	2	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 390	U, D	µg/kg dry	390	69.6	2	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 771	U, D	µg/kg dry	771	122	2	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzen e	< 771	U, D	µg/kg dry	771	74.7	2	"	"	"	"	"	X

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Sample Identification

SS-011

SC42525-12

Client Project #

0172.0210M010

Matrix

Soil

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Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	90			30-130 %			SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	
367-12-4	2-Fluorophenol	76			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	83			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	79			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	94			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	94			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

R01

000079-34-5	Ethane, 1,1,2,2-tetrachloro-	420	J N, D	µg/kg dry			2	SW846 8270D TICS	"	"	MSL	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 11.5	U	µg/kg dry	11.5	5.16	1	SW846 8082A	21-Dec-17	28-Dec-17	AM	1721117	X
11104-28-2	Aroclor-1221	< 11.5	U	µg/kg dry	11.5	6.12	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 11.5	U	µg/kg dry	11.5	5.76	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 11.5	U	µg/kg dry	11.5	11.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 11.5	U	µg/kg dry	11.5	10.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 11.5	U	µg/kg dry	11.5	7.53	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 11.5	U	µg/kg dry	11.5	6.17	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	29.6		µg/kg dry	11.5	10.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 11.5	U	µg/kg dry	11.5	5.19	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	55			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	55			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	130			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3546Methylation date: 22-Dec-17

93-76-5	2,4,5-T	< 7.74	U	µg/kg dry	7.74	4.22	1	SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	X
93-72-1	2,4,5-TP (Silvex)	< 7.74	U	µg/kg dry	7.74	3.18	1	"	"	"	"	"	X
94-75-7	2,4-D [2C]	11.6		µg/kg dry	7.74	3.06	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 7.74	U	µg/kg dry	7.74	5.85	1	"	"	"	"	"	X
75-99-0	Dalapon	< 7.74	U	µg/kg dry	7.74	3.09	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 7.74	U	µg/kg dry	7.74	3.15	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 7.74	U	µg/kg dry	7.74	5.66	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 7.74	U	µg/kg dry	7.74	3.14	1	"	"	"	"	"	X
94-74-6	MCPA	< 2600	U	µg/kg dry	2600	1160	1	"	"	"	"	"	X
94-81-5	MCPB	< 2600	U	µg/kg dry	2600	1160	1	"	"	"	"	"	
93-65-2	MCPB	< 2600	U	µg/kg dry	2600	1160	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	110			30-150 %			"	"	"	"	"	

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HerbicidesChlorinated HerbicidesMethylation date: 22-Dec-17

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150 %			SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	
2552-89-8	DCAA (Sr)	85			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	75			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 57.6	U, D	µg/kg dry	57.6	15.4	10	SW846 8081B	21-Dec-17	05-Jan-18	SM	1721116	X
319-85-7	beta-BHC	< 57.6	U, D	µg/kg dry	57.6	22.8	10	"	"	"	"	"	X
319-86-8	delta-BHC	< 57.6	U, D	µg/kg dry	57.6	16.6	10	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 34.5	U, D	µg/kg dry	34.5	16.6	10	"	"	"	"	"	X
76-44-8	Heptachlor	< 57.6	U, D	µg/kg dry	57.6	19.2	10	"	"	"	"	"	X
309-00-2	Aldrin	< 57.6	U, D	µg/kg dry	57.6	17.7	10	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 57.6	U, D	µg/kg dry	57.6	20.4	10	"	"	"	"	"	X
959-98-8	Endosulfan I	< 57.6	U, D	µg/kg dry	57.6	20.3	10	"	"	"	"	"	X
60-57-1	Dieldrin	< 57.6	U, D	µg/kg dry	57.6	20.3	10	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 57.6	U, D	µg/kg dry	57.6	18.2	10	"	"	"	"	"	X
72-20-8	Endrin	< 92.1	U, D	µg/kg dry	92.1	20.3	10	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 92.1	U, D	µg/kg dry	92.1	21.6	10	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 92.1	U, D	µg/kg dry	92.1	20.0	10	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 92.1	U, D	µg/kg dry	92.1	19.2	10	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 92.1	U, D	µg/kg dry	92.1	17.7	10	"	"	"	"	"	X
72-43-5	Methoxychlor	< 92.1	U, D	µg/kg dry	92.1	20.4	10	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 92.1	U, D	µg/kg dry	92.1	20.7	10	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 92.1	U, D	µg/kg dry	92.1	19.2	10	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 57.6	U, D	µg/kg dry	57.6	19.7	10	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 57.6	U, D	µg/kg dry	57.6	20.7	10	"	"	"	"	"	X
8001-35-2	Toxaphene	< 1150	U, D	µg/kg dry	1150	249	10	"	"	"	"	"	X
57-74-9	Chlordane	< 230	U, D	µg/kg dry	230	228	10	"	"	"	"	"	X
15972-60-8	Alachlor	< 57.6	U, D	µg/kg dry	57.6	28.2	10	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	77			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	78			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	126			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	124			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 152	U, D	mg/kg dry	152	101	5	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
68476-31-3	Fuel Oil #4	< 152	U, D	mg/kg dry	152	152	5	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 152	U, D	mg/kg dry	152	152	5	"	"	"	"	"	
M09800000	Motor Oil	< 152	U, D	mg/kg dry	152	152	5	"	"	"	"	"	
J00100000	Aviation Fuel	< 152	U, D	mg/kg dry	152	152	5	"	"	"	"	"	

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Sample Identification

SS-011

SC42525-12

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 11:40

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons													
Diesel Range Organics													
			R01										
	Unidentified	786	D	mg/kg dry	152	152	5	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
	Other Oil	Calculated as		mg/kg dry	152	152	5	"	"	"	"	"	
	Diesel Range Organics (DRO) C10-C28	786	D,DRO	mg/kg dry	152	101	5	"	"	"	"	"	X
Surrogate recoveries:													
3386-33-2	1-Chlorooctadecane	110			40-140 %			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-22-4	Silver	< 1.75	U	mg/kg dry	1.75	0.189	1	SW846 6010C	28-Dec-17	10-Jan-18	SJR/T	1721203	X
7440-38-2	Arsenic	16.4		mg/kg dry	1.75	0.221	1	"	"	"	"	"	X
7440-39-3	Barium	102		mg/kg dry	1.16	0.137	1	"	"	"	"	"	X
7440-43-9	Cadmium	1.37		mg/kg dry	0.582	0.0302	1	"	"	"	"	"	X
7440-47-3	Chromium	14.6		mg/kg dry	1.16	0.155	1	"	"	"	"	"	X
7439-97-6	Mercury	0.0766		mg/kg dry	0.0305	0.0085	1	SW846 7471B	03-Jan-18	05-Jan-18	ABW	1721204	X
Prepared by method SW846 3051A													
7439-92-1	Lead	39.2		mg/kg dry	1.75	0.247	1	SW846 6010C	11-Jan-18	12-Jan-18	SJR/T	1800406	X
Prepared by method SW846 3050B													
7782-49-2	Selenium	0.466	J	mg/kg dry	1.75	0.333	1	"	28-Dec-17	10-Jan-18	"	1721203	X
General Chemistry Parameters													
	% Solids	85.2		%			1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720888	
Toxicity Characteristics													
	Ignitability by Definition	Negative	IgHT	N/A			1	SW846 1030	19-Dec-17 10:54	19-Dec-17 12:05	BD	1720970	X
Reactivity Cyanide/Sulfide													
	Reactivity	See Narrative		mg/kg dry			1	SW846 Ch. 7.3	20-Dec-17	28-Dec-17	TN	1721061	
57-12-5	Reactive Cyanide	< 23.2	U	mg/kg dry	23.2	23.2	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 46.4	U	mg/kg dry	46.4	46.4	1	"	"	"	"	"	

Sample Identification

SS-012

SC42525-13

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 12:00

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			BD	1720930	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)													
								Initial weight: 4.51 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 7.49	U	µg/kg dry	7.49	3.80	1	SW846 8260C	22-Dec-17	22-Dec-17	MP	1721214	X
67-64-1	Acetone	< 7.49	U	µg/kg dry	7.49	30.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 7.49	U	µg/kg dry	7.49	7.20	1	"	"	"	"	"	X
71-43-2	Benzene	< 7.49	U	µg/kg dry	7.49	1.99	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 7.49	U	µg/kg dry	7.49	2.00	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 7.49	U	µg/kg dry	7.49	3.78	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 7.49	U	µg/kg dry	7.49	5.00	1	"	"	"	"	"	X
75-25-2	Bromoform	< 7.49	U	µg/kg dry	7.49	7.15	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 15.0	U	µg/kg dry	15.0	6.77	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 15.0	U	µg/kg dry	15.0	13.4	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 7.49	U	µg/kg dry	7.49	2.14	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 7.49	U	µg/kg dry	7.49	1.36	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 7.49	U	µg/kg dry	7.49	1.68	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 15.0	U	µg/kg dry	15.0	4.80	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 7.49	U	µg/kg dry	7.49	6.13	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 7.49	U	µg/kg dry	7.49	2.35	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 15.0	U	µg/kg dry	15.0	4.16	1	"	"	"	"	"	X
67-66-3	Chloroform	< 7.49	U	µg/kg dry	7.49	4.02	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 15.0	U	µg/kg dry	15.0	3.09	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 7.49	U	µg/kg dry	7.49	1.87	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 7.49	U	µg/kg dry	7.49	1.76	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 15.0	U	µg/kg dry	15.0	10.8	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 7.49	U	µg/kg dry	7.49	5.08	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 7.49	U	µg/kg dry	7.49	5.03	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 7.49	U	µg/kg dry	7.49	3.90	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 7.49	U	µg/kg dry	7.49	1.95	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 7.49	U	µg/kg dry	7.49	1.63	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 7.49	U	µg/kg dry	7.49	2.22	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 15.0	U	µg/kg dry	15.0	2.84	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 7.49	U	µg/kg dry	7.49	1.96	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 7.49	U	µg/kg dry	7.49	2.68	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 7.49	U	µg/kg dry	7.49	3.92	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 7.49	U	µg/kg dry	7.49	2.78	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 7.49	U	µg/kg dry	7.49	3.97	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 7.49	U	µg/kg dry	7.49	3.93	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 7.49	U	µg/kg dry	7.49	3.88	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 7.49	U	µg/kg dry	7.49	3.54	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 7.49	U	µg/kg dry	7.49	2.41	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 7.49	U	µg/kg dry	7.49	4.52	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 7.49	U	µg/kg dry	7.49	3.93	1	"	"	"	"	"	X

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Sample Identification

SS-012

SC42525-13

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 12:00

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 4.51 g

100-41-4	Ethylbenzene	< 7.49	U	µg/kg dry	7.49	1.08	1	SW846 8260C	22-Dec-17	22-Dec-17	MP	1721214	X
87-68-3	Hexachlorobutadiene	< 7.49	U	µg/kg dry	7.49	3.76	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 15.0	U	µg/kg dry	15.0	9.20	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 7.49	U	µg/kg dry	7.49	1.48	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 7.49	U	µg/kg dry	7.49	1.61	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 7.49	U	µg/kg dry	7.49	2.76	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 15.0	U	µg/kg dry	15.0	3.85	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 15.0	U	µg/kg dry	15.0	2.98	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 7.49	U	µg/kg dry	7.49	4.46	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 7.49	U	µg/kg dry	7.49	1.21	1	"	"	"	"	"	X
100-42-5	Styrene	< 7.49	U	µg/kg dry	7.49	1.51	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 7.49	U	µg/kg dry	7.49	6.37	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 7.49	U	µg/kg dry	7.49	6.34	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 7.49	U	µg/kg dry	7.49	2.56	1	"	"	"	"	"	X
108-88-3	Toluene	< 7.49	U	µg/kg dry	7.49	2.43	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 7.49	U	µg/kg dry	7.49	2.63	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 7.49	U	µg/kg dry	7.49	5.52	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 7.49	U	µg/kg dry	7.49	2.35	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 7.49	U	µg/kg dry	7.49	2.49	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 7.49	U	µg/kg dry	7.49	5.43	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 7.49	U	µg/kg dry	7.49	2.05	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 7.49	U	µg/kg dry	7.49	4.04	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 7.49	U	µg/kg dry	7.49	5.62	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 7.49	U	µg/kg dry	7.49	1.82	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 7.49	U	µg/kg dry	7.49	1.29	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 7.49	U	µg/kg dry	7.49	2.53	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 15.0	U	µg/kg dry	15.0	1.35	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 7.49	U	µg/kg dry	7.49	2.10	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 15.0	U	µg/kg dry	15.0	11.8	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 7.49	U	µg/kg dry	7.49	6.79	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 7.49	U	µg/kg dry	7.49	2.50	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 7.49	U	µg/kg dry	7.49	4.04	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 7.49	U	µg/kg dry	7.49	1.39	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 74.9	U	µg/kg dry	74.9	49.0	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 150	U	µg/kg dry	150	130	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 37.5	U	µg/kg dry	37.5	17.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1500	U	µg/kg dry	1500	280	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	93		70-130 %		"	"	"	"	"
2037-26-5	Toluene-d8	99		70-130 %		"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	129		70-130 %		"	"	"	"	"
1868-53-7	Dibromofluoromethane	111		70-130 %		"	"	"	"	"

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Sample Identification

SS-012

SC42525-13

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 12:00

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 15.03 g

Gasoline Range Organics (C6-C10)	1.8	J, D, GRO	mg/kg dry	6.8	1.4	50	SW846 8015D	22-Dec-17	22-Dec-17	SD	1721219	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	107		70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MSPrepared by method SW846 5035A Soil (low level)Initial weight: 4.51 g

Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	22-Dec-17	22-Dec-17	MP	1721214	

Semivolatile Organic Compounds by GCMSSemivolatile Organic CompoundsPrepared by method SW846 3546

R01

83-32-9	Acenaphthene	< 3920	U, D	µg/kg dry	3920	1950	50	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
208-96-8	Acenaphthylene	< 3920	U, D	µg/kg dry	3920	1930	50	"	"	"	"	"	X
62-53-3	Aniline	< 19400	U, D	µg/kg dry	19400	1390	50	"	"	"	"	"	X
120-12-7	Anthracene	< 3920	U, D	µg/kg dry	3920	1870	50	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 19400	U, D	µg/kg dry	19400	1910	50	"	"	"	"	"	
92-87-5	Benzidine	< 19400	U, D	µg/kg dry	19400	3900	50	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 3920	U, D	µg/kg dry	3920	2070	50	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 3920	U, D	µg/kg dry	3920	1460	50	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 3920	U, D	µg/kg dry	3920	1900	50	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 3920	U, D	µg/kg dry	3920	1570	50	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 3920	U, D	µg/kg dry	3920	1530	50	"	"	"	"	"	X
65-85-0	Benzoic acid	< 19400	U, D	µg/kg dry	19400	4070	50	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 19400	U, D	µg/kg dry	19400	1590	50	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 19400	U, D	µg/kg dry	19400	1720	50	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 9810	U, D	µg/kg dry	9810	1410	50	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 9810	U, D	µg/kg dry	9810	1510	50	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 9810	U, D	µg/kg dry	9810	2420	50	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 19400	U, D	µg/kg dry	19400	1820	50	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 19400	U, D	µg/kg dry	19400	2260	50	"	"	"	"	"	X
86-74-8	Carbazole	< 9810	U, D	µg/kg dry	9810	5470	50	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 19400	U, D	µg/kg dry	19400	1850	50	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 9810	U, D	µg/kg dry	9810	2120	50	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 19400	U, D	µg/kg dry	19400	1790	50	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 9810	U, D	µg/kg dry	9810	1750	50	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 19400	U, D	µg/kg dry	19400	2300	50	"	"	"	"	"	X
218-01-9	Chrysene	< 3920	U, D	µg/kg dry	3920	1960	50	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 3920	U, D	µg/kg dry	3920	1500	50	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 9810	U, D	µg/kg dry	9810	1490	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 19400	U, D	µg/kg dry	19400	1690	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 19400	U, D	µg/kg dry	19400	1690	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 19400	U, D	µg/kg dry	19400	1800	50	"	"	"	"	"	X

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Sample Identification

SS-012

SC42525-13

Client Project #

0172.0210M010

Matrix

Soil

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18-Dec-17

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Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>				R01									
91-94-1	3,3'-Dichlorobenzidine	< 19400	U, D	µg/kg dry	19400	2950	50	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
120-83-2	2,4-Dichlorophenol	< 9810	U, D	µg/kg dry	9810	1830	50	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 19400	U, D	µg/kg dry	19400	2400	50	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 19400	U, D	µg/kg dry	19400	2120	50	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 19400	U, D	µg/kg dry	19400	1390	50	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 19400	U, D	µg/kg dry	19400	2060	50	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 19400	U, D	µg/kg dry	19400	2490	50	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 19400	U, D	µg/kg dry	19400	1970	50	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 9810	U, D	µg/kg dry	9810	3790	50	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 9810	U, D	µg/kg dry	9810	2210	50	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 19400	U, D	µg/kg dry	19400	2190	50	"	"	"	"	"	X
206-44-0	Fluoranthene	< 3920	U, D	µg/kg dry	3920	2070	50	"	"	"	"	"	X
86-73-7	Fluorene	< 3920	U, D	µg/kg dry	3920	1990	50	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 9810	U, D	µg/kg dry	9810	1930	50	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 9810	U, D	µg/kg dry	9810	2340	50	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 9810	U, D	µg/kg dry	9810	1330	50	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 9810	U, D	µg/kg dry	9810	2120	50	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 3920	U, D	µg/kg dry	3920	1410	50	"	"	"	"	"	X
78-59-1	Isophorone	< 9810	U, D	µg/kg dry	9810	1840	50	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 3920	U, D	µg/kg dry	3920	2370	50	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 19400	U, D	µg/kg dry	19400	1650	50	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 19400	U, D	µg/kg dry	19400	1870	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 3920	U, D	µg/kg dry	3920	1830	50	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 19400	U, D	µg/kg dry	19400	1650	50	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 19400	U, D	µg/kg dry	19400	2650	50	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 9810	U, D	µg/kg dry	9810	3020	50	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 9810	U, D	µg/kg dry	9810	1790	50	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 9810	U, D	µg/kg dry	9810	1630	50	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 77600	U, D	µg/kg dry	77600	3130	50	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 9810	U, D	µg/kg dry	9810	1820	50	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 9810	U, D	µg/kg dry	9810	1910	50	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 19400	U, D	µg/kg dry	19400	2100	50	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 19400	U, D	µg/kg dry	19400	2070	50	"	"	"	"	"	X
85-01-8	Phenanthrene	< 3920	U, D	µg/kg dry	3920	1820	50	"	"	"	"	"	X
108-95-2	Phenol	< 19400	U, D	µg/kg dry	19400	1280	50	"	"	"	"	"	X
129-00-0	Pyrene	< 3920	U, D	µg/kg dry	3920	2190	50	"	"	"	"	"	X
110-86-1	Pyridine	< 19400	U, D	µg/kg dry	19400	2890	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 19400	U, D	µg/kg dry	19400	1920	50	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 3920	U, D	µg/kg dry	3920	1930	50	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 19400	U, D	µg/kg dry	19400	1750	50	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 9810	U, D	µg/kg dry	9810	1750	50	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 19400	U, D	µg/kg dry	19400	3060	50	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 19400	U, D	µg/kg dry	19400	1880	50	"	"	"	"	"	X

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Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	72			30-130 %			SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	
367-12-4	2-Fluorophenol	47			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	66			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	46			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	83			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	64			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

R01

Tentatively Identified Compounds	0.0	U, D	µg/kg dry				50	SW846 8270D TICS	"	"	MSL	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 11.7	U	µg/kg dry	11.7	5.23	1	SW846 8082A	21-Dec-17	29-Dec-17	AM	1721117	X
11104-28-2	Aroclor-1221	< 11.7	U	µg/kg dry	11.7	6.21	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 11.7	U	µg/kg dry	11.7	5.85	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 11.7	U	µg/kg dry	11.7	11.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 11.7	U	µg/kg dry	11.7	10.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 11.7	U	µg/kg dry	11.7	7.64	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 11.7	U	µg/kg dry	11.7	6.26	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 11.7	U	µg/kg dry	11.7	10.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	192		µg/kg dry	11.7	5.27	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	45			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	50			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	130			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	140			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3546Methylation date: 22-Dec-17

93-76-5	2,4,5-T	< 7.83	U	µg/kg dry	7.83	4.27	1	SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	X
93-72-1	2,4,5-TP (Silvex)	< 7.83	U	µg/kg dry	7.83	3.22	1	"	"	"	"	"	X
94-75-7	2,4-D [2C]	9.35		µg/kg dry	7.83	3.10	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 7.83	U	µg/kg dry	7.83	5.92	1	"	"	"	"	"	X
75-99-0	Dalapon	< 7.83	U	µg/kg dry	7.83	3.13	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 7.83	U	µg/kg dry	7.83	3.19	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 7.83	U	µg/kg dry	7.83	5.72	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 7.83	U	µg/kg dry	7.83	3.18	1	"	"	"	"	"	X
94-74-6	MCPA	< 2630	U	µg/kg dry	2630	1170	1	"	"	"	"	"	X
94-81-5	MCPB	< 2630	U	µg/kg dry	2630	1170	1	"	"	"	"	"	
93-65-2	MCPD	< 2630	U	µg/kg dry	2630	1170	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	110			30-150 %			"	"	"	"	"	

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HerbicidesChlorinated HerbicidesMethylation date: 22-Dec-17

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	90			30-150 %			SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	
2552-89-8	DCAA (Sr)	55			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	60			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 58.4	U, D	µg/kg dry	58.4	15.7	10	SW846 8081B	21-Dec-17	05-Jan-18	SM	1721116	X
319-85-7	beta-BHC	< 58.4	U, D	µg/kg dry	58.4	23.1	10	"	"	"	"	"	X
319-86-8	delta-BHC	< 58.4	U, D	µg/kg dry	58.4	16.8	10	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 35.0	U, D	µg/kg dry	35.0	16.8	10	"	"	"	"	"	X
76-44-8	Heptachlor	< 58.4	U, D	µg/kg dry	58.4	19.5	10	"	"	"	"	"	X
309-00-2	Aldrin	< 58.4	U, D	µg/kg dry	58.4	18.0	10	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 58.4	U, D	µg/kg dry	58.4	20.7	10	"	"	"	"	"	X
959-98-8	Endosulfan I	< 58.4	U, D	µg/kg dry	58.4	20.6	10	"	"	"	"	"	X
60-57-1	Dieldrin	< 58.4	U, D	µg/kg dry	58.4	20.6	10	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 58.4	U, D	µg/kg dry	58.4	18.5	10	"	"	"	"	"	X
72-20-8	Endrin	< 93.5	U, D	µg/kg dry	93.5	20.6	10	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 93.5	U, D	µg/kg dry	93.5	22.0	10	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 93.5	U, D	µg/kg dry	93.5	20.3	10	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 93.5	U, D	µg/kg dry	93.5	19.5	10	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 93.5	U, D	µg/kg dry	93.5	18.0	10	"	"	"	"	"	X
72-43-5	Methoxychlor	< 93.5	U, D	µg/kg dry	93.5	20.7	10	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 93.5	U, D	µg/kg dry	93.5	21.0	10	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 93.5	U, D	µg/kg dry	93.5	19.5	10	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 58.4	U, D	µg/kg dry	58.4	20.0	10	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 58.4	U, D	µg/kg dry	58.4	21.0	10	"	"	"	"	"	X
8001-35-2	Toxaphene	< 1170	U, D	µg/kg dry	1170	253	10	"	"	"	"	"	X
57-74-9	Chlordane	< 234	U, D	µg/kg dry	234	231	10	"	"	"	"	"	X
15972-60-8	Alachlor	< 58.4	U, D	µg/kg dry	58.4	28.6	10	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	66			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	106			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	104			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 155	U, D	mg/kg dry	155	103	5	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
68476-31-3	Fuel Oil #4	< 155	U, D	mg/kg dry	155	155	5	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 155	U, D	mg/kg dry	155	155	5	"	"	"	"	"	
M09800000	Motor Oil	< 155	U, D	mg/kg dry	155	155	5	"	"	"	"	"	
J00100000	Aviation Fuel	< 155	U, D	mg/kg dry	155	155	5	"	"	"	"	"	

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Extractable Petroleum Hydrocarbons													
Diesel Range Organics				R01									
	Unidentified	1,890	D	mg/kg dry	155	155	5	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
	Other Oil	Calculated as		mg/kg dry	155	155	5	"	"	"	"	"	
	Diesel Range Organics (DRO) C10-C28	1,890	D,DRO	mg/kg dry	155	103	5	"	"	"	"	"	X
Surrogate recoveries:													
3386-33-2	1-Chlorooctadecane	98			40-140 %			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
<u>Prepared by method SW846 3050B</u>													
7440-22-4	Silver	< 1.76	U	mg/kg dry	1.76	0.190	1	SW846 6010C	28-Dec-17	10-Jan-18	SJR/T	1721203	X
7440-38-2	Arsenic	15.7		mg/kg dry	1.76	0.223	1	"	"	"	"	"	X
7440-39-3	Barium	96.6		mg/kg dry	1.17	0.138	1	"	"	"	"	"	X
7440-43-9	Cadmium	2.04		mg/kg dry	0.586	0.0303	1	"	"	"	"	"	X
7440-47-3	Chromium	18.3		mg/kg dry	1.17	0.156	1	"	"	"	"	"	X
7439-97-6	Mercury	0.0894		mg/kg dry	0.0333	0.0093	1	SW846 7471B	03-Jan-18	05-Jan-18	ABW	1721204	X
<u>Prepared by method SW846 3051A</u>													
7439-92-1	Lead	54.6		mg/kg dry	1.75	0.247	1	SW846 6010C	11-Jan-18	12-Jan-18	SJR/T	1800406	X
<u>Prepared by method SW846 3050B</u>													
7782-49-2	Selenium	< 1.76	U	mg/kg dry	1.76	0.335	1	"	28-Dec-17	10-Jan-18	"	1721203	X
General Chemistry Parameters													
	% Solids	84.4		%			1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720896	
Toxicity Characteristics													
	Ignitability by Definition	Negative	IgHT	N/A			1	SW846 1030	19-Dec-17 10:54	19-Dec-17 12:05	BD	1720970	X
Reactivity Cyanide/Sulfide													
	Reactivity	See Narrative		mg/kg dry			1	SW846 Ch. 7.3	20-Dec-17	28-Dec-17	TN	1721061	
57-12-5	Reactive Cyanide	< 23.5	U	mg/kg dry	23.5	23.5	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 47.0	U	mg/kg dry	47.0	47.0	1	"	"	"	"	"	

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Sample Identification

SS-013

SC42525-14

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 12:30

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			BD	1720930	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)													
								Initial weight: 4.66 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 8.22	U	µg/kg dry	8.22	4.17	1	SW846 8260C	22-Dec-17	22-Dec-17	MP	1721214	X
67-64-1	Acetone	< 82.2	U	µg/kg dry	82.2	32.9	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 8.22	U	µg/kg dry	8.22	7.90	1	"	"	"	"	"	X
71-43-2	Benzene	< 8.22	U	µg/kg dry	8.22	2.18	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 8.22	U	µg/kg dry	8.22	2.19	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 8.22	U	µg/kg dry	8.22	4.15	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 8.22	U	µg/kg dry	8.22	5.48	1	"	"	"	"	"	X
75-25-2	Bromoform	< 8.22	U	µg/kg dry	8.22	7.84	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 16.4	U	µg/kg dry	16.4	7.42	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 16.4	U	µg/kg dry	16.4	14.7	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 8.22	U	µg/kg dry	8.22	2.35	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 8.22	U	µg/kg dry	8.22	1.50	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 8.22	U	µg/kg dry	8.22	1.84	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 16.4	U	µg/kg dry	16.4	5.26	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 8.22	U	µg/kg dry	8.22	6.72	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 8.22	U	µg/kg dry	8.22	2.57	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 16.4	U	µg/kg dry	16.4	4.56	1	"	"	"	"	"	X
67-66-3	Chloroform	< 8.22	U	µg/kg dry	8.22	4.41	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 16.4	U	µg/kg dry	16.4	3.39	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 8.22	U	µg/kg dry	8.22	2.05	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 8.22	U	µg/kg dry	8.22	1.93	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 16.4	U	µg/kg dry	16.4	11.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 8.22	U	µg/kg dry	8.22	5.57	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 8.22	U	µg/kg dry	8.22	5.52	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 8.22	U	µg/kg dry	8.22	4.27	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 8.22	U	µg/kg dry	8.22	2.14	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 8.22	U	µg/kg dry	8.22	1.78	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 8.22	U	µg/kg dry	8.22	2.43	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 16.4	U	µg/kg dry	16.4	3.12	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 8.22	U	µg/kg dry	8.22	2.15	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 8.22	U	µg/kg dry	8.22	2.94	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 8.22	U	µg/kg dry	8.22	4.30	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 8.22	U	µg/kg dry	8.22	3.05	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 8.22	U	µg/kg dry	8.22	4.36	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 8.22	U	µg/kg dry	8.22	4.31	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 8.22	U	µg/kg dry	8.22	4.26	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 8.22	U	µg/kg dry	8.22	3.88	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 8.22	U	µg/kg dry	8.22	2.65	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 8.22	U	µg/kg dry	8.22	4.96	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 8.22	U	µg/kg dry	8.22	4.32	1	"	"	"	"	"	X

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SC42525-14

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Matrix

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Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
Initial weight: 4.66 g													
100-41-4	Ethylbenzene	< 8.22	U	µg/kg dry	8.22	1.18	1	SW846 8260C	22-Dec-17	22-Dec-17	MP	1721214	X
87-68-3	Hexachlorobutadiene	< 8.22	U	µg/kg dry	8.22	4.13	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 16.4	U	µg/kg dry	16.4	10.1	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 8.22	U	µg/kg dry	8.22	1.62	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 8.22	U	µg/kg dry	8.22	1.77	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 8.22	U	µg/kg dry	8.22	3.02	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 16.4	U	µg/kg dry	16.4	4.23	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 16.4	U	µg/kg dry	16.4	3.26	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 8.22	U	µg/kg dry	8.22	4.89	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 8.22	U	µg/kg dry	8.22	1.33	1	"	"	"	"	"	X
100-42-5	Styrene	< 8.22	U	µg/kg dry	8.22	1.65	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 8.22	U	µg/kg dry	8.22	6.99	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 8.22	U	µg/kg dry	8.22	6.95	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 8.22	U	µg/kg dry	8.22	2.81	1	"	"	"	"	"	X
108-88-3	Toluene	< 8.22	U	µg/kg dry	8.22	2.66	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 8.22	U	µg/kg dry	8.22	2.89	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 8.22	U	µg/kg dry	8.22	6.06	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 8.22	U	µg/kg dry	8.22	2.58	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 8.22	U	µg/kg dry	8.22	2.73	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 8.22	U	µg/kg dry	8.22	5.96	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 8.22	U	µg/kg dry	8.22	2.24	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 8.22	U	µg/kg dry	8.22	4.43	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 8.22	U	µg/kg dry	8.22	6.17	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 8.22	U	µg/kg dry	8.22	2.00	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 8.22	U	µg/kg dry	8.22	1.41	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 8.22	U	µg/kg dry	8.22	2.78	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 16.4	U	µg/kg dry	16.4	1.48	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 8.22	U	µg/kg dry	8.22	2.30	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 16.4	U	µg/kg dry	16.4	13.0	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 8.22	U	µg/kg dry	8.22	7.45	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 8.22	U	µg/kg dry	8.22	2.75	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 8.22	U	µg/kg dry	8.22	4.43	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 8.22	U	µg/kg dry	8.22	1.53	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 82.2	U	µg/kg dry	82.2	53.8	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 164	U	µg/kg dry	164	143	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 41.1	U	µg/kg dry	41.1	18.8	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1640	U	µg/kg dry	1640	307	1	"	"	"	"	"	X
<u>Surrogate recoveries:</u>													
460-00-4	4-Bromofluorobenzene	92			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	129			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	110			70-130 %			"	"	"	"	"	

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Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 13.88 g

	Gasoline Range Organics (C6-C10)	2.5	J, D, GRO	mg/kg dry	8.3	1.7	50	SW846 8015D	22-Dec-17	22-Dec-17	SD	1721219	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	99			70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MSPrepared by method SW846 5035A Soil (low level)Initial weight: 4.66 g

75-18-3	Dimethyl sulfide	15	J N	µg/kg dry			1	SW846 8260C TICs	22-Dec-17	22-Dec-17	MP	1721214	

Semivolatile Organic Compounds by GCMSSemivolatile Organic CompoundsPrepared by method SW846 3546

R01

83-32-9	Acenaphthene	< 1700	U, D	µg/kg dry	1700	844	20	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
208-96-8	Acenaphthylene	< 1700	U, D	µg/kg dry	1700	837	20	"	"	"	"	"	X
62-53-3	Aniline	< 8390	U, D	µg/kg dry	8390	603	20	"	"	"	"	"	X
120-12-7	Anthracene	1,120	J, D	µg/kg dry	1700	811	20	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 8390	U, D	µg/kg dry	8390	825	20	"	"	"	"	"	
92-87-5	Benzidine	< 8390	U, D	µg/kg dry	8390	1690	20	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	2,770	D	µg/kg dry	1700	895	20	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	2,920	D	µg/kg dry	1700	632	20	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	2,080	D	µg/kg dry	1700	822	20	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	1,940	D	µg/kg dry	1700	682	20	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	2,850	D	µg/kg dry	1700	664	20	"	"	"	"	"	X
65-85-0	Benzoic acid	< 8390	U, D	µg/kg dry	8390	1760	20	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 8390	U, D	µg/kg dry	8390	687	20	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 8390	U, D	µg/kg dry	8390	745	20	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4250	U, D	µg/kg dry	4250	608	20	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4250	U, D	µg/kg dry	4250	654	20	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 4250	U, D	µg/kg dry	4250	1050	20	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 8390	U, D	µg/kg dry	8390	786	20	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 8390	U, D	µg/kg dry	8390	979	20	"	"	"	"	"	X
86-74-8	Carbazole	< 4250	U, D	µg/kg dry	4250	2370	20	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 8390	U, D	µg/kg dry	8390	801	20	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4250	U, D	µg/kg dry	4250	918	20	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 8390	U, D	µg/kg dry	8390	776	20	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4250	U, D	µg/kg dry	4250	755	20	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 8390	U, D	µg/kg dry	8390	997	20	"	"	"	"	"	X
218-01-9	Chrysene	2,820	D	µg/kg dry	1700	847	20	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 1700	U, D	µg/kg dry	1700	651	20	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 4250	U, D	µg/kg dry	4250	646	20	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 8390	U, D	µg/kg dry	8390	732	20	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 8390	U, D	µg/kg dry	8390	732	20	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 8390	U, D	µg/kg dry	8390	778	20	"	"	"	"	"	X

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Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
			R01										
91-94-1	3,3'-Dichlorobenzidine	< 8390	U, D	µg/kg dry	8390	1280	20	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
120-83-2	2,4-Dichlorophenol	< 4250	U, D	µg/kg dry	4250	794	20	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 8390	U, D	µg/kg dry	8390	1040	20	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 8390	U, D	µg/kg dry	8390	918	20	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 8390	U, D	µg/kg dry	8390	600	20	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 8390	U, D	µg/kg dry	8390	890	20	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 8390	U, D	µg/kg dry	8390	1080	20	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 8390	U, D	µg/kg dry	8390	855	20	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4250	U, D	µg/kg dry	4250	1640	20	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4250	U, D	µg/kg dry	4250	956	20	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 8390	U, D	µg/kg dry	8390	948	20	"	"	"	"	"	X
206-44-0	Fluoranthene	6,870	D	µg/kg dry	1700	896	20	"	"	"	"	"	X
86-73-7	Fluorene	< 1700	U, D	µg/kg dry	1700	862	20	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4250	U, D	µg/kg dry	4250	836	20	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4250	U, D	µg/kg dry	4250	1010	20	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4250	U, D	µg/kg dry	4250	577	20	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4250	U, D	µg/kg dry	4250	916	20	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	1,810	D	µg/kg dry	1700	610	20	"	"	"	"	"	X
78-59-1	Isophorone	< 4250	U, D	µg/kg dry	4250	796	20	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 1700	U, D	µg/kg dry	1700	1020	20	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 8390	U, D	µg/kg dry	8390	713	20	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 8390	U, D	µg/kg dry	8390	811	20	"	"	"	"	"	X
91-20-3	Naphthalene	< 1700	U, D	µg/kg dry	1700	791	20	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 8390	U, D	µg/kg dry	8390	712	20	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 8390	U, D	µg/kg dry	8390	1150	20	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4250	U, D	µg/kg dry	4250	1310	20	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4250	U, D	µg/kg dry	4250	773	20	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4250	U, D	µg/kg dry	4250	705	20	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 33600	U, D	µg/kg dry	33600	1360	20	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4250	U, D	µg/kg dry	4250	788	20	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4250	U, D	µg/kg dry	4250	827	20	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 8390	U, D	µg/kg dry	8390	910	20	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 8390	U, D	µg/kg dry	8390	897	20	"	"	"	"	"	X
85-01-8	Phenanthrene	4,810	D	µg/kg dry	1700	789	20	"	"	"	"	"	X
108-95-2	Phenol	< 8390	U, D	µg/kg dry	8390	552	20	"	"	"	"	"	X
129-00-0	Pyrene	5,940	D	µg/kg dry	1700	946	20	"	"	"	"	"	X
110-86-1	Pyridine	< 8390	U, D	µg/kg dry	8390	1250	20	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 8390	U, D	µg/kg dry	8390	832	20	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1700	U, D	µg/kg dry	1700	834	20	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 8390	U, D	µg/kg dry	8390	755	20	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4250	U, D	µg/kg dry	4250	758	20	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 8390	U, D	µg/kg dry	8390	1330	20	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 8390	U, D	µg/kg dry	8390	814	20	"	"	"	"	"	X

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Sample Identification

SS-013

SC42525-14

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 12:30

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	92			30-130 %			SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	
367-12-4	2-Fluorophenol	68			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	75			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	68			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	96			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	79			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

R01

Tentatively Identified Compounds	0.0	U, D	µg/kg dry				20	SW846 8270D TICS	"	"	MSL	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 12.6	U	µg/kg dry	12.6	5.63	1	SW846 8082A	21-Dec-17	29-Dec-17	AM	1721117	X
11104-28-2	Aroclor-1221	< 12.6	U	µg/kg dry	12.6	6.68	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 12.6	U	µg/kg dry	12.6	6.29	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 12.6	U	µg/kg dry	12.6	12.4	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 12.6	U	µg/kg dry	12.6	11.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 12.6	U	µg/kg dry	12.6	8.21	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 12.6	U	µg/kg dry	12.6	6.73	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 12.6	U	µg/kg dry	12.6	11.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 12.6	U	µg/kg dry	12.6	5.66	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	255	S02		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3546Methylation date: 22-Dec-17

93-76-5	2,4,5-T	< 8.39	U	µg/kg dry	8.39	4.57	1	SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	X
93-72-1	2,4,5-TP (Silvex)	< 8.39	U	µg/kg dry	8.39	3.45	1	"	"	"	"	"	X
94-75-7	2,4-D [2C]	6.68	J	µg/kg dry	8.39	3.32	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 8.39	U	µg/kg dry	8.39	6.34	1	"	"	"	"	"	X
75-99-0	Dalapon	< 8.39	U	µg/kg dry	8.39	3.35	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 8.39	U	µg/kg dry	8.39	3.42	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 8.39	U	µg/kg dry	8.39	6.13	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 8.39	U	µg/kg dry	8.39	3.40	1	"	"	"	"	"	X
94-74-6	MCPA	< 2820	U	µg/kg dry	2820	1250	1	"	"	"	"	"	X
94-81-5	MCPB	< 2820	U	µg/kg dry	2820	1250	1	"	"	"	"	"	
93-65-2	MCPB	< 2820	U	µg/kg dry	2820	1250	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	95			30-150 %			"	"	"	"	"	

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HerbicidesChlorinated HerbicidesMethylation date: 22-Dec-17

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	80			30-150 %			SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	
2552-89-8	DCAA (Sr)	70			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	60			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 62.8	U, D	µg/kg dry	62.8	16.8	10	SW846 8081B	21-Dec-17	05-Jan-18	SM	1721116	X
319-85-7	beta-BHC	< 62.8	U, D	µg/kg dry	62.8	24.9	10	"	"	"	"	"	X
319-86-8	delta-BHC	< 62.8	U, D	µg/kg dry	62.8	18.1	10	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 37.7	U, D	µg/kg dry	37.7	18.1	10	"	"	"	"	"	X
76-44-8	Heptachlor	< 62.8	U, D	µg/kg dry	62.8	21.0	10	"	"	"	"	"	X
309-00-2	Aldrin	< 62.8	U, D	µg/kg dry	62.8	19.3	10	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 62.8	U, D	µg/kg dry	62.8	22.2	10	"	"	"	"	"	X
959-98-8	Endosulfan I	< 62.8	U, D	µg/kg dry	62.8	22.1	10	"	"	"	"	"	X
60-57-1	Dieldrin	< 62.8	U, D	µg/kg dry	62.8	22.1	10	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 62.8	U, D	µg/kg dry	62.8	19.8	10	"	"	"	"	"	X
72-20-8	Endrin	< 100	U, D	µg/kg dry	100	22.1	10	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 100	U, D	µg/kg dry	100	23.6	10	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 100	U, D	µg/kg dry	100	21.9	10	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 100	U, D	µg/kg dry	100	21.0	10	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 100	U, D	µg/kg dry	100	19.3	10	"	"	"	"	"	X
72-43-5	Methoxychlor	< 100	U, D	µg/kg dry	100	22.2	10	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 100	U, D	µg/kg dry	100	22.6	10	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 100	U, D	µg/kg dry	100	21.0	10	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 62.8	U, D	µg/kg dry	62.8	21.5	10	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 62.8	U, D	µg/kg dry	62.8	22.6	10	"	"	"	"	"	X
8001-35-2	Toxaphene	< 1260	U, D	µg/kg dry	1260	272	10	"	"	"	"	"	X
57-74-9	Chlordane	< 251	U, D	µg/kg dry	251	248	10	"	"	"	"	"	X
15972-60-8	Alachlor	< 62.8	U, D	µg/kg dry	62.8	30.8	10	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	123			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	136			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	104			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	116			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 166	U, D	mg/kg dry	166	110	5	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
68476-31-3	Fuel Oil #4	< 166	U, D	mg/kg dry	166	166	5	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 166	U, D	mg/kg dry	166	166	5	"	"	"	"	"	
M09800000	Motor Oil	< 166	U, D	mg/kg dry	166	166	5	"	"	"	"	"	
J00100000	Aviation Fuel	< 166	U, D	mg/kg dry	166	166	5	"	"	"	"	"	

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Sample Identification

SS-013

SC42525-14

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 12:30

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons													
Diesel Range Organics													
			R01										
	Unidentified	1,970	D	mg/kg dry	166	166	5	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
	Other Oil	Calculated as		mg/kg dry	166	166	5	"	"	"	"	"	
	Diesel Range Organics (DRO) C10-C28	1,970	D,DRO	mg/kg dry	166	110	5	"	"	"	"	"	X
Surrogate recoveries:													
3386-33-2	1-Chlorooctadecane	2220	S02		40-140 %			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-22-4	Silver	< 1.90	U	mg/kg dry	1.90	0.205	1	SW846 6010C	28-Dec-17	10-Jan-18	SJR/T	1721203	X
7440-38-2	Arsenic	24.6		mg/kg dry	1.90	0.240	1	"	"	"	"	"	X
7440-39-3	Barium	87.3		mg/kg dry	1.26	0.149	1	"	"	"	"	"	X
7440-43-9	Cadmium	1.32		mg/kg dry	0.632	0.0328	1	"	"	"	"	"	X
7440-47-3	Chromium	14.9		mg/kg dry	1.26	0.168	1	"	"	"	"	"	X
7439-97-6	Mercury	0.370		mg/kg dry	0.0368	0.0102	1	SW846 7471B	03-Jan-18	05-Jan-18	ABW	1721204	X
Prepared by method SW846 3051A													
7439-92-1	Lead	127		mg/kg dry	1.90	0.268	1	SW846 6010C	11-Jan-18	12-Jan-18	SJR/T	1800406	X
Prepared by method SW846 3050B													
7782-49-2	Selenium	< 1.90	U	mg/kg dry	1.90	0.362	1	"	28-Dec-17	10-Jan-18	"	1721203	X
General Chemistry Parameters													
	% Solids	78.4		%			1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720896	
Toxicity Characteristics													
	Ignitability by Definition	Negative	IgHT	N/A			1	SW846 1030	19-Dec-17 10:54	19-Dec-17 12:05	BD	1720970	X
Reactivity Cyanide/Sulfide													
	Reactivity	See Narrative		mg/kg dry			1	SW846 Ch. 7.3	20-Dec-17	28-Dec-17	TN	1721061	
57-12-5	Reactive Cyanide	< 23.7	U	mg/kg dry	23.7	23.7	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 47.4	U	mg/kg dry	47.4	47.4	1	"	"	"	"	"	

Sample Identification

SS-014

SC42525-15

Client Project #

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Matrix

Soil

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13-Dec-17 12:40

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18-Dec-17

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Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			BD	1720930	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
								Initial weight: 6.06 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.82	U	µg/kg dry	5.82	2.95	1	SW846 8260C	22-Dec-17	22-Dec-17	MP	1721214	X
67-64-1	Acetone	< 58.2	U	µg/kg dry	58.2	23.3	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.82	U	µg/kg dry	5.82	5.59	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.82	U	µg/kg dry	5.82	1.54	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.82	U	µg/kg dry	5.82	1.55	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.82	U	µg/kg dry	5.82	2.94	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.82	U	µg/kg dry	5.82	3.88	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.82	U	µg/kg dry	5.82	5.55	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 11.6	U	µg/kg dry	11.6	5.26	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 11.6	U	µg/kg dry	11.6	10.4	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.82	U	µg/kg dry	5.82	1.66	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.82	U	µg/kg dry	5.82	1.06	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.82	U	µg/kg dry	5.82	1.30	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 11.6	U	µg/kg dry	11.6	3.73	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.82	U	µg/kg dry	5.82	4.76	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.82	U	µg/kg dry	5.82	1.82	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 11.6	U	µg/kg dry	11.6	3.23	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.82	U	µg/kg dry	5.82	3.13	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 11.6	U	µg/kg dry	11.6	2.40	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.82	U	µg/kg dry	5.82	1.45	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.82	U	µg/kg dry	5.82	1.37	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 11.6	U	µg/kg dry	11.6	8.41	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.82	U	µg/kg dry	5.82	3.95	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.82	U	µg/kg dry	5.82	3.91	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.82	U	µg/kg dry	5.82	3.03	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.82	U	µg/kg dry	5.82	1.51	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.82	U	µg/kg dry	5.82	1.26	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.82	U	µg/kg dry	5.82	1.72	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 11.6	U	µg/kg dry	11.6	2.21	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.82	U	µg/kg dry	5.82	1.53	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.82	U	µg/kg dry	5.82	2.08	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.82	U	µg/kg dry	5.82	3.04	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.82	U	µg/kg dry	5.82	2.16	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.82	U	µg/kg dry	5.82	3.09	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.82	U	µg/kg dry	5.82	3.05	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.82	U	µg/kg dry	5.82	3.02	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.82	U	µg/kg dry	5.82	2.75	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.82	U	µg/kg dry	5.82	1.87	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.82	U	µg/kg dry	5.82	3.51	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.82	U	µg/kg dry	5.82	3.06	1	"	"	"	"	"	X

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Sample Identification

SS-014

SC42525-15

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 12:40

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
Initial weight: 6.06 g													
100-41-4	Ethylbenzene	< 5.82	U	µg/kg dry	5.82	0.84	1	SW846 8260C	22-Dec-17	22-Dec-17	MP	1721214	X
87-68-3	Hexachlorobutadiene	< 5.82	U	µg/kg dry	5.82	2.92	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 11.6	U	µg/kg dry	11.6	7.14	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.82	U	µg/kg dry	5.82	1.15	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 5.82	U	µg/kg dry	5.82	1.25	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.82	U	µg/kg dry	5.82	2.14	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 11.6	U	µg/kg dry	11.6	2.99	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 11.6	U	µg/kg dry	11.6	2.31	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.82	U	µg/kg dry	5.82	3.46	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.82	U	µg/kg dry	5.82	0.94	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.82	U	µg/kg dry	5.82	1.17	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.82	U	µg/kg dry	5.82	4.95	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.82	U	µg/kg dry	5.82	4.93	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.82	U	µg/kg dry	5.82	1.99	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.82	U	µg/kg dry	5.82	1.89	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.82	U	µg/kg dry	5.82	2.04	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.82	U	µg/kg dry	5.82	4.29	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.82	U	µg/kg dry	5.82	1.83	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 5.82	U	µg/kg dry	5.82	1.93	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.82	U	µg/kg dry	5.82	4.22	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.82	U	µg/kg dry	5.82	1.59	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.82	U	µg/kg dry	5.82	3.14	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.82	U	µg/kg dry	5.82	4.37	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.82	U	µg/kg dry	5.82	1.41	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.82	U	µg/kg dry	5.82	1.00	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.82	U	µg/kg dry	5.82	1.97	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 11.6	U	µg/kg dry	11.6	1.05	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.82	U	µg/kg dry	5.82	1.63	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 11.6	U	µg/kg dry	11.6	9.17	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 5.82	U	µg/kg dry	5.82	5.27	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.82	U	µg/kg dry	5.82	1.94	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 5.82	U	µg/kg dry	5.82	3.14	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 5.82	U	µg/kg dry	5.82	1.08	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 58.2	U	µg/kg dry	58.2	38.1	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 116	U	µg/kg dry	116	101	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 29.1	U	µg/kg dry	29.1	13.3	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1160	U	µg/kg dry	1160	217	1	"	"	"	"	"	X
<u>Surrogate recoveries:</u>													
460-00-4	4-Bromofluorobenzene	95			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	129			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	108			70-130 %			"	"	"	"	"	

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Sample Identification

SS-014

SC42525-15

Client Project #

0172.0210M010

Matrix

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<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 16.79 g

	Gasoline Range Organics (C6-C10)	< 6.2	U, D, GRO	mg/kg dry	6.2	1.3	50	SW846 8015D	22-Dec-17	22-Dec-17	SD	1721219	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	106			70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MSPrepared by method SW846 5035A Soil (low level)Initial weight: 6.06 g

	Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	22-Dec-17	22-Dec-17	MP	1721214	

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Prepared by method SW846 3546

83-32-9	Acenaphthene	< 157	U, D	µg/kg dry	157	78.3	2	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
208-96-8	Acenaphthylene	< 157	U, D	µg/kg dry	157	77.6	2	"	"	"	"	"	X
62-53-3	Aniline	< 778	U, D	µg/kg dry	778	55.9	2	"	"	"	"	"	X
120-12-7	Anthracene	< 157	U, D	µg/kg dry	157	75.2	2	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 778	U, D	µg/kg dry	778	76.5	2	"	"	"	"	"	
92-87-5	Benzidine	< 778	U, D	µg/kg dry	778	157	2	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	84.1	J, D	µg/kg dry	157	83.0	2	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	109	J, D	µg/kg dry	157	58.5	2	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	76.2	J, D	µg/kg dry	157	76.1	2	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	125	J, D	µg/kg dry	157	63.2	2	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	99.0	J, D	µg/kg dry	157	61.5	2	"	"	"	"	"	X
65-85-0	Benzoic acid	< 778	U, D	µg/kg dry	778	163	2	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 778	U, D	µg/kg dry	778	63.7	2	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 778	U, D	µg/kg dry	778	69.1	2	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	165	J, D	µg/kg dry	394	56.4	2	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 394	U, D	µg/kg dry	394	60.6	2	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 394	U, D	µg/kg dry	394	97.1	2	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 778	U, D	µg/kg dry	778	72.9	2	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 778	U, D	µg/kg dry	778	90.8	2	"	"	"	"	"	X
86-74-8	Carbazole	< 394	U, D	µg/kg dry	394	220	2	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 778	U, D	µg/kg dry	778	74.3	2	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 394	U, D	µg/kg dry	394	85.1	2	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 778	U, D	µg/kg dry	778	71.9	2	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 394	U, D	µg/kg dry	394	70.0	2	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 778	U, D	µg/kg dry	778	92.4	2	"	"	"	"	"	X
218-01-9	Chrysene	131	J, D	µg/kg dry	157	78.5	2	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 157	U, D	µg/kg dry	157	60.3	2	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 394	U, D	µg/kg dry	394	59.9	2	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 778	U, D	µg/kg dry	778	67.9	2	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 778	U, D	µg/kg dry	778	67.9	2	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 778	U, D	µg/kg dry	778	72.1	2	"	"	"	"	"	X

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Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
			R01										
91-94-1	3,3'-Dichlorobenzidine	< 778	U, D	µg/kg dry	778	118	2	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
120-83-2	2,4-Dichlorophenol	< 394	U, D	µg/kg dry	394	73.6	2	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 778	U, D	µg/kg dry	778	96.2	2	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 778	U, D	µg/kg dry	778	85.1	2	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 778	U, D	µg/kg dry	778	55.6	2	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 778	U, D	µg/kg dry	778	82.5	2	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 778	U, D	µg/kg dry	778	99.9	2	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 778	U, D	µg/kg dry	778	79.2	2	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 394	U, D	µg/kg dry	394	152	2	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 394	U, D	µg/kg dry	394	88.6	2	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 778	U, D	µg/kg dry	778	87.9	2	"	"	"	"	"	X
206-44-0	Fluoranthene	157	D	µg/kg dry	157	83.1	2	"	"	"	"	"	X
86-73-7	Fluorene	< 157	U, D	µg/kg dry	157	79.9	2	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 394	U, D	µg/kg dry	394	77.5	2	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 394	U, D	µg/kg dry	394	94.1	2	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 394	U, D	µg/kg dry	394	53.5	2	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 394	U, D	µg/kg dry	394	84.9	2	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	58.9	J, D	µg/kg dry	157	56.6	2	"	"	"	"	"	X
78-59-1	Isophorone	< 394	U, D	µg/kg dry	394	73.8	2	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 157	U, D	µg/kg dry	157	95.0	2	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 778	U, D	µg/kg dry	778	66.1	2	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 778	U, D	µg/kg dry	778	75.2	2	"	"	"	"	"	X
91-20-3	Naphthalene	< 157	U, D	µg/kg dry	157	73.3	2	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 778	U, D	µg/kg dry	778	66.0	2	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 778	U, D	µg/kg dry	778	106	2	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 394	U, D	µg/kg dry	394	121	2	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 394	U, D	µg/kg dry	394	71.7	2	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 394	U, D	µg/kg dry	394	65.3	2	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 3110	U, D	µg/kg dry	3110	126	2	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 394	U, D	µg/kg dry	394	73.1	2	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 394	U, D	µg/kg dry	394	76.7	2	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 778	U, D	µg/kg dry	778	84.4	2	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 778	U, D	µg/kg dry	778	83.1	2	"	"	"	"	"	X
85-01-8	Phenanthrene	132	J, D	µg/kg dry	157	73.2	2	"	"	"	"	"	X
108-95-2	Phenol	< 778	U, D	µg/kg dry	778	51.2	2	"	"	"	"	"	X
129-00-0	Pyrene	182	D	µg/kg dry	157	87.7	2	"	"	"	"	"	X
110-86-1	Pyridine	< 778	U, D	µg/kg dry	778	116	2	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 778	U, D	µg/kg dry	778	77.1	2	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 157	U, D	µg/kg dry	157	77.3	2	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 778	U, D	µg/kg dry	778	70.0	2	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 394	U, D	µg/kg dry	394	70.2	2	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 778	U, D	µg/kg dry	778	123	2	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzen e	< 778	U, D	µg/kg dry	778	75.4	2	"	"	"	"	"	X

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Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	74			30-130 %			SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	
367-12-4	2-Fluorophenol	65			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	68			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	68			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	81			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	78			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

R01

Tentatively Identified Compounds	0.0	U, D	µg/kg dry				2	SW846 8270D TICS	"	"	MSL	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 11.6	U	µg/kg dry	11.6	5.21	1	SW846 8082A	21-Dec-17	28-Dec-17	AM	1721117	X
11104-28-2	Aroclor-1221	< 11.6	U	µg/kg dry	11.6	6.19	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 11.6	U	µg/kg dry	11.6	5.82	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 11.6	U	µg/kg dry	11.6	11.5	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 11.6	U	µg/kg dry	11.6	10.6	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 11.6	U	µg/kg dry	11.6	7.61	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 11.6	U	µg/kg dry	11.6	6.23	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 11.6	U	µg/kg dry	11.6	10.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 11.6	U	µg/kg dry	11.6	5.25	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	55			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3546Methylation date: 22-Dec-17

93-76-5	2,4,5-T	< 7.82	U	µg/kg dry	7.82	4.26	1	SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	X
93-72-1	2,4,5-TP (Silvex)	< 7.82	U	µg/kg dry	7.82	3.21	1	"	"	"	"	"	X
94-75-7	2,4-D	9.33		µg/kg dry	7.82	2.78	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 7.82	U	µg/kg dry	7.82	5.91	1	"	"	"	"	"	X
75-99-0	Dalapon	< 7.82	U	µg/kg dry	7.82	3.12	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 7.82	U	µg/kg dry	7.82	3.19	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 7.82	U	µg/kg dry	7.82	5.71	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 7.82	U	µg/kg dry	7.82	3.17	1	"	"	"	"	"	X
94-74-6	MCPA	< 2630	U	µg/kg dry	2630	1170	1	"	"	"	"	"	X
94-81-5	MCPB	< 2630	U	µg/kg dry	2630	1170	1	"	"	"	"	"	
93-65-2	MCPB	< 2630	U	µg/kg dry	2630	1170	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	100			30-150 %			"	"	"	"	"	

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Sample Identification

SS-014

SC42525-15

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 12:40

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

HerbicidesChlorinated HerbicidesMethylation date: 22-Dec-17

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	115			30-150 %			SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	
2552-89-8	DCAA (Sr)	90			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	105			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 58.2	U, D	µg/kg dry	58.2	15.6	10	SW846 8081B	21-Dec-17	05-Jan-18	SM	1721116	X
319-85-7	beta-BHC	< 58.2	U, D	µg/kg dry	58.2	23.0	10	"	"	"	"	"	X
319-86-8	delta-BHC	< 58.2	U, D	µg/kg dry	58.2	16.7	10	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 34.9	U, D	µg/kg dry	34.9	16.7	10	"	"	"	"	"	X
76-44-8	Heptachlor	< 58.2	U, D	µg/kg dry	58.2	19.4	10	"	"	"	"	"	X
309-00-2	Aldrin	< 58.2	U, D	µg/kg dry	58.2	17.9	10	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 58.2	U, D	µg/kg dry	58.2	20.6	10	"	"	"	"	"	X
959-98-8	Endosulfan I	< 58.2	U, D	µg/kg dry	58.2	20.5	10	"	"	"	"	"	X
60-57-1	Dieldrin	< 58.2	U, D	µg/kg dry	58.2	20.5	10	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 58.2	U, D	µg/kg dry	58.2	18.4	10	"	"	"	"	"	X
72-20-8	Endrin	< 93.0	U, D	µg/kg dry	93.0	20.5	10	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 93.0	U, D	µg/kg dry	93.0	21.9	10	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 93.0	U, D	µg/kg dry	93.0	20.2	10	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 93.0	U, D	µg/kg dry	93.0	19.4	10	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 93.0	U, D	µg/kg dry	93.0	17.9	10	"	"	"	"	"	X
72-43-5	Methoxychlor	< 93.0	U, D	µg/kg dry	93.0	20.6	10	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 93.0	U, D	µg/kg dry	93.0	20.9	10	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 93.0	U, D	µg/kg dry	93.0	19.4	10	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 58.2	U, D	µg/kg dry	58.2	19.9	10	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 58.2	U, D	µg/kg dry	58.2	20.9	10	"	"	"	"	"	X
8001-35-2	Toxaphene	< 1160	U, D	µg/kg dry	1160	252	10	"	"	"	"	"	X
57-74-9	Chlordane	< 233	U, D	µg/kg dry	233	230	10	"	"	"	"	"	X
15972-60-8	Alachlor	< 58.2	U, D	µg/kg dry	58.2	28.5	10	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	101			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	115			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	91			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	134			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 62.2	U, D	mg/kg dry	62.2	41.4	2	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
68476-31-3	Fuel Oil #4	< 62.2	U, D	mg/kg dry	62.2	62.2	2	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 62.2	U, D	mg/kg dry	62.2	62.2	2	"	"	"	"	"	
M09800000	Motor Oil	< 62.2	U, D	mg/kg dry	62.2	62.2	2	"	"	"	"	"	
J00100000	Aviation Fuel	< 62.2	U, D	mg/kg dry	62.2	62.2	2	"	"	"	"	"	

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Sample Identification

SS-014

SC42525-15

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

13-Dec-17 12:40

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons													
Diesel Range Organics													
			R01										
	Unidentified	458	D	mg/kg dry	62.2	62.2	2	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
	Other Oil	Calculated as		mg/kg dry	62.2	62.2	2	"	"	"	"	"	
	Diesel Range Organics (DRO) C10-C28	458	D,DRO	mg/kg dry	62.2	41.4	2	"	"	"	"	"	X
Surrogate recoveries:													
3386-33-2	1-Chlorooctadecane	112			40-140 %			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-22-4	Silver	< 1.75	U	mg/kg dry	1.75	0.189	1	SW846 6010C	28-Dec-17	10-Jan-18	SJR/T	1721203	X
7440-38-2	Arsenic	12.1		mg/kg dry	1.75	0.222	1	"	"	"	"	"	X
7440-39-3	Barium	55.3		mg/kg dry	1.17	0.138	1	"	"	"	"	"	X
7440-43-9	Cadmium	1.03		mg/kg dry	0.583	0.0302	1	"	"	"	"	"	X
7440-47-3	Chromium	12.3		mg/kg dry	1.17	0.155	1	"	"	"	"	"	X
7439-97-6	Mercury	0.184		mg/kg dry	0.0334	0.0093	1	SW846 7471B	03-Jan-18	05-Jan-18	ABW	1721204	X
Prepared by method SW846 3051A													
7439-92-1	Lead	34.6		mg/kg dry	1.76	0.249	1	SW846 6010C	11-Jan-18	12-Jan-18	SJR/T	1800406	X
Prepared by method SW846 3050B													
7782-49-2	Selenium	< 1.75	U	mg/kg dry	1.75	0.334	1	"	28-Dec-17	10-Jan-18	"	1721203	X
General Chemistry Parameters													
	% Solids	84.3		%			1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720896	
Toxicity Characteristics													
	Ignitability by Definition	Negative	IgHT	N/A			1	SW846 1030	19-Dec-17 10:54	19-Dec-17 12:05	BD	1720970	X
Reactivity Cyanide/Sulfide													
	Reactivity	See Narrative		mg/kg dry			1	SW846 Ch. 7.3	20-Dec-17	28-Dec-17	TN	1721061	
57-12-5	Reactive Cyanide	< 23.4	U	mg/kg dry	23.4	23.4	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 46.7	U	mg/kg dry	46.7	46.7	1	"	"	"	"	"	

Sample Identification

SS-015

SC42525-16

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 09:45

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			BD	1720930	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)													
								Initial weight: 4.5 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 7.35	U	µg/kg dry	7.35	3.73	1	SW846 8260C	22-Dec-17	22-Dec-17	MP	1721214	X
67-64-1	Acetone	< 73.5	U	µg/kg dry	73.5	29.4	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 7.35	U	µg/kg dry	7.35	7.06	1	"	"	"	"	"	X
71-43-2	Benzene	< 7.35	U	µg/kg dry	7.35	1.95	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 7.35	U	µg/kg dry	7.35	1.96	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 7.35	U	µg/kg dry	7.35	3.71	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 7.35	U	µg/kg dry	7.35	4.90	1	"	"	"	"	"	X
75-25-2	Bromoform	< 7.35	U	µg/kg dry	7.35	7.01	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 14.7	U	µg/kg dry	14.7	6.64	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 14.7	U	µg/kg dry	14.7	13.1	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 7.35	U	µg/kg dry	7.35	2.10	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 7.35	U	µg/kg dry	7.35	1.34	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 7.35	U	µg/kg dry	7.35	1.65	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 14.7	U	µg/kg dry	14.7	4.70	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 7.35	U	µg/kg dry	7.35	6.01	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 7.35	U	µg/kg dry	7.35	2.30	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 14.7	U	µg/kg dry	14.7	4.08	1	"	"	"	"	"	X
67-66-3	Chloroform	< 7.35	U	µg/kg dry	7.35	3.95	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 14.7	U	µg/kg dry	14.7	3.04	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 7.35	U	µg/kg dry	7.35	1.83	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 7.35	U	µg/kg dry	7.35	1.73	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 14.7	U	µg/kg dry	14.7	10.6	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 7.35	U	µg/kg dry	7.35	4.98	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 7.35	U	µg/kg dry	7.35	4.93	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 7.35	U	µg/kg dry	7.35	3.82	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 7.35	U	µg/kg dry	7.35	1.91	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 7.35	U	µg/kg dry	7.35	1.60	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 7.35	U	µg/kg dry	7.35	2.18	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 14.7	U	µg/kg dry	14.7	2.79	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 7.35	U	µg/kg dry	7.35	1.93	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 7.35	U	µg/kg dry	7.35	2.63	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 7.35	U	µg/kg dry	7.35	3.84	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 7.35	U	µg/kg dry	7.35	2.73	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 7.35	U	µg/kg dry	7.35	3.90	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 7.35	U	µg/kg dry	7.35	3.85	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 7.35	U	µg/kg dry	7.35	3.81	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 7.35	U	µg/kg dry	7.35	3.47	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 7.35	U	µg/kg dry	7.35	2.37	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 7.35	U	µg/kg dry	7.35	4.43	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 7.35	U	µg/kg dry	7.35	3.86	1	"	"	"	"	"	X

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Sample Identification

SS-015

SC42525-16

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 09:45

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 4.5 g

100-41-4	Ethylbenzene	< 7.35	U	µg/kg dry	7.35	1.06	1	SW846 8260C	22-Dec-17	22-Dec-17	MP	1721214	X
87-68-3	Hexachlorobutadiene	< 7.35	U	µg/kg dry	7.35	3.69	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 14.7	U	µg/kg dry	14.7	9.02	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 7.35	U	µg/kg dry	7.35	1.45	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 7.35	U	µg/kg dry	7.35	1.58	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 7.35	U	µg/kg dry	7.35	2.70	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 14.7	U	µg/kg dry	14.7	3.78	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 14.7	U	µg/kg dry	14.7	2.92	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 7.35	U	µg/kg dry	7.35	4.37	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 7.35	U	µg/kg dry	7.35	1.19	1	"	"	"	"	"	X
100-42-5	Styrene	< 7.35	U	µg/kg dry	7.35	1.48	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 7.35	U	µg/kg dry	7.35	6.25	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 7.35	U	µg/kg dry	7.35	6.22	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 7.35	U	µg/kg dry	7.35	2.51	1	"	"	"	"	"	X
108-88-3	Toluene	< 7.35	U	µg/kg dry	7.35	2.38	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 7.35	U	µg/kg dry	7.35	2.58	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 7.35	U	µg/kg dry	7.35	5.42	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 7.35	U	µg/kg dry	7.35	2.31	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 7.35	U	µg/kg dry	7.35	2.44	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 7.35	U	µg/kg dry	7.35	5.33	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 7.35	U	µg/kg dry	7.35	2.01	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 7.35	U	µg/kg dry	7.35	3.96	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 7.35	U	µg/kg dry	7.35	5.51	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 7.35	U	µg/kg dry	7.35	1.79	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 7.35	U	µg/kg dry	7.35	1.26	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 7.35	U	µg/kg dry	7.35	2.48	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 14.7	U	µg/kg dry	14.7	1.32	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 7.35	U	µg/kg dry	7.35	2.06	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 14.7	U	µg/kg dry	14.7	11.6	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 7.35	U	µg/kg dry	7.35	6.66	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 7.35	U	µg/kg dry	7.35	2.45	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 7.35	U	µg/kg dry	7.35	3.96	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 7.35	U	µg/kg dry	7.35	1.37	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 73.5	U	µg/kg dry	73.5	48.1	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 147	U	µg/kg dry	147	128	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 36.8	U	µg/kg dry	36.8	16.8	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1470	U	µg/kg dry	1470	274	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	93		70-130 %		"	"	"	"	"	"	"	
2037-26-5	Toluene-d8	98		70-130 %		"	"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	128		70-130 %		"	"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	111		70-130 %		"	"	"	"	"	"	"	

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Sample Identification

SS-015

SC42525-16

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 09:45

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 14.97 g

Gasoline Range Organics (C6-C10)	1.5	J, D, GRO	mg/kg dry	6.7	1.4	50	SW846 8015D	22-Dec-17	22-Dec-17	SD	1721219	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	104		70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MSPrepared by method SW846 5035A Soil (low level)Initial weight: 4.5 g

Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	22-Dec-17	22-Dec-17	MP	1721214	

Semivolatile Organic Compounds by GCMSSemivolatile Organic CompoundsPrepared by method SW846 3546

R01

83-32-9	Acenaphthene	< 779	U, D	µg/kg dry	779	388	10	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
208-96-8	Acenaphthylene	< 779	U, D	µg/kg dry	779	384	10	"	"	"	"	"	X
62-53-3	Aniline	< 3860	U, D	µg/kg dry	3860	277	10	"	"	"	"	"	X
120-12-7	Anthracene	< 779	U, D	µg/kg dry	779	373	10	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 3860	U, D	µg/kg dry	3860	379	10	"	"	"	"	"	
92-87-5	Benzidine	< 3860	U, D	µg/kg dry	3860	776	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 779	U, D	µg/kg dry	779	411	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 779	U, D	µg/kg dry	779	290	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 779	U, D	µg/kg dry	779	377	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 779	U, D	µg/kg dry	779	313	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 779	U, D	µg/kg dry	779	305	10	"	"	"	"	"	X
65-85-0	Benzoic acid	< 3860	U, D	µg/kg dry	3860	809	10	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 3860	U, D	µg/kg dry	3860	316	10	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 3860	U, D	µg/kg dry	3860	342	10	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 1950	U, D	µg/kg dry	1950	279	10	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 1950	U, D	µg/kg dry	1950	300	10	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 1950	U, D	µg/kg dry	1950	481	10	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 3860	U, D	µg/kg dry	3860	361	10	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 3860	U, D	µg/kg dry	3860	450	10	"	"	"	"	"	X
86-74-8	Carbazole	< 1950	U, D	µg/kg dry	1950	1090	10	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 3860	U, D	µg/kg dry	3860	368	10	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 1950	U, D	µg/kg dry	1950	422	10	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 3860	U, D	µg/kg dry	3860	356	10	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 1950	U, D	µg/kg dry	1950	347	10	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 3860	U, D	µg/kg dry	3860	458	10	"	"	"	"	"	X
218-01-9	Chrysene	< 779	U, D	µg/kg dry	779	389	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 779	U, D	µg/kg dry	779	299	10	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 1950	U, D	µg/kg dry	1950	297	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 3860	U, D	µg/kg dry	3860	336	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3860	U, D	µg/kg dry	3860	336	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3860	U, D	µg/kg dry	3860	357	10	"	"	"	"	"	X

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Sample Identification

SS-015

SC42525-16

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 09:45

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
<u>Semivolatile Organic Compounds</u>			R01										
91-94-1	3,3'-Dichlorobenzidine	< 3860	U, D	µg/kg dry	3860	586	10	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
120-83-2	2,4-Dichlorophenol	< 1950	U, D	µg/kg dry	1950	365	10	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 3860	U, D	µg/kg dry	3860	477	10	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 3860	U, D	µg/kg dry	3860	422	10	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 3860	U, D	µg/kg dry	3860	276	10	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 3860	U, D	µg/kg dry	3860	409	10	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 3860	U, D	µg/kg dry	3860	495	10	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 3860	U, D	µg/kg dry	3860	393	10	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 1950	U, D	µg/kg dry	1950	755	10	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 1950	U, D	µg/kg dry	1950	439	10	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 3860	U, D	µg/kg dry	3860	436	10	"	"	"	"	"	X
206-44-0	Fluoranthene	< 779	U, D	µg/kg dry	779	412	10	"	"	"	"	"	X
86-73-7	Fluorene	< 779	U, D	µg/kg dry	779	396	10	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 1950	U, D	µg/kg dry	1950	384	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 1950	U, D	µg/kg dry	1950	466	10	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 1950	U, D	µg/kg dry	1950	265	10	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 1950	U, D	µg/kg dry	1950	421	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 779	U, D	µg/kg dry	779	280	10	"	"	"	"	"	X
78-59-1	Isophorone	< 1950	U, D	µg/kg dry	1950	366	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 779	U, D	µg/kg dry	779	471	10	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 3860	U, D	µg/kg dry	3860	328	10	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 3860	U, D	µg/kg dry	3860	373	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 779	U, D	µg/kg dry	779	363	10	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 3860	U, D	µg/kg dry	3860	327	10	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 3860	U, D	µg/kg dry	3860	527	10	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 1950	U, D	µg/kg dry	1950	600	10	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 1950	U, D	µg/kg dry	1950	355	10	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 1950	U, D	µg/kg dry	1950	324	10	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 15400	U, D	µg/kg dry	15400	623	10	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 1950	U, D	µg/kg dry	1950	362	10	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 1950	U, D	µg/kg dry	1950	380	10	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 3860	U, D	µg/kg dry	3860	418	10	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 3860	U, D	µg/kg dry	3860	412	10	"	"	"	"	"	X
85-01-8	Phenanthrene	< 779	U, D	µg/kg dry	779	363	10	"	"	"	"	"	X
108-95-2	Phenol	< 3860	U, D	µg/kg dry	3860	254	10	"	"	"	"	"	X
129-00-0	Pyrene	< 779	U, D	µg/kg dry	779	435	10	"	"	"	"	"	X
110-86-1	Pyridine	< 3860	U, D	µg/kg dry	3860	575	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3860	U, D	µg/kg dry	3860	382	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 779	U, D	µg/kg dry	779	383	10	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 3860	U, D	µg/kg dry	3860	347	10	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 1950	U, D	µg/kg dry	1950	348	10	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 3860	U, D	µg/kg dry	3860	609	10	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 3860	U, D	µg/kg dry	3860	374	10	"	"	"	"	"	X

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SS-015

SC42525-16

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Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	75			30-130 %			SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	
367-12-4	2-Fluorophenol	59			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	70			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	59			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	81			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	78			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

R01

Tentatively Identified Compounds	0.0	U, D	µg/kg dry				10	SW846 8270D TICS	"	"	MSL	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 11.5	U	µg/kg dry	11.5	5.14	1	SW846 8082A	21-Dec-17	28-Dec-17	AM	1721117	X
11104-28-2	Aroclor-1221	< 11.5	U	µg/kg dry	11.5	6.11	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 11.5	U	µg/kg dry	11.5	5.75	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 11.5	U	µg/kg dry	11.5	11.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 11.5	U	µg/kg dry	11.5	10.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 11.5	U	µg/kg dry	11.5	7.51	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 11.5	U	µg/kg dry	11.5	6.15	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 11.5	U	µg/kg dry	11.5	10.0	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 11.5	U	µg/kg dry	11.5	5.18	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	60			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	70			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	110			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3546Methylation date: 22-Dec-17

93-76-5	2,4,5-T	< 7.69	U	µg/kg dry	7.69	4.19	1	SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	X
93-72-1	2,4,5-TP (Silvex)	< 7.69	U	µg/kg dry	7.69	3.16	1	"	"	"	"	"	X
94-75-7	2,4-D [2C]	18.4	P	µg/kg dry	7.69	3.04	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 7.69	U	µg/kg dry	7.69	5.81	1	"	"	"	"	"	X
75-99-0	Dalapon	< 7.69	U	µg/kg dry	7.69	3.07	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 7.69	U	µg/kg dry	7.69	3.13	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 7.69	U	µg/kg dry	7.69	5.62	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 7.69	U	µg/kg dry	7.69	3.12	1	"	"	"	"	"	X
94-74-6	MCPA	< 2580	U	µg/kg dry	2580	1150	1	"	"	"	"	"	X
94-81-5	MCPB	< 2580	U	µg/kg dry	2580	1150	1	"	"	"	"	"	
93-65-2	MCPD	< 2580	U	µg/kg dry	2580	1150	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	130			30-150 %			"	"	"	"	"	

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HerbicidesChlorinated HerbicidesMethylation date: 22-Dec-17

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	110			30-150 %			SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	
2552-89-8	DCAA (Sr)	85			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	105			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 57.4	U, D	µg/kg dry	57.4	15.4	10	SW846 8081B	21-Dec-17	05-Jan-18	SM	1721116	X
319-85-7	beta-BHC	< 57.4	U, D	µg/kg dry	57.4	22.7	10	"	"	"	"	"	X
319-86-8	delta-BHC	< 57.4	U, D	µg/kg dry	57.4	16.5	10	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 34.4	U, D	µg/kg dry	34.4	16.5	10	"	"	"	"	"	X
76-44-8	Heptachlor	< 57.4	U, D	µg/kg dry	57.4	19.2	10	"	"	"	"	"	X
309-00-2	Aldrin	< 57.4	U, D	µg/kg dry	57.4	17.7	10	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 57.4	U, D	µg/kg dry	57.4	20.3	10	"	"	"	"	"	X
959-98-8	Endosulfan I	< 57.4	U, D	µg/kg dry	57.4	20.2	10	"	"	"	"	"	X
60-57-1	Dieldrin	< 57.4	U, D	µg/kg dry	57.4	20.2	10	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 57.4	U, D	µg/kg dry	57.4	18.1	10	"	"	"	"	"	X
72-20-8	Endrin	< 91.9	U, D	µg/kg dry	91.9	20.2	10	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 91.9	U, D	µg/kg dry	91.9	21.6	10	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 91.9	U, D	µg/kg dry	91.9	20.0	10	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 91.9	U, D	µg/kg dry	91.9	19.2	10	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 91.9	U, D	µg/kg dry	91.9	17.7	10	"	"	"	"	"	X
72-43-5	Methoxychlor	< 91.9	U, D	µg/kg dry	91.9	20.3	10	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 91.9	U, D	µg/kg dry	91.9	20.7	10	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 91.9	U, D	µg/kg dry	91.9	19.2	10	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 57.4	U, D	µg/kg dry	57.4	19.6	10	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 57.4	U, D	µg/kg dry	57.4	20.7	10	"	"	"	"	"	X
8001-35-2	Toxaphene	< 1150	U, D	µg/kg dry	1150	248	10	"	"	"	"	"	X
57-74-9	Chlordane	< 230	U, D	µg/kg dry	230	227	10	"	"	"	"	"	X
15972-60-8	Alachlor	< 57.4	U, D	µg/kg dry	57.4	28.1	10	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	78			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	130			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 153	U, D	mg/kg dry	153	102	5	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
68476-31-3	Fuel Oil #4	< 153	U, D	mg/kg dry	153	153	5	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 153	U, D	mg/kg dry	153	153	5	"	"	"	"	"	
M09800000	Motor Oil	< 153	U, D	mg/kg dry	153	153	5	"	"	"	"	"	
J00100000	Aviation Fuel	< 153	U, D	mg/kg dry	153	153	5	"	"	"	"	"	

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Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Unidentified	1,110	D	mg/kg dry	153	153	5	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
Other Oil	Calculated as		mg/kg dry	153	153	5	"	"	"	"	"	
Diesel Range Organics (DRO) C10-C28	1,110	D,DRO	mg/kg dry	153	102	5	"	"	"	"	"	X

Surrogate recoveries:

3386-33-2	1-Chlorooctadecane	81		40-140 %			"	"	"	"	"	

Total Metals by EPA 6000/7000 Series MethodsPrepared by method SW846 3050B

7440-22-4	Silver	< 1.73	U	mg/kg dry	1.73	0.187	1	SW846 6010C	28-Dec-17	10-Jan-18	SJR/T	1721203	X
7440-38-2	Arsenic	11.0		mg/kg dry	1.73	0.219	1	"	"	"	"	"	X
7440-39-3	Barium	57.0		mg/kg dry	1.15	0.136	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.691		mg/kg dry	0.577	0.0299	1	"	"	"	"	"	X
7440-47-3	Chromium	9.19		mg/kg dry	1.15	0.153	1	"	"	"	"	"	X
7439-97-6	Mercury	0.705	D	mg/kg dry	0.168	0.0466	5	SW846 7471B	03-Jan-18	05-Jan-18	ABW	1721204	X

Prepared by method SW846 3051A

7439-92-1	Lead	46.4		mg/kg dry	1.74	0.247	1	SW846 6010C	11-Jan-18	12-Jan-18	SJR/T	1800406	X

Prepared by method SW846 3050B

7782-49-2	Selenium	< 1.73	U	mg/kg dry	1.73	0.330	1	"	28-Dec-17	10-Jan-18	"	1721203	X

General Chemistry Parameters

% Solids	85.5		%				1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720896	

Toxicity Characteristics

Ignitability by Definition	Negative	IgHT	N/A				1	SW846 1030	19-Dec-17 10:54	19-Dec-17 12:05	BD	1720970	X

Reactivity Cyanide/Sulfide

Reactivity	See Narrative		mg/kg dry				1	SW846 Ch. 7.3	20-Dec-17	28-Dec-17	TN	1721061	
57-12-5	Reactive Cyanide	< 24.9	U	mg/kg dry	24.9	24.9	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 49.9	U	mg/kg dry	49.9	49.9	1	"	"	"	"	"	

Sample Identification

SS-FD

SC42525-17

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 09:50

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			BD	1720930	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
Initial weight: 4.44 g													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 7.60	U	µg/kg dry	7.60	3.85	1	SW846 8260C	22-Dec-17	22-Dec-17	MP	1721214	X
67-64-1	Acetone	< 76.0	U	µg/kg dry	76.0	30.4	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 7.60	U	µg/kg dry	7.60	7.30	1	"	"	"	"	"	X
71-43-2	Benzene	< 7.60	U	µg/kg dry	7.60	2.01	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 7.60	U	µg/kg dry	7.60	2.03	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 7.60	U	µg/kg dry	7.60	3.84	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 7.60	U	µg/kg dry	7.60	5.07	1	"	"	"	"	"	X
75-25-2	Bromoform	< 7.60	U	µg/kg dry	7.60	7.25	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 15.2	U	µg/kg dry	15.2	6.86	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 15.2	U	µg/kg dry	15.2	13.6	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 7.60	U	µg/kg dry	7.60	2.17	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 7.60	U	µg/kg dry	7.60	1.38	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 7.60	U	µg/kg dry	7.60	1.70	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 15.2	U	µg/kg dry	15.2	4.86	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 7.60	U	µg/kg dry	7.60	6.22	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 7.60	U	µg/kg dry	7.60	2.38	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 15.2	U	µg/kg dry	15.2	4.22	1	"	"	"	"	"	X
67-66-3	Chloroform	< 7.60	U	µg/kg dry	7.60	4.08	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 15.2	U	µg/kg dry	15.2	3.14	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 7.60	U	µg/kg dry	7.60	1.89	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 7.60	U	µg/kg dry	7.60	1.79	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 15.2	U	µg/kg dry	15.2	11.0	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 7.60	U	µg/kg dry	7.60	5.15	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 7.60	U	µg/kg dry	7.60	5.10	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 7.60	U	µg/kg dry	7.60	3.95	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 7.60	U	µg/kg dry	7.60	1.98	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 7.60	U	µg/kg dry	7.60	1.65	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 7.60	U	µg/kg dry	7.60	2.25	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 15.2	U	µg/kg dry	15.2	2.88	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 7.60	U	µg/kg dry	7.60	1.99	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 7.60	U	µg/kg dry	7.60	2.72	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 7.60	U	µg/kg dry	7.60	3.98	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 7.60	U	µg/kg dry	7.60	2.82	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 7.60	U	µg/kg dry	7.60	4.03	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 7.60	U	µg/kg dry	7.60	3.98	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 7.60	U	µg/kg dry	7.60	3.94	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 7.60	U	µg/kg dry	7.60	3.59	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 7.60	U	µg/kg dry	7.60	2.45	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 7.60	U	µg/kg dry	7.60	4.58	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 7.60	U	µg/kg dry	7.60	3.99	1	"	"	"	"	"	X

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SS-FD

SC42525-17

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0172.0210M010

Matrix

Soil

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Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 4.44 g

100-41-4	Ethylbenzene	< 7.60	U	µg/kg dry	7.60	1.09	1	SW846 8260C	22-Dec-17	22-Dec-17	MP	1721214	X
87-68-3	Hexachlorobutadiene	< 7.60	U	µg/kg dry	7.60	3.82	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 15.2	U	µg/kg dry	15.2	9.33	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 7.60	U	µg/kg dry	7.60	1.50	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 7.60	U	µg/kg dry	7.60	1.63	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 7.60	U	µg/kg dry	7.60	2.80	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 15.2	U	µg/kg dry	15.2	3.91	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 15.2	U	µg/kg dry	15.2	3.02	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 7.60	U	µg/kg dry	7.60	4.52	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 7.60	U	µg/kg dry	7.60	1.23	1	"	"	"	"	"	X
100-42-5	Styrene	< 7.60	U	µg/kg dry	7.60	1.53	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 7.60	U	µg/kg dry	7.60	6.46	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 7.60	U	µg/kg dry	7.60	6.43	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 7.60	U	µg/kg dry	7.60	2.60	1	"	"	"	"	"	X
108-88-3	Toluene	< 7.60	U	µg/kg dry	7.60	2.46	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 7.60	U	µg/kg dry	7.60	2.67	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 7.60	U	µg/kg dry	7.60	5.60	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 7.60	U	µg/kg dry	7.60	2.39	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 7.60	U	µg/kg dry	7.60	2.52	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 7.60	U	µg/kg dry	7.60	5.51	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 7.60	U	µg/kg dry	7.60	2.08	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 7.60	U	µg/kg dry	7.60	4.10	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 7.60	U	µg/kg dry	7.60	5.70	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 7.60	U	µg/kg dry	7.60	1.85	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 7.60	U	µg/kg dry	7.60	1.31	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 7.60	U	µg/kg dry	7.60	2.57	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 15.2	U	µg/kg dry	15.2	1.37	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 7.60	U	µg/kg dry	7.60	2.13	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 15.2	U	µg/kg dry	15.2	12.0	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 7.60	U	µg/kg dry	7.60	6.89	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 7.60	U	µg/kg dry	7.60	2.54	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 7.60	U	µg/kg dry	7.60	4.10	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 7.60	U	µg/kg dry	7.60	1.41	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 76.0	U	µg/kg dry	76.0	49.7	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 152	U	µg/kg dry	152	132	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 38.0	U	µg/kg dry	38.0	17.3	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1520	U	µg/kg dry	1520	284	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	94		70-130 %		"	"	"	"	"	"	"	
2037-26-5	Toluene-d8	99		70-130 %		"	"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	127		70-130 %		"	"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	108		70-130 %		"	"	"	"	"	"	"	

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Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 17.21 g

Gasoline Range Organics (C6-C10)	1.5	J, D, GRO	mg/kg dry	6.1	1.2	50	SW846 8015D	22-Dec-17	22-Dec-17	SD	1721219	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	106		70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MSPrepared by method SW846 5035A Soil (low level)Initial weight: 4.44 g

Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	22-Dec-17	22-Dec-17	MP	1721214	

Semivolatile Organic Compounds by GCMSSemivolatile Organic CompoundsPrepared by method SW846 3546

R01

83-32-9	Acenaphthene	< 1570	U, D	µg/kg dry	1570	780	20	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
208-96-8	Acenaphthylene	< 1570	U, D	µg/kg dry	1570	773	20	"	"	"	"	"	X
62-53-3	Aniline	< 7760	U, D	µg/kg dry	7760	557	20	"	"	"	"	"	X
120-12-7	Anthracene	< 1570	U, D	µg/kg dry	1570	750	20	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 7760	U, D	µg/kg dry	7760	763	20	"	"	"	"	"	
92-87-5	Benzidine	< 7760	U, D	µg/kg dry	7760	1560	20	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 1570	U, D	µg/kg dry	1570	827	20	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 1570	U, D	µg/kg dry	1570	584	20	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 1570	U, D	µg/kg dry	1570	759	20	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 1570	U, D	µg/kg dry	1570	630	20	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 1570	U, D	µg/kg dry	1570	613	20	"	"	"	"	"	X
65-85-0	Benzoic acid	< 7760	U, D	µg/kg dry	7760	1630	20	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 7760	U, D	µg/kg dry	7760	635	20	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 7760	U, D	µg/kg dry	7760	689	20	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 3930	U, D	µg/kg dry	3930	562	20	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 3930	U, D	µg/kg dry	3930	604	20	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 3930	U, D	µg/kg dry	3930	968	20	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 7760	U, D	µg/kg dry	7760	726	20	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 7760	U, D	µg/kg dry	7760	905	20	"	"	"	"	"	X
86-74-8	Carbazole	< 3930	U, D	µg/kg dry	3930	2190	20	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 7760	U, D	µg/kg dry	7760	740	20	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 3930	U, D	µg/kg dry	3930	848	20	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 7760	U, D	µg/kg dry	7760	717	20	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 3930	U, D	µg/kg dry	3930	698	20	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 7760	U, D	µg/kg dry	7760	921	20	"	"	"	"	"	X
218-01-9	Chrysene	< 1570	U, D	µg/kg dry	1570	783	20	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 1570	U, D	µg/kg dry	1570	602	20	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 3930	U, D	µg/kg dry	3930	597	20	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 7760	U, D	µg/kg dry	7760	677	20	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 7760	U, D	µg/kg dry	7760	677	20	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 7760	U, D	µg/kg dry	7760	719	20	"	"	"	"	"	X

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Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
			R01										
91-94-1	3,3'-Dichlorobenzidine	< 7760	U, D	µg/kg dry	7760	1180	20	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
120-83-2	2,4-Dichlorophenol	< 3930	U, D	µg/kg dry	3930	734	20	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 7760	U, D	µg/kg dry	7760	959	20	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 7760	U, D	µg/kg dry	7760	848	20	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 7760	U, D	µg/kg dry	7760	555	20	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 7760	U, D	µg/kg dry	7760	823	20	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 7760	U, D	µg/kg dry	7760	996	20	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 7760	U, D	µg/kg dry	7760	790	20	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 3930	U, D	µg/kg dry	3930	1520	20	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 3930	U, D	µg/kg dry	3930	884	20	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 7760	U, D	µg/kg dry	7760	876	20	"	"	"	"	"	X
206-44-0	Fluoranthene	< 1570	U, D	µg/kg dry	1570	828	20	"	"	"	"	"	X
86-73-7	Fluorene	< 1570	U, D	µg/kg dry	1570	797	20	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 3930	U, D	µg/kg dry	3930	773	20	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 3930	U, D	µg/kg dry	3930	938	20	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 3930	U, D	µg/kg dry	3930	534	20	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 3930	U, D	µg/kg dry	3930	846	20	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 1570	U, D	µg/kg dry	1570	564	20	"	"	"	"	"	X
78-59-1	Isophorone	< 3930	U, D	µg/kg dry	3930	736	20	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 1570	U, D	µg/kg dry	1570	947	20	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 7760	U, D	µg/kg dry	7760	659	20	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 7760	U, D	µg/kg dry	7760	750	20	"	"	"	"	"	X
91-20-3	Naphthalene	< 1570	U, D	µg/kg dry	1570	731	20	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 7760	U, D	µg/kg dry	7760	658	20	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 7760	U, D	µg/kg dry	7760	1060	20	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 3930	U, D	µg/kg dry	3930	1210	20	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 3930	U, D	µg/kg dry	3930	715	20	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 3930	U, D	µg/kg dry	3930	651	20	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 31000	U, D	µg/kg dry	31000	1250	20	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 3930	U, D	µg/kg dry	3930	729	20	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 3930	U, D	µg/kg dry	3930	764	20	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 7760	U, D	µg/kg dry	7760	841	20	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 7760	U, D	µg/kg dry	7760	829	20	"	"	"	"	"	X
85-01-8	Phenanthrene	< 1570	U, D	µg/kg dry	1570	730	20	"	"	"	"	"	X
108-95-2	Phenol	< 7760	U, D	µg/kg dry	7760	510	20	"	"	"	"	"	X
129-00-0	Pyrene	< 1570	U, D	µg/kg dry	1570	874	20	"	"	"	"	"	X
110-86-1	Pyridine	< 7760	U, D	µg/kg dry	7760	1160	20	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 7760	U, D	µg/kg dry	7760	769	20	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1570	U, D	µg/kg dry	1570	771	20	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 7760	U, D	µg/kg dry	7760	698	20	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 3930	U, D	µg/kg dry	3930	700	20	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 7760	U, D	µg/kg dry	7760	1220	20	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 7760	U, D	µg/kg dry	7760	752	20	"	"	"	"	"	X

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Sample Identification

SS-FD

SC42525-17

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 09:50

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	82			30-130 %			SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	
367-12-4	2-Fluorophenol	57			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	71			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	61			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	90			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	74			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

R01

Tentatively Identified Compounds	0.0	U, D	µg/kg dry				20	SW846 8270D TICS	"	"	MSL	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 11.7	U	µg/kg dry	11.7	5.25	1	SW846 8082A	21-Dec-17	28-Dec-17	AM	1721117	X
11104-28-2	Aroclor-1221	< 11.7	U	µg/kg dry	11.7	6.23	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 11.7	U	µg/kg dry	11.7	5.87	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 11.7	U	µg/kg dry	11.7	11.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 11.7	U	µg/kg dry	11.7	10.7	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 11.7	U	µg/kg dry	11.7	7.66	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 11.7	U	µg/kg dry	11.7	6.28	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 11.7	U	µg/kg dry	11.7	10.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 11.7	U	µg/kg dry	11.7	5.29	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	60			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3546Methylation date: 22-Dec-17

93-76-5	2,4,5-T	< 7.84	U	µg/kg dry	7.84	4.27	1	SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	X
93-72-1	2,4,5-TP (Silvex)	< 7.84	U	µg/kg dry	7.84	3.22	1	"	"	"	"	"	X
94-75-7	2,4-D [2C]	7.80	J	µg/kg dry	7.84	3.10	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 7.84	U	µg/kg dry	7.84	5.92	1	"	"	"	"	"	X
75-99-0	Dalapon	< 7.84	U	µg/kg dry	7.84	3.13	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 7.84	U	µg/kg dry	7.84	3.19	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 7.84	U	µg/kg dry	7.84	5.73	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 7.84	U	µg/kg dry	7.84	3.18	1	"	"	"	"	"	X
94-74-6	MCPA	< 2630	U	µg/kg dry	2630	1170	1	"	"	"	"	"	X
94-81-5	MCPB	< 2630	U	µg/kg dry	2630	1170	1	"	"	"	"	"	
93-65-2	MCPB	< 2630	U	µg/kg dry	2630	1170	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	75			30-150 %			"	"	"	"	"	

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Matrix

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HerbicidesChlorinated HerbicidesMethylation date: 22-Dec-17

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	70			30-150 %			SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	
2552-89-8	DCAA (Sr)	85			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	75			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 58.6	U, D	µg/kg dry	58.6	15.7	10	SW846 8081B	21-Dec-17	05-Jan-18	SM	1721116	X
319-85-7	beta-BHC	< 58.6	U, D	µg/kg dry	58.6	23.2	10	"	"	"	"	"	X
319-86-8	delta-BHC	< 58.6	U, D	µg/kg dry	58.6	16.9	10	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 35.2	U, D	µg/kg dry	35.2	16.9	10	"	"	"	"	"	X
76-44-8	Heptachlor	< 58.6	U, D	µg/kg dry	58.6	19.6	10	"	"	"	"	"	X
309-00-2	Aldrin	< 58.6	U, D	µg/kg dry	58.6	18.0	10	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 58.6	U, D	µg/kg dry	58.6	20.7	10	"	"	"	"	"	X
959-98-8	Endosulfan I	< 58.6	U, D	µg/kg dry	58.6	20.6	10	"	"	"	"	"	X
60-57-1	Dieldrin	< 58.6	U, D	µg/kg dry	58.6	20.6	10	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 58.6	U, D	µg/kg dry	58.6	18.5	10	"	"	"	"	"	X
72-20-8	Endrin	< 93.8	U, D	µg/kg dry	93.8	20.6	10	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 93.8	U, D	µg/kg dry	93.8	22.0	10	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 93.8	U, D	µg/kg dry	93.8	20.4	10	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 93.8	U, D	µg/kg dry	93.8	19.6	10	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 93.8	U, D	µg/kg dry	93.8	18.0	10	"	"	"	"	"	X
72-43-5	Methoxychlor	< 93.8	U, D	µg/kg dry	93.8	20.7	10	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 93.8	U, D	µg/kg dry	93.8	21.1	10	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 93.8	U, D	µg/kg dry	93.8	19.6	10	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 58.6	U, D	µg/kg dry	58.6	20.0	10	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 58.6	U, D	µg/kg dry	58.6	21.1	10	"	"	"	"	"	X
8001-35-2	Toxaphene	< 1170	U, D	µg/kg dry	1170	253	10	"	"	"	"	"	X
57-74-9	Chlordane	< 234	U, D	µg/kg dry	234	232	10	"	"	"	"	"	X
15972-60-8	Alachlor	< 58.6	U, D	µg/kg dry	58.6	28.7	10	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	83			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	88			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	132			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	148			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 155	U, D	mg/kg dry	155	103	5	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
68476-31-3	Fuel Oil #4	< 155	U, D	mg/kg dry	155	155	5	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 155	U, D	mg/kg dry	155	155	5	"	"	"	"	"	
M09800000	Motor Oil	< 155	U, D	mg/kg dry	155	155	5	"	"	"	"	"	
J00100000	Aviation Fuel	< 155	U, D	mg/kg dry	155	155	5	"	"	"	"	"	

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Sample Identification

SS-FD

SC42525-17

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 09:50

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons													
Diesel Range Organics				R01									
	Unidentified	1,130	D	mg/kg dry	155	155	5	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
	Other Oil	Calculated as		mg/kg dry	155	155	5	"	"	"	"	"	
	Diesel Range Organics (DRO) C10-C28	1,130	D,DRO	mg/kg dry	155	103	5	"	"	"	"	"	X
Surrogate recoveries:													
3386-33-2	1-Chlorooctadecane	83			40-140 %			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-22-4	Silver	< 1.77	U	mg/kg dry	1.77	0.191	1	SW846 6010C	28-Dec-17	10-Jan-18	SJR/T	1721203	X
7440-38-2	Arsenic	12.4		mg/kg dry	1.77	0.224	1	"	"	"	"	"	X
7440-39-3	Barium	66.3		mg/kg dry	1.18	0.139	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.873		mg/kg dry	0.590	0.0306	1	"	"	"	"	"	X
7440-47-3	Chromium	10.9		mg/kg dry	1.18	0.157	1	"	"	"	"	"	X
7439-97-6	Mercury	0.577	D	mg/kg dry	0.171	0.0474	5	SW846 7471B	03-Jan-18	05-Jan-18	ABW	1721204	X
Prepared by method SW846 3051A													
7439-92-1	Lead	44.3		mg/kg dry	1.76	0.249	1	SW846 6010C	11-Jan-18	12-Jan-18	SJR/T	1800406	X
Prepared by method SW846 3050B													
7782-49-2	Selenium	< 1.77	U	mg/kg dry	1.77	0.337	1	"	28-Dec-17	10-Jan-18	"	1721203	X
General Chemistry Parameters													
	% Solids	84.4		%			1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720896	
Toxicity Characteristics													
	Ignitability by Definition	Negative	IgHT	N/A			1	SW846 1030	19-Dec-17 10:54	19-Dec-17 12:05	BD	1720970	X
Reactivity Cyanide/Sulfide													
	Reactivity	See Narrative		mg/kg dry			1	SW846 Ch. 7.3	20-Dec-17	28-Dec-17	TN	1721061	
57-12-5	Reactive Cyanide	< 24.3	U	mg/kg dry	24.3	24.3	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 48.7	U	mg/kg dry	48.7	48.7	1	"	"	"	"	"	

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Sample Identification

SS-016

SC42525-18

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 10:15

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			BD	1720930	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)													
								Initial weight: 5.74 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.41	U	µg/kg dry	5.41	2.74	1	SW846 8260C	22-Dec-17	22-Dec-17	MP	1721214	X
67-64-1	Acetone	< 5.41	U	µg/kg dry	5.41	21.6	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.41	U	µg/kg dry	5.41	5.20	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.41	U	µg/kg dry	5.41	1.43	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.41	U	µg/kg dry	5.41	1.44	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.41	U	µg/kg dry	5.41	2.73	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.41	U	µg/kg dry	5.41	3.61	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.41	U	µg/kg dry	5.41	5.16	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 10.8	U	µg/kg dry	10.8	4.88	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 10.8	U	µg/kg dry	10.8	9.67	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.41	U	µg/kg dry	5.41	1.55	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.41	U	µg/kg dry	5.41	0.98	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.41	U	µg/kg dry	5.41	1.21	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 10.8	U	µg/kg dry	10.8	3.46	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.41	U	µg/kg dry	5.41	4.42	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.41	U	µg/kg dry	5.41	1.69	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 10.8	U	µg/kg dry	10.8	3.00	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.41	U	µg/kg dry	5.41	2.90	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 10.8	U	µg/kg dry	10.8	2.23	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.41	U	µg/kg dry	5.41	1.35	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.41	U	µg/kg dry	5.41	1.27	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 10.8	U	µg/kg dry	10.8	7.81	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.41	U	µg/kg dry	5.41	3.67	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.41	U	µg/kg dry	5.41	3.63	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.41	U	µg/kg dry	5.41	2.81	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.41	U	µg/kg dry	5.41	1.41	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.41	U	µg/kg dry	5.41	1.17	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.41	U	µg/kg dry	5.41	1.60	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 10.8	U	µg/kg dry	10.8	2.05	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.41	U	µg/kg dry	5.41	1.42	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.41	U	µg/kg dry	5.41	1.94	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.41	U	µg/kg dry	5.41	2.83	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.41	U	µg/kg dry	5.41	2.01	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.41	U	µg/kg dry	5.41	2.87	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.41	U	µg/kg dry	5.41	2.83	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.41	U	µg/kg dry	5.41	2.80	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.41	U	µg/kg dry	5.41	2.55	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.41	U	µg/kg dry	5.41	1.74	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.41	U	µg/kg dry	5.41	3.26	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.41	U	µg/kg dry	5.41	2.84	1	"	"	"	"	"	X

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Sample Identification

SS-016

SC42525-18

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 10:15

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Volatile Organic Compounds													
<u>Volatile Organic Compounds by SW846 8260</u>													
Initial weight: 5.74 g													
100-41-4	Ethylbenzene	< 5.41	U	µg/kg dry	5.41	0.78	1	SW846 8260C	22-Dec-17	22-Dec-17	MP	1721214	X
87-68-3	Hexachlorobutadiene	< 5.41	U	µg/kg dry	5.41	2.71	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 10.8	U	µg/kg dry	10.8	6.63	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.41	U	µg/kg dry	5.41	1.07	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 5.41	U	µg/kg dry	5.41	1.16	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.41	U	µg/kg dry	5.41	1.99	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 10.8	U	µg/kg dry	10.8	2.78	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 10.8	U	µg/kg dry	10.8	2.15	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.41	U	µg/kg dry	5.41	3.22	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.41	U	µg/kg dry	5.41	0.88	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.41	U	µg/kg dry	5.41	1.09	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.41	U	µg/kg dry	5.41	4.60	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.41	U	µg/kg dry	5.41	4.57	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.41	U	µg/kg dry	5.41	1.85	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.41	U	µg/kg dry	5.41	1.75	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.41	U	µg/kg dry	5.41	1.90	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.41	U	µg/kg dry	5.41	3.98	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.41	U	µg/kg dry	5.41	1.70	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 5.41	U	µg/kg dry	5.41	1.80	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.41	U	µg/kg dry	5.41	3.92	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.41	U	µg/kg dry	5.41	1.48	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.41	U	µg/kg dry	5.41	2.91	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.41	U	µg/kg dry	5.41	4.06	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.41	U	µg/kg dry	5.41	1.31	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.41	U	µg/kg dry	5.41	0.93	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.41	U	µg/kg dry	5.41	1.83	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 10.8	U	µg/kg dry	10.8	0.97	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.41	U	µg/kg dry	5.41	1.51	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 10.8	U	µg/kg dry	10.8	8.52	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 5.41	U	µg/kg dry	5.41	4.90	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.41	U	µg/kg dry	5.41	1.81	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 5.41	U	µg/kg dry	5.41	2.91	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 5.41	U	µg/kg dry	5.41	1.01	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 54.1	U	µg/kg dry	54.1	35.4	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 108	U	µg/kg dry	108	93.9	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 27.0	U	µg/kg dry	27.0	12.3	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1080	U	µg/kg dry	1080	202	1	"	"	"	"	"	X
<u>Surrogate recoveries:</u>													
460-00-4	4-Bromofluorobenzene	95			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	98			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	128			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	111			70-130 %			"	"	"	"	"	

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Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 16.5 g

Gasoline Range Organics (C6-C10)	2.3	J, D, GRO	mg/kg dry	5.6	1.1	50	SW846 8015D	22-Dec-17	22-Dec-17	SD	1721219	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	97		70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MSPrepared by method SW846 5035A Soil (low level)Initial weight: 5.74 g

Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	22-Dec-17	22-Dec-17	MP	1721214	

Semivolatile Organic Compounds by GCMSSemivolatile Organic CompoundsPrepared by method SW846 3546

R01

83-32-9	Acenaphthene	< 738	U, D	µg/kg dry	738	367	10	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
208-96-8	Acenaphthylene	< 738	U, D	µg/kg dry	738	364	10	"	"	"	"	"	X
62-53-3	Aniline	< 3650	U, D	µg/kg dry	3650	262	10	"	"	"	"	"	X
120-12-7	Anthracene	< 738	U, D	µg/kg dry	738	353	10	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 3650	U, D	µg/kg dry	3650	359	10	"	"	"	"	"	
92-87-5	Benzidine	< 3650	U, D	µg/kg dry	3650	735	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 738	U, D	µg/kg dry	738	389	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 738	U, D	µg/kg dry	738	275	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 738	U, D	µg/kg dry	738	357	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 738	U, D	µg/kg dry	738	296	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 738	U, D	µg/kg dry	738	289	10	"	"	"	"	"	X
65-85-0	Benzoic acid	< 3650	U, D	µg/kg dry	3650	767	10	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 3650	U, D	µg/kg dry	3650	299	10	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 3650	U, D	µg/kg dry	3650	324	10	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	2,550	D	µg/kg dry	1850	265	10	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 1850	U, D	µg/kg dry	1850	284	10	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 1850	U, D	µg/kg dry	1850	456	10	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 3650	U, D	µg/kg dry	3650	342	10	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 3650	U, D	µg/kg dry	3650	426	10	"	"	"	"	"	X
86-74-8	Carbazole	< 1850	U, D	µg/kg dry	1850	1030	10	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 3650	U, D	µg/kg dry	3650	348	10	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 1850	U, D	µg/kg dry	1850	399	10	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 3650	U, D	µg/kg dry	3650	337	10	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 1850	U, D	µg/kg dry	1850	329	10	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 3650	U, D	µg/kg dry	3650	434	10	"	"	"	"	"	X
218-01-9	Chrysene	< 738	U, D	µg/kg dry	738	368	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 738	U, D	µg/kg dry	738	283	10	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 1850	U, D	µg/kg dry	1850	281	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 3650	U, D	µg/kg dry	3650	319	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3650	U, D	µg/kg dry	3650	319	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3650	U, D	µg/kg dry	3650	339	10	"	"	"	"	"	X

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Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
			R01										
91-94-1	3,3'-Dichlorobenzidine	< 3650	U, D	µg/kg dry	3650	555	10	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
120-83-2	2,4-Dichlorophenol	< 1850	U, D	µg/kg dry	1850	345	10	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 3650	U, D	µg/kg dry	3650	451	10	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 3650	U, D	µg/kg dry	3650	399	10	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 3650	U, D	µg/kg dry	3650	261	10	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 3650	U, D	µg/kg dry	3650	387	10	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 3650	U, D	µg/kg dry	3650	469	10	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 3650	U, D	µg/kg dry	3650	372	10	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 1850	U, D	µg/kg dry	1850	715	10	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 1850	U, D	µg/kg dry	1850	416	10	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 3650	U, D	µg/kg dry	3650	413	10	"	"	"	"	"	X
206-44-0	Fluoranthene	< 738	U, D	µg/kg dry	738	390	10	"	"	"	"	"	X
86-73-7	Fluorene	< 738	U, D	µg/kg dry	738	375	10	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 1850	U, D	µg/kg dry	1850	364	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 1850	U, D	µg/kg dry	1850	441	10	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 1850	U, D	µg/kg dry	1850	251	10	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 1850	U, D	µg/kg dry	1850	398	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 738	U, D	µg/kg dry	738	265	10	"	"	"	"	"	X
78-59-1	Isophorone	< 1850	U, D	µg/kg dry	1850	346	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 738	U, D	µg/kg dry	738	446	10	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 3650	U, D	µg/kg dry	3650	310	10	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 3650	U, D	µg/kg dry	3650	353	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 738	U, D	µg/kg dry	738	344	10	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 3650	U, D	µg/kg dry	3650	310	10	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 3650	U, D	µg/kg dry	3650	499	10	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 1850	U, D	µg/kg dry	1850	569	10	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 1850	U, D	µg/kg dry	1850	336	10	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 1850	U, D	µg/kg dry	1850	306	10	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 14600	U, D	µg/kg dry	14600	590	10	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 1850	U, D	µg/kg dry	1850	343	10	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 1850	U, D	µg/kg dry	1850	360	10	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 3650	U, D	µg/kg dry	3650	396	10	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 3650	U, D	µg/kg dry	3650	390	10	"	"	"	"	"	X
85-01-8	Phenanthrene	< 738	U, D	µg/kg dry	738	343	10	"	"	"	"	"	X
108-95-2	Phenol	< 3650	U, D	µg/kg dry	3650	240	10	"	"	"	"	"	X
129-00-0	Pyrene	< 738	U, D	µg/kg dry	738	412	10	"	"	"	"	"	X
110-86-1	Pyridine	< 3650	U, D	µg/kg dry	3650	544	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3650	U, D	µg/kg dry	3650	362	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 738	U, D	µg/kg dry	738	363	10	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 3650	U, D	µg/kg dry	3650	329	10	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 1850	U, D	µg/kg dry	1850	330	10	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 3650	U, D	µg/kg dry	3650	576	10	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 3650	U, D	µg/kg dry	3650	354	10	"	"	"	"	"	X

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Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	76			30-130 %			SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	
367-12-4	2-Fluorophenol	58			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	64			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	58			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	84			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	57			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

R01

Tentatively Identified Compounds	0.0	U, D	µg/kg dry				10	SW846 8270D TICS	"	"	MSL	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 10.9	U	µg/kg dry	10.9	4.90	1	SW846 8082A	21-Dec-17	28-Dec-17	AM	1721117	X
11104-28-2	Aroclor-1221	< 10.9	U	µg/kg dry	10.9	5.82	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 10.9	U	µg/kg dry	10.9	5.47	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 10.9	U	µg/kg dry	10.9	10.8	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 10.9	U	µg/kg dry	10.9	9.99	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 10.9	U	µg/kg dry	10.9	7.15	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 10.9	U	µg/kg dry	10.9	5.86	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 10.9	U	µg/kg dry	10.9	9.54	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 10.9	U	µg/kg dry	10.9	4.93	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	55			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	55			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3546Methylation date: 22-Dec-17

93-76-5	2,4,5-T	< 7.30	U	µg/kg dry	7.30	3.98	1	SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	X
93-72-1	2,4,5-TP (Silvex)	< 7.30	U	µg/kg dry	7.30	3.00	1	"	"	"	"	"	X
94-75-7	2,4-D [2C]	15.3		µg/kg dry	7.30	2.89	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 7.30	U	µg/kg dry	7.30	5.52	1	"	"	"	"	"	X
75-99-0	Dalapon	< 7.30	U	µg/kg dry	7.30	2.92	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 7.30	U	µg/kg dry	7.30	2.98	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 7.30	U	µg/kg dry	7.30	5.34	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 7.30	U	µg/kg dry	7.30	2.96	1	"	"	"	"	"	X
94-74-6	MCPA	< 2450	U	µg/kg dry	2450	1090	1	"	"	"	"	"	X
94-81-5	MCPB	< 2450	U	µg/kg dry	2450	1090	1	"	"	"	"	"	
93-65-2	MCPB	< 2450	U	µg/kg dry	2450	1090	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	105			30-150 %			"	"	"	"	"	

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Sample Identification

SS-016

SC42525-18

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 10:15

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

HerbicidesChlorinated HerbicidesMethylation date: 22-Dec-17

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150 %			SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	
2552-89-8	DCAA (Sr)	70			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	80			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 54.7	U, D	µg/kg dry	54.7	14.7	10	SW846 8081B	21-Dec-17	05-Jan-18	SM	1721116	X
319-85-7	beta-BHC	< 54.7	U, D	µg/kg dry	54.7	21.7	10	"	"	"	"	"	X
319-86-8	delta-BHC	< 54.7	U, D	µg/kg dry	54.7	15.8	10	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 32.8	U, D	µg/kg dry	32.8	15.8	10	"	"	"	"	"	X
76-44-8	Heptachlor	< 54.7	U, D	µg/kg dry	54.7	18.3	10	"	"	"	"	"	X
309-00-2	Aldrin	< 54.7	U, D	µg/kg dry	54.7	16.8	10	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 54.7	U, D	µg/kg dry	54.7	19.4	10	"	"	"	"	"	X
959-98-8	Endosulfan I	< 54.7	U, D	µg/kg dry	54.7	19.3	10	"	"	"	"	"	X
60-57-1	Dieldrin	< 54.7	U, D	µg/kg dry	54.7	19.3	10	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 54.7	U, D	µg/kg dry	54.7	17.3	10	"	"	"	"	"	X
72-20-8	Endrin	< 87.5	U, D	µg/kg dry	87.5	19.3	10	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 87.5	U, D	µg/kg dry	87.5	20.6	10	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 87.5	U, D	µg/kg dry	87.5	19.0	10	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 87.5	U, D	µg/kg dry	87.5	18.3	10	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 87.5	U, D	µg/kg dry	87.5	16.8	10	"	"	"	"	"	X
72-43-5	Methoxychlor	< 87.5	U, D	µg/kg dry	87.5	19.4	10	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 87.5	U, D	µg/kg dry	87.5	19.7	10	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 87.5	U, D	µg/kg dry	87.5	18.3	10	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 54.7	U, D	µg/kg dry	54.7	18.7	10	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 54.7	U, D	µg/kg dry	54.7	19.7	10	"	"	"	"	"	X
8001-35-2	Toxaphene	< 1090	U, D	µg/kg dry	1090	237	10	"	"	"	"	"	X
57-74-9	Chlordane	< 219	U, D	µg/kg dry	219	216	10	"	"	"	"	"	X
15972-60-8	Alachlor	< 54.7	U, D	µg/kg dry	54.7	26.8	10	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	85			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	88			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	110			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	129			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 58.3	U, D	mg/kg dry	58.3	38.8	2	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
68476-31-3	Fuel Oil #4	< 58.3	U, D	mg/kg dry	58.3	58.3	2	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 58.3	U, D	mg/kg dry	58.3	58.3	2	"	"	"	"	"	
M09800000	Motor Oil	< 58.3	U, D	mg/kg dry	58.3	58.3	2	"	"	"	"	"	
J00100000	Aviation Fuel	< 58.3	U, D	mg/kg dry	58.3	58.3	2	"	"	"	"	"	

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Sample Identification

SS-016

SC42525-18

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 10:15

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons													
Diesel Range Organics				R01									
	Unidentified	610	D	mg/kg dry	58.3	58.3	2	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
	Other Oil	Calculated as		mg/kg dry	58.3	58.3	2	"	"	"	"	"	
	Diesel Range Organics (DRO) C10-C28	610	D,DRO	mg/kg dry	58.3	38.8	2	"	"	"	"	"	X
Surrogate recoveries:													
3386-33-2	1-Chlorooctadecane	88			40-140 %			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
<u>Prepared by method SW846 3050B</u>													
7440-22-4	Silver	< 1.65	U	mg/kg dry	1.65	0.178	1	SW846 6010C	28-Dec-17	10-Jan-18	SJR/T	1721203	X
7440-38-2	Arsenic	13.6		mg/kg dry	1.65	0.209	1	"	"	"	"	"	X
7440-39-3	Barium	70.6		mg/kg dry	1.10	0.130	1	"	"	"	"	"	X
7440-43-9	Cadmium	1.17		mg/kg dry	0.549	0.0284	1	"	"	"	"	"	X
7440-47-3	Chromium	13.1		mg/kg dry	1.10	0.146	1	"	"	"	"	"	X
7439-97-6	Mercury	1.00	D	mg/kg dry	0.152	0.0421	5	SW846 7471B	03-Jan-18	05-Jan-18	ABW	1721204	X
<u>Prepared by method SW846 3051A</u>													
7439-92-1	Lead	52.0		mg/kg dry	1.67	0.235	1	SW846 6010C	11-Jan-18	12-Jan-18	SJR/T	1800406	X
<u>Prepared by method SW846 3050B</u>													
7782-49-2	Selenium	< 1.65	U	mg/kg dry	1.65	0.314	1	"	28-Dec-17	10-Jan-18	"	1721203	X
General Chemistry Parameters													
	% Solids	89.9		%			1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720896	
Toxicity Characteristics													
	Ignitability by Definition	Negative	IgHT	N/A			1	SW846 1030	19-Dec-17 10:54	19-Dec-17 12:05	BD	1720970	X
Reactivity Cyanide/Sulfide													
	Reactivity	See Narrative		mg/kg dry			1	SW846 Ch. 7.3	20-Dec-17	28-Dec-17	TN	1721061	
57-12-5	Reactive Cyanide	< 24.6	U	mg/kg dry	24.6	24.6	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 49.2	U	mg/kg dry	49.2	49.2	1	"	"	"	"	"	

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Sample Identification

SS-017

SC42525-19

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 10:40

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			BD	1720930	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
								Initial weight: 7.83 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 3.91	U	µg/kg dry	3.91	1.98	1	SW846 8260C	27-Dec-17	27-Dec-17	MP	1721296	X
67-64-1	Acetone	< 39.1	U	µg/kg dry	39.1	15.7	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 3.91	U	µg/kg dry	3.91	3.76	1	"	"	"	"	"	X
71-43-2	Benzene	< 3.91	U	µg/kg dry	3.91	1.04	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 3.91	U	µg/kg dry	3.91	1.04	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 3.91	U	µg/kg dry	3.91	1.98	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 3.91	U	µg/kg dry	3.91	2.61	1	"	"	"	"	"	X
75-25-2	Bromoform	< 3.91	U	µg/kg dry	3.91	3.73	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 7.83	U	µg/kg dry	7.83	3.53	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 7.83	U	µg/kg dry	7.83	7.00	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 3.91	U	µg/kg dry	3.91	1.12	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 3.91	U	µg/kg dry	3.91	0.71	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 3.91	U	µg/kg dry	3.91	0.88	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 7.83	U	µg/kg dry	7.83	2.50	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 3.91	U	µg/kg dry	3.91	3.20	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 3.91	U	µg/kg dry	3.91	1.22	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 7.83	U	µg/kg dry	7.83	2.17	1	"	"	"	"	"	X
67-66-3	Chloroform	< 3.91	U	µg/kg dry	3.91	2.10	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 7.83	U	µg/kg dry	7.83	1.62	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 3.91	U	µg/kg dry	3.91	0.97	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 3.91	U	µg/kg dry	3.91	0.92	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 7.83	U	µg/kg dry	7.83	5.66	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 3.91	U	µg/kg dry	3.91	2.65	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 3.91	U	µg/kg dry	3.91	2.63	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 3.91	U	µg/kg dry	3.91	2.04	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 3.91	U	µg/kg dry	3.91	1.02	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3.91	U	µg/kg dry	3.91	0.85	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3.91	U	µg/kg dry	3.91	1.16	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 7.83	U	µg/kg dry	7.83	1.48	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 3.91	U	µg/kg dry	3.91	1.03	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 3.91	U	µg/kg dry	3.91	1.40	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 3.91	U	µg/kg dry	3.91	2.05	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 3.91	U	µg/kg dry	3.91	1.45	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 3.91	U	µg/kg dry	3.91	2.07	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 3.91	U	µg/kg dry	3.91	2.05	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 3.91	U	µg/kg dry	3.91	2.03	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 3.91	U	µg/kg dry	3.91	1.85	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 3.91	U	µg/kg dry	3.91	1.26	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 3.91	U	µg/kg dry	3.91	2.36	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 3.91	U	µg/kg dry	3.91	2.05	1	"	"	"	"	"	X

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Sample Identification

SS-017

SC42525-19

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 10:40

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 7.83 g

100-41-4	Ethylbenzene	< 3.91	U	µg/kg dry	3.91	0.56	1	SW846 8260C	27-Dec-17	27-Dec-17	MP	1721296	X
87-68-3	Hexachlorobutadiene	< 3.91	U	µg/kg dry	3.91	1.96	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 7.83	U	µg/kg dry	7.83	4.80	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 3.91	U	µg/kg dry	3.91	0.77	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 3.91	U	µg/kg dry	3.91	0.84	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 3.91	U	µg/kg dry	3.91	1.44	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 7.83	U	µg/kg dry	7.83	2.01	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 7.83	U	µg/kg dry	7.83	1.55	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 3.91	U	µg/kg dry	3.91	2.33	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 3.91	U	µg/kg dry	3.91	0.63	1	"	"	"	"	"	X
100-42-5	Styrene	< 3.91	U	µg/kg dry	3.91	0.79	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 3.91	U	µg/kg dry	3.91	3.33	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 3.91	U	µg/kg dry	3.91	3.31	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 3.91	U	µg/kg dry	3.91	1.34	1	"	"	"	"	"	X
108-88-3	Toluene	< 3.91	U	µg/kg dry	3.91	1.27	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 3.91	U	µg/kg dry	3.91	1.37	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3.91	U	µg/kg dry	3.91	2.88	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 3.91	U	µg/kg dry	3.91	1.23	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 3.91	U	µg/kg dry	3.91	1.30	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 3.91	U	µg/kg dry	3.91	2.84	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 3.91	U	µg/kg dry	3.91	1.07	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 3.91	U	µg/kg dry	3.91	2.11	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 3.91	U	µg/kg dry	3.91	2.94	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 3.91	U	µg/kg dry	3.91	0.95	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 3.91	U	µg/kg dry	3.91	0.67	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 3.91	U	µg/kg dry	3.91	1.32	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 7.83	U	µg/kg dry	7.83	0.70	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 3.91	U	µg/kg dry	3.91	1.10	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 7.83	U	µg/kg dry	7.83	6.17	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 3.91	U	µg/kg dry	3.91	3.55	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 3.91	U	µg/kg dry	3.91	1.31	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 3.91	U	µg/kg dry	3.91	2.11	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 3.91	U	µg/kg dry	3.91	0.73	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 39.1	U	µg/kg dry	39.1	25.6	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 78.3	U	µg/kg dry	78.3	68.0	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 19.6	U	µg/kg dry	19.6	8.93	1	"	"	"	"	"	X
64-17-5	Ethanol	< 783	U	µg/kg dry	783	146	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	97			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	125			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	107			70-130 %		"	"	"	"	"	"	

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Sample Identification

SS-017

SC42525-19

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 10:40

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 19 g

Gasoline Range Organics (C6-C10)	1.1	J, D, GRO	mg/kg dry	4.7	1.0	50	SW846 8015D	22-Dec-17	22-Dec-17	SD	1721219

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	102		70-130 %			"	"	"	"	"

Tentatively Identified Compounds by GC/MSPrepared by method SW846 5035A Soil (low level)Initial weight: 7.83 g

Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	27-Dec-17	27-Dec-17	MP	1721296

Semivolatile Organic Compounds by GCMSSemivolatile Organic CompoundsPrepared by method SW846 3546

R01

83-32-9	Acenaphthene	< 144	U, D	µg/kg dry	144	71.7	2	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
208-96-8	Acenaphthylene	< 144	U, D	µg/kg dry	144	71.1	2	"	"	"	"	"	X
62-53-3	Aniline	< 713	U, D	µg/kg dry	713	51.2	2	"	"	"	"	"	X
120-12-7	Anthracene	< 144	U, D	µg/kg dry	144	68.9	2	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 713	U, D	µg/kg dry	713	70.1	2	"	"	"	"	"	
92-87-5	Benzidine	< 713	U, D	µg/kg dry	713	143	2	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 144	U, D	µg/kg dry	144	76.0	2	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 144	U, D	µg/kg dry	144	53.6	2	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 144	U, D	µg/kg dry	144	69.8	2	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 144	U, D	µg/kg dry	144	57.9	2	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 144	U, D	µg/kg dry	144	56.4	2	"	"	"	"	"	X
65-85-0	Benzoic acid	< 713	U, D	µg/kg dry	713	150	2	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 713	U, D	µg/kg dry	713	58.4	2	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 713	U, D	µg/kg dry	713	63.3	2	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	178	J, D	µg/kg dry	361	51.7	2	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 361	U, D	µg/kg dry	361	55.5	2	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 361	U, D	µg/kg dry	361	89.0	2	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 713	U, D	µg/kg dry	713	66.8	2	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 713	U, D	µg/kg dry	713	83.2	2	"	"	"	"	"	X
86-74-8	Carbazole	< 361	U, D	µg/kg dry	361	201	2	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 713	U, D	µg/kg dry	713	68.1	2	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 361	U, D	µg/kg dry	361	78.0	2	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 713	U, D	µg/kg dry	713	65.9	2	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 361	U, D	µg/kg dry	361	64.2	2	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 713	U, D	µg/kg dry	713	84.7	2	"	"	"	"	"	X
218-01-9	Chrysene	< 144	U, D	µg/kg dry	144	71.9	2	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 144	U, D	µg/kg dry	144	55.3	2	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 361	U, D	µg/kg dry	361	54.9	2	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 713	U, D	µg/kg dry	713	62.2	2	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 713	U, D	µg/kg dry	713	62.2	2	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 713	U, D	µg/kg dry	713	66.1	2	"	"	"	"	"	X

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Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
R01													
91-94-1	3,3'-Dichlorobenzidine	< 713	U, D	µg/kg dry	713	108	2	SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	X
120-83-2	2,4-Dichlorophenol	< 361	U, D	µg/kg dry	361	67.5	2	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 713	U, D	µg/kg dry	713	88.1	2	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 713	U, D	µg/kg dry	713	78.0	2	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 713	U, D	µg/kg dry	713	51.0	2	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 713	U, D	µg/kg dry	713	75.6	2	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 713	U, D	µg/kg dry	713	91.5	2	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 713	U, D	µg/kg dry	713	72.6	2	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 361	U, D	µg/kg dry	361	140	2	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 361	U, D	µg/kg dry	361	81.2	2	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 713	U, D	µg/kg dry	713	80.6	2	"	"	"	"	"	X
206-44-0	Fluoranthene	95.8	J, D	µg/kg dry	144	76.1	2	"	"	"	"	"	X
86-73-7	Fluorene	< 144	U, D	µg/kg dry	144	73.2	2	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 361	U, D	µg/kg dry	361	71.0	2	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 361	U, D	µg/kg dry	361	86.2	2	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 361	U, D	µg/kg dry	361	49.0	2	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 361	U, D	µg/kg dry	361	77.8	2	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 144	U, D	µg/kg dry	144	51.9	2	"	"	"	"	"	X
78-59-1	Isophorone	< 361	U, D	µg/kg dry	361	67.6	2	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 144	U, D	µg/kg dry	144	87.1	2	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 713	U, D	µg/kg dry	713	60.6	2	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 713	U, D	µg/kg dry	713	68.9	2	"	"	"	"	"	X
91-20-3	Naphthalene	< 144	U, D	µg/kg dry	144	67.2	2	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 713	U, D	µg/kg dry	713	60.5	2	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 713	U, D	µg/kg dry	713	97.4	2	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 361	U, D	µg/kg dry	361	111	2	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 361	U, D	µg/kg dry	361	65.7	2	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 361	U, D	µg/kg dry	361	59.8	2	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 2850	U, D	µg/kg dry	2850	115	2	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 361	U, D	µg/kg dry	361	67.0	2	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 361	U, D	µg/kg dry	361	70.3	2	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 713	U, D	µg/kg dry	713	77.3	2	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 713	U, D	µg/kg dry	713	76.2	2	"	"	"	"	"	X
85-01-8	Phenanthrene	74.9	J, D	µg/kg dry	144	67.1	2	"	"	"	"	"	X
108-95-2	Phenol	< 713	U, D	µg/kg dry	713	46.9	2	"	"	"	"	"	X
129-00-0	Pyrene	82.1	J, D	µg/kg dry	144	80.4	2	"	"	"	"	"	X
110-86-1	Pyridine	< 713	U, D	µg/kg dry	713	106	2	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 713	U, D	µg/kg dry	713	70.6	2	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 144	U, D	µg/kg dry	144	70.9	2	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 713	U, D	µg/kg dry	713	64.2	2	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 361	U, D	µg/kg dry	361	64.4	2	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 713	U, D	µg/kg dry	713	113	2	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 713	U, D	µg/kg dry	713	69.1	2	"	"	"	"	"	X

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Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	75			30-130 %			SW846 8270D	22-Dec-17	02-Jan-18	MSL	1721206	
367-12-4	2-Fluorophenol	61			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	62			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	58			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	81			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	72			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

R01

Tentatively Identified Compounds	0.0	U, D	µg/kg dry				2	SW846 8270D TICS	"	"	MSL	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 10.8	U	µg/kg dry	10.8	4.82	1	SW846 8082A	21-Dec-17	28-Dec-17	AM	1721117	X
11104-28-2	Aroclor-1221	< 10.8	U	µg/kg dry	10.8	5.72	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 10.8	U	µg/kg dry	10.8	5.38	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 10.8	U	µg/kg dry	10.8	10.6	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 10.8	U	µg/kg dry	10.8	9.83	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 10.8	U	µg/kg dry	10.8	7.03	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 10.8	U	µg/kg dry	10.8	5.76	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 10.8	U	µg/kg dry	10.8	9.38	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 10.8	U	µg/kg dry	10.8	4.85	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	50			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	80			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3546Methylation date: 22-Dec-17

93-76-5	2,4,5-T	< 7.14	U	µg/kg dry	7.14	3.89	1	SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	X
93-72-1	2,4,5-TP (Silvex)	< 7.14	U	µg/kg dry	7.14	2.94	1	"	"	"	"	"	X
94-75-7	2,4-D	14.2		µg/kg dry	7.14	2.54	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 7.14	U	µg/kg dry	7.14	5.40	1	"	"	"	"	"	X
75-99-0	Dalapon	< 7.14	U	µg/kg dry	7.14	2.85	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 7.14	U	µg/kg dry	7.14	2.91	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 7.14	U	µg/kg dry	7.14	5.22	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 7.14	U	µg/kg dry	7.14	2.90	1	"	"	"	"	"	X
94-74-6	MCPA	< 2400	U	µg/kg dry	2400	1070	1	"	"	"	"	"	X
94-81-5	MCPB	< 2400	U	µg/kg dry	2400	1070	1	"	"	"	"	"	
93-65-2	MCPB	< 2400	U	µg/kg dry	2400	1070	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	125			30-150 %			"	"	"	"	"	

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HerbicidesChlorinated HerbicidesMethylation date: 22-Dec-17

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	110			30-150 %			SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	
2552-89-8	DCAA (Sr)	90			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	110			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 53.8	U, D	µg/kg dry	53.8	14.4	10	SW846 8081B	21-Dec-17	05-Jan-18	SM	1721116	X
319-85-7	beta-BHC	< 53.8	U, D	µg/kg dry	53.8	21.3	10	"	"	"	"	"	X
319-86-8	delta-BHC	< 53.8	U, D	µg/kg dry	53.8	15.5	10	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 32.3	U, D	µg/kg dry	32.3	15.5	10	"	"	"	"	"	X
76-44-8	Heptachlor	< 53.8	U, D	µg/kg dry	53.8	18.0	10	"	"	"	"	"	X
309-00-2	Aldrin	< 53.8	U, D	µg/kg dry	53.8	16.6	10	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 53.8	U, D	µg/kg dry	53.8	19.0	10	"	"	"	"	"	X
959-98-8	Endosulfan I	< 53.8	U, D	µg/kg dry	53.8	18.9	10	"	"	"	"	"	X
60-57-1	Dieldrin	< 53.8	U, D	µg/kg dry	53.8	18.9	10	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 53.8	U, D	µg/kg dry	53.8	17.0	10	"	"	"	"	"	X
72-20-8	Endrin	< 86.0	U, D	µg/kg dry	86.0	18.9	10	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 86.0	U, D	µg/kg dry	86.0	20.2	10	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 86.0	U, D	µg/kg dry	86.0	18.7	10	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 86.0	U, D	µg/kg dry	86.0	18.0	10	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 86.0	U, D	µg/kg dry	86.0	16.6	10	"	"	"	"	"	X
72-43-5	Methoxychlor	< 86.0	U, D	µg/kg dry	86.0	19.0	10	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 86.0	U, D	µg/kg dry	86.0	19.4	10	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 86.0	U, D	µg/kg dry	86.0	18.0	10	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 53.8	U, D	µg/kg dry	53.8	18.4	10	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 53.8	U, D	µg/kg dry	53.8	19.4	10	"	"	"	"	"	X
8001-35-2	Toxaphene	< 1080	U, D	µg/kg dry	1080	233	10	"	"	"	"	"	X
57-74-9	Chlordane	< 215	U, D	µg/kg dry	215	213	10	"	"	"	"	"	X
15972-60-8	Alachlor	< 53.8	U, D	µg/kg dry	53.8	26.4	10	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	64			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	69			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	83			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	88			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 56.5	U, D	mg/kg dry	56.5	37.6	2	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
68476-31-3	Fuel Oil #4	< 56.5	U, D	mg/kg dry	56.5	56.5	2	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 56.5	U, D	mg/kg dry	56.5	56.5	2	"	"	"	"	"	
M09800000	Motor Oil	< 56.5	U, D	mg/kg dry	56.5	56.5	2	"	"	"	"	"	
J00100000	Aviation Fuel	< 56.5	U, D	mg/kg dry	56.5	56.5	2	"	"	"	"	"	

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Sample Identification

SS-017

SC42525-19

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 10:40

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Unidentified	133	D	mg/kg dry	56.5	56.5	2	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
Other Oil	Calculated as		mg/kg dry	56.5	56.5	2	"	"	"	"	"	
Diesel Range Organics (DRO) C10-C28	133	D,DRO	mg/kg dry	56.5	37.6	2	"	"	"	"	"	X

Surrogate recoveries:

3386-33-2	1-Chlorooctadecane	87		40-140 %			"	"	"	"	"	

Total Metals by EPA 6000/7000 Series MethodsPrepared by method SW846 3050B

7440-22-4	Silver	< 1.63	U	mg/kg dry	1.63	0.176	1	SW846 6010C	28-Dec-17	10-Jan-18	SJR/T	1721203	X
7440-38-2	Arsenic	7.68		mg/kg dry	1.63	0.206	1	"	"	"	"	"	X
7440-39-3	Barium	40.2		mg/kg dry	1.08	0.128	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.561		mg/kg dry	0.542	0.0281	1	"	"	"	"	"	X
7440-47-3	Chromium	6.05		mg/kg dry	1.08	0.144	1	"	"	"	"	"	X
7439-97-6	Mercury	0.147		mg/kg dry	0.0289	0.0080	1	SW846 7471B	03-Jan-18	05-Jan-18	ABW	1721204	X

Prepared by method SW846 3051A

7439-92-1	Lead	29.3		mg/kg dry	1.62	0.230	1	SW846 6010C	11-Jan-18	12-Jan-18	SJR/T	1800406	X

Prepared by method SW846 3050B

7782-49-2	Selenium	< 1.63	U	mg/kg dry	1.63	0.310	1	"	28-Dec-17	10-Jan-18	"	1721203	X

General Chemistry Parameters

% Solids	91.9		%				1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720896	

Toxicity Characteristics

Ignitability by Definition	Negative	IgHT	N/A				1	SW846 1030	19-Dec-17 10:54	19-Dec-17 12:05	BD	1720970	X

Reactivity Cyanide/Sulfide

Reactivity	See Narrative		mg/kg dry				1	SW846 Ch. 7.3	20-Dec-17	28-Dec-17	TN	1721061	

57-12-5	Reactive Cyanide	< 24.1	U	mg/kg dry	24.1	24.1	1	"	"	"	"	"	

18496-25-8	Reactive Sulfide	< 48.2	U	mg/kg dry	48.2	48.2	1	"	"	"	"	"	

Sample Identification

SS-018

SC42525-20

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 11:00

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			BD	1720930	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
Initial weight: 5.24 g													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 7.34	U	µg/kg dry	7.34	3.72	1	SW846 8260C	27-Dec-17	27-Dec-17	MP	1721296	X
67-64-1	Acetone	< 73.4	U	µg/kg dry	73.4	29.4	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 7.34	U	µg/kg dry	7.34	7.06	1	"	"	"	"	"	X
71-43-2	Benzene	< 7.34	U	µg/kg dry	7.34	1.95	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 7.34	U	µg/kg dry	7.34	1.96	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 7.34	U	µg/kg dry	7.34	3.71	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 7.34	U	µg/kg dry	7.34	4.90	1	"	"	"	"	"	X
75-25-2	Bromoform	< 7.34	U	µg/kg dry	7.34	7.00	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 14.7	U	µg/kg dry	14.7	6.63	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 14.7	U	µg/kg dry	14.7	13.1	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 7.34	U	µg/kg dry	7.34	2.10	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 7.34	U	µg/kg dry	7.34	1.34	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 7.34	U	µg/kg dry	7.34	1.64	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 14.7	U	µg/kg dry	14.7	4.70	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 7.34	U	µg/kg dry	7.34	6.01	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 7.34	U	µg/kg dry	7.34	2.30	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 14.7	U	µg/kg dry	14.7	4.07	1	"	"	"	"	"	X
67-66-3	Chloroform	< 7.34	U	µg/kg dry	7.34	3.94	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 14.7	U	µg/kg dry	14.7	3.03	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 7.34	U	µg/kg dry	7.34	1.83	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 7.34	U	µg/kg dry	7.34	1.73	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 14.7	U	µg/kg dry	14.7	10.6	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 7.34	U	µg/kg dry	7.34	4.98	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 7.34	U	µg/kg dry	7.34	4.93	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 7.34	U	µg/kg dry	7.34	3.82	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 7.34	U	µg/kg dry	7.34	1.91	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 7.34	U	µg/kg dry	7.34	1.59	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 7.34	U	µg/kg dry	7.34	2.17	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 14.7	U	µg/kg dry	14.7	2.78	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 7.34	U	µg/kg dry	7.34	1.92	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 7.34	U	µg/kg dry	7.34	2.63	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 7.34	U	µg/kg dry	7.34	3.84	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 7.34	U	µg/kg dry	7.34	2.72	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 7.34	U	µg/kg dry	7.34	3.89	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 7.34	U	µg/kg dry	7.34	3.85	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 7.34	U	µg/kg dry	7.34	3.80	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 7.34	U	µg/kg dry	7.34	3.47	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 7.34	U	µg/kg dry	7.34	2.36	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 7.34	U	µg/kg dry	7.34	4.43	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 7.34	U	µg/kg dry	7.34	3.85	1	"	"	"	"	"	X

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Sample Identification

SS-018

SC42525-20

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 11:00

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 5.24 g

100-41-4	Ethylbenzene	< 7.34	U	µg/kg dry	7.34	1.06	1	SW846 8260C	27-Dec-17	27-Dec-17	MP	1721296	X
87-68-3	Hexachlorobutadiene	< 7.34	U	µg/kg dry	7.34	3.69	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 14.7	U	µg/kg dry	14.7	9.01	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 7.34	U	µg/kg dry	7.34	1.45	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 7.34	U	µg/kg dry	7.34	1.58	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 7.34	U	µg/kg dry	7.34	2.70	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 14.7	U	µg/kg dry	14.7	3.77	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 14.7	U	µg/kg dry	14.7	2.91	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 7.34	U	µg/kg dry	7.34	4.37	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 7.34	U	µg/kg dry	7.34	1.19	1	"	"	"	"	"	X
100-42-5	Styrene	< 7.34	U	µg/kg dry	7.34	1.48	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 7.34	U	µg/kg dry	7.34	6.24	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 7.34	U	µg/kg dry	7.34	6.21	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 7.34	U	µg/kg dry	7.34	2.51	1	"	"	"	"	"	X
108-88-3	Toluene	< 7.34	U	µg/kg dry	7.34	2.38	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 7.34	U	µg/kg dry	7.34	2.58	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 7.34	U	µg/kg dry	7.34	5.41	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 7.34	U	µg/kg dry	7.34	2.31	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 7.34	U	µg/kg dry	7.34	2.44	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 7.34	U	µg/kg dry	7.34	5.32	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 7.34	U	µg/kg dry	7.34	2.00	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 7.34	U	µg/kg dry	7.34	3.96	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 7.34	U	µg/kg dry	7.34	5.51	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 7.34	U	µg/kg dry	7.34	1.78	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 7.34	U	µg/kg dry	7.34	1.26	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 7.34	U	µg/kg dry	7.34	2.48	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 14.7	U	µg/kg dry	14.7	1.32	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 7.34	U	µg/kg dry	7.34	2.06	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 14.7	U	µg/kg dry	14.7	11.6	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 7.34	U	µg/kg dry	7.34	6.65	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 7.34	U	µg/kg dry	7.34	2.45	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 7.34	U	µg/kg dry	7.34	3.96	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 7.34	U	µg/kg dry	7.34	1.37	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 73.4	U	µg/kg dry	73.4	48.0	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 147	U	µg/kg dry	147	128	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-butene	< 36.7	U	µg/kg dry	36.7	16.8	1	"	"	"	"	"	X
64-17-5	Ethanol	303	J	µg/kg dry	1470	274	1	"	"	"	"	"	

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	93			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	128			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	110			70-130 %		"	"	"	"	"	"	

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Sample Identification

SS-018

SC42525-20

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 11:00

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 14.16 g

Gasoline Range Organics (C6-C10)	< 8.0	U, D, GRO	mg/kg dry	8.0	1.6	50	SW846 8015D	22-Dec-17	22-Dec-17	SD	1721219	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	101		70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MSPrepared by method SW846 5035A Soil (low level)Initial weight: 5.24 g

Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	27-Dec-17	27-Dec-17	MP	1721296	

Semivolatile Organic Compounds by GCMSSemivolatile Organic CompoundsPrepared by method SW846 3546

R01

83-32-9	Acenaphthene	< 839	U, D	µg/kg dry	839	418	10	SW846 8270D	22-Dec-17	03-Jan-18	MSL	1721206	X
208-96-8	Acenaphthylene	< 839	U, D	µg/kg dry	839	414	10	"	"	"	"	"	X
62-53-3	Aniline	< 4150	U, D	µg/kg dry	4150	298	10	"	"	"	"	"	X
120-12-7	Anthracene	< 839	U, D	µg/kg dry	839	401	10	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4150	U, D	µg/kg dry	4150	408	10	"	"	"	"	"	
92-87-5	Benzidine	< 4150	U, D	µg/kg dry	4150	835	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 839	U, D	µg/kg dry	839	443	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	440	J, D	µg/kg dry	839	312	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	449	J, D	µg/kg dry	839	406	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 839	U, D	µg/kg dry	839	337	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	356	J, D	µg/kg dry	839	328	10	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4150	U, D	µg/kg dry	4150	872	10	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4150	U, D	µg/kg dry	4150	340	10	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4150	U, D	µg/kg dry	4150	369	10	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 2100	U, D	µg/kg dry	2100	301	10	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 2100	U, D	µg/kg dry	2100	323	10	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 2100	U, D	µg/kg dry	2100	518	10	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4150	U, D	µg/kg dry	4150	389	10	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4150	U, D	µg/kg dry	4150	484	10	"	"	"	"	"	X
86-74-8	Carbazole	< 2100	U, D	µg/kg dry	2100	1170	10	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4150	U, D	µg/kg dry	4150	396	10	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 2100	U, D	µg/kg dry	2100	454	10	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4150	U, D	µg/kg dry	4150	384	10	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 2100	U, D	µg/kg dry	2100	374	10	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4150	U, D	µg/kg dry	4150	493	10	"	"	"	"	"	X
218-01-9	Chrysene	428	J, D	µg/kg dry	839	419	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 839	U, D	µg/kg dry	839	322	10	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 2100	U, D	µg/kg dry	2100	319	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4150	U, D	µg/kg dry	4150	362	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4150	U, D	µg/kg dry	4150	362	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4150	U, D	µg/kg dry	4150	385	10	"	"	"	"	"	X

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Sample Identification

SS-018

SC42525-20

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 11:00

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
			R01										
91-94-1	3,3'-Dichlorobenzidine	< 4150	U, D	µg/kg dry	4150	631	10	SW846 8270D	22-Dec-17	03-Jan-18	MSL	1721206	X
120-83-2	2,4-Dichlorophenol	< 2100	U, D	µg/kg dry	2100	393	10	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4150	U, D	µg/kg dry	4150	513	10	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4150	U, D	µg/kg dry	4150	454	10	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4150	U, D	µg/kg dry	4150	297	10	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4150	U, D	µg/kg dry	4150	440	10	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4150	U, D	µg/kg dry	4150	533	10	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4150	U, D	µg/kg dry	4150	423	10	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 2100	U, D	µg/kg dry	2100	812	10	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 2100	U, D	µg/kg dry	2100	473	10	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 4150	U, D	µg/kg dry	4150	469	10	"	"	"	"	"	X
206-44-0	Fluoranthene	847	D	µg/kg dry	839	443	10	"	"	"	"	"	X
86-73-7	Fluorene	< 839	U, D	µg/kg dry	839	426	10	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 2100	U, D	µg/kg dry	2100	413	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 2100	U, D	µg/kg dry	2100	502	10	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 2100	U, D	µg/kg dry	2100	286	10	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 2100	U, D	µg/kg dry	2100	453	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	344	J, D	µg/kg dry	839	302	10	"	"	"	"	"	X
78-59-1	Isophorone	< 2100	U, D	µg/kg dry	2100	394	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 839	U, D	µg/kg dry	839	507	10	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4150	U, D	µg/kg dry	4150	353	10	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 4150	U, D	µg/kg dry	4150	401	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 839	U, D	µg/kg dry	839	391	10	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4150	U, D	µg/kg dry	4150	352	10	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4150	U, D	µg/kg dry	4150	567	10	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 2100	U, D	µg/kg dry	2100	646	10	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 2100	U, D	µg/kg dry	2100	382	10	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 2100	U, D	µg/kg dry	2100	348	10	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 16600	U, D	µg/kg dry	16600	671	10	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 2100	U, D	µg/kg dry	2100	390	10	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 2100	U, D	µg/kg dry	2100	409	10	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4150	U, D	µg/kg dry	4150	450	10	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 4150	U, D	µg/kg dry	4150	443	10	"	"	"	"	"	X
85-01-8	Phenanthrene	< 839	U, D	µg/kg dry	839	390	10	"	"	"	"	"	X
108-95-2	Phenol	< 4150	U, D	µg/kg dry	4150	273	10	"	"	"	"	"	X
129-00-0	Pyrene	658	J, D	µg/kg dry	839	468	10	"	"	"	"	"	X
110-86-1	Pyridine	< 4150	U, D	µg/kg dry	4150	619	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4150	U, D	µg/kg dry	4150	411	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 839	U, D	µg/kg dry	839	413	10	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 4150	U, D	µg/kg dry	4150	374	10	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 2100	U, D	µg/kg dry	2100	375	10	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4150	U, D	µg/kg dry	4150	655	10	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4150	U, D	µg/kg dry	4150	402	10	"	"	"	"	"	X

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Sample Identification

SS-018

SC42525-20

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 11:00

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	92			30-130 %			SW846 8270D	22-Dec-17	03-Jan-18	MSL	1721206	
367-12-4	2-Fluorophenol	77			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	72			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	70			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	88			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	86			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

R01

Tentatively Identified Compounds	None found			µg/kg dry			10	SW846 8270D TICS	"	"	MSL	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 12.4	U	µg/kg dry	12.4	5.57	1	SW846 8082A	21-Dec-17	28-Dec-17	AM	1721117	X
11104-28-2	Aroclor-1221	< 12.4	U	µg/kg dry	12.4	6.61	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 12.4	U	µg/kg dry	12.4	6.22	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 12.4	U	µg/kg dry	12.4	12.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 12.4	U	µg/kg dry	12.4	11.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 12.4	U	µg/kg dry	12.4	8.13	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 12.4	U	µg/kg dry	12.4	6.65	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 12.4	U	µg/kg dry	12.4	10.8	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 12.4	U	µg/kg dry	12.4	5.60	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	55			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	50			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	90			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	85			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3546Methylation date: 22-Dec-17

93-76-5	2,4,5-T	< 8.34	U	µg/kg dry	8.34	4.54	1	SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	X
93-72-1	2,4,5-TP (Silvex)	< 8.34	U	µg/kg dry	8.34	3.43	1	"	"	"	"	"	X
94-75-7	2,4-D [2C]	14.1		µg/kg dry	8.34	3.30	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 8.34	U	µg/kg dry	8.34	6.30	1	"	"	"	"	"	X
75-99-0	Dalapon	< 8.34	U	µg/kg dry	8.34	3.33	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 8.34	U	µg/kg dry	8.34	3.40	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 8.34	U	µg/kg dry	8.34	6.09	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 8.34	U	µg/kg dry	8.34	3.38	1	"	"	"	"	"	X
94-74-6	MCPA	< 2800	U	µg/kg dry	2800	1250	1	"	"	"	"	"	X
94-81-5	MCPB	< 2800	U	µg/kg dry	2800	1250	1	"	"	"	"	"	
93-65-2	MCPB	< 2800	U	µg/kg dry	2800	1250	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	115			30-150 %			"	"	"	"	"	

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Sample Identification

SS-018

SC42525-20

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Matrix

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HerbicidesChlorinated HerbicidesMethylation date: 22-Dec-17

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150 %			SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	
2552-89-8	DCAA (Sr)	85			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	100			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 62.1	U, D	µg/kg dry	62.1	16.7	10	SW846 8081B	21-Dec-17	05-Jan-18	SM	1721116	X
319-85-7	beta-BHC	< 62.1	U, D	µg/kg dry	62.1	24.6	10	"	"	"	"	"	X
319-86-8	delta-BHC	< 62.1	U, D	µg/kg dry	62.1	17.9	10	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 37.3	U, D	µg/kg dry	37.3	17.9	10	"	"	"	"	"	X
76-44-8	Heptachlor	< 62.1	U, D	µg/kg dry	62.1	20.8	10	"	"	"	"	"	X
309-00-2	Aldrin	< 62.1	U, D	µg/kg dry	62.1	19.1	10	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 62.1	U, D	µg/kg dry	62.1	22.0	10	"	"	"	"	"	X
959-98-8	Endosulfan I	< 62.1	U, D	µg/kg dry	62.1	21.9	10	"	"	"	"	"	X
60-57-1	Dieldrin	< 62.1	U, D	µg/kg dry	62.1	21.9	10	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 62.1	U, D	µg/kg dry	62.1	19.6	10	"	"	"	"	"	X
72-20-8	Endrin	< 99.4	U, D	µg/kg dry	99.4	21.9	10	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 99.4	U, D	µg/kg dry	99.4	23.4	10	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 99.4	U, D	µg/kg dry	99.4	21.6	10	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 99.4	U, D	µg/kg dry	99.4	20.8	10	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 99.4	U, D	µg/kg dry	99.4	19.1	10	"	"	"	"	"	X
72-43-5	Methoxychlor	< 99.4	U, D	µg/kg dry	99.4	22.0	10	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 99.4	U, D	µg/kg dry	99.4	22.4	10	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 99.4	U, D	µg/kg dry	99.4	20.8	10	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 62.1	U, D	µg/kg dry	62.1	21.2	10	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 62.1	U, D	µg/kg dry	62.1	22.4	10	"	"	"	"	"	X
8001-35-2	Toxaphene	< 1240	U, D	µg/kg dry	1240	269	10	"	"	"	"	"	X
57-74-9	Chlordane	< 249	U, D	µg/kg dry	249	246	10	"	"	"	"	"	X
15972-60-8	Alachlor	< 62.1	U, D	µg/kg dry	62.1	30.4	10	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	73			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	74			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	96			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	102			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 65.8	U, D	mg/kg dry	65.8	43.8	2	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
68476-31-3	Fuel Oil #4	< 65.8	U, D	mg/kg dry	65.8	65.8	2	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 65.8	U, D	mg/kg dry	65.8	65.8	2	"	"	"	"	"	
M09800000	Motor Oil	< 65.8	U, D	mg/kg dry	65.8	65.8	2	"	"	"	"	"	
J00100000	Aviation Fuel	< 65.8	U, D	mg/kg dry	65.8	65.8	2	"	"	"	"	"	

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Sample Identification

SS-018

SC42525-20

Client Project #

0172.0210M010

Matrix

Soil

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18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Unidentified	247	D	mg/kg dry	65.8	65.8	2	8015DM	22-Dec-17	29-Dec-17	DJS	1721207	
Other Oil	Calculated as		mg/kg dry	65.8	65.8	2	"	"	"	"	"	
Diesel Range Organics (DRO) C10-C28	247	D,DRO	mg/kg dry	65.8	43.8	2	"	"	"	"	"	X

Surrogate recoveries:

3386-33-2	1-Chlorooctadecane	40		40-140 %			"	"	"	"	"	

Total Metals by EPA 6000/7000 Series MethodsPrepared by method SW846 3050B

7440-22-4	Silver	< 1.88	U	mg/kg dry	1.88	0.203	1	SW846 6010C	28-Dec-17	10-Jan-18	SJR/T	1721203	X
7440-38-2	Arsenic	6.21		mg/kg dry	1.88	0.238	1	"	"	"	"	"	X
7440-39-3	Barium	51.4		mg/kg dry	1.26	0.148	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.850		mg/kg dry	0.628	0.0325	1	"	"	"	"	"	X
7440-47-3	Chromium	8.70		mg/kg dry	1.26	0.167	1	"	"	"	"	"	X
7439-97-6	Mercury	0.0774		mg/kg dry	0.0331	0.0092	1	SW846 7471B	03-Jan-18	05-Jan-18	ABW	1721204	X

Prepared by method SW846 3051A

7439-92-1	Lead	14.4		mg/kg dry	1.88	0.266	1	SW846 6010C	11-Jan-18	12-Jan-18	SJR/T	1800406	X

Prepared by method SW846 3050B

7782-49-2	Selenium	0.420	J	mg/kg dry	1.88	0.359	1	"	28-Dec-17	10-Jan-18	"	1721203	X

General Chemistry Parameters

% Solids	79.2		%				1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720896	

Toxicity Characteristics

Ignitability by Definition	Negative	IgHT	N/A				1	SW846 1030	19-Dec-17 10:54	19-Dec-17 12:05	BD	1720970	X

Reactivity Cyanide/Sulfide

Reactivity	See Narrative		mg/kg dry				1	SW846 Ch. 7.3	20-Dec-17	28-Dec-17	TN	1721061	

57-12-5	Reactive Cyanide	< 23.5	U	mg/kg dry	23.5	23.5	1	"	"	"	"	"	

18496-25-8	Reactive Sulfide	< 47.1	U	mg/kg dry	47.1	47.1	1	"	"	"	"	"	

Sample Identification

SS-019

SC42525-21

Client Project #

0172.0210M010

Matrix

Soil

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14-Dec-17 11:20

Received

18-Dec-17

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Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction				BD	1720930
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
								Initial weight: 5.2 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 6.65	U	µg/kg dry	6.65	3.37	1	SW846 8260C	27-Dec-17	27-Dec-17	MP	1721296	X
67-64-1	Acetone	< 66.5	U	µg/kg dry	66.5	26.6	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 6.65	U	µg/kg dry	6.65	6.39	1	"	"	"	"	"	X
71-43-2	Benzene	< 6.65	U	µg/kg dry	6.65	1.76	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 6.65	U	µg/kg dry	6.65	1.78	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 6.65	U	µg/kg dry	6.65	3.36	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 6.65	U	µg/kg dry	6.65	4.43	1	"	"	"	"	"	X
75-25-2	Bromoform	< 6.65	U	µg/kg dry	6.65	6.34	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 13.3	U	µg/kg dry	13.3	6.00	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 13.3	U	µg/kg dry	13.3	11.9	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 6.65	U	µg/kg dry	6.65	1.90	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 6.65	U	µg/kg dry	6.65	1.21	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 6.65	U	µg/kg dry	6.65	1.49	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 13.3	U	µg/kg dry	13.3	4.25	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 6.65	U	µg/kg dry	6.65	5.44	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 6.65	U	µg/kg dry	6.65	2.08	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 13.3	U	µg/kg dry	13.3	3.69	1	"	"	"	"	"	X
67-66-3	Chloroform	< 6.65	U	µg/kg dry	6.65	3.57	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 13.3	U	µg/kg dry	13.3	2.75	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 6.65	U	µg/kg dry	6.65	1.66	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 6.65	U	µg/kg dry	6.65	1.56	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 13.3	U	µg/kg dry	13.3	9.61	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 6.65	U	µg/kg dry	6.65	4.51	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 6.65	U	µg/kg dry	6.65	4.46	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 6.65	U	µg/kg dry	6.65	3.46	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 6.65	U	µg/kg dry	6.65	1.73	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 6.65	U	µg/kg dry	6.65	1.44	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 6.65	U	µg/kg dry	6.65	1.97	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 13.3	U	µg/kg dry	13.3	2.52	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 6.65	U	µg/kg dry	6.65	1.74	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 6.65	U	µg/kg dry	6.65	2.38	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 6.65	U	µg/kg dry	6.65	3.48	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 6.65	U	µg/kg dry	6.65	2.47	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 6.65	U	µg/kg dry	6.65	3.52	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 6.65	U	µg/kg dry	6.65	3.48	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 6.65	U	µg/kg dry	6.65	3.44	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 6.65	U	µg/kg dry	6.65	3.14	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 6.65	U	µg/kg dry	6.65	2.14	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 6.65	U	µg/kg dry	6.65	4.01	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 6.65	U	µg/kg dry	6.65	3.49	1	"	"	"	"	"	X

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Sample Identification

SS-019

SC42525-21

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

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Received

18-Dec-17

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Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 5.2 g

100-41-4	Ethylbenzene	< 6.65	U	µg/kg dry	6.65	0.96	1	SW846 8260C	27-Dec-17	27-Dec-17	MP	1721296	X
87-68-3	Hexachlorobutadiene	< 6.65	U	µg/kg dry	6.65	3.34	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 13.3	U	µg/kg dry	13.3	8.16	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 6.65	U	µg/kg dry	6.65	1.31	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 6.65	U	µg/kg dry	6.65	1.43	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 6.65	U	µg/kg dry	6.65	2.45	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 13.3	U	µg/kg dry	13.3	3.42	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 13.3	U	µg/kg dry	13.3	2.64	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 6.65	U	µg/kg dry	6.65	3.96	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 6.65	U	µg/kg dry	6.65	1.08	1	"	"	"	"	"	X
100-42-5	Styrene	< 6.65	U	µg/kg dry	6.65	1.34	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 6.65	U	µg/kg dry	6.65	5.65	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 6.65	U	µg/kg dry	6.65	5.62	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 6.65	U	µg/kg dry	6.65	2.27	1	"	"	"	"	"	X
108-88-3	Toluene	< 6.65	U	µg/kg dry	6.65	2.15	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 6.65	U	µg/kg dry	6.65	2.33	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 6.65	U	µg/kg dry	6.65	4.90	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 6.65	U	µg/kg dry	6.65	2.09	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 6.65	U	µg/kg dry	6.65	2.21	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 6.65	U	µg/kg dry	6.65	4.82	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 6.65	U	µg/kg dry	6.65	1.82	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 6.65	U	µg/kg dry	6.65	3.58	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 6.65	U	µg/kg dry	6.65	4.99	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 6.65	U	µg/kg dry	6.65	1.62	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 6.65	U	µg/kg dry	6.65	1.14	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 6.65	U	µg/kg dry	6.65	2.25	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 13.3	U	µg/kg dry	13.3	1.20	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 6.65	U	µg/kg dry	6.65	1.86	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 13.3	U	µg/kg dry	13.3	10.5	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 6.65	U	µg/kg dry	6.65	6.02	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 6.65	U	µg/kg dry	6.65	2.22	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 6.65	U	µg/kg dry	6.65	3.58	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 6.65	U	µg/kg dry	6.65	1.24	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 66.5	U	µg/kg dry	66.5	43.5	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 133	U	µg/kg dry	133	115	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 33.2	U	µg/kg dry	33.2	15.2	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1330	U	µg/kg dry	1330	248	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	96		70-130 %		"	"	"	"	"
2037-26-5	Toluene-d8	99		70-130 %		"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	127		70-130 %		"	"	"	"	"
1868-53-7	Dibromofluoromethane	109		70-130 %		"	"	"	"	"

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Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 14.5 g

Gasoline Range Organics (C6-C10)	3.1	J, D, GRO	mg/kg dry	7.1	1.4	50	SW846 8015D	22-Dec-17	22-Dec-17	SD	1721219	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	89		70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MSPrepared by method SW846 5035A Soil (low level)Initial weight: 5.2 g

Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	27-Dec-17	27-Dec-17	MP	1721296	

Semivolatile Organic Compounds by GCMSSemivolatile Organic CompoundsPrepared by method SW846 3546

R01

83-32-9	Acenaphthene	< 394	U, D	µg/kg dry	394	196	5	SW846 8270D	20-Dec-17	31-Dec-17	MSL	1721023	X
208-96-8	Acenaphthylene	< 394	U, D	µg/kg dry	394	194	5	"	"	"	"	"	X
62-53-3	Aniline	< 1950	U, D	µg/kg dry	1950	140	5	"	"	"	"	"	X
120-12-7	Anthracene	< 394	U, D	µg/kg dry	394	188	5	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 1950	U, D	µg/kg dry	1950	192	5	"	"	"	"	"	
92-87-5	Benzidine	< 1950	U, D	µg/kg dry	1950	392	5	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 394	U, D	µg/kg dry	394	208	5	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 394	U, D	µg/kg dry	394	147	5	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 394	U, D	µg/kg dry	394	191	5	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 394	U, D	µg/kg dry	394	158	5	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 394	U, D	µg/kg dry	394	154	5	"	"	"	"	"	X
65-85-0	Benzoic acid	< 1950	U, D	µg/kg dry	1950	409	5	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 1950	U, D	µg/kg dry	1950	159	5	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 1950	U, D	µg/kg dry	1950	173	5	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	999	D	µg/kg dry	986	141	5	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 986	U, D	µg/kg dry	986	152	5	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 986	U, D	µg/kg dry	986	243	5	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 1950	U, D	µg/kg dry	1950	182	5	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 1950	U, D	µg/kg dry	1950	227	5	"	"	"	"	"	X
86-74-8	Carbazole	< 986	U, D	µg/kg dry	986	550	5	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 1950	U, D	µg/kg dry	1950	186	5	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 986	U, D	µg/kg dry	986	213	5	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 1950	U, D	µg/kg dry	1950	180	5	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 986	U, D	µg/kg dry	986	175	5	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 1950	U, D	µg/kg dry	1950	231	5	"	"	"	"	"	X
218-01-9	Chrysene	< 394	U, D	µg/kg dry	394	197	5	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 394	U, D	µg/kg dry	394	151	5	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 986	U, D	µg/kg dry	986	150	5	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 1950	U, D	µg/kg dry	1950	170	5	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 1950	U, D	µg/kg dry	1950	170	5	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 1950	U, D	µg/kg dry	1950	181	5	"	"	"	"	"	X

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Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
			R01										
91-94-1	3,3'-Dichlorobenzidine	< 1950	U, D	µg/kg dry	1950	296	5	SW846 8270D	20-Dec-17	31-Dec-17	MSL	1721023	X
120-83-2	2,4-Dichlorophenol	< 986	U, D	µg/kg dry	986	184	5	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 1950	U, D	µg/kg dry	1950	241	5	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 1950	U, D	µg/kg dry	1950	213	5	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 1950	U, D	µg/kg dry	1950	139	5	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 1950	U, D	µg/kg dry	1950	207	5	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 1950	U, D	µg/kg dry	1950	250	5	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 1950	U, D	µg/kg dry	1950	198	5	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 986	U, D	µg/kg dry	986	381	5	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 986	U, D	µg/kg dry	986	222	5	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 1950	U, D	µg/kg dry	1950	220	5	"	"	"	"	"	X
206-44-0	Fluoranthene	226	J, D	µg/kg dry	394	208	5	"	"	"	"	"	X
86-73-7	Fluorene	< 394	U, D	µg/kg dry	394	200	5	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 986	U, D	µg/kg dry	986	194	5	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 986	U, D	µg/kg dry	986	235	5	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 986	U, D	µg/kg dry	986	134	5	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 986	U, D	µg/kg dry	986	212	5	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 394	U, D	µg/kg dry	394	142	5	"	"	"	"	"	X
78-59-1	Isophorone	< 986	U, D	µg/kg dry	986	185	5	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 394	U, D	µg/kg dry	394	238	5	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 1950	U, D	µg/kg dry	1950	166	5	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 1950	U, D	µg/kg dry	1950	188	5	"	"	"	"	"	X
91-20-3	Naphthalene	< 394	U, D	µg/kg dry	394	184	5	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 1950	U, D	µg/kg dry	1950	165	5	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 1950	U, D	µg/kg dry	1950	266	5	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 986	U, D	µg/kg dry	986	303	5	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 986	U, D	µg/kg dry	986	179	5	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 986	U, D	µg/kg dry	986	163	5	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 7790	U, D	µg/kg dry	7790	315	5	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 986	U, D	µg/kg dry	986	183	5	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 986	U, D	µg/kg dry	986	192	5	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 1950	U, D	µg/kg dry	1950	211	5	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 1950	U, D	µg/kg dry	1950	208	5	"	"	"	"	"	X
85-01-8	Phenanthrene	216	J, D	µg/kg dry	394	183	5	"	"	"	"	"	X
108-95-2	Phenol	< 1950	U, D	µg/kg dry	1950	128	5	"	"	"	"	"	X
129-00-0	Pyrene	228	J, D	µg/kg dry	394	220	5	"	"	"	"	"	X
110-86-1	Pyridine	< 1950	U, D	µg/kg dry	1950	290	5	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 1950	U, D	µg/kg dry	1950	193	5	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 394	U, D	µg/kg dry	394	194	5	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 1950	U, D	µg/kg dry	1950	175	5	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 986	U, D	µg/kg dry	986	176	5	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 1950	U, D	µg/kg dry	1950	307	5	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzen e	< 1950	U, D	µg/kg dry	1950	189	5	"	"	"	"	"	X

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Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	68			30-130 %			SW846 8270D	20-Dec-17	31-Dec-17	MSL	1721023	
367-12-4	2-Fluorophenol	56			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	59			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	59			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	75			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	63			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

55045-11-9	tridecane, 5-propyl-	1,100	J N, D	µg/kg dry			5	SW846 8270D TICS	"	"	MSL	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 23.4	U	µg/kg dry	23.4	10.5	1	SW846 8082A	20-Dec-17	21-Dec-17	AM	1721007	X
11104-28-2	Aroclor-1221	< 23.4	U	µg/kg dry	23.4	12.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.4	U	µg/kg dry	23.4	11.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.4	U	µg/kg dry	23.4	23.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 23.4	U	µg/kg dry	23.4	21.4	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.4	U	µg/kg dry	23.4	15.3	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.4	U	µg/kg dry	23.4	12.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.4	U	µg/kg dry	23.4	20.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.4	U	µg/kg dry	23.4	10.6	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	60			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	70			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	115			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	115			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3546Methylation date: 22-Dec-17

93-76-5	2,4,5-T	< 7.82	U	µg/kg dry	7.82	4.26	1	SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	X
93-72-1	2,4,5-TP (Silvex)	< 7.82	U	µg/kg dry	7.82	3.22	1	"	"	"	"	"	X
94-75-7	2,4-D [2C]	8.56		µg/kg dry	7.82	3.10	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 7.82	U	µg/kg dry	7.82	5.91	1	"	"	"	"	"	X
75-99-0	Dalapon	< 7.82	U	µg/kg dry	7.82	3.13	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 7.82	U	µg/kg dry	7.82	3.19	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 7.82	U	µg/kg dry	7.82	5.72	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 7.82	U	µg/kg dry	7.82	3.17	1	"	"	"	"	"	X
94-74-6	MCPA	< 2630	U	µg/kg dry	2630	1170	1	"	"	"	"	"	X
94-81-5	MCPB	< 2630	U	µg/kg dry	2630	1170	1	"	"	"	"	"	
93-65-2	MCPD	< 2630	U	µg/kg dry	2630	1170	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	105			30-150 %			"	"	"	"	"	

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Sample Identification

SS-019

SC42525-21

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 11:20

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

HerbicidesChlorinated HerbicidesMethylation date: 22-Dec-17

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	110			30-150 %			SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	
2552-89-8	DCAA (Sr)	90			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	110			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 29.6	U, D	µg/kg dry	29.6	7.94	5	SW846 8081B	28-Dec-17	05-Jan-18	SM	1721358	X
319-85-7	beta-BHC	< 29.6	U, D	µg/kg dry	29.6	11.7	5	"	"	"	"	"	X
319-86-8	delta-BHC	< 29.6	U, D	µg/kg dry	29.6	8.53	5	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 17.8	U, D	µg/kg dry	17.8	8.53	5	"	"	"	"	"	X
76-44-8	Heptachlor	< 29.6	U, D	µg/kg dry	29.6	9.89	5	"	"	"	"	"	X
309-00-2	Aldrin	< 29.6	U, D	µg/kg dry	29.6	9.12	5	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 29.6	U, D	µg/kg dry	29.6	10.5	5	"	"	"	"	"	X
959-98-8	Endosulfan I	< 29.6	U, D	µg/kg dry	29.6	10.4	5	"	"	"	"	"	X
60-57-1	Dieldrin	< 29.6	U, D	µg/kg dry	29.6	10.4	5	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 29.6	U, D	µg/kg dry	29.6	9.36	5	"	"	"	"	"	X
72-20-8	Endrin	< 47.4	U, D	µg/kg dry	47.4	10.4	5	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 47.4	U, D	µg/kg dry	47.4	11.1	5	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 47.4	U, D	µg/kg dry	47.4	10.3	5	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 47.4	U, D	µg/kg dry	47.4	9.89	5	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 47.4	U, D	µg/kg dry	47.4	9.12	5	"	"	"	"	"	X
72-43-5	Methoxychlor	< 47.4	U, D	µg/kg dry	47.4	10.5	5	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 47.4	U, D	µg/kg dry	47.4	10.7	5	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 47.4	U, D	µg/kg dry	47.4	9.89	5	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 29.6	U, D	µg/kg dry	29.6	10.1	5	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 29.6	U, D	µg/kg dry	29.6	10.7	5	"	"	"	"	"	X
8001-35-2	Toxaphene	< 593	U, D	µg/kg dry	593	128	5	"	"	"	"	"	X
57-74-9	Chlordane	< 119	U, D	µg/kg dry	119	117	5	"	"	"	"	"	X
15972-60-8	Alachlor	< 29.6	U, D	µg/kg dry	29.6	14.5	5	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	98			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	99			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	149			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	133			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 155	U, D	mg/kg dry	155	103	5	8015DM	20-Dec-17	21-Dec-17	DJS	1721025	
68476-31-3	Fuel Oil #4	< 155	U, D	mg/kg dry	155	155	5	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 155	U, D	mg/kg dry	155	155	5	"	"	"	"	"	
M09800000	Motor Oil	< 155	U, D	mg/kg dry	155	155	5	"	"	"	"	"	
J00100000	Aviation Fuel	< 155	U, D	mg/kg dry	155	155	5	"	"	"	"	"	

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Sample Identification

SS-019

SC42525-21

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 11:20

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Unidentified	913	D	mg/kg dry	155	155	5	8015DM	20-Dec-17	21-Dec-17	DJS	1721025	
Other Oil	Calculated as		mg/kg dry	155	155	5	"	"	"	"	"	
Diesel Range Organics (DRO) C10-C28	913	D,DRO	mg/kg dry	155	103	5	"	"	"	"	"	X

Surrogate recoveries:

3386-33-2	1-Chlorooctadecane	176	S02		40-140 %		"	"	"	"	"	

Total Metals by EPA 6000/7000 Series MethodsPrepared by method SW846 3050B

7440-22-4	Silver	< 1.77	U	mg/kg dry	1.77	0.191	1	SW846 6010C	28-Dec-17	02-Jan-18	SJR/T	1721339	X
7440-38-2	Arsenic	12.5		mg/kg dry	1.77	0.224	1	"	"	08-Jan-18	"	1800083	X
7440-39-3	Barium	125		mg/kg dry	1.18	0.139	1	"	"	"	"	"	X
7440-43-9	Cadmium	1.19		mg/kg dry	0.590	0.0305	1	"	"	02-Jan-18	"	1721339	X
7440-47-3	Chromium	13.0		mg/kg dry	1.18	0.157	1	"	"	08-Jan-18	"	1800083	X
7439-97-6	Mercury	4.84	GS1, D	mg/kg dry	0.658	0.183	20	SW846 7471B	03-Jan-18	04-Jan-18	ABW	1721340	X

Prepared by method SW846 3050B

7439-92-1	Lead	114		mg/kg dry	1.77	0.250	1	SW846 6010C	28-Dec-17	08-Jan-18	SJR	1800083	X
7782-49-2	Selenium	< 1.77	U	mg/kg dry	1.77	0.337	1	"	"	02-Jan-18	"	1721339	X

General Chemistry Parameters

% Solids	84.2		%				1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720896	

Toxicity Characteristics

Ignitability by Definition	Negative	IgHT	N/A				1	SW846 1030	19-Dec-17 10:55	19-Dec-17 12:06	BD	1720972	X

Reactivity Cyanide/Sulfide

Reactivity	See Narrative		mg/kg dry				1	SW846 Ch. 7.3	22-Dec-17	28-Dec-17	TN	1721256	
57-12-5	Reactive Cyanide	< 22.7	U	mg/kg dry	22.7	22.7	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 45.5	U	mg/kg dry	45.5	45.5	1	"	"	"	"	"	

Sample Identification

SS-020

SC42525-22

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 11:40

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			BD	1720930	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (high level)</u>													
QCR													
Initial weight: 14.47 g													
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 71.0	U, D	µg/kg dry	71.0	36.0	50	SW846 8260C	22-Dec-17	22-Dec-17	MP	1721215	X
67-64-1	Acetone	< 71.0	U, D	µg/kg dry	71.0	284	50	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 71.0	U, D	µg/kg dry	71.0	68.3	50	"	"	"	"	"	X
71-43-2	Benzene	< 71.0	U, D	µg/kg dry	71.0	18.8	50	"	"	"	"	"	X
108-86-1	Bromobenzene	< 71.0	U, D	µg/kg dry	71.0	19.0	50	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 71.0	U, D	µg/kg dry	71.0	35.9	50	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 71.0	U, D	µg/kg dry	71.0	47.4	50	"	"	"	"	"	X
75-25-2	Bromoform	< 71.0	U, D	µg/kg dry	71.0	67.8	50	"	"	"	"	"	X
74-83-9	Bromomethane	< 142	U, D	µg/kg dry	142	64.1	50	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 142	U, D	µg/kg dry	142	127	50	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 71.0	U, D	µg/kg dry	71.0	20.3	50	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 71.0	U, D	µg/kg dry	71.0	12.9	50	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 71.0	U, D	µg/kg dry	71.0	15.9	50	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 142	U, D	µg/kg dry	142	45.5	50	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 71.0	U, D	µg/kg dry	71.0	58.1	50	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 71.0	U, D	µg/kg dry	71.0	22.2	50	"	"	"	"	"	X
75-00-3	Chloroethane	< 142	U, D	µg/kg dry	142	39.4	50	"	"	"	"	"	X
67-66-3	Chloroform	< 71.0	U, D	µg/kg dry	71.0	38.1	50	"	"	"	"	"	X
74-87-3	Chloromethane	< 142	U, D	µg/kg dry	142	29.3	50	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 71.0	U, D	µg/kg dry	71.0	17.7	50	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 71.0	U, D	µg/kg dry	71.0	16.7	50	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 142	U, D	µg/kg dry	142	103	50	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 71.0	U, D	µg/kg dry	71.0	48.2	50	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 71.0	U, D	µg/kg dry	71.0	47.7	50	"	"	"	"	"	X
74-95-3	Dibromomethane	< 71.0	U, D	µg/kg dry	71.0	36.9	50	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 71.0	U, D	µg/kg dry	71.0	18.5	50	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 71.0	U, D	µg/kg dry	71.0	15.4	50	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 71.0	U, D	µg/kg dry	71.0	21.0	50	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 142	U, D	µg/kg dry	142	26.9	50	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 71.0	U, D	µg/kg dry	71.0	18.6	50	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 71.0	U, D	µg/kg dry	71.0	25.4	50	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 71.0	U, D	µg/kg dry	71.0	37.2	50	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 71.0	U, D	µg/kg dry	71.0	26.4	50	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 71.0	U, D	µg/kg dry	71.0	37.6	50	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 71.0	U, D	µg/kg dry	71.0	37.2	50	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 71.0	U, D	µg/kg dry	71.0	36.8	50	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 71.0	U, D	µg/kg dry	71.0	33.5	50	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 71.0	U, D	µg/kg dry	71.0	22.9	50	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 71.0	U, D	µg/kg dry	71.0	42.8	50	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 71.0	U, D	µg/kg dry	71.0	37.3	50	"	"	"	"	"	X

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Sample Identification

SS-020

SC42525-22

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 11:40

Received

18-Dec-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Volatile Organic Compounds													
Volatile Organic Compounds by SW846 8260			QCR										
Initial weight: 14.47 g													
100-41-4	Ethylbenzene	< 71.0	U, D	µg/kg dry	71.0	10.2	50	SW846 8260C	22-Dec-17	22-Dec-17	MP	1721215	X
87-68-3	Hexachlorobutadiene	< 71.0	U, D	µg/kg dry	71.0	35.7	50	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 142	U, D	µg/kg dry	142	87.2	50	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 71.0	U, D	µg/kg dry	71.0	14.0	50	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 71.0	U, D	µg/kg dry	71.0	15.3	50	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 71.0	U, D	µg/kg dry	71.0	26.1	50	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 142	U, D	µg/kg dry	142	36.5	50	"	"	"	"	"	X
75-09-2	Methylene chloride	< 142	U, D	µg/kg dry	142	28.2	50	"	"	"	"	"	X
91-20-3	Naphthalene	< 71.0	U, D	µg/kg dry	71.0	42.3	50	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 71.0	U, D	µg/kg dry	71.0	11.5	50	"	"	"	"	"	X
100-42-5	Styrene	< 71.0	U, D	µg/kg dry	71.0	14.3	50	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 71.0	U, D	µg/kg dry	71.0	60.4	50	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 71.0	U, D	µg/kg dry	71.0	60.1	50	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 71.0	U, D	µg/kg dry	71.0	24.3	50	"	"	"	"	"	X
108-88-3	Toluene	< 71.0	U, D	µg/kg dry	71.0	23.0	50	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 71.0	U, D	µg/kg dry	71.0	24.9	50	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 71.0	U, D	µg/kg dry	71.0	52.4	50	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 71.0	U, D	µg/kg dry	71.0	22.3	50	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 71.0	U, D	µg/kg dry	71.0	23.6	50	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 71.0	U, D	µg/kg dry	71.0	51.5	50	"	"	"	"	"	X
79-01-6	Trichloroethene	< 71.0	U, D	µg/kg dry	71.0	19.4	50	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 71.0	U, D	µg/kg dry	71.0	38.3	50	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 71.0	U, D	µg/kg dry	71.0	53.3	50	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 71.0	U, D	µg/kg dry	71.0	17.3	50	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 71.0	U, D	µg/kg dry	71.0	12.2	50	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 71.0	U, D	µg/kg dry	71.0	24.0	50	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 142	U, D	µg/kg dry	142	12.8	50	"	"	"	"	"	X
95-47-6	o-Xylene	< 71.0	U, D	µg/kg dry	71.0	19.9	50	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 142	U, D	µg/kg dry	142	112	50	"	"	"	"	"	
60-29-7	Ethyl ether	< 71.0	U, D	µg/kg dry	71.0	64.4	50	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 71.0	U, D	µg/kg dry	71.0	23.7	50	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 71.0	U, D	µg/kg dry	71.0	38.3	50	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 71.0	U, D	µg/kg dry	71.0	13.2	50	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 710	U, D	µg/kg dry	710	465	50	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 1420	U, D	µg/kg dry	1420	1230	50	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 355	U, D	µg/kg dry	355	162	50	"	"	"	"	"	X
64-17-5	Ethanol	< 14200	U, D	µg/kg dry	14200	2650	50	"	"	"	"	"	
Surrogate recoveries:													
460-00-4	4-Bromofluorobenzene	107			70-130 %			"	"	"	"	"	
2037-26-5	Toluene-d8	102			70-130 %			"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	111			70-130 %			"	"	"	"	"	
1868-53-7	Dibromofluoromethane	106			70-130 %			"	"	"	"	"	

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Sample Identification

SS-020

SC42525-22

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 11:40

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Re-analysis of Volatile Organic Compounds</u>													
<u>by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
							<u>Initial weight: 5.69 g</u>						
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 6.17	U	µg/kg dry	6.17	3.13	1	SW846 8260C	27-Dec-17	27-Dec-17	MP	1721296	X
67-64-1	Acetone	< 61.7	U	µg/kg dry	61.7	24.7	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 6.17	U	µg/kg dry	6.17	5.92	1	"	"	"	"	"	X
71-43-2	Benzene	< 6.17	U	µg/kg dry	6.17	1.63	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 6.17	U	µg/kg dry	6.17	1.65	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 6.17	U	µg/kg dry	6.17	3.11	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 6.17	U	µg/kg dry	6.17	4.11	1	"	"	"	"	"	X
75-25-2	Bromoform	< 6.17	U	µg/kg dry	6.17	5.88	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 12.3	U	µg/kg dry	12.3	5.57	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 12.3	U	µg/kg dry	12.3	11.0	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 6.17	U	µg/kg dry	6.17	1.76	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 6.17	U	µg/kg dry	6.17	1.12	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 6.17	U	µg/kg dry	6.17	1.38	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 12.3	U	µg/kg dry	12.3	3.95	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 6.17	U	µg/kg dry	6.17	5.04	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 6.17	U	µg/kg dry	6.17	1.93	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 12.3	U	µg/kg dry	12.3	3.42	1	"	"	"	"	"	X
67-66-3	Chloroform	< 6.17	U	µg/kg dry	6.17	3.31	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 12.3	U	µg/kg dry	12.3	2.55	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 6.17	U	µg/kg dry	6.17	1.54	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 6.17	U	µg/kg dry	6.17	1.45	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 12.3	U	µg/kg dry	12.3	8.91	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 6.17	U	µg/kg dry	6.17	4.18	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 6.17	U	µg/kg dry	6.17	4.14	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 6.17	U	µg/kg dry	6.17	3.21	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 6.17	U	µg/kg dry	6.17	1.60	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 6.17	U	µg/kg dry	6.17	1.34	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 6.17	U	µg/kg dry	6.17	1.82	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 12.3	U	µg/kg dry	12.3	2.34	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 6.17	U	µg/kg dry	6.17	1.62	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 6.17	U	µg/kg dry	6.17	2.21	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 6.17	U	µg/kg dry	6.17	3.22	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 6.17	U	µg/kg dry	6.17	2.29	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 6.17	U	µg/kg dry	6.17	3.27	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 6.17	U	µg/kg dry	6.17	3.23	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 6.17	U	µg/kg dry	6.17	3.19	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 6.17	U	µg/kg dry	6.17	2.91	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 6.17	U	µg/kg dry	6.17	1.99	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 6.17	U	µg/kg dry	6.17	3.72	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 6.17	U	µg/kg dry	6.17	3.24	1	"	"	"	"	"	X
100-41-4	Ethylbenzene	< 6.17	U	µg/kg dry	6.17	0.89	1	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 6.17	U	µg/kg dry	6.17	3.09	1	"	"	"	"	"	X

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Sample Identification

SS-020

SC42525-22

Client Project #

0172.0210M010

Matrix

Soil

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<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Volatile Organic CompoundsRe-analysis of Volatile Organic Compoundsby SW846 8260

Initial weight: 5.69 g

591-78-6	2-Hexanone (MBK)	< 12.3	U	µg/kg dry	12.3	7.56	1	SW846 8260C	27-Dec-17	27-Dec-17	MP	1721296	X
98-82-8	Isopropylbenzene	< 6.17	U	µg/kg dry	6.17	1.21	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 6.17	U	µg/kg dry	6.17	1.33	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 6.17	U	µg/kg dry	6.17	2.27	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 12.3	U	µg/kg dry	12.3	3.17	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 12.3	U	µg/kg dry	12.3	2.45	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 6.17	U	µg/kg dry	6.17	3.67	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 6.17	U	µg/kg dry	6.17	1.00	1	"	"	"	"	"	X
100-42-5	Styrene	< 6.17	U	µg/kg dry	6.17	1.24	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 6.17	U	µg/kg dry	6.17	5.24	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 6.17	U	µg/kg dry	6.17	5.22	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 6.17	U	µg/kg dry	6.17	2.11	1	"	"	"	"	"	X
108-88-3	Toluene	< 6.17	U	µg/kg dry	6.17	2.00	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 6.17	U	µg/kg dry	6.17	2.16	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 6.17	U	µg/kg dry	6.17	4.54	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 6.17	U	µg/kg dry	6.17	1.94	1	"	"	"	"	"	
71-55-6	1,1,1-Trichloroethane	< 6.17	U	µg/kg dry	6.17	2.05	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 6.17	U	µg/kg dry	6.17	4.47	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 6.17	U	µg/kg dry	6.17	1.68	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 6.17	U	µg/kg dry	6.17	3.32	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 6.17	U	µg/kg dry	6.17	4.62	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 6.17	U	µg/kg dry	6.17	1.50	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 6.17	U	µg/kg dry	6.17	1.06	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 6.17	U	µg/kg dry	6.17	2.08	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 12.3	U	µg/kg dry	12.3	1.11	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 6.17	U	µg/kg dry	6.17	1.73	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 12.3	U	µg/kg dry	12.3	9.72	1	"	"	"	"	"	
60-29-7	Ethyl ether	< 6.17	U	µg/kg dry	6.17	5.59	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 6.17	U	µg/kg dry	6.17	2.06	1	"	"	"	"	"	
637-92-3	Ethyl tert-butyl ether	< 6.17	U	µg/kg dry	6.17	3.32	1	"	"	"	"	"	
108-20-3	Di-isopropyl ether	< 6.17	U	µg/kg dry	6.17	1.15	1	"	"	"	"	"	
75-65-0	Tert-Butanol / butyl alcohol	< 61.7	U	µg/kg dry	61.7	40.3	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 123	U	µg/kg dry	123	107	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 30.8	U	µg/kg dry	30.8	14.1	1	"	"	"	"	"	X
64-17-5	Ethanol	1,360		µg/kg dry	1230	230	1	"	"	"	"	"	

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	94			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	100			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	129			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	109			70-130 %		"	"	"	"	"	"	

Gasoline Range OrganicsPrepared by method VPH - EPA 5035A Soil

Initial weight: 14.47 g

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Sample Identification

SS-020

SC42525-22

Client Project #

0172.0210M010

Matrix

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Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 14.47 g

Gasoline Range Organics (C6-C10)	< 7.1	U, D, GRO	mg/kg dry	7.1	1.4	50	SW846 8015D	22-Dec-17	22-Dec-17	SD	1721219	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	98		70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MSPrepared by method SW846 5035A Soil (high level)Initial weight: 14.47 g

Tentatively Identified Compounds	None found		µg/kg dry			50	SW846 8260C TICs	22-Dec-17	22-Dec-17	MP	1721215	

Re-analysis of Tentatively IdentifiedCompounds by GC/MSPrepared by method SW846 5035A Soil (low level)Initial weight: 5.69 g

Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	27-Dec-17	27-Dec-17	MP	1721296	

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Prepared by method SW846 3546

83-32-9	Acenaphthene	< 792	U, D	µg/kg dry	792	394	10	SW846 8270D	20-Dec-17	31-Dec-17	MSL	1721023	X
208-96-8	Acenaphthylene	< 792	U, D	µg/kg dry	792	391	10	"	"	"	"	"	X
62-53-3	Aniline	< 3920	U, D	µg/kg dry	3920	281	10	"	"	"	"	"	X
120-12-7	Anthracene	< 792	U, D	µg/kg dry	792	379	10	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 3920	U, D	µg/kg dry	3920	385	10	"	"	"	"	"	
92-87-5	Benzidine	< 3920	U, D	µg/kg dry	3920	788	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	811	D	µg/kg dry	792	418	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	784	J, D	µg/kg dry	792	295	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	887	D	µg/kg dry	792	384	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	424	J, D	µg/kg dry	792	318	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	610	J, D	µg/kg dry	792	310	10	"	"	"	"	"	X
65-85-0	Benzoic acid	< 3920	U, D	µg/kg dry	3920	823	10	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 3920	U, D	µg/kg dry	3920	321	10	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 3920	U, D	µg/kg dry	3920	348	10	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 1980	U, D	µg/kg dry	1980	284	10	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 1980	U, D	µg/kg dry	1980	305	10	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 1980	U, D	µg/kg dry	1980	489	10	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 3920	U, D	µg/kg dry	3920	367	10	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 3920	U, D	µg/kg dry	3920	457	10	"	"	"	"	"	X
86-74-8	Carbazole	< 1980	U, D	µg/kg dry	1980	1110	10	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 3920	U, D	µg/kg dry	3920	374	10	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 1980	U, D	µg/kg dry	1980	429	10	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 3920	U, D	µg/kg dry	3920	362	10	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 1980	U, D	µg/kg dry	1980	353	10	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 3920	U, D	µg/kg dry	3920	465	10	"	"	"	"	"	X
218-01-9	Chrysene	1,000	D	µg/kg dry	792	395	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 792	U, D	µg/kg dry	792	304	10	"	"	"	"	"	X

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Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
			R01										
132-64-9	Dibenzofuran	< 1980	U, D	µg/kg dry	1980	302	10	SW846 8270D	20-Dec-17	31-Dec-17	MSL	1721023	X
95-50-1	1,2-Dichlorobenzene	< 3920	U, D	µg/kg dry	3920	342	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 3920	U, D	µg/kg dry	3920	342	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 3920	U, D	µg/kg dry	3920	363	10	"	"	"	"	"	X
91-94-1	3,3'-Dichlorobenzidine	< 3920	U, D	µg/kg dry	3920	596	10	"	"	"	"	"	X
120-83-2	2,4-Dichlorophenol	< 1980	U, D	µg/kg dry	1980	371	10	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 3920	U, D	µg/kg dry	3920	484	10	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 3920	U, D	µg/kg dry	3920	429	10	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 3920	U, D	µg/kg dry	3920	280	10	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 3920	U, D	µg/kg dry	3920	416	10	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 3920	U, D	µg/kg dry	3920	503	10	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 3920	U, D	µg/kg dry	3920	399	10	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 1980	U, D	µg/kg dry	1980	767	10	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 1980	U, D	µg/kg dry	1980	446	10	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 3920	U, D	µg/kg dry	3920	443	10	"	"	"	"	"	X
206-44-0	Fluoranthene	2,270	D	µg/kg dry	792	418	10	"	"	"	"	"	X
86-73-7	Fluorene	< 792	U, D	µg/kg dry	792	403	10	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 1980	U, D	µg/kg dry	1980	390	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 1980	U, D	µg/kg dry	1980	474	10	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 1980	U, D	µg/kg dry	1980	270	10	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 1980	U, D	µg/kg dry	1980	427	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	447	J, D	µg/kg dry	792	285	10	"	"	"	"	"	X
78-59-1	Isophorone	< 1980	U, D	µg/kg dry	1980	372	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 792	U, D	µg/kg dry	792	479	10	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 3920	U, D	µg/kg dry	3920	333	10	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 3920	U, D	µg/kg dry	3920	379	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 792	U, D	µg/kg dry	792	369	10	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 3920	U, D	µg/kg dry	3920	332	10	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 3920	U, D	µg/kg dry	3920	536	10	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 1980	U, D	µg/kg dry	1980	610	10	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 1980	U, D	µg/kg dry	1980	361	10	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 1980	U, D	µg/kg dry	1980	329	10	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 15700	U, D	µg/kg dry	15700	633	10	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 1980	U, D	µg/kg dry	1980	368	10	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 1980	U, D	µg/kg dry	1980	386	10	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 3920	U, D	µg/kg dry	3920	425	10	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 3920	U, D	µg/kg dry	3920	419	10	"	"	"	"	"	X
85-01-8	Phenanthrene	788	J, D	µg/kg dry	792	369	10	"	"	"	"	"	X
108-95-2	Phenol	< 3920	U, D	µg/kg dry	3920	258	10	"	"	"	"	"	X
129-00-0	Pyrene	1,630	D	µg/kg dry	792	442	10	"	"	"	"	"	X
110-86-1	Pyridine	< 3920	U, D	µg/kg dry	3920	584	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 3920	U, D	µg/kg dry	3920	388	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 792	U, D	µg/kg dry	792	389	10	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 3920	U, D	µg/kg dry	3920	353	10	"	"	"	"	"	X

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Sample Identification

SS-020

SC42525-22

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 11:40

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

88-06-2	2,4,6-Trichlorophenol	< 1980	U, D	µg/kg dry	1980	354	10	SW846 8270D	20-Dec-17	31-Dec-17	MSL	1721023	X
82-68-8	Pentachloronitrobenzene	< 3920	U, D	µg/kg dry	3920	619	10	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzen e	< 3920	U, D	µg/kg dry	3920	380	10	"	"	"	"	"	X

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	68			30-130 %			"	"	"	"	"	
367-12-4	2-Fluorophenol	55			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	56			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	54			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	66			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	62			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

000638-66-4	Octadecanal	2,100	J N, D	µg/kg dry			10	SW846 8270D TICS	"	"	MSL	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 23.5	U	µg/kg dry	23.5	10.5	1	SW846 8082A	20-Dec-17	21-Dec-17	AM	1721007	X
11104-28-2	Aroclor-1221	< 23.5	U	µg/kg dry	23.5	12.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 23.5	U	µg/kg dry	23.5	11.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 23.5	U	µg/kg dry	23.5	23.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 23.5	U	µg/kg dry	23.5	21.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 23.5	U	µg/kg dry	23.5	15.4	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 23.5	U	µg/kg dry	23.5	12.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 23.5	U	µg/kg dry	23.5	20.5	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 23.5	U	µg/kg dry	23.5	10.6	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	55			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	105			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	90			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 157	U, D	mg/kg dry	157	105	5	8015DM	20-Dec-17	21-Dec-17	DJS	1721025	
68476-31-3	Fuel Oil #4	< 157	U, D	mg/kg dry	157	157	5	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 157	U, D	mg/kg dry	157	157	5	"	"	"	"	"	
M09800000	Motor Oil	< 157	U, D	mg/kg dry	157	157	5	"	"	"	"	"	
J00100000	Aviation Fuel	< 157	U, D	mg/kg dry	157	157	5	"	"	"	"	"	
	Unidentified	256	D	mg/kg dry	157	157	5	"	"	"	"	"	
	Other Oil	Calculated as		mg/kg dry	157	157	5	"	"	"	"	"	
	Diesel Range Organics (DRO) C10-C28	256	D,DRO	mg/kg dry	157	105	5	"	"	"	"	"	X

Surrogate recoveries:*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

SS-020

SC42525-22

Client Project #

0172.0210M010

Matrix

Soil

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14-Dec-17 11:40

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<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons													
Diesel Range Organics				R01									
3386-33-2	1-Chlorooctadecane	74			40-140 %			8015DM	20-Dec-17	21-Dec-17	DJS	1721025	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-22-4	Silver	< 1.76	U	mg/kg dry	1.76	0.190	1	SW846 6010C	28-Dec-17	02-Jan-18	SJR/T	1721339	X
7440-38-2	Arsenic	5.99		mg/kg dry	1.76	0.222	1	"	"	08-Jan-18	"	1800083	X
7440-39-3	Barium	41.6		mg/kg dry	1.17	0.138	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.707		mg/kg dry	0.585	0.0303	1	"	"	02-Jan-18	"	1721339	X
7440-47-3	Chromium	8.28		mg/kg dry	1.17	0.156	1	"	"	08-Jan-18	"	1800083	X
7439-92-1	Lead	11.9		mg/kg dry	1.76	0.248	1	"	"	"	"	"	X
7782-49-2	Selenium	< 1.76	U	mg/kg dry	1.76	0.335	1	"	"	02-Jan-18	"	1721339	X
General Chemistry Parameters													
	% Solids	84.1		%			1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720896	
Toxicity Characteristics													
	Ignitability by Definition	Negative	IgHT	N/A			1	SW846 1030	19-Dec-17 10:55	19-Dec-17 12:06	BD	1720972	X
Reactivity Cyanide/Sulfide													
	Reactivity	See Narrative		mg/kg dry			1	SW846 Ch. 7.3	22-Dec-17	28-Dec-17	TN	1721256	
57-12-5	Reactive Cyanide	< 24.9	U	mg/kg dry	24.9	24.9	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 49.8	U	mg/kg dry	49.8	49.8	1	"	"	"	"	"	

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Sample Identification

SS-021

SC42525-23

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 12:00

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			BD	1720930	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)													
								Initial weight: 5.6 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.75	U	µg/kg dry	5.75	2.92	1	SW846 8260C	27-Dec-17	27-Dec-17	MP	1721296	X
67-64-1	Acetone	< 57.5	U	µg/kg dry	57.5	23.0	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 5.75	U	µg/kg dry	5.75	5.53	1	"	"	"	"	"	X
71-43-2	Benzene	< 5.75	U	µg/kg dry	5.75	1.52	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 5.75	U	µg/kg dry	5.75	1.54	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 5.75	U	µg/kg dry	5.75	2.90	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 5.75	U	µg/kg dry	5.75	3.84	1	"	"	"	"	"	X
75-25-2	Bromoform	< 5.75	U	µg/kg dry	5.75	5.49	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 11.5	U	µg/kg dry	11.5	5.19	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 11.5	U	µg/kg dry	11.5	10.3	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 5.75	U	µg/kg dry	5.75	1.64	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 5.75	U	µg/kg dry	5.75	1.05	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 5.75	U	µg/kg dry	5.75	1.29	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 11.5	U	µg/kg dry	11.5	3.68	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 5.75	U	µg/kg dry	5.75	4.70	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 5.75	U	µg/kg dry	5.75	1.80	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 11.5	U	µg/kg dry	11.5	3.19	1	"	"	"	"	"	X
67-66-3	Chloroform	< 5.75	U	µg/kg dry	5.75	3.09	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 11.5	U	µg/kg dry	11.5	2.38	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 5.75	U	µg/kg dry	5.75	1.43	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 5.75	U	µg/kg dry	5.75	1.35	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 11.5	U	µg/kg dry	11.5	8.31	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 5.75	U	µg/kg dry	5.75	3.90	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 5.75	U	µg/kg dry	5.75	3.86	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 5.75	U	µg/kg dry	5.75	2.99	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 5.75	U	µg/kg dry	5.75	1.50	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 5.75	U	µg/kg dry	5.75	1.25	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 5.75	U	µg/kg dry	5.75	1.70	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 11.5	U	µg/kg dry	11.5	2.18	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 5.75	U	µg/kg dry	5.75	1.51	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 5.75	U	µg/kg dry	5.75	2.06	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 5.75	U	µg/kg dry	5.75	3.01	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 5.75	U	µg/kg dry	5.75	2.13	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 5.75	U	µg/kg dry	5.75	3.05	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 5.75	U	µg/kg dry	5.75	3.01	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 5.75	U	µg/kg dry	5.75	2.98	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 5.75	U	µg/kg dry	5.75	2.71	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 5.75	U	µg/kg dry	5.75	1.85	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 5.75	U	µg/kg dry	5.75	3.47	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 5.75	U	µg/kg dry	5.75	3.02	1	"	"	"	"	"	X

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Sample Identification

SS-021

SC42525-23

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 12:00

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 5.6 g

100-41-4	Ethylbenzene	< 5.75	U	µg/kg dry	5.75	0.83	1	SW846 8260C	27-Dec-17	27-Dec-17	MP	1721296	X
87-68-3	Hexachlorobutadiene	< 5.75	U	µg/kg dry	5.75	2.89	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 11.5	U	µg/kg dry	11.5	7.06	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 5.75	U	µg/kg dry	5.75	1.13	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 5.75	U	µg/kg dry	5.75	1.24	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 5.75	U	µg/kg dry	5.75	2.12	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 11.5	U	µg/kg dry	11.5	2.96	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 11.5	U	µg/kg dry	11.5	2.28	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 5.75	U	µg/kg dry	5.75	3.42	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 5.75	U	µg/kg dry	5.75	0.93	1	"	"	"	"	"	X
100-42-5	Styrene	< 5.75	U	µg/kg dry	5.75	1.16	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 5.75	U	µg/kg dry	5.75	4.89	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 5.75	U	µg/kg dry	5.75	4.87	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 5.75	U	µg/kg dry	5.75	1.97	1	"	"	"	"	"	X
108-88-3	Toluene	< 5.75	U	µg/kg dry	5.75	1.86	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 5.75	U	µg/kg dry	5.75	2.02	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 5.75	U	µg/kg dry	5.75	4.24	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 5.75	U	µg/kg dry	5.75	1.81	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 5.75	U	µg/kg dry	5.75	1.91	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 5.75	U	µg/kg dry	5.75	4.17	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 5.75	U	µg/kg dry	5.75	1.57	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 5.75	U	µg/kg dry	5.75	3.10	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 5.75	U	µg/kg dry	5.75	4.31	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 5.75	U	µg/kg dry	5.75	1.40	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 5.75	U	µg/kg dry	5.75	0.99	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 5.75	U	µg/kg dry	5.75	1.94	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 11.5	U	µg/kg dry	11.5	1.04	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 5.75	U	µg/kg dry	5.75	1.61	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 11.5	U	µg/kg dry	11.5	9.06	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 5.75	U	µg/kg dry	5.75	5.21	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 5.75	U	µg/kg dry	5.75	1.92	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 5.75	U	µg/kg dry	5.75	3.10	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 5.75	U	µg/kg dry	5.75	1.07	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 57.5	U	µg/kg dry	57.5	37.6	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 115	U	µg/kg dry	115	99.9	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 28.8	U	µg/kg dry	28.8	13.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1150	U	µg/kg dry	1150	215	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	93			70-130 %		"	"	"	"	"	"	
2037-26-5	Toluene-d8	99			70-130 %		"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	129			70-130 %		"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	109			70-130 %		"	"	"	"	"	"	

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Sample Identification

SS-021

SC42525-23

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 12:00

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 18.94 g

Gasoline Range Organics (C6-C10)	1.2	J, D, GRO	mg/kg dry	5.2	1.0	50	SW846 8015D	22-Dec-17	22-Dec-17	SD	1721219	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	96		70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MSPrepared by method SW846 5035A Soil (low level)Initial weight: 5.6 g

Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	27-Dec-17	27-Dec-17	MP	1721296	

Semivolatile Organic Compounds by GCMSSemivolatile Organic CompoundsPrepared by method SW846 3546

R01

83-32-9	Acenaphthene	< 3020	U, D	µg/kg dry	3020	1500	20	SW846 8270D	20-Dec-17	31-Dec-17	MSL	1721023	X
208-96-8	Acenaphthylene	< 3020	U, D	µg/kg dry	3020	1490	20	"	"	"	"	"	X
62-53-3	Aniline	< 14900	U, D	µg/kg dry	14900	1070	20	"	"	"	"	"	X
120-12-7	Anthracene	4,090	D	µg/kg dry	3020	1440	20	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 14900	U, D	µg/kg dry	14900	1470	20	"	"	"	"	"	
92-87-5	Benzidine	< 14900	U, D	µg/kg dry	14900	3010	20	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	19,600	D	µg/kg dry	3020	1590	20	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	17,000	D	µg/kg dry	3020	1120	20	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	19,600	D	µg/kg dry	3020	1460	20	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	9,410	D	µg/kg dry	3020	1210	20	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	14,500	D	µg/kg dry	3020	1180	20	"	"	"	"	"	X
65-85-0	Benzoic acid	< 14900	U, D	µg/kg dry	14900	3140	20	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 14900	U, D	µg/kg dry	14900	1220	20	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 14900	U, D	µg/kg dry	14900	1330	20	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 7560	U, D	µg/kg dry	7560	1080	20	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 7560	U, D	µg/kg dry	7560	1160	20	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 7560	U, D	µg/kg dry	7560	1860	20	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 14900	U, D	µg/kg dry	14900	1400	20	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 14900	U, D	µg/kg dry	14900	1740	20	"	"	"	"	"	X
86-74-8	Carbazole	< 7560	U, D	µg/kg dry	7560	4220	20	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 14900	U, D	µg/kg dry	14900	1430	20	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 7560	U, D	µg/kg dry	7560	1630	20	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 14900	U, D	µg/kg dry	14900	1380	20	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 7560	U, D	µg/kg dry	7560	1340	20	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 14900	U, D	µg/kg dry	14900	1770	20	"	"	"	"	"	X
218-01-9	Chrysene	22,500	D	µg/kg dry	3020	1510	20	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	2,460	J, D	µg/kg dry	3020	1160	20	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 7560	U, D	µg/kg dry	7560	1150	20	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 14900	U, D	µg/kg dry	14900	1300	20	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 14900	U, D	µg/kg dry	14900	1300	20	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 14900	U, D	µg/kg dry	14900	1390	20	"	"	"	"	"	X

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Sample Identification

SS-021

SC42525-23

Client Project #

0172.0210M010

Matrix

Soil

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Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
			R01										
91-94-1	3,3'-Dichlorobenzidine	< 14900	U, D	µg/kg dry	14900	2270	20	SW846 8270D	20-Dec-17	31-Dec-17	MSL	1721023	X
120-83-2	2,4-Dichlorophenol	< 7560	U, D	µg/kg dry	7560	1410	20	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 14900	U, D	µg/kg dry	14900	1850	20	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 14900	U, D	µg/kg dry	14900	1630	20	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 14900	U, D	µg/kg dry	14900	1070	20	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 14900	U, D	µg/kg dry	14900	1580	20	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 14900	U, D	µg/kg dry	14900	1920	20	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 14900	U, D	µg/kg dry	14900	1520	20	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 7560	U, D	µg/kg dry	7560	2920	20	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 7560	U, D	µg/kg dry	7560	1700	20	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 14900	U, D	µg/kg dry	14900	1690	20	"	"	"	"	"	X
206-44-0	Fluoranthene	53,100	D	µg/kg dry	3020	1600	20	"	"	"	"	"	X
86-73-7	Fluorene	< 3020	U, D	µg/kg dry	3020	1530	20	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 7560	U, D	µg/kg dry	7560	1490	20	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 7560	U, D	µg/kg dry	7560	1810	20	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 7560	U, D	µg/kg dry	7560	1030	20	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 7560	U, D	µg/kg dry	7560	1630	20	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	10,000	D	µg/kg dry	3020	1090	20	"	"	"	"	"	X
78-59-1	Isophorone	< 7560	U, D	µg/kg dry	7560	1420	20	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 3020	U, D	µg/kg dry	3020	1820	20	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 14900	U, D	µg/kg dry	14900	1270	20	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 14900	U, D	µg/kg dry	14900	1440	20	"	"	"	"	"	X
91-20-3	Naphthalene	< 3020	U, D	µg/kg dry	3020	1410	20	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 14900	U, D	µg/kg dry	14900	1270	20	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 14900	U, D	µg/kg dry	14900	2040	20	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 7560	U, D	µg/kg dry	7560	2330	20	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 7560	U, D	µg/kg dry	7560	1380	20	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 7560	U, D	µg/kg dry	7560	1250	20	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 59700	U, D	µg/kg dry	59700	2410	20	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 7560	U, D	µg/kg dry	7560	1400	20	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 7560	U, D	µg/kg dry	7560	1470	20	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 14900	U, D	µg/kg dry	14900	1620	20	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 14900	U, D	µg/kg dry	14900	1600	20	"	"	"	"	"	X
85-01-8	Phenanthrene	27,800	D	µg/kg dry	3020	1400	20	"	"	"	"	"	X
108-95-2	Phenol	< 14900	U, D	µg/kg dry	14900	983	20	"	"	"	"	"	X
129-00-0	Pyrene	43,500	D	µg/kg dry	3020	1680	20	"	"	"	"	"	X
110-86-1	Pyridine	< 14900	U, D	µg/kg dry	14900	2230	20	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 14900	U, D	µg/kg dry	14900	1480	20	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 3020	U, D	µg/kg dry	3020	1480	20	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 14900	U, D	µg/kg dry	14900	1340	20	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 7560	U, D	µg/kg dry	7560	1350	20	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 14900	U, D	µg/kg dry	14900	2360	20	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 14900	U, D	µg/kg dry	14900	1450	20	"	"	"	"	"	X

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Matrix

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CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	78			30-130 %			SW846 8270D	20-Dec-17	31-Dec-17	MSL	1721023	
367-12-4	2-Fluorophenol	64			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	67			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	66			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	98			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	73			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

1985-5-0	Perylene	12,000	J N, D	µg/kg dry			20	SW846 8270D TICS	"	"	MSL	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 22.3	U	µg/kg dry	22.3	9.98	1	SW846 8082A	20-Dec-17	21-Dec-17	AM	1721007	X
11104-28-2	Aroclor-1221	< 22.3	U	µg/kg dry	22.3	11.8	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 22.3	U	µg/kg dry	22.3	11.1	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 22.3	U	µg/kg dry	22.3	22.0	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 22.3	U	µg/kg dry	22.3	20.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 22.3	U	µg/kg dry	22.3	14.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	30.6		µg/kg dry	22.3	11.9	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 22.3	U	µg/kg dry	22.3	19.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 22.3	U	µg/kg dry	22.3	10.0	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	50			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	55			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	195	S02		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3546Methylation date: 22-Dec-17

93-76-5	2,4,5-T	< 7.50	U	µg/kg dry	7.50	4.09	1	SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	X
93-72-1	2,4,5-TP (Silvex)	< 7.50	U	µg/kg dry	7.50	3.08	1	"	"	"	"	"	X
94-75-7	2,4-D	11.2		µg/kg dry	7.50	2.67	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 7.50	U	µg/kg dry	7.50	5.67	1	"	"	"	"	"	X
75-99-0	Dalapon	< 7.50	U	µg/kg dry	7.50	3.00	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 7.50	U	µg/kg dry	7.50	3.06	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 7.50	U	µg/kg dry	7.50	5.48	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 7.50	U	µg/kg dry	7.50	3.04	1	"	"	"	"	"	X
94-74-6	MCPA	< 2520	U	µg/kg dry	2520	1120	1	"	"	"	"	"	X
94-81-5	MCPB	< 2520	U	µg/kg dry	2520	1120	1	"	"	"	"	"	
93-65-2	MCPB	< 2520	U	µg/kg dry	2520	1120	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	110			30-150 %			"	"	"	"	"	

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HerbicidesChlorinated HerbicidesMethylation date: 22-Dec-17

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	105			30-150 %			SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	
2552-89-8	DCAA (Sr)	90			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	85			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 28.1	U, D	µg/kg dry	28.1	7.53	5	SW846 8081B	28-Dec-17	05-Jan-18	SM	1721358	X
319-85-7	beta-BHC	< 28.1	U, D	µg/kg dry	28.1	11.1	5	"	"	"	"	"	X
319-86-8	delta-BHC	< 28.1	U, D	µg/kg dry	28.1	8.09	5	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 16.8	U, D	µg/kg dry	16.8	8.09	5	"	"	"	"	"	X
76-44-8	Heptachlor	< 28.1	U, D	µg/kg dry	28.1	9.38	5	"	"	"	"	"	X
309-00-2	Aldrin	< 28.1	U, D	µg/kg dry	28.1	8.65	5	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 28.1	U, D	µg/kg dry	28.1	9.94	5	"	"	"	"	"	X
959-98-8	Endosulfan I	< 28.1	U, D	µg/kg dry	28.1	9.88	5	"	"	"	"	"	X
60-57-1	Dieldrin	< 28.1	U, D	µg/kg dry	28.1	9.88	5	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 28.1	U, D	µg/kg dry	28.1	8.87	5	"	"	"	"	"	X
72-20-8	Endrin	< 44.9	U, D	µg/kg dry	44.9	9.88	5	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 44.9	U, D	µg/kg dry	44.9	10.6	5	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 44.9	U, D	µg/kg dry	44.9	9.77	5	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 44.9	U, D	µg/kg dry	44.9	9.38	5	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 44.9	U, D	µg/kg dry	44.9	8.65	5	"	"	"	"	"	X
72-43-5	Methoxychlor	< 44.9	U, D	µg/kg dry	44.9	9.94	5	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 44.9	U, D	µg/kg dry	44.9	10.1	5	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 44.9	U, D	µg/kg dry	44.9	9.38	5	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 28.1	U, D	µg/kg dry	28.1	9.60	5	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 28.1	U, D	µg/kg dry	28.1	10.1	5	"	"	"	"	"	X
8001-35-2	Toxaphene	< 562	U, D	µg/kg dry	562	121	5	"	"	"	"	"	X
57-74-9	Chlordane	< 112	U, D	µg/kg dry	112	111	5	"	"	"	"	"	X
15972-60-8	Alachlor	< 28.1	U, D	µg/kg dry	28.1	13.8	5	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	88			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	119			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	1530	SDUP		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	228	SDUP		30-150 %			"	"	"	"	"	

Re-analysis of Organochlorine Pesticides

HT5, R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 56.5	U, D	µg/kg dry	56.5	15.1	10	SW846 8081B	06-Jan-18	10-Jan-18	SM	1800219	X
319-85-7	beta-BHC	< 56.5	U, D	µg/kg dry	56.5	22.4	10	"	"	"	"	"	X
319-86-8	delta-BHC	< 56.5	U, D	µg/kg dry	56.5	16.3	10	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 33.9	U, D	µg/kg dry	33.9	16.3	10	"	"	"	"	"	X
76-44-8	Heptachlor	< 56.5	U, D	µg/kg dry	56.5	18.9	10	"	"	"	"	"	X
309-00-2	Aldrin	< 56.5	U, D	µg/kg dry	56.5	17.4	10	"	"	"	"	"	X

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Sample Identification

SS-021

SC42525-23

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 12:00

Received

18-Dec-17

CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Pesticides													
Re-analysis of Organochlorine Pesticides			HT5, R01										
1024-57-3	Heptachlor epoxide	< 56.5	U, D	µg/kg dry	56.5	20.0	10	SW846 8081B	06-Jan-18	10-Jan-18	SM	1800219	X
959-98-8	Endosulfan I	< 56.5	U, D	µg/kg dry	56.5	19.9	10	"	"	"	"	"	X
60-57-1	Dieldrin	< 56.5	U, D	µg/kg dry	56.5	19.9	10	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 56.5	U, D	µg/kg dry	56.5	17.9	10	"	"	"	"	"	X
72-20-8	Endrin	< 90.4	U, D	µg/kg dry	90.4	19.9	10	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 90.4	U, D	µg/kg dry	90.4	21.2	10	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 90.4	U, D	µg/kg dry	90.4	19.7	10	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 90.4	U, D	µg/kg dry	90.4	18.9	10	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 90.4	U, D	µg/kg dry	90.4	17.4	10	"	"	"	"	"	X
72-43-5	Methoxychlor	< 90.4	U, D	µg/kg dry	90.4	20.0	10	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 90.4	U, D	µg/kg dry	90.4	20.3	10	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 90.4	U, D	µg/kg dry	90.4	18.9	10	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 56.5	U, D	µg/kg dry	56.5	19.3	10	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 56.5	U, D	µg/kg dry	56.5	20.3	10	"	"	"	"	"	X
8001-35-2	Toxaphene	< 1130	U, D	µg/kg dry	1130	244	10	"	"	"	"	"	X
57-74-9	Chlordane	< 226	U, D	µg/kg dry	226	224	10	"	"	"	"	"	X
15972-60-8	Alachlor	< 56.5	U, D	µg/kg dry	56.5	27.7	10	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	124			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	88			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	3090	SDUP		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	322	SDUP		30-150 %			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Diesel Range Organics			R01										
Prepared by method SW846 3546													
68476-30-2	Fuel Oil #2	< 148	U, D	mg/kg dry	148	98.6	5	8015DM	20-Dec-17	21-Dec-17	DJS	1721025	
68476-31-3	Fuel Oil #4	< 148	U, D	mg/kg dry	148	148	5	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 148	U, D	mg/kg dry	148	148	5	"	"	"	"	"	
M09800000	Motor Oil	< 148	U, D	mg/kg dry	148	148	5	"	"	"	"	"	
J00100000	Aviation Fuel	< 148	U, D	mg/kg dry	148	148	5	"	"	"	"	"	
	Unidentified	1,550	D	mg/kg dry	148	148	5	"	"	"	"	"	
	Other Oil	Calculated as		mg/kg dry	148	148	5	"	"	"	"	"	
	Diesel Range Organics (DRO) C10-C28	1,550	D,DRO	mg/kg dry	148	98.6	5	"	"	"	"	"	X
Surrogate recoveries:													
3386-33-2	1-Chlorooctadecane	2130	S02		40-140 %			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-22-4	Silver	< 1.69	U	mg/kg dry	1.69	0.183	1	SW846 6010C	28-Dec-17	02-Jan-18	SJR/T	1721339	X
7440-38-2	Arsenic	10.5		mg/kg dry	1.69	0.215	1	"	"	08-Jan-18	"	1800083	X
7440-39-3	Barium	58.2		mg/kg dry	1.13	0.133	1	"	"	"	"	"	X
7440-43-9	Cadmium	1.73		mg/kg dry	0.565	0.0293	1	"	"	02-Jan-18	"	1721339	X
7440-47-3	Chromium	10.7		mg/kg dry	1.13	0.150	1	"	"	08-Jan-18	"	1800083	X

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Sample Identification

SS-021

SC42525-23

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 12:00

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Total Metals by EPA 6000/7000 Series Methods													
7439-97-6	Mercury	0.0516		mg/kg dry	0.0297	0.0083	1	SW846 7471B	03-Jan-18	04-Jan-18	ABW	1721340	X
<u>Prepared by method SW846 3050B</u>													
7439-92-1	Lead	49.6		mg/kg dry	1.69	0.239	1	SW846 6010C	28-Dec-17	08-Jan-18	SJR	1800083	X
7782-49-2	Selenium	< 1.69	U	mg/kg dry	1.69	0.323	1	"	"	02-Jan-18	"	1721339	X
General Chemistry Parameters													
	% Solids	88.0		%			1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720896	
Toxicity Characteristics													
	Ignitability by Definition	Negative	IgHT	N/A			1	SW846 1030	19-Dec-17 10:55	19-Dec-17 12:06	BD	1720972	X
<u>Reactivity Cyanide/Sulfide</u>													
	Reactivity	See Narrative		mg/kg dry			1	SW846 Ch. 7.3	22-Dec-17	28-Dec-17	TN	1721256	
57-12-5	Reactive Cyanide	< 23.8	U	mg/kg dry	23.8	23.8	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 47.6	U	mg/kg dry	47.6	47.6	1	"	"	"	"	"	

Sample Identification

SS-022

SC42525-24

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 12:15

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
<u>Prepared by method Volatiles</u>													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			BD	1720930	
<u>Volatile Organic Compounds by SW846 8260</u>													
<u>Prepared by method SW846 5035A Soil (low level)</u>													
								Initial weight: 5.87 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 6.66	U	µg/kg dry	6.66	3.38	1	SW846 8260C	27-Dec-17	27-Dec-17	MP	1721296	X
67-64-1	Acetone	< 66.6	U	µg/kg dry	66.6	26.6	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 6.66	U	µg/kg dry	6.66	6.40	1	"	"	"	"	"	X
71-43-2	Benzene	< 6.66	U	µg/kg dry	6.66	1.76	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 6.66	U	µg/kg dry	6.66	1.78	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 6.66	U	µg/kg dry	6.66	3.36	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 6.66	U	µg/kg dry	6.66	4.44	1	"	"	"	"	"	X
75-25-2	Bromoform	< 6.66	U	µg/kg dry	6.66	6.35	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 13.3	U	µg/kg dry	13.3	6.01	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 13.3	U	µg/kg dry	13.3	11.9	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 6.66	U	µg/kg dry	6.66	1.90	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 6.66	U	µg/kg dry	6.66	1.21	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 6.66	U	µg/kg dry	6.66	1.49	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 13.3	U	µg/kg dry	13.3	4.26	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 6.66	U	µg/kg dry	6.66	5.45	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 6.66	U	µg/kg dry	6.66	2.08	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 13.3	U	µg/kg dry	13.3	3.69	1	"	"	"	"	"	X
67-66-3	Chloroform	< 6.66	U	µg/kg dry	6.66	3.57	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 13.3	U	µg/kg dry	13.3	2.75	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 6.66	U	µg/kg dry	6.66	1.66	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 6.66	U	µg/kg dry	6.66	1.56	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 13.3	U	µg/kg dry	13.3	9.62	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 6.66	U	µg/kg dry	6.66	4.51	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 6.66	U	µg/kg dry	6.66	4.47	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 6.66	U	µg/kg dry	6.66	3.46	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 6.66	U	µg/kg dry	6.66	1.73	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 6.66	U	µg/kg dry	6.66	1.44	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 6.66	U	µg/kg dry	6.66	1.97	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 13.3	U	µg/kg dry	13.3	2.52	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 6.66	U	µg/kg dry	6.66	1.74	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 6.66	U	µg/kg dry	6.66	2.38	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 6.66	U	µg/kg dry	6.66	3.48	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 6.66	U	µg/kg dry	6.66	2.47	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 6.66	U	µg/kg dry	6.66	3.53	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 6.66	U	µg/kg dry	6.66	3.49	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 6.66	U	µg/kg dry	6.66	3.45	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 6.66	U	µg/kg dry	6.66	3.14	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 6.66	U	µg/kg dry	6.66	2.14	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 6.66	U	µg/kg dry	6.66	4.01	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 6.66	U	µg/kg dry	6.66	3.50	1	"	"	"	"	"	X

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Sample Identification

SS-022

SC42525-24

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 12:15

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 5.87 g

100-41-4	Ethylbenzene	< 6.66	U	µg/kg dry	6.66	0.96	1	SW846 8260C	27-Dec-17	27-Dec-17	MP	1721296	X
87-68-3	Hexachlorobutadiene	< 6.66	U	µg/kg dry	6.66	3.34	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 13.3	U	µg/kg dry	13.3	8.17	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 6.66	U	µg/kg dry	6.66	1.31	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 6.66	U	µg/kg dry	6.66	1.43	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 6.66	U	µg/kg dry	6.66	2.45	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 13.3	U	µg/kg dry	13.3	3.42	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 13.3	U	µg/kg dry	13.3	2.64	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 6.66	U	µg/kg dry	6.66	3.96	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 6.66	U	µg/kg dry	6.66	1.08	1	"	"	"	"	"	X
100-42-5	Styrene	< 6.66	U	µg/kg dry	6.66	1.34	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 6.66	U	µg/kg dry	6.66	5.66	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 6.66	U	µg/kg dry	6.66	5.63	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 6.66	U	µg/kg dry	6.66	2.28	1	"	"	"	"	"	X
108-88-3	Toluene	< 6.66	U	µg/kg dry	6.66	2.16	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 6.66	U	µg/kg dry	6.66	2.34	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 6.66	U	µg/kg dry	6.66	4.91	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 6.66	U	µg/kg dry	6.66	2.09	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 6.66	U	µg/kg dry	6.66	2.21	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 6.66	U	µg/kg dry	6.66	4.83	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 6.66	U	µg/kg dry	6.66	1.82	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 6.66	U	µg/kg dry	6.66	3.59	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 6.66	U	µg/kg dry	6.66	4.99	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 6.66	U	µg/kg dry	6.66	1.62	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 6.66	U	µg/kg dry	6.66	1.15	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 6.66	U	µg/kg dry	6.66	2.25	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 13.3	U	µg/kg dry	13.3	1.20	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 6.66	U	µg/kg dry	6.66	1.86	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 13.3	U	µg/kg dry	13.3	10.5	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 6.66	U	µg/kg dry	6.66	6.03	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 6.66	U	µg/kg dry	6.66	2.22	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 6.66	U	µg/kg dry	6.66	3.59	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 6.66	U	µg/kg dry	6.66	1.24	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 66.6	U	µg/kg dry	66.6	43.6	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 133	U	µg/kg dry	133	116	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 33.3	U	µg/kg dry	33.3	15.2	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1330	U	µg/kg dry	1330	248	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	91			70-130 %		"	"	"	"	"	"
2037-26-5	Toluene-d8	97			70-130 %		"	"	"	"	"	"
17060-07-0	1,2-Dichloroethane-d4	129			70-130 %		"	"	"	"	"	"
1868-53-7	Dibromofluoromethane	113			70-130 %		"	"	"	"	"	"

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Sample Identification

SS-022

SC42525-24

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 12:15

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 18.33 g

Gasoline Range Organics (C6-C10)	< 6.4	U, D, GRO	mg/kg dry	6.4	1.3	50	SW846 8015D	22-Dec-17	22-Dec-17	SD	1721219	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	105		70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MSPrepared by method SW846 5035A Soil (low level)Initial weight: 5.87 g

Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	27-Dec-17	27-Dec-17	MP	1721296	

Semivolatile Organic Compounds by GCMSSemivolatile Organic CompoundsPrepared by method SW846 3546

R01

83-32-9	Acenaphthene	1,190	J, D	µg/kg dry	1670	832	20	SW846 8270D	20-Dec-17	31-Dec-17	MSL	1721023	X
208-96-8	Acenaphthylene	< 1670	U, D	µg/kg dry	1670	824	20	"	"	"	"	"	X
62-53-3	Aniline	< 8270	U, D	µg/kg dry	8270	594	20	"	"	"	"	"	X
120-12-7	Anthracene	2,880	D	µg/kg dry	1670	799	20	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 8270	U, D	µg/kg dry	8270	813	20	"	"	"	"	"	
92-87-5	Benzidine	< 8270	U, D	µg/kg dry	8270	1660	20	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	13,200	D	µg/kg dry	1670	882	20	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	12,100	D	µg/kg dry	1670	622	20	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	12,600	D	µg/kg dry	1670	809	20	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	6,650	D	µg/kg dry	1670	671	20	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	13,000	D	µg/kg dry	1670	654	20	"	"	"	"	"	X
65-85-0	Benzoic acid	< 8270	U, D	µg/kg dry	8270	1740	20	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 8270	U, D	µg/kg dry	8270	677	20	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 8270	U, D	µg/kg dry	8270	734	20	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 4180	U, D	µg/kg dry	4180	599	20	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 4180	U, D	µg/kg dry	4180	644	20	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 4180	U, D	µg/kg dry	4180	1030	20	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 8270	U, D	µg/kg dry	8270	774	20	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 8270	U, D	µg/kg dry	8270	964	20	"	"	"	"	"	X
86-74-8	Carbazole	< 4180	U, D	µg/kg dry	4180	2330	20	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 8270	U, D	µg/kg dry	8270	789	20	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 4180	U, D	µg/kg dry	4180	904	20	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 8270	U, D	µg/kg dry	8270	764	20	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 4180	U, D	µg/kg dry	4180	744	20	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 8270	U, D	µg/kg dry	8270	982	20	"	"	"	"	"	X
218-01-9	Chrysene	15,000	D	µg/kg dry	1670	834	20	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	1,640	J, D	µg/kg dry	1670	641	20	"	"	"	"	"	X
132-64-9	Dibenzofuran	776	J, D	µg/kg dry	4180	636	20	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 8270	U, D	µg/kg dry	8270	721	20	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 8270	U, D	µg/kg dry	8270	721	20	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 8270	U, D	µg/kg dry	8270	766	20	"	"	"	"	"	X

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Sample Identification

SS-022

SC42525-24

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 12:15

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
			R01										
91-94-1	3,3'-Dichlorobenzidine	< 8270	U, D	µg/kg dry	8270	1260	20	SW846 8270D	20-Dec-17	31-Dec-17	MSL	1721023	X
120-83-2	2,4-Dichlorophenol	< 4180	U, D	µg/kg dry	4180	782	20	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 8270	U, D	µg/kg dry	8270	1020	20	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 8270	U, D	µg/kg dry	8270	904	20	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 8270	U, D	µg/kg dry	8270	591	20	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 8270	U, D	µg/kg dry	8270	877	20	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 8270	U, D	µg/kg dry	8270	1060	20	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 8270	U, D	µg/kg dry	8270	842	20	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 4180	U, D	µg/kg dry	4180	1620	20	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 4180	U, D	µg/kg dry	4180	942	20	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 8270	U, D	µg/kg dry	8270	934	20	"	"	"	"	"	X
206-44-0	Fluoranthene	40,300	D	µg/kg dry	1670	883	20	"	"	"	"	"	X
86-73-7	Fluorene	1,250	J, D	µg/kg dry	1670	849	20	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 4180	U, D	µg/kg dry	4180	823	20	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 4180	U, D	µg/kg dry	4180	999	20	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 4180	U, D	µg/kg dry	4180	569	20	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 4180	U, D	µg/kg dry	4180	902	20	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	7,540	D	µg/kg dry	1670	601	20	"	"	"	"	"	X
78-59-1	Isophorone	< 4180	U, D	µg/kg dry	4180	784	20	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 1670	U, D	µg/kg dry	1670	1010	20	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 8270	U, D	µg/kg dry	8270	703	20	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 8270	U, D	µg/kg dry	8270	799	20	"	"	"	"	"	X
91-20-3	Naphthalene	< 1670	U, D	µg/kg dry	1670	779	20	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 8270	U, D	µg/kg dry	8270	701	20	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 8270	U, D	µg/kg dry	8270	1130	20	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 4180	U, D	µg/kg dry	4180	1290	20	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 4180	U, D	µg/kg dry	4180	761	20	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 4180	U, D	µg/kg dry	4180	694	20	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 33100	U, D	µg/kg dry	33100	1340	20	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 4180	U, D	µg/kg dry	4180	776	20	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 4180	U, D	µg/kg dry	4180	815	20	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 8270	U, D	µg/kg dry	8270	896	20	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 8270	U, D	µg/kg dry	8270	883	20	"	"	"	"	"	X
85-01-8	Phenanthrene	20,400	D	µg/kg dry	1670	777	20	"	"	"	"	"	X
108-95-2	Phenol	< 8270	U, D	µg/kg dry	8270	544	20	"	"	"	"	"	X
129-00-0	Pyrene	28,100	D	µg/kg dry	1670	932	20	"	"	"	"	"	X
110-86-1	Pyridine	< 8270	U, D	µg/kg dry	8270	1230	20	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 8270	U, D	µg/kg dry	8270	819	20	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 1670	U, D	µg/kg dry	1670	822	20	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 8270	U, D	µg/kg dry	8270	744	20	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 4180	U, D	µg/kg dry	4180	746	20	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 8270	U, D	µg/kg dry	8270	1300	20	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 8270	U, D	µg/kg dry	8270	801	20	"	"	"	"	"	X

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Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	52			30-130 %			SW846 8270D	20-Dec-17	31-Dec-17	MSL	1721023	
367-12-4	2-Fluorophenol	45			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	48			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	46			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	58			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	52			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

1985-5-0	Perylene	8,900	J N, D	µg/kg dry			20	SW846 8270D TICS	"	"	MSL	"	
84-65-1	9,10-anthracenedione	4,800	J N, D	µg/kg dry			20	"	"	"	"	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 24.6	U	µg/kg dry	24.6	11.0	1	SW846 8082A	20-Dec-17	21-Dec-17	AM	1721007	X
11104-28-2	Aroclor-1221	< 24.6	U	µg/kg dry	24.6	13.1	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 24.6	U	µg/kg dry	24.6	12.3	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 24.6	U	µg/kg dry	24.6	24.3	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 24.6	U	µg/kg dry	24.6	22.5	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 24.6	U	µg/kg dry	24.6	16.1	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 24.6	U	µg/kg dry	24.6	13.2	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 24.6	U	µg/kg dry	24.6	21.4	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 24.6	U	µg/kg dry	24.6	11.1	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	55			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	65			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	225	S02		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	105			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3546Methylation date: 22-Dec-17

93-76-5	2,4,5-T	< 8.22	U	µg/kg dry	8.22	4.48	1	SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	X
93-72-1	2,4,5-TP (Silvex)	< 8.22	U	µg/kg dry	8.22	3.38	1	"	"	"	"	"	X
94-75-7	2,4-D [2C]	14.7		µg/kg dry	8.22	3.26	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 8.22	U	µg/kg dry	8.22	6.22	1	"	"	"	"	"	X
75-99-0	Dalapon	< 8.22	U	µg/kg dry	8.22	3.29	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 8.22	U	µg/kg dry	8.22	3.35	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 8.22	U	µg/kg dry	8.22	6.01	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 8.22	U	µg/kg dry	8.22	3.34	1	"	"	"	"	"	X
94-74-6	MCPA	< 2760	U	µg/kg dry	2760	1230	1	"	"	"	"	"	X
94-81-5	MCPB	< 2760	U	µg/kg dry	2760	1230	1	"	"	"	"	"	
93-65-2	MCPD	< 2760	U	µg/kg dry	2760	1230	1	"	"	"	"	"	X

Surrogate recoveries:*This laboratory report is not valid without an authorized signature on the cover page.*

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HerbicidesChlorinated HerbicidesMethylation date: 22-Dec-17

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	120			30-150 %			SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	100			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr)	90			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	110			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 31.3	U, D	µg/kg dry	31.3	8.39	5	SW846 8081B	28-Dec-17	05-Jan-18	SM	1721358	X
319-85-7	beta-BHC	< 31.3	U, D	µg/kg dry	31.3	12.4	5	"	"	"	"	"	X
319-86-8	delta-BHC	< 31.3	U, D	µg/kg dry	31.3	9.02	5	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 18.8	U, D	µg/kg dry	18.8	9.02	5	"	"	"	"	"	X
76-44-8	Heptachlor	< 31.3	U, D	µg/kg dry	31.3	10.5	5	"	"	"	"	"	X
309-00-2	Aldrin	< 31.3	U, D	µg/kg dry	31.3	9.64	5	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 31.3	U, D	µg/kg dry	31.3	11.1	5	"	"	"	"	"	X
959-98-8	Endosulfan I	< 31.3	U, D	µg/kg dry	31.3	11.0	5	"	"	"	"	"	X
60-57-1	Dieldrin	< 31.3	U, D	µg/kg dry	31.3	11.0	5	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 31.3	U, D	µg/kg dry	31.3	9.89	5	"	"	"	"	"	X
72-20-8	Endrin	< 50.1	U, D	µg/kg dry	50.1	11.0	5	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 50.1	U, D	µg/kg dry	50.1	11.8	5	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 50.1	U, D	µg/kg dry	50.1	10.9	5	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 50.1	U, D	µg/kg dry	50.1	10.5	5	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 50.1	U, D	µg/kg dry	50.1	9.64	5	"	"	"	"	"	X
72-43-5	Methoxychlor	< 50.1	U, D	µg/kg dry	50.1	11.1	5	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 50.1	U, D	µg/kg dry	50.1	11.3	5	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 50.1	U, D	µg/kg dry	50.1	10.5	5	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 31.3	U, D	µg/kg dry	31.3	10.7	5	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 31.3	U, D	µg/kg dry	31.3	11.3	5	"	"	"	"	"	X
8001-35-2	Toxaphene	< 626	U, D	µg/kg dry	626	135	5	"	"	"	"	"	X
57-74-9	Chlordane	< 125	U, D	µg/kg dry	125	124	5	"	"	"	"	"	X
15972-60-8	Alachlor	< 31.3	U, D	µg/kg dry	31.3	15.3	5	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	108			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	78			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	2070	SDUP		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	252	SDUP		30-150 %			"	"	"	"	"	

Re-analysis of Organochlorine Pesticides

HT5, R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 62.7	U, D	µg/kg dry	62.7	16.8	10	SW846 8081B	06-Jan-18	10-Jan-18	SM	1800219	X
319-85-7	beta-BHC	< 62.7	U, D	µg/kg dry	62.7	24.8	10	"	"	"	"	"	X
319-86-8	delta-BHC	< 62.7	U, D	µg/kg dry	62.7	18.1	10	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 37.6	U, D	µg/kg dry	37.6	18.1	10	"	"	"	"	"	X
76-44-8	Heptachlor	< 62.7	U, D	µg/kg dry	62.7	21.0	10	"	"	"	"	"	X

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Pesticides													
Re-analysis of Organochlorine Pesticides			HT5, R01										
309-00-2	Aldrin	< 62.7	U, D	µg/kg dry	62.7	19.3	10	SW846 8081B	06-Jan-18	10-Jan-18	SM	1800219	X
1024-57-3	Heptachlor epoxide	< 62.7	U, D	µg/kg dry	62.7	22.2	10	"	"	"	"	"	X
959-98-8	Endosulfan I	< 62.7	U, D	µg/kg dry	62.7	22.1	10	"	"	"	"	"	X
60-57-1	Dieldrin	< 62.7	U, D	µg/kg dry	62.7	22.1	10	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 62.7	U, D	µg/kg dry	62.7	19.8	10	"	"	"	"	"	X
72-20-8	Endrin	< 100	U, D	µg/kg dry	100	22.1	10	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 100	U, D	µg/kg dry	100	23.6	10	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 100	U, D	µg/kg dry	100	21.8	10	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 100	U, D	µg/kg dry	100	21.0	10	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 100	U, D	µg/kg dry	100	19.3	10	"	"	"	"	"	X
72-43-5	Methoxychlor	< 100	U, D	µg/kg dry	100	22.2	10	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 100	U, D	µg/kg dry	100	22.6	10	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 100	U, D	µg/kg dry	100	21.0	10	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 62.7	U, D	µg/kg dry	62.7	21.5	10	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 62.7	U, D	µg/kg dry	62.7	22.6	10	"	"	"	"	"	X
8001-35-2	Toxaphene	< 1250	U, D	µg/kg dry	1250	271	10	"	"	"	"	"	X
57-74-9	Chlordane	< 251	U, D	µg/kg dry	251	248	10	"	"	"	"	"	X
15972-60-8	Alachlor	< 62.7	U, D	µg/kg dry	62.7	30.7	10	"	"	"	"	"	
Surrogate recoveries:													
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	106			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	75			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	2000	SDUP		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	213	SDUP		30-150 %			"	"	"	"	"	
Extractable Petroleum Hydrocarbons													
Diesel Range Organics			R01										
Prepared by method SW846 3546													
68476-30-2	Fuel Oil #2	< 164	U, D	mg/kg dry	164	109	5	8015DM	20-Dec-17	21-Dec-17	DJS	1721025	
68476-31-3	Fuel Oil #4	< 164	U, D	mg/kg dry	164	164	5	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 164	U, D	mg/kg dry	164	164	5	"	"	"	"	"	
M09800000	Motor Oil	< 164	U, D	mg/kg dry	164	164	5	"	"	"	"	"	
J00100000	Aviation Fuel	< 164	U, D	mg/kg dry	164	164	5	"	"	"	"	"	
	Unidentified	1,320	D	mg/kg dry	164	164	5	"	"	"	"	"	
	Other Oil	Calculated as		mg/kg dry	164	164	5	"	"	"	"	"	
	Diesel Range Organics (DRO) C10-C28	1,320	D,DRO	mg/kg dry	164	109	5	"	"	"	"	"	X
Surrogate recoveries:													
3386-33-2	1-Chlorooctadecane	1890	S02		40-140 %			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-22-4	Silver	< 1.86	U	mg/kg dry	1.86	0.200	1	SW846 6010C	28-Dec-17	02-Jan-18	SJR/T	1721339	X
7440-38-2	Arsenic	7.51		mg/kg dry	1.86	0.235	1	"	"	08-Jan-18	"	1800083	X
7440-39-3	Barium	52.1		mg/kg dry	1.24	0.146	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.901		mg/kg dry	0.619	0.0320	1	"	"	02-Jan-18	"	1721339	X

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Sample Identification

SS-022

SC42525-24

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 12:15

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Total Metals by EPA 6000/7000 Series Methods													
7440-47-3	Chromium	9.59		mg/kg dry	1.24	0.165	1	SW846 6010C	28-Dec-17	08-Jan-18	SJR	1800083	X
7439-97-6	Mercury	0.0354		mg/kg dry	0.0335	0.0093	1	SW846 7471B	03-Jan-18	04-Jan-18	ABW	1721340	X
<u>Prepared by method SW846 3050B</u>													
7439-92-1	Lead	23.6		mg/kg dry	1.86	0.262	1	SW846 6010C	28-Dec-17	08-Jan-18	SJR	1800083	X
7782-49-2	Selenium	< 1.86	U	mg/kg dry	1.86	0.354	1	"	"	02-Jan-18	"	1721339	X
General Chemistry Parameters													
	% Solids	79.4		%			1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720896	
Toxicity Characteristics													
	Ignitability by Definition	Negative	IgHT	N/A			1	SW846 1030	19-Dec-17 10:55	19-Dec-17 12:06	BD	1720972	X
Reactivity Cyanide/Sulfide													
	Reactivity	See Narrative		mg/kg dry			1	SW846 Ch. 7.3	22-Dec-17	28-Dec-17	TN	1721256	
57-12-5	Reactive Cyanide	< 24.4	U	mg/kg dry	24.4	24.4	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 48.7	U	mg/kg dry	48.7	48.7	1	"	"	"	"	"	

Sample Identification

SS-023

SC42525-25

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 12:40

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			BD	1720930	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)													
								Initial weight: 5.27 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 7.54	U	µg/kg dry	7.54	3.83	1	SW846 8260C	27-Dec-17	27-Dec-17	MP	1721296	X
67-64-1	Acetone	< 75.4	U	µg/kg dry	75.4	30.2	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 7.54	U	µg/kg dry	7.54	7.25	1	"	"	"	"	"	X
71-43-2	Benzene	< 7.54	U	µg/kg dry	7.54	2.00	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 7.54	U	µg/kg dry	7.54	2.01	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 7.54	U	µg/kg dry	7.54	3.81	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 7.54	U	µg/kg dry	7.54	5.03	1	"	"	"	"	"	X
75-25-2	Bromoform	< 7.54	U	µg/kg dry	7.54	7.20	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 15.1	U	µg/kg dry	15.1	6.81	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 15.1	U	µg/kg dry	15.1	13.5	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 7.54	U	µg/kg dry	7.54	2.16	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 7.54	U	µg/kg dry	7.54	1.37	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 7.54	U	µg/kg dry	7.54	1.69	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 15.1	U	µg/kg dry	15.1	4.83	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 7.54	U	µg/kg dry	7.54	6.17	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 7.54	U	µg/kg dry	7.54	2.36	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 15.1	U	µg/kg dry	15.1	4.19	1	"	"	"	"	"	X
67-66-3	Chloroform	< 7.54	U	µg/kg dry	7.54	4.05	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 15.1	U	µg/kg dry	15.1	3.12	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 7.54	U	µg/kg dry	7.54	1.88	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 7.54	U	µg/kg dry	7.54	1.77	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 15.1	U	µg/kg dry	15.1	10.9	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 7.54	U	µg/kg dry	7.54	5.12	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 7.54	U	µg/kg dry	7.54	5.06	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 7.54	U	µg/kg dry	7.54	3.92	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 7.54	U	µg/kg dry	7.54	1.96	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 7.54	U	µg/kg dry	7.54	1.64	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 7.54	U	µg/kg dry	7.54	2.23	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 15.1	U	µg/kg dry	15.1	2.86	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 7.54	U	µg/kg dry	7.54	1.98	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 7.54	U	µg/kg dry	7.54	2.70	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 7.54	U	µg/kg dry	7.54	3.95	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 7.54	U	µg/kg dry	7.54	2.80	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 7.54	U	µg/kg dry	7.54	4.00	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 7.54	U	µg/kg dry	7.54	3.95	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 7.54	U	µg/kg dry	7.54	3.91	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 7.54	U	µg/kg dry	7.54	3.56	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 7.54	U	µg/kg dry	7.54	2.43	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 7.54	U	µg/kg dry	7.54	4.55	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 7.54	U	µg/kg dry	7.54	3.96	1	"	"	"	"	"	X

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Sample Identification

SS-023

SC42525-25

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 12:40

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 5.27 g

100-41-4	Ethylbenzene	< 7.54	U	µg/kg dry	7.54	1.09	1	SW846 8260C	27-Dec-17	27-Dec-17	MP	1721296	X
87-68-3	Hexachlorobutadiene	< 7.54	U	µg/kg dry	7.54	3.79	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 15.1	U	µg/kg dry	15.1	9.26	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 7.54	U	µg/kg dry	7.54	1.49	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 7.54	U	µg/kg dry	7.54	1.62	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 7.54	U	µg/kg dry	7.54	2.78	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 15.1	U	µg/kg dry	15.1	3.88	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 15.1	U	µg/kg dry	15.1	3.00	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 7.54	U	µg/kg dry	7.54	4.49	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 7.54	U	µg/kg dry	7.54	1.22	1	"	"	"	"	"	X
100-42-5	Styrene	< 7.54	U	µg/kg dry	7.54	1.52	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 7.54	U	µg/kg dry	7.54	6.41	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 7.54	U	µg/kg dry	7.54	6.38	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 7.54	U	µg/kg dry	7.54	2.58	1	"	"	"	"	"	X
108-88-3	Toluene	< 7.54	U	µg/kg dry	7.54	2.44	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 7.54	U	µg/kg dry	7.54	2.65	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 7.54	U	µg/kg dry	7.54	5.56	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 7.54	U	µg/kg dry	7.54	2.37	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 7.54	U	µg/kg dry	7.54	2.50	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 7.54	U	µg/kg dry	7.54	5.47	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 7.54	U	µg/kg dry	7.54	2.06	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 7.54	U	µg/kg dry	7.54	4.07	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 7.54	U	µg/kg dry	7.54	5.66	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 7.54	U	µg/kg dry	7.54	1.83	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 7.54	U	µg/kg dry	7.54	1.30	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 7.54	U	µg/kg dry	7.54	2.55	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 15.1	U	µg/kg dry	15.1	1.36	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 7.54	U	µg/kg dry	7.54	2.11	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 15.1	U	µg/kg dry	15.1	11.9	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 7.54	U	µg/kg dry	7.54	6.84	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 7.54	U	µg/kg dry	7.54	2.52	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 7.54	U	µg/kg dry	7.54	4.07	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 7.54	U	µg/kg dry	7.54	1.40	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 75.4	U	µg/kg dry	75.4	49.4	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 151	U	µg/kg dry	151	131	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 37.7	U	µg/kg dry	37.7	17.2	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1510	U	µg/kg dry	1510	281	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	92		70-130 %		"	"	"	"	"	"	"	
2037-26-5	Toluene-d8	98		70-130 %		"	"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	129		70-130 %		"	"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	111		70-130 %		"	"	"	"	"	"	"	

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Sample Identification

SS-023

SC42525-25

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 12:40

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 13.69 g

Gasoline Range Organics (C6-C10)	< 8.5	U, D, GRO	mg/kg dry	8.5	1.7	50	SW846 8015D	22-Dec-17	22-Dec-17	SD	1721219	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	89		70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MSPrepared by method SW846 5035A Soil (low level)Initial weight: 5.27 g

Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	27-Dec-17	27-Dec-17	MP	1721296	

Semivolatile Organic Compounds by GCMSSemivolatile Organic CompoundsPrepared by method SW846 3546

R01

83-32-9	Acenaphthene	< 851	U, D	µg/kg dry	851	424	10	SW846 8270D	20-Dec-17	31-Dec-17	MSL	1721023	X
208-96-8	Acenaphthylene	< 851	U, D	µg/kg dry	851	420	10	"	"	"	"	"	X
62-53-3	Aniline	< 4210	U, D	µg/kg dry	4210	302	10	"	"	"	"	"	X
120-12-7	Anthracene	< 851	U, D	µg/kg dry	851	407	10	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4210	U, D	µg/kg dry	4210	414	10	"	"	"	"	"	
92-87-5	Benzidine	< 4210	U, D	µg/kg dry	4210	847	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 851	U, D	µg/kg dry	851	449	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	< 851	U, D	µg/kg dry	851	317	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 851	U, D	µg/kg dry	851	412	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 851	U, D	µg/kg dry	851	342	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	< 851	U, D	µg/kg dry	851	333	10	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4210	U, D	µg/kg dry	4210	884	10	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4210	U, D	µg/kg dry	4210	345	10	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4210	U, D	µg/kg dry	4210	374	10	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 2130	U, D	µg/kg dry	2130	305	10	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 2130	U, D	µg/kg dry	2130	328	10	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 2130	U, D	µg/kg dry	2130	526	10	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4210	U, D	µg/kg dry	4210	394	10	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4210	U, D	µg/kg dry	4210	491	10	"	"	"	"	"	X
86-74-8	Carbazole	< 2130	U, D	µg/kg dry	2130	1190	10	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4210	U, D	µg/kg dry	4210	402	10	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 2130	U, D	µg/kg dry	2130	461	10	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4210	U, D	µg/kg dry	4210	389	10	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 2130	U, D	µg/kg dry	2130	379	10	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4210	U, D	µg/kg dry	4210	500	10	"	"	"	"	"	X
218-01-9	Chrysene	< 851	U, D	µg/kg dry	851	425	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 851	U, D	µg/kg dry	851	327	10	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 2130	U, D	µg/kg dry	2130	324	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4210	U, D	µg/kg dry	4210	368	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4210	U, D	µg/kg dry	4210	368	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4210	U, D	µg/kg dry	4210	391	10	"	"	"	"	"	X

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Sample Identification

SS-023

SC42525-25

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 12:40

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
			R01										
91-94-1	3,3'-Dichlorobenzidine	< 4210	U, D	µg/kg dry	4210	641	10	SW846 8270D	20-Dec-17	31-Dec-17	MSL	1721023	X
120-83-2	2,4-Dichlorophenol	< 2130	U, D	µg/kg dry	2130	398	10	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4210	U, D	µg/kg dry	4210	521	10	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4210	U, D	µg/kg dry	4210	461	10	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4210	U, D	µg/kg dry	4210	301	10	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4210	U, D	µg/kg dry	4210	447	10	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4210	U, D	µg/kg dry	4210	541	10	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4210	U, D	µg/kg dry	4210	429	10	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 2130	U, D	µg/kg dry	2130	824	10	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 2130	U, D	µg/kg dry	2130	480	10	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 4210	U, D	µg/kg dry	4210	476	10	"	"	"	"	"	X
206-44-0	Fluoranthene	515	J, D	µg/kg dry	851	450	10	"	"	"	"	"	X
86-73-7	Fluorene	< 851	U, D	µg/kg dry	851	433	10	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 2130	U, D	µg/kg dry	2130	420	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 2130	U, D	µg/kg dry	2130	509	10	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 2130	U, D	µg/kg dry	2130	290	10	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 2130	U, D	µg/kg dry	2130	459	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 851	U, D	µg/kg dry	851	306	10	"	"	"	"	"	X
78-59-1	Isophorone	< 2130	U, D	µg/kg dry	2130	399	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 851	U, D	µg/kg dry	851	514	10	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4210	U, D	µg/kg dry	4210	358	10	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 4210	U, D	µg/kg dry	4210	407	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 851	U, D	µg/kg dry	851	397	10	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4210	U, D	µg/kg dry	4210	357	10	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4210	U, D	µg/kg dry	4210	576	10	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 2130	U, D	µg/kg dry	2130	656	10	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 2130	U, D	µg/kg dry	2130	388	10	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 2130	U, D	µg/kg dry	2130	354	10	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 16800	U, D	µg/kg dry	16800	681	10	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 2130	U, D	µg/kg dry	2130	396	10	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 2130	U, D	µg/kg dry	2130	415	10	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4210	U, D	µg/kg dry	4210	457	10	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 4210	U, D	µg/kg dry	4210	450	10	"	"	"	"	"	X
85-01-8	Phenanthrene	< 851	U, D	µg/kg dry	851	396	10	"	"	"	"	"	X
108-95-2	Phenol	< 4210	U, D	µg/kg dry	4210	277	10	"	"	"	"	"	X
129-00-0	Pyrene	476	J, D	µg/kg dry	851	475	10	"	"	"	"	"	X
110-86-1	Pyridine	< 4210	U, D	µg/kg dry	4210	628	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4210	U, D	µg/kg dry	4210	417	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 851	U, D	µg/kg dry	851	419	10	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 4210	U, D	µg/kg dry	4210	379	10	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 2130	U, D	µg/kg dry	2130	380	10	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4210	U, D	µg/kg dry	4210	665	10	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4210	U, D	µg/kg dry	4210	408	10	"	"	"	"	"	X

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Sample Identification

SS-023

SC42525-25

Client Project #

0172.0210M010

Matrix

Soil

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CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	77			30-130 %			SW846 8270D	20-Dec-17	31-Dec-17	MSL	1721023	
367-12-4	2-Fluorophenol	76			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	73			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	66			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	83			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	78			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

Tentatively Identified Compounds	0.0	U, D	µg/kg dry				10	SW846 8270D TICS	"	"	MSL	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 25.4	U	µg/kg dry	25.4	11.4	1	SW846 8082A	20-Dec-17	21-Dec-17	AM	1721007	X
11104-28-2	Aroclor-1221	< 25.4	U	µg/kg dry	25.4	13.5	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 25.4	U	µg/kg dry	25.4	12.7	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 25.4	U	µg/kg dry	25.4	25.1	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 25.4	U	µg/kg dry	25.4	23.2	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 25.4	U	µg/kg dry	25.4	16.6	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 25.4	U	µg/kg dry	25.4	13.6	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 25.4	U	µg/kg dry	25.4	22.1	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 25.4	U	µg/kg dry	25.4	11.5	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	55			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	60			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	190	S02		30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	95			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3546Methylation date: 22-Dec-17

93-76-5	2,4,5-T	< 8.57	U	µg/kg dry	8.57	4.67	1	SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	X
93-72-1	2,4,5-TP (Silvex)	< 8.57	U	µg/kg dry	8.57	3.52	1	"	"	"	"	"	X
94-75-7	2,4-D [2C]	21.3	P	µg/kg dry	8.57	3.39	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 8.57	U	µg/kg dry	8.57	6.48	1	"	"	"	"	"	X
75-99-0	Dalapon	< 8.57	U	µg/kg dry	8.57	3.42	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 8.57	U	µg/kg dry	8.57	3.49	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 8.57	U	µg/kg dry	8.57	6.26	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 8.57	U	µg/kg dry	8.57	3.48	1	"	"	"	"	"	X
94-74-6	MCPA	< 2880	U	µg/kg dry	2880	1280	1	"	"	"	"	"	X
94-81-5	MCPB	< 2880	U	µg/kg dry	2880	1280	1	"	"	"	"	"	
93-65-2	MCPB	< 2880	U	µg/kg dry	2880	1280	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	120			30-150 %			"	"	"	"	"	

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Sample Identification

SS-023

SC42525-25

Client Project #

0172.0210M010

Matrix

Soil

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14-Dec-17 12:40

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

HerbicidesChlorinated HerbicidesMethylation date: 22-Dec-17

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	135			30-150 %			SW846 8151A	22-Dec-17	05-Jan-18	SM	1721260	
2552-89-8	DCAA (Sr)	60			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	70			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 32.0	U, D	µg/kg dry	32.0	8.57	5	SW846 8081B	28-Dec-17	05-Jan-18	SM	1721358	X
319-85-7	beta-BHC	< 32.0	U, D	µg/kg dry	32.0	12.7	5	"	"	"	"	"	X
319-86-8	delta-BHC	< 32.0	U, D	µg/kg dry	32.0	9.21	5	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 19.2	U, D	µg/kg dry	19.2	9.21	5	"	"	"	"	"	X
76-44-8	Heptachlor	< 32.0	U, D	µg/kg dry	32.0	10.7	5	"	"	"	"	"	X
309-00-2	Aldrin	< 32.0	U, D	µg/kg dry	32.0	9.85	5	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 32.0	U, D	µg/kg dry	32.0	11.3	5	"	"	"	"	"	X
959-98-8	Endosulfan I	< 32.0	U, D	µg/kg dry	32.0	11.3	5	"	"	"	"	"	X
60-57-1	Dieldrin	< 32.0	U, D	µg/kg dry	32.0	11.3	5	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 32.0	U, D	µg/kg dry	32.0	10.1	5	"	"	"	"	"	X
72-20-8	Endrin	< 51.2	U, D	µg/kg dry	51.2	11.3	5	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 51.2	U, D	µg/kg dry	51.2	12.0	5	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 51.2	U, D	µg/kg dry	51.2	11.1	5	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 51.2	U, D	µg/kg dry	51.2	10.7	5	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 51.2	U, D	µg/kg dry	51.2	9.85	5	"	"	"	"	"	X
72-43-5	Methoxychlor	< 51.2	U, D	µg/kg dry	51.2	11.3	5	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 51.2	U, D	µg/kg dry	51.2	11.5	5	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 51.2	U, D	µg/kg dry	51.2	10.7	5	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 32.0	U, D	µg/kg dry	32.0	10.9	5	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 32.0	U, D	µg/kg dry	32.0	11.5	5	"	"	"	"	"	X
8001-35-2	Toxaphene	< 640	U, D	µg/kg dry	640	138	5	"	"	"	"	"	X
57-74-9	Chlordane	< 128	U, D	µg/kg dry	128	127	5	"	"	"	"	"	X
15972-60-8	Alachlor	< 32.0	U, D	µg/kg dry	32.0	15.7	5	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	160			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	157			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	152			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	170			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 168	U, D	mg/kg dry	168	112	5	8015DM	20-Dec-17	21-Dec-17	DJS	1721025	
68476-31-3	Fuel Oil #4	< 168	U, D	mg/kg dry	168	168	5	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 168	U, D	mg/kg dry	168	168	5	"	"	"	"	"	
M09800000	Motor Oil	< 168	U, D	mg/kg dry	168	168	5	"	"	"	"	"	
J00100000	Aviation Fuel	< 168	U, D	mg/kg dry	168	168	5	"	"	"	"	"	

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Sample Identification

SS-023

SC42525-25

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 12:40

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons													
Diesel Range Organics													
			R01										
	Unidentified	801	D	mg/kg dry	168	168	5	8015DM	20-Dec-17	21-Dec-17	DJS	1721025	
	Other Oil	Calculated as		mg/kg dry	168	168	5	"	"	"	"	"	
	Diesel Range Organics (DRO) C10-C28	801	D,DRO	mg/kg dry	168	112	5	"	"	"	"	"	X
Surrogate recoveries:													
3386-33-2	1-Chlorooctadecane	104			40-140 %			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-22-4	Silver	< 1.90	U	mg/kg dry	1.90	0.206	1	SW846 6010C	28-Dec-17	02-Jan-18	SJR/T	1721339	X
7440-38-2	Arsenic	14.5		mg/kg dry	1.90	0.241	1	"	"	08-Jan-18	"	1800083	X
7440-39-3	Barium	86.9		mg/kg dry	1.27	0.150	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.969		mg/kg dry	0.634	0.0329	1	"	"	02-Jan-18	"	1721339	X
7440-47-3	Chromium	12.0		mg/kg dry	1.27	0.169	1	"	"	08-Jan-18	"	1800083	X
7439-97-6	Mercury	0.632	GS1, D	mg/kg dry	0.0762	0.0211	2	SW846 7471B	03-Jan-18	04-Jan-18	ABW	1721340	X
Prepared by method SW846 3050B													
7439-92-1	Lead	64.8		mg/kg dry	1.90	0.269	1	SW846 6010C	28-Dec-17	08-Jan-18	SJR	1800083	X
7782-49-2	Selenium	0.450	J	mg/kg dry	1.90	0.363	1	"	"	02-Jan-18	"	1721339	X
General Chemistry Parameters													
	% Solids	77.7		%			1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720896	
Toxicity Characteristics													
	Ignitability by Definition	Negative	IgHT	N/A			1	SW846 1030	19-Dec-17 10:55	19-Dec-17 12:06	BD	1720972	X
Reactivity Cyanide/Sulfide													
	Reactivity	See Narrative		mg/kg dry			1	SW846 Ch. 7.3	22-Dec-17	28-Dec-17	TN	1721256	
57-12-5	Reactive Cyanide	< 24.0	U	mg/kg dry	24.0	24.0	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 48.1	U	mg/kg dry	48.1	48.1	1	"	"	"	"	"	

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Sample Identification

SS-024

SC42525-26

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 13:00

Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>
Volatile Organic Compounds													
Prepared by method Volatiles													
	VOC Extraction	Field extracted		N/A			1	VOC Soil Extraction			BD	1720930	
Volatile Organic Compounds by SW846 8260													
Prepared by method SW846 5035A Soil (low level)													
								Initial weight: 4.35 g					
76-13-1	1,1,2-Trichlorotrifluoroethane (Freon 113)	< 8.81	U	µg/kg dry	8.81	4.47	1	SW846 8260C	27-Dec-17	27-Dec-17	MP	1721296	X
67-64-1	Acetone	< 88.1	U	µg/kg dry	88.1	35.2	1	"	"	"	"	"	X
107-13-1	Acrylonitrile	< 8.81	U	µg/kg dry	8.81	8.46	1	"	"	"	"	"	X
71-43-2	Benzene	< 8.81	U	µg/kg dry	8.81	2.33	1	"	"	"	"	"	X
108-86-1	Bromobenzene	< 8.81	U	µg/kg dry	8.81	2.35	1	"	"	"	"	"	X
74-97-5	Bromochloromethane	< 8.81	U	µg/kg dry	8.81	4.45	1	"	"	"	"	"	X
75-27-4	Bromodichloromethane	< 8.81	U	µg/kg dry	8.81	5.88	1	"	"	"	"	"	X
75-25-2	Bromoform	< 8.81	U	µg/kg dry	8.81	8.40	1	"	"	"	"	"	X
74-83-9	Bromomethane	< 17.6	U	µg/kg dry	17.6	7.95	1	"	"	"	"	"	X
78-93-3	2-Butanone (MEK)	< 17.6	U	µg/kg dry	17.6	15.7	1	"	"	"	"	"	X
104-51-8	n-Butylbenzene	< 8.81	U	µg/kg dry	8.81	2.52	1	"	"	"	"	"	X
135-98-8	sec-Butylbenzene	< 8.81	U	µg/kg dry	8.81	1.60	1	"	"	"	"	"	X
98-06-6	tert-Butylbenzene	< 8.81	U	µg/kg dry	8.81	1.97	1	"	"	"	"	"	X
75-15-0	Carbon disulfide	< 17.6	U	µg/kg dry	17.6	5.64	1	"	"	"	"	"	X
56-23-5	Carbon tetrachloride	< 8.81	U	µg/kg dry	8.81	7.21	1	"	"	"	"	"	X
108-90-7	Chlorobenzene	< 8.81	U	µg/kg dry	8.81	2.76	1	"	"	"	"	"	X
75-00-3	Chloroethane	< 17.6	U	µg/kg dry	17.6	4.89	1	"	"	"	"	"	X
67-66-3	Chloroform	< 8.81	U	µg/kg dry	8.81	4.73	1	"	"	"	"	"	X
74-87-3	Chloromethane	< 17.6	U	µg/kg dry	17.6	3.64	1	"	"	"	"	"	X
95-49-8	2-Chlorotoluene	< 8.81	U	µg/kg dry	8.81	2.19	1	"	"	"	"	"	X
106-43-4	4-Chlorotoluene	< 8.81	U	µg/kg dry	8.81	2.07	1	"	"	"	"	"	X
96-12-8	1,2-Dibromo-3-chloropropane	< 17.6	U	µg/kg dry	17.6	12.7	1	"	"	"	"	"	X
124-48-1	Dibromochloromethane	< 8.81	U	µg/kg dry	8.81	5.97	1	"	"	"	"	"	X
106-93-4	1,2-Dibromoethane (EDB)	< 8.81	U	µg/kg dry	8.81	5.91	1	"	"	"	"	"	X
74-95-3	Dibromomethane	< 8.81	U	µg/kg dry	8.81	4.58	1	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 8.81	U	µg/kg dry	8.81	2.29	1	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 8.81	U	µg/kg dry	8.81	1.91	1	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 8.81	U	µg/kg dry	8.81	2.61	1	"	"	"	"	"	X
75-71-8	Dichlorodifluoromethane (Freon12)	< 17.6	U	µg/kg dry	17.6	3.34	1	"	"	"	"	"	X
75-34-3	1,1-Dichloroethane	< 8.81	U	µg/kg dry	8.81	2.31	1	"	"	"	"	"	X
107-06-2	1,2-Dichloroethane	< 8.81	U	µg/kg dry	8.81	3.15	1	"	"	"	"	"	X
75-35-4	1,1-Dichloroethene	< 8.81	U	µg/kg dry	8.81	4.61	1	"	"	"	"	"	X
156-59-2	cis-1,2-Dichloroethene	< 8.81	U	µg/kg dry	8.81	3.27	1	"	"	"	"	"	X
156-60-5	trans-1,2-Dichloroethene	< 8.81	U	µg/kg dry	8.81	4.67	1	"	"	"	"	"	X
78-87-5	1,2-Dichloropropane	< 8.81	U	µg/kg dry	8.81	4.62	1	"	"	"	"	"	X
142-28-9	1,3-Dichloropropane	< 8.81	U	µg/kg dry	8.81	4.56	1	"	"	"	"	"	X
594-20-7	2,2-Dichloropropane	< 8.81	U	µg/kg dry	8.81	4.16	1	"	"	"	"	"	X
563-58-6	1,1-Dichloropropene	< 8.81	U	µg/kg dry	8.81	2.84	1	"	"	"	"	"	X
10061-01-5	cis-1,3-Dichloropropene	< 8.81	U	µg/kg dry	8.81	5.31	1	"	"	"	"	"	X
10061-02-6	trans-1,3-Dichloropropene	< 8.81	U	µg/kg dry	8.81	4.62	1	"	"	"	"	"	X

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Sample Identification

SS-024

SC42525-26

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 13:00

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

Volatile Organic CompoundsVolatile Organic Compounds by SW846 8260

Initial weight: 4.35 g

100-41-4	Ethylbenzene	< 8.81	U	µg/kg dry	8.81	1.27	1	SW846 8260C	27-Dec-17	27-Dec-17	MP	1721296	X
87-68-3	Hexachlorobutadiene	< 8.81	U	µg/kg dry	8.81	4.42	1	"	"	"	"	"	X
591-78-6	2-Hexanone (MBK)	< 17.6	U	µg/kg dry	17.6	10.8	1	"	"	"	"	"	X
98-82-8	Isopropylbenzene	< 8.81	U	µg/kg dry	8.81	1.74	1	"	"	"	"	"	X
99-87-6	4-Isopropyltoluene	< 8.81	U	µg/kg dry	8.81	1.89	1	"	"	"	"	"	X
1634-04-4	Methyl tert-butyl ether	< 8.81	U	µg/kg dry	8.81	3.24	1	"	"	"	"	"	X
108-10-1	4-Methyl-2-pentanone (MIBK)	< 17.6	U	µg/kg dry	17.6	4.53	1	"	"	"	"	"	X
75-09-2	Methylene chloride	< 17.6	U	µg/kg dry	17.6	3.50	1	"	"	"	"	"	X
91-20-3	Naphthalene	< 8.81	U	µg/kg dry	8.81	5.24	1	"	"	"	"	"	X
103-65-1	n-Propylbenzene	< 8.81	U	µg/kg dry	8.81	1.43	1	"	"	"	"	"	X
100-42-5	Styrene	< 8.81	U	µg/kg dry	8.81	1.77	1	"	"	"	"	"	X
630-20-6	1,1,1,2-Tetrachloroethane	< 8.81	U	µg/kg dry	8.81	7.49	1	"	"	"	"	"	X
79-34-5	1,1,2,2-Tetrachloroethane	< 8.81	U	µg/kg dry	8.81	7.45	1	"	"	"	"	"	X
127-18-4	Tetrachloroethene	< 8.81	U	µg/kg dry	8.81	3.01	1	"	"	"	"	"	X
108-88-3	Toluene	< 8.81	U	µg/kg dry	8.81	2.85	1	"	"	"	"	"	X
87-61-6	1,2,3-Trichlorobenzene	< 8.81	U	µg/kg dry	8.81	3.09	1	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 8.81	U	µg/kg dry	8.81	6.49	1	"	"	"	"	"	X
108-70-3	1,3,5-Trichlorobenzene	< 8.81	U	µg/kg dry	8.81	2.77	1	"	"	"	"	"	X
71-55-6	1,1,1-Trichloroethane	< 8.81	U	µg/kg dry	8.81	2.92	1	"	"	"	"	"	X
79-00-5	1,1,2-Trichloroethane	< 8.81	U	µg/kg dry	8.81	6.39	1	"	"	"	"	"	X
79-01-6	Trichloroethene	< 8.81	U	µg/kg dry	8.81	2.40	1	"	"	"	"	"	X
75-69-4	Trichlorofluoromethane (Freon 11)	< 8.81	U	µg/kg dry	8.81	4.75	1	"	"	"	"	"	X
96-18-4	1,2,3-Trichloropropane	< 8.81	U	µg/kg dry	8.81	6.61	1	"	"	"	"	"	X
95-63-6	1,2,4-Trimethylbenzene	< 8.81	U	µg/kg dry	8.81	2.14	1	"	"	"	"	"	X
108-67-8	1,3,5-Trimethylbenzene	< 8.81	U	µg/kg dry	8.81	1.52	1	"	"	"	"	"	X
75-01-4	Vinyl chloride	< 8.81	U	µg/kg dry	8.81	2.98	1	"	"	"	"	"	X
179601-23-1	m,p-Xylene	< 17.6	U	µg/kg dry	17.6	1.59	1	"	"	"	"	"	X
95-47-6	o-Xylene	< 8.81	U	µg/kg dry	8.81	2.47	1	"	"	"	"	"	X
109-99-9	Tetrahydrofuran	< 17.6	U	µg/kg dry	17.6	13.9	1	"	"	"	"	"	X
60-29-7	Ethyl ether	< 8.81	U	µg/kg dry	8.81	7.98	1	"	"	"	"	"	X
994-05-8	Tert-amyl methyl ether	< 8.81	U	µg/kg dry	8.81	2.94	1	"	"	"	"	"	X
637-92-3	Ethyl tert-butyl ether	< 8.81	U	µg/kg dry	8.81	4.75	1	"	"	"	"	"	X
108-20-3	Di-isopropyl ether	< 8.81	U	µg/kg dry	8.81	1.64	1	"	"	"	"	"	X
75-65-0	Tert-Butanol / butyl alcohol	< 88.1	U	µg/kg dry	88.1	57.6	1	"	"	"	"	"	X
123-91-1	1,4-Dioxane	< 176	U	µg/kg dry	176	153	1	"	"	"	"	"	X
110-57-6	trans-1,4-Dichloro-2-buten e	< 44.0	U	µg/kg dry	44.0	20.1	1	"	"	"	"	"	X
64-17-5	Ethanol	< 1760	U	µg/kg dry	1760	329	1	"	"	"	"	"	X

Surrogate recoveries:

460-00-4	4-Bromofluorobenzene	96		70-130 %		"	"	"	"	"	"	"	
2037-26-5	Toluene-d8	99		70-130 %		"	"	"	"	"	"	"	
17060-07-0	1,2-Dichloroethane-d4	129		70-130 %		"	"	"	"	"	"	"	
1868-53-7	Dibromofluoromethane	111		70-130 %		"	"	"	"	"	"	"	

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Sample Identification

SS-024

SC42525-26

Client Project #

0172.0210M010

Matrix

Soil

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<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Volatile Organic CompoundsGasoline Range OrganicsPrepared by method VPH - EPA 5035A SoilInitial weight: 14.71 g

Gasoline Range Organics (C6-C10)	< 8.0	U, D, GRO	mg/kg dry	8.0	1.6	50	SW846 8015D	22-Dec-17	22-Dec-17	SD	1721219	

Surrogate recoveries:

615-59-8	2,5-Dibromotoluene (FID)	95		70-130 %			"	"	"	"	"	

Tentatively Identified Compounds by GC/MSPrepared by method SW846 5035A Soil (low level)Initial weight: 4.35 g

Tentatively Identified Compounds	None found		µg/kg dry			1	SW846 8260C TICs	27-Dec-17	27-Dec-17	MP	1721296	

Semivolatile Organic Compounds by GCMSSemivolatile Organic CompoundsPrepared by method SW846 3546

R01

83-32-9	Acenaphthene	< 854	U, D	µg/kg dry	854	425	10	SW846 8270D	20-Dec-17	31-Dec-17	MSL	1721023	X
208-96-8	Acenaphthylene	< 854	U, D	µg/kg dry	854	421	10	"	"	"	"	"	X
62-53-3	Aniline	< 4230	U, D	µg/kg dry	4230	303	10	"	"	"	"	"	X
120-12-7	Anthracene	< 854	U, D	µg/kg dry	854	408	10	"	"	"	"	"	X
103-33-3	Azobenzene/Diphenyldiazene	< 4230	U, D	µg/kg dry	4230	416	10	"	"	"	"	"	
92-87-5	Benzidine	< 4230	U, D	µg/kg dry	4230	850	10	"	"	"	"	"	X
56-55-3	Benzo (a) anthracene	< 854	U, D	µg/kg dry	854	451	10	"	"	"	"	"	X
50-32-8	Benzo (a) pyrene	337	J, D	µg/kg dry	854	318	10	"	"	"	"	"	X
205-99-2	Benzo (b) fluoranthene	< 854	U, D	µg/kg dry	854	414	10	"	"	"	"	"	X
191-24-2	Benzo (g,h,i) perylene	< 854	U, D	µg/kg dry	854	343	10	"	"	"	"	"	X
207-08-9	Benzo (k) fluoranthene	337	J, D	µg/kg dry	854	334	10	"	"	"	"	"	X
65-85-0	Benzoic acid	< 4230	U, D	µg/kg dry	4230	887	10	"	"	"	"	"	X
100-51-6	Benzyl alcohol	< 4230	U, D	µg/kg dry	4230	346	10	"	"	"	"	"	X
111-91-1	Bis(2-chloroethoxy)methane	< 4230	U, D	µg/kg dry	4230	375	10	"	"	"	"	"	X
111-44-4	Bis(2-chloroethyl)ether	< 2140	U, D	µg/kg dry	2140	306	10	"	"	"	"	"	X
108-60-1	Bis(2-chloroisopropyl)ether	< 2140	U, D	µg/kg dry	2140	329	10	"	"	"	"	"	X
117-81-7	Bis(2-ethylhexyl)phthalate	< 2140	U, D	µg/kg dry	2140	528	10	"	"	"	"	"	X
101-55-3	4-Bromophenyl phenyl ether	< 4230	U, D	µg/kg dry	4230	396	10	"	"	"	"	"	X
85-68-7	Butyl benzyl phthalate	< 4230	U, D	µg/kg dry	4230	493	10	"	"	"	"	"	X
86-74-8	Carbazole	< 2140	U, D	µg/kg dry	2140	1190	10	"	"	"	"	"	X
59-50-7	4-Chloro-3-methylphenol	< 4230	U, D	µg/kg dry	4230	403	10	"	"	"	"	"	X
106-47-8	4-Chloroaniline	< 2140	U, D	µg/kg dry	2140	462	10	"	"	"	"	"	X
91-58-7	2-Chloronaphthalene	< 4230	U, D	µg/kg dry	4230	391	10	"	"	"	"	"	X
95-57-8	2-Chlorophenol	< 2140	U, D	µg/kg dry	2140	380	10	"	"	"	"	"	X
7005-72-3	4-Chlorophenyl phenyl ether	< 4230	U, D	µg/kg dry	4230	502	10	"	"	"	"	"	X
218-01-9	Chrysene	499	J, D	µg/kg dry	854	426	10	"	"	"	"	"	X
53-70-3	Dibenzo (a,h) anthracene	< 854	U, D	µg/kg dry	854	328	10	"	"	"	"	"	X
132-64-9	Dibenzofuran	< 2140	U, D	µg/kg dry	2140	325	10	"	"	"	"	"	X
95-50-1	1,2-Dichlorobenzene	< 4230	U, D	µg/kg dry	4230	369	10	"	"	"	"	"	X
541-73-1	1,3-Dichlorobenzene	< 4230	U, D	µg/kg dry	4230	369	10	"	"	"	"	"	X
106-46-7	1,4-Dichlorobenzene	< 4230	U, D	µg/kg dry	4230	392	10	"	"	"	"	"	X

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Sample Identification

SS-024

SC42525-26

Client Project

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Matrix

Soil

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CAS No.	Analyte(s)	Result	Flag	Units	*RDL	MDL	Dilution	Method Ref.	Prepared	Analyzed	Analyst	Batch	Cert.
Semivolatile Organic Compounds by GCMS													
Semivolatile Organic Compounds													
R01													
91-94-1	3,3'-Dichlorobenzidine	< 4230	U, D	µg/kg dry	4230	643	10	SW846 8270D	20-Dec-17	31-Dec-17	MSL	1721023	X
120-83-2	2,4-Dichlorophenol	< 2140	U, D	µg/kg dry	2140	400	10	"	"	"	"	"	X
84-66-2	Diethyl phthalate	< 4230	U, D	µg/kg dry	4230	522	10	"	"	"	"	"	X
131-11-3	Dimethyl phthalate	< 4230	U, D	µg/kg dry	4230	462	10	"	"	"	"	"	X
105-67-9	2,4-Dimethylphenol	< 4230	U, D	µg/kg dry	4230	302	10	"	"	"	"	"	X
84-74-2	Di-n-butyl phthalate	< 4230	U, D	µg/kg dry	4230	448	10	"	"	"	"	"	X
534-52-1	4,6-Dinitro-2-methylphenol	< 4230	U, D	µg/kg dry	4230	543	10	"	"	"	"	"	X
51-28-5	2,4-Dinitrophenol	< 4230	U, D	µg/kg dry	4230	430	10	"	"	"	"	"	X
121-14-2	2,4-Dinitrotoluene	< 2140	U, D	µg/kg dry	2140	827	10	"	"	"	"	"	X
606-20-2	2,6-Dinitrotoluene	< 2140	U, D	µg/kg dry	2140	481	10	"	"	"	"	"	X
117-84-0	Di-n-octyl phthalate	< 4230	U, D	µg/kg dry	4230	477	10	"	"	"	"	"	X
206-44-0	Fluoranthene	986	D	µg/kg dry	854	451	10	"	"	"	"	"	X
86-73-7	Fluorene	< 854	U, D	µg/kg dry	854	434	10	"	"	"	"	"	X
118-74-1	Hexachlorobenzene	< 2140	U, D	µg/kg dry	2140	421	10	"	"	"	"	"	X
87-68-3	Hexachlorobutadiene	< 2140	U, D	µg/kg dry	2140	511	10	"	"	"	"	"	X
77-47-4	Hexachlorocyclopentadiene	< 2140	U, D	µg/kg dry	2140	291	10	"	"	"	"	"	X
67-72-1	Hexachloroethane	< 2140	U, D	µg/kg dry	2140	461	10	"	"	"	"	"	X
193-39-5	Indeno (1,2,3-cd) pyrene	< 854	U, D	µg/kg dry	854	307	10	"	"	"	"	"	X
78-59-1	Isophorone	< 2140	U, D	µg/kg dry	2140	401	10	"	"	"	"	"	X
91-57-6	2-Methylnaphthalene	< 854	U, D	µg/kg dry	854	516	10	"	"	"	"	"	X
95-48-7	2-Methylphenol	< 4230	U, D	µg/kg dry	4230	359	10	"	"	"	"	"	X
108-39-4, 106-44-5	3 & 4-Methylphenol	< 4230	U, D	µg/kg dry	4230	408	10	"	"	"	"	"	X
91-20-3	Naphthalene	< 854	U, D	µg/kg dry	854	398	10	"	"	"	"	"	X
88-74-4	2-Nitroaniline	< 4230	U, D	µg/kg dry	4230	359	10	"	"	"	"	"	X
99-09-2	3-Nitroaniline	< 4230	U, D	µg/kg dry	4230	577	10	"	"	"	"	"	X
100-01-6	4-Nitroaniline	< 2140	U, D	µg/kg dry	2140	658	10	"	"	"	"	"	X
98-95-3	Nitrobenzene	< 2140	U, D	µg/kg dry	2140	389	10	"	"	"	"	"	X
88-75-5	2-Nitrophenol	< 2140	U, D	µg/kg dry	2140	355	10	"	"	"	"	"	X
100-02-7	4-Nitrophenol	< 16900	U, D	µg/kg dry	16900	683	10	"	"	"	"	"	X
62-75-9	N-Nitrosodimethylamine	< 2140	U, D	µg/kg dry	2140	397	10	"	"	"	"	"	X
621-64-7	N-Nitrosodi-n-propylamine	< 2140	U, D	µg/kg dry	2140	416	10	"	"	"	"	"	X
86-30-6	N-Nitrosodiphenylamine	< 4230	U, D	µg/kg dry	4230	458	10	"	"	"	"	"	X
87-86-5	Pentachlorophenol	< 4230	U, D	µg/kg dry	4230	451	10	"	"	"	"	"	X
85-01-8	Phenanthrene	499	J, D	µg/kg dry	854	397	10	"	"	"	"	"	X
108-95-2	Phenol	< 4230	U, D	µg/kg dry	4230	278	10	"	"	"	"	"	X
129-00-0	Pyrene	871	D	µg/kg dry	854	476	10	"	"	"	"	"	X
110-86-1	Pyridine	< 4230	U, D	µg/kg dry	4230	630	10	"	"	"	"	"	X
120-82-1	1,2,4-Trichlorobenzene	< 4230	U, D	µg/kg dry	4230	419	10	"	"	"	"	"	X
90-12-0	1-Methylnaphthalene	< 854	U, D	µg/kg dry	854	420	10	"	"	"	"	"	X
95-95-4	2,4,5-Trichlorophenol	< 4230	U, D	µg/kg dry	4230	380	10	"	"	"	"	"	X
88-06-2	2,4,6-Trichlorophenol	< 2140	U, D	µg/kg dry	2140	381	10	"	"	"	"	"	X
82-68-8	Pentachloronitrobenzene	< 4230	U, D	µg/kg dry	4230	667	10	"	"	"	"	"	X
95-94-3	1,2,4,5-Tetrachlorobenzene	< 4230	U, D	µg/kg dry	4230	410	10	"	"	"	"	"	X

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Sample Identification

SS-024

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Matrix

Soil

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Received

18-Dec-17

<u>CAS No.</u>	<u>Analyte(s)</u>	<u>Result</u>	<u>Flag</u>	<u>Units</u>	<u>*RDL</u>	<u>MDL</u>	<u>Dilution</u>	<u>Method Ref.</u>	<u>Prepared</u>	<u>Analyzed</u>	<u>Analyst</u>	<u>Batch</u>	<u>Cert.</u>

Semivolatile Organic Compounds by GCMSSemivolatile Organic Compounds

R01

Surrogate recoveries:

321-60-8	2-Fluorobiphenyl	77			30-130 %			SW846 8270D	20-Dec-17	31-Dec-17	MSL	1721023	
367-12-4	2-Fluorophenol	61			30-130 %			"	"	"	"	"	
4165-60-0	Nitrobenzene-d5	69			30-130 %			"	"	"	"	"	
4165-62-2	Phenol-d5	63			30-130 %			"	"	"	"	"	
1718-51-0	Terphenyl-d14	95			30-130 %			"	"	"	"	"	
118-79-6	2,4,6-Tribromophenol	68			30-130 %			"	"	"	"	"	

Tentatively Identified Compounds

000541-02-6	Cyclopentasiloxane, decamet...	2,500	J N, D	µg/kg dry			10	SW846 8270D TICS	"	"	MSL	"	
000540-97-6	Cyclohexasiloxane, dodecame...	1,700	J N, D	µg/kg dry			10	"	"	"	"	"	

Semivolatile Organic Compounds by GCPolychlorinated BiphenylsPrepared by method SW846 3546

12674-11-2	Aroclor-1016	< 25.5	U	µg/kg dry	25.5	11.4	1	SW846 8082A	20-Dec-17	21-Dec-17	AM	1721007	X
11104-28-2	Aroclor-1221	< 25.5	U	µg/kg dry	25.5	13.6	1	"	"	"	"	"	X
11141-16-5	Aroclor-1232	< 25.5	U	µg/kg dry	25.5	12.8	1	"	"	"	"	"	X
53469-21-9	Aroclor-1242	< 25.5	U	µg/kg dry	25.5	25.2	1	"	"	"	"	"	X
12672-29-6	Aroclor-1248	< 25.5	U	µg/kg dry	25.5	23.3	1	"	"	"	"	"	X
11097-69-1	Aroclor-1254	< 25.5	U	µg/kg dry	25.5	16.7	1	"	"	"	"	"	X
11096-82-5	Aroclor-1260	< 25.5	U	µg/kg dry	25.5	13.7	1	"	"	"	"	"	X
37324-23-5	Aroclor-1262	< 25.5	U	µg/kg dry	25.5	22.2	1	"	"	"	"	"	X
11100-14-4	Aroclor-1268	< 25.5	U	µg/kg dry	25.5	11.5	1	"	"	"	"	"	X

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	40			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	45			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	125			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	80			30-150 %			"	"	"	"	"	

HerbicidesChlorinated HerbicidesPrepared by method SW846 3550CMethylation date: 28-Dec-17

93-76-5	2,4,5-T	< 8.59	U	µg/kg dry	8.59	4.68	1	SW846 8151A	28-Dec-17	05-Jan-18	SM	1721359	X
93-72-1	2,4,5-TP (Silvex)	< 8.59	U	µg/kg dry	8.59	3.53	1	"	"	"	"	"	X
94-75-7	2,4-D	15.4		µg/kg dry	8.59	3.05	1	"	"	"	"	"	X
94-82-6	2,4-DB	< 8.59	U	µg/kg dry	8.59	6.50	1	"	"	"	"	"	X
75-99-0	Dalapon	< 8.59	U	µg/kg dry	8.59	3.43	1	"	"	"	"	"	X
1918-00-9	Dicamba	< 8.59	U	µg/kg dry	8.59	3.50	1	"	"	"	"	"	X
120-36-5	Dichlorprop	< 8.59	U	µg/kg dry	8.59	6.28	1	"	"	"	"	"	X
88-85-7	Dinoseb	< 8.59	U	µg/kg dry	8.59	3.49	1	"	"	"	"	"	X
94-74-6	MCPA	< 2890	U	µg/kg dry	2890	1280	1	"	"	"	"	"	X
94-81-5	MCPB	< 2890	U	µg/kg dry	2890	1280	1	"	"	"	"	"	X
93-65-2	MCPB	< 2890	U	µg/kg dry	2890	1280	1	"	"	"	"	"	X

Surrogate recoveries:*This laboratory report is not valid without an authorized signature on the cover page.*

Sample Identification

SS-024

SC42525-26

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 13:00

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>

HerbicidesChlorinated HerbicidesMethylation date: 28-Dec-17

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	120			30-150 %			SW846 8151A	28-Dec-17	05-Jan-18	SM	1721359	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	120			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr)	85			30-150 %			"	"	"	"	"	
2552-89-8	DCAA (Sr) [2C]	105			30-150 %			"	"	"	"	"	

PesticidesOrganochlorine Pesticides

R01

Prepared by method SW846 3546

319-84-6	alpha-BHC	< 32.0	U, D	µg/kg dry	32.0	8.57	5	SW846 8081B	28-Dec-17	05-Jan-18	SM	1721358	X
319-85-7	beta-BHC	< 32.0	U, D	µg/kg dry	32.0	12.7	5	"	"	"	"	"	X
319-86-8	delta-BHC	< 32.0	U, D	µg/kg dry	32.0	9.20	5	"	"	"	"	"	X
58-89-9	gamma-BHC (Lindane)	< 19.2	U, D	µg/kg dry	19.2	9.20	5	"	"	"	"	"	X
76-44-8	Heptachlor	< 32.0	U, D	µg/kg dry	32.0	10.7	5	"	"	"	"	"	X
309-00-2	Aldrin	< 32.0	U, D	µg/kg dry	32.0	9.84	5	"	"	"	"	"	X
1024-57-3	Heptachlor epoxide	< 32.0	U, D	µg/kg dry	32.0	11.3	5	"	"	"	"	"	X
959-98-8	Endosulfan I	< 32.0	U, D	µg/kg dry	32.0	11.2	5	"	"	"	"	"	X
60-57-1	Dieldrin	< 32.0	U, D	µg/kg dry	32.0	11.2	5	"	"	"	"	"	X
72-55-9	4,4'-DDE (p,p')	< 32.0	U, D	µg/kg dry	32.0	10.1	5	"	"	"	"	"	X
72-20-8	Endrin	< 51.1	U, D	µg/kg dry	51.1	11.2	5	"	"	"	"	"	X
33213-65-9	Endosulfan II	< 51.1	U, D	µg/kg dry	51.1	12.0	5	"	"	"	"	"	X
72-54-8	4,4'-DDD (p,p')	< 51.1	U, D	µg/kg dry	51.1	11.1	5	"	"	"	"	"	X
1031-07-8	Endosulfan sulfate	< 51.1	U, D	µg/kg dry	51.1	10.7	5	"	"	"	"	"	X
50-29-3	4,4'-DDT (p,p')	< 51.1	U, D	µg/kg dry	51.1	9.84	5	"	"	"	"	"	X
72-43-5	Methoxychlor	< 51.1	U, D	µg/kg dry	51.1	11.3	5	"	"	"	"	"	X
53494-70-5	Endrin ketone	< 51.1	U, D	µg/kg dry	51.1	11.5	5	"	"	"	"	"	X
7421-93-4	Endrin aldehyde	< 51.1	U, D	µg/kg dry	51.1	10.7	5	"	"	"	"	"	X
5103-71-9	alpha-Chlordane	< 32.0	U, D	µg/kg dry	32.0	10.9	5	"	"	"	"	"	X
5103-74-2	Chlordane (gamma)(trans)	< 32.0	U, D	µg/kg dry	32.0	11.5	5	"	"	"	"	"	X
8001-35-2	Toxaphene	< 639	U, D	µg/kg dry	639	138	5	"	"	"	"	"	X
57-74-9	Chlordane	< 128	U, D	µg/kg dry	128	126	5	"	"	"	"	"	X
15972-60-8	Alachlor	< 32.0	U, D	µg/kg dry	32.0	15.7	5	"	"	"	"	"	

Surrogate recoveries:

10386-84-2	4,4-DB-Octafluorobiphenyl (Sr)	107			30-150 %			"	"	"	"	"	
10386-84-2	4,4-DB-Octafluorobiphenyl (Sr) [2C]	108			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr)	129			30-150 %			"	"	"	"	"	
2051-24-3	Decachlorobiphenyl (Sr) [2C]	131			30-150 %			"	"	"	"	"	

Extractable Petroleum HydrocarbonsDiesel Range Organics

R01

Prepared by method SW846 3546

68476-30-2	Fuel Oil #2	< 169	U, D	mg/kg dry	169	112	5	8015DM	20-Dec-17	21-Dec-17	DJS	1721025	
68476-31-3	Fuel Oil #4	< 169	U, D	mg/kg dry	169	169	5	"	"	"	"	"	
68553-00-4	Fuel Oil #6	< 169	U, D	mg/kg dry	169	169	5	"	"	"	"	"	
M09800000	Motor Oil	< 169	U, D	mg/kg dry	169	169	5	"	"	"	"	"	

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Sample Identification

SS-024

SC42525-26

Client Project #

0172.0210M010

Matrix

Soil

Collection Date/Time

14-Dec-17 13:00

Received

18-Dec-17

<i>CAS No.</i>	<i>Analyte(s)</i>	<i>Result</i>	<i>Flag</i>	<i>Units</i>	<i>*RDL</i>	<i>MDL</i>	<i>Dilution</i>	<i>Method Ref.</i>	<i>Prepared</i>	<i>Analyzed</i>	<i>Analyst</i>	<i>Batch</i>	<i>Cert.</i>
Extractable Petroleum Hydrocarbons													
Diesel Range Organics				R01									
J00100000	Aviation Fuel	< 169	U, D	mg/kg dry	169	169	5	8015DM	20-Dec-17	21-Dec-17	DJS	1721025	
	Unidentified	610	D	mg/kg dry	169	169	5	"	"	"	"	"	
	Other Oil	Calculated as		mg/kg dry	169	169	5	"	"	"	"	"	
	Diesel Range Organics (DRO) C10-C28	610	D,DRO	mg/kg dry	169	112	5	"	"	"	"	"	X
Surrogate recoveries:													
3386-33-2	1-Chlorooctadecane	83			40-140 %			"	"	"	"	"	
Total Metals by EPA 6000/7000 Series Methods													
Prepared by method SW846 3050B													
7440-22-4	Silver	< 1.91	U	mg/kg dry	1.91	0.206	1	SW846 6010C	28-Dec-17	02-Jan-18	SJR/T	1721339	X
7440-38-2	Arsenic	12.2		mg/kg dry	1.91	0.242	1	"	"	08-Jan-18	"	1800083	X
7440-39-3	Barium	104		mg/kg dry	1.27	0.150	1	"	"	"	"	"	X
7440-43-9	Cadmium	0.938		mg/kg dry	0.637	0.0330	1	"	"	02-Jan-18	"	1721339	X
7440-47-3	Chromium	12.2		mg/kg dry	1.27	0.169	1	"	"	08-Jan-18	"	1800083	X
7439-97-6	Mercury	1.63	GS1, D	mg/kg dry	0.345	0.0959	10	SW846 7471B	03-Jan-18	04-Jan-18	ABW	1721340	X
Prepared by method SW846 3050B													
7439-92-1	Lead	50.2		mg/kg dry	1.91	0.270	1	SW846 6010C	28-Dec-17	08-Jan-18	SJR	1800083	X
7782-49-2	Selenium	< 1.91	U	mg/kg dry	1.91	0.364	1	"	"	02-Jan-18	"	1721339	X
General Chemistry Parameters													
	% Solids	77.8		%			1	SM2540 G (11) Mod.	18-Dec-17	18-Dec-17	BD	1720896	
Toxicity Characteristics													
	Ignitability by Definition	Negative	IgHT	N/A			1	SW846 1030	19-Dec-17 10:55	19-Dec-17 12:06	BD	1720972	X
Reactivity Cyanide/Sulfide													
	Reactivity	See Narrative		mg/kg dry			1	SW846 Ch. 7.3	22-Dec-17	28-Dec-17	TN	1721256	
57-12-5	Reactive Cyanide	< 24.6	U	mg/kg dry	24.6	24.6	1	"	"	"	"	"	
18496-25-8	Reactive Sulfide	< 49.1	U	mg/kg dry	49.1	49.1	1	"	"	"	"	"	

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8015D										
Batch 1721038 - VPH - EPA 5035A Soil										
Blank (1721038-BLK1)					<u>Prepared & Analyzed: 20-Dec-17</u>					
Gasoline Range Organics (C6-C10)	< 5.0	U, D	mg/kg wet	5.0						
Surrogate: 2,5-Dibromotoluene (FID)	51.4		µg/kg		50.0		103	70-130		
LCS (1721038-BS1)					<u>Prepared & Analyzed: 20-Dec-17</u>					
Gasoline Range Organics (C6-C10)	412	D	µg/kg		500		82	70-130		
Surrogate: 2,5-Dibromotoluene (FID)	53.8		µg/kg		50.0		108	70-130		
LCS Dup (1721038-BSD1)					<u>Prepared & Analyzed: 20-Dec-17</u>					
Gasoline Range Organics (C6-C10)	467	D	µg/kg		500		93	70-130	12	25
Surrogate: 2,5-Dibromotoluene (FID)	54.5		µg/kg		50.0		109	70-130		
Duplicate (1721038-DUP1)					<u>Prepared & Analyzed: 20-Dec-17</u>					
Gasoline Range Organics (C6-C10)	4.1	J, D	mg/kg dry	6.7		3.9			3	30
Surrogate: 2,5-Dibromotoluene (FID)	51.3		µg/kg		50.0		103	70-130		
Matrix Spike (1721038-MS1)					<u>Prepared & Analyzed: 20-Dec-17</u>					
Gasoline Range Organics (C6-C10)	495	D	µg/kg		500	70.1	85	70-130		
Surrogate: 2,5-Dibromotoluene (FID)	52.3		µg/kg		50.0		105	70-130		
Matrix Spike Dup (1721038-MSD1)					<u>Prepared & Analyzed: 20-Dec-17</u>					
Gasoline Range Organics (C6-C10)	500	D	µg/kg		500	70.1	86	70-130	1	30
Surrogate: 2,5-Dibromotoluene (FID)	50.6		µg/kg		50.0		101	70-130		
Batch 1721219 - VPH - EPA 5035A Soil										
Blank (1721219-BLK1)					<u>Prepared & Analyzed: 22-Dec-17</u>					
Gasoline Range Organics (C6-C10)	< 5.0	U, D	mg/kg wet	5.0						
Surrogate: 2,5-Dibromotoluene (FID)	48.8		µg/kg		50.0		98	70-130		
LCS (1721219-BS1)					<u>Prepared & Analyzed: 22-Dec-17</u>					
Gasoline Range Organics (C6-C10)	432	D	µg/kg		500		86	70-130		
Surrogate: 2,5-Dibromotoluene (FID)	50.8		µg/kg		50.0		102	70-130		
LCS Dup (1721219-BSD1)					<u>Prepared & Analyzed: 22-Dec-17</u>					
Gasoline Range Organics (C6-C10)	472	D	µg/kg		500		94	70-130	9	25
Surrogate: 2,5-Dibromotoluene (FID)	50.8		µg/kg		50.0		102	70-130		
Duplicate (1721219-DUP1)					<u>Prepared & Analyzed: 22-Dec-17</u>					
Gasoline Range Organics (C6-C10)	< 7.1	U, D	mg/kg dry	7.1		BRL				30
Surrogate: 2,5-Dibromotoluene (FID)	48.2		µg/kg		50.0		96	70-130		
Matrix Spike (1721219-MS1)					<u>Prepared & Analyzed: 22-Dec-17</u>					
Gasoline Range Organics (C6-C10)	460	D	µg/kg		500	19.3	88	70-130		
Surrogate: 2,5-Dibromotoluene (FID)	52.7		µg/kg		50.0		105	70-130		
Matrix Spike Dup (1721219-MSD1)					<u>Prepared & Analyzed: 22-Dec-17</u>					
Gasoline Range Organics (C6-C10)	444	D	µg/kg		500	19.3	85	70-130	4	30
Surrogate: 2,5-Dibromotoluene (FID)	51.9		µg/kg		50.0		104	70-130		
SW846 8260C										
Batch 1721045 - SW846 5035A Soil (high level)										
Blank (1721045-BLK1)					<u>Prepared & Analyzed: 20-Dec-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	U, D	µg/kg wet	50.0						
Acetone	< 500	U, D	µg/kg wet	500						
Acrylonitrile	< 50.0	U, D	µg/kg wet	50.0						
Benzene	< 50.0	U, D	µg/kg wet	50.0						
Bromobenzene	< 50.0	U, D	µg/kg wet	50.0						
Bromochloromethane	< 50.0	U, D	µg/kg wet	50.0						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721045 - SW846 5035A Soil (high level)										
Blank (1721045-BLK1)					<u>Prepared & Analyzed: 20-Dec-17</u>					
Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromoform	< 50.0	U, D	µg/kg wet	50.0						
Bromomethane	< 100	U, D	µg/kg wet	100						
2-Butanone (MEK)	< 100	U, D	µg/kg wet	100						
n-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
sec-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
tert-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Carbon disulfide	< 100	U, D	µg/kg wet	100						
Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0						
Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Chloroethane	< 100	U, D	µg/kg wet	100						
Chloroform	< 50.0	U, D	µg/kg wet	50.0						
Chloromethane	< 100	U, D	µg/kg wet	100						
2-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
4-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromo-3-chloropropane	< 100	U, D	µg/kg wet	100						
Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromoethane (EDB)	< 50.0	U, D	µg/kg wet	50.0						
Dibromomethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100						
1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
2,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
Ethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Hexachlorobutadiene	< 50.0	U, D	µg/kg wet	50.0						
2-Hexanone (MBK)	< 100	U, D	µg/kg wet	100						
Isopropylbenzene	< 50.0	U, D	µg/kg wet	50.0						
4-Isopropyltoluene	< 50.0	U, D	µg/kg wet	50.0						
Methyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
4-Methyl-2-pentanone (MIBK)	< 100	U, D	µg/kg wet	100						
Methylene chloride	< 100	U, D	µg/kg wet	100						
Naphthalene	< 50.0	U, D	µg/kg wet	50.0						
n-Propylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Styrene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0						
Toluene	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1721045 - SW846 5035A Soil (high level)										
<u>Blank (1721045-BLK1)</u>					<u>Prepared & Analyzed: 20-Dec-17</u>					
1,2,4-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
Trichloroethene	< 50.0	U, D	µg/kg wet	50.0						
Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0						
m,p-Xylene	< 100	U, D	µg/kg wet	100						
o-Xylene	< 50.0	U, D	µg/kg wet	50.0						
Tetrahydrofuran	< 100	U, D	µg/kg wet	100						
Ethyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-amyl methyl ether	< 50.0	U, D	µg/kg wet	50.0						
Ethyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
Di-isopropyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-Butanol / butyl alcohol	< 500	U, D	µg/kg wet	500						
1,4-Dioxane	< 1000	U, D	µg/kg wet	1000						
trans-1,4-Dichloro-2-butene	< 250	U, D	µg/kg wet	250						
Ethanol	< 10000	U, D	µg/kg wet	10000						
<i>Surrogate: 4-Bromofluorobenzene</i>	51.5		µg/kg		50.0		103	70-130		
<i>Surrogate: Toluene-d8</i>	49.4		µg/kg		50.0		99	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	47.3		µg/kg		50.0		95	70-130		
<i>Surrogate: Dibromofluoromethane</i>	50.8		µg/kg		50.0		102	70-130		
<u>LCS (1721045-BS1)</u>					<u>Prepared & Analyzed: 20-Dec-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	23.4	D	µg/kg		20.0		117	70-130		
Acetone	20.5	D	µg/kg		20.0		102	70-130		
Acrylonitrile	17.2	D	µg/kg		20.0		86	70-130		
Benzene	20.8	D	µg/kg		20.0		104	70-130		
Bromobenzene	23.1	D	µg/kg		20.0		116	70-130		
Bromochloromethane	21.4	D	µg/kg		20.0		107	70-130		
Bromodichloromethane	19.9	D	µg/kg		20.0		100	70-130		
Bromoform	21.5	D	µg/kg		20.0		108	70-130		
Bromomethane	23.0	D	µg/kg		20.0		115	70-130		
2-Butanone (MEK)	19.4	D	µg/kg		20.0		97	70-130		
n-Butylbenzene	18.0	D	µg/kg		20.0		90	70-130		
sec-Butylbenzene	22.8	D	µg/kg		20.0		114	70-130		
tert-Butylbenzene	22.6	D	µg/kg		20.0		113	70-130		
Carbon disulfide	23.8	D	µg/kg		20.0		119	70-130		
Carbon tetrachloride	20.3	D	µg/kg		20.0		102	70-130		
Chlorobenzene	20.6	D	µg/kg		20.0		103	70-130		
Chloroethane	16.6	D	µg/kg		20.0		83	70-130		
Chloroform	18.0	D	µg/kg		20.0		90	70-130		
Chloromethane	14.0	D	µg/kg		20.0		70	70-130		
2-Chlorotoluene	23.3	D	µg/kg		20.0		116	70-130		
4-Chlorotoluene	20.4	D	µg/kg		20.0		102	70-130		
1,2-Dibromo-3-chloropropane	17.7	D	µg/kg		20.0		88	70-130		
Dibromochloromethane	21.2	D	µg/kg		20.0		106	70-130		
1,2-Dibromoethane (EDB)	22.0	D	µg/kg		20.0		110	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721045 - SW846 5035A Soil (high level)										
LCS (1721045-BS1)	Prepared & Analyzed: 20-Dec-17									
Dibromomethane	19.3	D	µg/kg		20.0		97	70-130		
1,2-Dichlorobenzene	20.1	D	µg/kg		20.0		101	70-130		
1,3-Dichlorobenzene	23.1	D	µg/kg		20.0		116	70-130		
1,4-Dichlorobenzene	18.5	D	µg/kg		20.0		92	70-130		
Dichlorodifluoromethane (Freon12)	21.0	D	µg/kg		20.0		105	70-130		
1,1-Dichloroethane	20.4	D	µg/kg		20.0		102	70-130		
1,2-Dichloroethane	17.0	D	µg/kg		20.0		85	70-130		
1,1-Dichloroethene	18.7	D	µg/kg		20.0		93	70-130		
cis-1,2-Dichloroethene	21.5	D	µg/kg		20.0		108	70-130		
trans-1,2-Dichloroethene	25.2	D	µg/kg		20.0		126	70-130		
1,2-Dichloropropane	19.1	D	µg/kg		20.0		96	70-130		
1,3-Dichloropropane	19.0	D	µg/kg		20.0		95	70-130		
2,2-Dichloropropane	19.3	D	µg/kg		20.0		96	70-130		
1,1-Dichloropropene	21.6	D	µg/kg		20.0		108	70-130		
cis-1,3-Dichloropropene	21.0	D	µg/kg		20.0		105	70-130		
trans-1,3-Dichloropropene	20.5	D	µg/kg		20.0		103	70-130		
Ethylbenzene	20.6	D	µg/kg		20.0		103	70-130		
Hexachlorobutadiene	21.6	D	µg/kg		20.0		108	70-130		
2-Hexanone (MBK)	19.9	D	µg/kg		20.0		99	70-130		
Isopropylbenzene	22.8	D	µg/kg		20.0		114	70-130		
4-Isopropyltoluene	19.4	D	µg/kg		20.0		97	70-130		
Methyl tert-butyl ether	23.3	D	µg/kg		20.0		116	70-130		
4-Methyl-2-pentanone (MIBK)	19.0	D	µg/kg		20.0		95	70-130		
Methylene chloride	19.3	D	µg/kg		20.0		96	70-130		
Naphthalene	19.7	D	µg/kg		20.0		99	70-130		
n-Propylbenzene	21.3	D	µg/kg		20.0		107	70-130		
Styrene	22.4	D	µg/kg		20.0		112	70-130		
1,1,1,2-Tetrachloroethane	21.7	D	µg/kg		20.0		108	70-130		
1,1,2,2-Tetrachloroethane	19.8	D	µg/kg		20.0		99	70-130		
Tetrachloroethene	22.6	D	µg/kg		20.0		113	70-130		
Toluene	20.8	D	µg/kg		20.0		104	70-130		
1,2,3-Trichlorobenzene	20.6	D	µg/kg		20.0		103	70-130		
1,2,4-Trichlorobenzene	21.5	D	µg/kg		20.0		108	70-130		
1,3,5-Trichlorobenzene	20.5	D	µg/kg		20.0		102	70-130		
1,1,1-Trichloroethane	19.1	D	µg/kg		20.0		96	70-130		
1,1,2-Trichloroethane	20.3	D	µg/kg		20.0		101	70-130		
Trichloroethene	20.3	D	µg/kg		20.0		101	70-130		
Trichlorofluoromethane (Freon 11)	19.4	D	µg/kg		20.0		97	70-130		
1,2,3-Trichloropropane	19.5	D	µg/kg		20.0		98	70-130		
1,2,4-Trimethylbenzene	21.7	D	µg/kg		20.0		108	70-130		
1,3,5-Trimethylbenzene	22.0	D	µg/kg		20.0		110	70-130		
Vinyl chloride	14.7	D	µg/kg		20.0		73	70-130		
m,p-Xylene	21.8	D	µg/kg		20.0		109	70-130		
o-Xylene	21.2	D	µg/kg		20.0		106	70-130		
Tetrahydrofuran	18.2	D	µg/kg		20.0		91	70-130		
Ethyl ether	18.4	D	µg/kg		20.0		92	70-130		
Tert-amyl methyl ether	17.8	D	µg/kg		20.0		89	70-130		
Ethyl tert-butyl ether	19.8	D	µg/kg		20.0		99	70-130		
Di-isopropyl ether	18.2	D	µg/kg		20.0		91	70-130		
Tert-Butanol / butyl alcohol	210	D	µg/kg		200		105	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721045 - SW846 5035A Soil (high level)										
LCS (1721045-BS1)					Prepared & Analyzed: 20-Dec-17					
1,4-Dioxane	198	D	µg/kg		200		99	70-130		
trans-1,4-Dichloro-2-butene	18.8	D	µg/kg		20.0		94	70-130		
Ethanol	386	D	µg/kg		400		97	70-130		
Surrogate: 4-Bromofluorobenzene	55.9		µg/kg		50.0		112	70-130		
Surrogate: Toluene-d8	50.6		µg/kg		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	41.6		µg/kg		50.0		83	70-130		
Surrogate: Dibromofluoromethane	44.8		µg/kg		50.0		90	70-130		
LCS Dup (1721045-BS1)					Prepared & Analyzed: 20-Dec-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	20.9	D	µg/kg		20.0		105	70-130	11	30
Acetone	20.6	D	µg/kg		20.0		103	70-130	0.6	30
Acrylonitrile	20.4	D	µg/kg		20.0		102	70-130	17	30
Benzene	21.0	D	µg/kg		20.0		105	70-130	1	30
Bromobenzene	22.3	D	µg/kg		20.0		111	70-130	4	30
Bromochloromethane	25.0	D	µg/kg		20.0		125	70-130	16	30
Bromodichloromethane	21.3	D	µg/kg		20.0		107	70-130	7	30
Bromoform	22.9	D	µg/kg		20.0		115	70-130	6	30
Bromomethane	25.3	D	µg/kg		20.0		127	70-130	9	30
2-Butanone (MEK)	24.5	D	µg/kg		20.0		123	70-130	23	30
n-Butylbenzene	17.7	D	µg/kg		20.0		89	70-130	2	30
sec-Butylbenzene	20.8	D	µg/kg		20.0		104	70-130	9	30
tert-Butylbenzene	22.2	D	µg/kg		20.0		111	70-130	2	30
Carbon disulfide	23.0	D	µg/kg		20.0		115	70-130	3	30
Carbon tetrachloride	20.9	D	µg/kg		20.0		104	70-130	3	30
Chlorobenzene	20.8	D	µg/kg		20.0		104	70-130	0.9	30
Chloroethane	17.9	D	µg/kg		20.0		89	70-130	8	30
Chloroform	20.7	D	µg/kg		20.0		104	70-130	14	30
Chloromethane	15.2	D	µg/kg		20.0		76	70-130	8	30
2-Chlorotoluene	22.4	D	µg/kg		20.0		112	70-130	4	30
4-Chlorotoluene	20.5	D	µg/kg		20.0		102	70-130	0.6	30
1,2-Dibromo-3-chloropropane	19.4	D	µg/kg		20.0		97	70-130	9	30
Dibromochloromethane	23.1	D	µg/kg		20.0		115	70-130	9	30
1,2-Dibromoethane (EDB)	24.8	D	µg/kg		20.0		124	70-130	12	30
Dibromomethane	21.4	D	µg/kg		20.0		107	70-130	10	30
1,2-Dichlorobenzene	21.0	D	µg/kg		20.0		105	70-130	4	30
1,3-Dichlorobenzene	22.2	D	µg/kg		20.0		111	70-130	4	30
1,4-Dichlorobenzene	19.5	D	µg/kg		20.0		98	70-130	6	30
Dichlorodifluoromethane (Freon12)	22.2	D	µg/kg		20.0		111	70-130	5	30
1,1-Dichloroethane	25.2	D	µg/kg		20.0		126	70-130	21	30
1,2-Dichloroethane	19.6	D	µg/kg		20.0		98	70-130	14	30
1,1-Dichloroethene	19.7	D	µg/kg		20.0		99	70-130	5	30
cis-1,2-Dichloroethene	25.6	D	µg/kg		20.0		128	70-130	17	30
trans-1,2-Dichloroethene	27.6	QM9, D	µg/kg		20.0		138	70-130	9	30
1,2-Dichloropropane	20.6	D	µg/kg		20.0		103	70-130	7	30
1,3-Dichloropropane	20.9	D	µg/kg		20.0		105	70-130	10	30
2,2-Dichloropropane	20.8	D	µg/kg		20.0		104	70-130	8	30
1,1-Dichloropropene	22.3	D	µg/kg		20.0		112	70-130	3	30
cis-1,3-Dichloropropene	22.2	D	µg/kg		20.0		111	70-130	5	30
trans-1,3-Dichloropropene	21.6	D	µg/kg		20.0		108	70-130	5	30
Ethylbenzene	21.0	D	µg/kg		20.0		105	70-130	2	30
Hexachlorobutadiene	21.1	D	µg/kg		20.0		105	70-130	2	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721045 - SW846 5035A Soil (high level)										
<u>LCS Dup (1721045-BSD1)</u>					<u>Prepared & Analyzed: 20-Dec-17</u>					
2-Hexanone (MBK)	22.4	D	µg/kg		20.0		112	70-130	12	30
Isopropylbenzene	22.0	D	µg/kg		20.0		110	70-130	4	30
4-Isopropyltoluene	19.5	D	µg/kg		20.0		97	70-130	0.4	30
Methyl tert-butyl ether	28.5	QM9, D	µg/kg		20.0		142	70-130	20	30
4-Methyl-2-pentanone (MIBK)	22.2	D	µg/kg		20.0		111	70-130	15	30
Methylene chloride	19.8	D	µg/kg		20.0		99	70-130	3	30
Naphthalene	20.0	D	µg/kg		20.0		100	70-130	1	30
n-Propylbenzene	20.5	D	µg/kg		20.0		103	70-130	4	30
Styrene	22.4	D	µg/kg		20.0		112	70-130	0	30
1,1,1,2-Tetrachloroethane	22.5	D	µg/kg		20.0		112	70-130	4	30
1,1,2,2-Tetrachloroethane	21.2	D	µg/kg		20.0		106	70-130	7	30
Tetrachloroethene	23.6	D	µg/kg		20.0		118	70-130	4	30
Toluene	21.5	D	µg/kg		20.0		108	70-130	3	30
1,2,3-Trichlorobenzene	20.4	D	µg/kg		20.0		102	70-130	1	30
1,2,4-Trichlorobenzene	20.5	D	µg/kg		20.0		103	70-130	5	30
1,3,5-Trichlorobenzene	20.4	D	µg/kg		20.0		102	70-130	0.5	30
1,1,1-Trichloroethane	20.7	D	µg/kg		20.0		104	70-130	8	30
1,1,2-Trichloroethane	21.8	D	µg/kg		20.0		109	70-130	7	30
Trichloroethene	21.4	D	µg/kg		20.0		107	70-130	5	30
Trichlorofluoromethane (Freon 11)	20.6	D	µg/kg		20.0		103	70-130	6	30
1,2,3-Trichloropropane	20.9	D	µg/kg		20.0		104	70-130	7	30
1,2,4-Trimethylbenzene	20.9	D	µg/kg		20.0		105	70-130	4	30
1,3,5-Trimethylbenzene	21.3	D	µg/kg		20.0		107	70-130	3	30
Vinyl chloride	15.6	D	µg/kg		20.0		78	70-130	6	30
m,p-Xylene	21.2	D	µg/kg		20.0		106	70-130	2	30
o-Xylene	21.0	D	µg/kg		20.0		105	70-130	0.8	30
Tetrahydrofuran	21.7	D	µg/kg		20.0		108	70-130	18	30
Ethyl ether	20.3	D	µg/kg		20.0		102	70-130	10	30
Tert-amyl methyl ether	19.1	D	µg/kg		20.0		96	70-130	7	30
Ethyl tert-butyl ether	22.6	D	µg/kg		20.0		113	70-130	13	30
Di-isopropyl ether	23.4	D	µg/kg		20.0		117	70-130	25	30
Tert-Butanol / butyl alcohol	237	D	µg/kg		200		119	70-130	12	30
1,4-Dioxane	236	D	µg/kg		200		118	70-130	18	30
trans-1,4-Dichloro-2-butene	21.8	D	µg/kg		20.0		109	70-130	15	30
Ethanol	398	D	µg/kg		400		99	70-130	3	30
Surrogate: 4-Bromofluorobenzene	53.5		µg/kg		50.0		107	70-130		
Surrogate: Toluene-d8	52.7		µg/kg		50.0		105	70-130		
Surrogate: 1,2-Dichloroethane-d4	46.4		µg/kg		50.0		93	70-130		
Surrogate: Dibromofluoromethane	49.9		µg/kg		50.0		100	70-130		
<u>Matrix Spike (1721045-MS1)</u>					<u>Source: SC42525-11</u>		<u>Prepared & Analyzed: 20-Dec-17</u>			
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.5	D	µg/kg		20.0	0.00	107	70-130		
Acetone	20.6	D	µg/kg		20.0	0.00	103	70-130		
Acrylonitrile	17.8	D	µg/kg		20.0	0.00	89	70-130		
Benzene	21.3	D	µg/kg		20.0	0.82	102	70-130		
Bromobenzene	23.0	D	µg/kg		20.0	0.00	115	70-130		
Bromochloromethane	22.0	D	µg/kg		20.0	0.00	110	70-130		
Bromodichloromethane	19.2	D	µg/kg		20.0	0.00	96	70-130		
Bromoform	20.9	D	µg/kg		20.0	0.00	105	70-130		
Bromomethane	6.33	QM7, D	µg/kg		20.0	0.00	32	70-130		
2-Butanone (MEK)	19.9	D	µg/kg		20.0	0.00	100	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721045 - SW846 5035A Soil (high level)										
Matrix Spike (1721045-MS1)				Source: SC42525-11			Prepared & Analyzed: 20-Dec-17			
n-Butylbenzene	18.8	D	µg/kg		20.0	0.65	91	70-130		
sec-Butylbenzene	20.6	D	µg/kg		20.0	0.57	100	70-130		
tert-Butylbenzene	21.6	D	µg/kg		20.0	0.00	108	70-130		
Carbon disulfide	20.8	D	µg/kg		20.0	0.00	104	70-130		
Carbon tetrachloride	19.7	D	µg/kg		20.0	0.00	98	70-130		
Chlorobenzene	20.4	D	µg/kg		20.0	0.00	102	70-130		
Chloroethane	6.19	QM7, D	µg/kg		20.0	0.00	31	70-130		
Chloroform	19.0	D	µg/kg		20.0	0.00	95	70-130		
Chloromethane	16.5	D	µg/kg		20.0	0.00	83	70-130		
2-Chlorotoluene	22.6	D	µg/kg		20.0	0.00	113	70-130		
4-Chlorotoluene	20.7	D	µg/kg		20.0	0.00	104	70-130		
1,2-Dibromo-3-chloropropane	16.9	D	µg/kg		20.0	0.00	85	70-130		
Dibromochloromethane	20.2	D	µg/kg		20.0	0.00	101	70-130		
1,2-Dibromoethane (EDB)	22.2	D	µg/kg		20.0	0.00	111	70-130		
Dibromomethane	19.7	D	µg/kg		20.0	0.00	99	70-130		
1,2-Dichlorobenzene	20.5	D	µg/kg		20.0	0.00	102	70-130		
1,3-Dichlorobenzene	22.5	D	µg/kg		20.0	0.00	112	70-130		
1,4-Dichlorobenzene	18.8	D	µg/kg		20.0	0.00	94	70-130		
Dichlorodifluoromethane (Freon12)	22.2	D	µg/kg		20.0	0.00	111	70-130		
1,1-Dichloroethane	19.1	D	µg/kg		20.0	0.00	96	70-130		
1,2-Dichloroethane	19.0	D	µg/kg		20.0	0.00	95	70-130		
1,1-Dichloroethene	19.3	D	µg/kg		20.0	0.00	97	70-130		
cis-1,2-Dichloroethene	22.7	D	µg/kg		20.0	0.00	114	70-130		
trans-1,2-Dichloroethene	27.6	QM7, D	µg/kg		20.0	0.00	138	70-130		
1,2-Dichloropropane	18.7	D	µg/kg		20.0	0.00	93	70-130		
1,3-Dichloropropane	19.3	D	µg/kg		20.0	0.00	97	70-130		
2,2-Dichloropropane	20.8	D	µg/kg		20.0	0.00	104	70-130		
1,1-Dichloropropene	20.7	D	µg/kg		20.0	0.00	104	70-130		
cis-1,3-Dichloropropene	19.7	D	µg/kg		20.0	0.00	98	70-130		
trans-1,3-Dichloropropene	20.1	D	µg/kg		20.0	0.00	101	70-130		
Ethylbenzene	20.6	D	µg/kg		20.0	0.89	99	70-130		
Hexachlorobutadiene	24.7	D	µg/kg		20.0	0.00	124	70-130		
2-Hexanone (MBK)	19.0	D	µg/kg		20.0	0.00	95	70-130		
Isopropylbenzene	20.4	D	µg/kg		20.0	0.38	100	70-130		
4-Isopropyltoluene	19.2	D	µg/kg		20.0	0.46	94	70-130		
Methyl tert-butyl ether	22.0	D	µg/kg		20.0	0.54	108	70-130		
4-Methyl-2-pentanone (MIBK)	18.9	D	µg/kg		20.0	0.00	94	70-130		
Methylene chloride	19.4	D	µg/kg		20.0	0.00	97	70-130		
Naphthalene	24.2	D	µg/kg		20.0	3.03	106	70-130		
n-Propylbenzene	20.0	D	µg/kg		20.0	0.69	97	70-130		
Styrene	21.5	D	µg/kg		20.0	0.00	107	70-130		
1,1,1,2-Tetrachloroethane	21.1	D	µg/kg		20.0	0.00	105	70-130		
1,1,2,2-Tetrachloroethane	20.4	D	µg/kg		20.0	0.00	102	70-130		
Tetrachloroethene	22.0	D	µg/kg		20.0	0.00	110	70-130		
Toluene	22.1	D	µg/kg		20.0	2.19	99	70-130		
1,2,3-Trichlorobenzene	22.4	D	µg/kg		20.0	0.00	112	70-130		
1,2,4-Trichlorobenzene	23.9	D	µg/kg		20.0	0.00	120	70-130		
1,3,5-Trichlorobenzene	22.9	D	µg/kg		20.0	0.00	114	70-130		
1,1,1-Trichloroethane	20.1	D	µg/kg		20.0	0.00	101	70-130		
1,1,2-Trichloroethane	20.0	D	µg/kg		20.0	0.00	100	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721045 - SW846 5035A Soil (high level)										
Matrix Spike (1721045-MS1)	Source: SC42525-11				Prepared & Analyzed: 20-Dec-17					
Trichloroethene	20.9	D	µg/kg		20.0	0.00	105	70-130		
Trichlorofluoromethane (Freon 11)	19.2	D	µg/kg		20.0	0.00	96	70-130		
1,2,3-Trichloropropane	20.3	D	µg/kg		20.0	0.00	102	70-130		
1,2,4-Trimethylbenzene	23.8	D	µg/kg		20.0	2.24	108	70-130		
1,3,5-Trimethylbenzene	22.3	D	µg/kg		20.0	1.27	105	70-130		
Vinyl chloride	5.02	QM7, D	µg/kg		20.0	0.00	25	70-130		
m,p-Xylene	26.1	D	µg/kg		20.0	4.91	106	70-130		
o-Xylene	21.4	D	µg/kg		20.0	1.14	101	70-130		
Tetrahydrofuran	18.2	D	µg/kg		20.0	0.00	91	70-130		
Ethyl ether	19.4	D	µg/kg		20.0	0.00	97	70-130		
Tert-amyl methyl ether	18.8	D	µg/kg		20.0	0.00	94	70-130		
Ethyl tert-butyl ether	20.9	D	µg/kg		20.0	0.00	104	70-130		
Di-isopropyl ether	18.9	D	µg/kg		20.0	0.00	95	70-130		
Tert-Butanol / butyl alcohol	193	D	µg/kg		200	0.00	97	70-130		
1,4-Dioxane	151	D	µg/kg		200	0.00	76	70-130		
trans-1,4-Dichloro-2-butene	20.3	D	µg/kg		20.0	0.00	102	70-130		
Ethanol	267	QM7, D	µg/kg		400	88.1	45	70-130		
Surrogate: 4-Bromofluorobenzene	53.4		µg/kg		50.0		107	70-130		
Surrogate: Toluene-d8	50.0		µg/kg		50.0		100	70-130		
Surrogate: 1,2-Dichloroethane-d4	47.8		µg/kg		50.0		96	70-130		
Surrogate: Dibromofluoromethane	48.5		µg/kg		50.0		97	70-130		
Matrix Spike Dup (1721045-MSD1)	Source: SC42525-11				Prepared & Analyzed: 20-Dec-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	25.7	D	µg/kg		20.0	0.00	129	70-130		30
Acetone	27.1	QM7, D	µg/kg		20.0	0.00	135	70-130		30
Acrylonitrile	23.6	D	µg/kg		20.0	0.00	118	70-130		30
Benzene	22.3	D	µg/kg		20.0	0.82	107	70-130	4	30
Bromobenzene	25.5	D	µg/kg		20.0	0.00	127	70-130	10	30
Bromochloromethane	23.3	D	µg/kg		20.0	0.00	117	70-130		30
Bromodichloromethane	20.2	D	µg/kg		20.0	0.00	101	70-130		30
Bromoform	21.3	D	µg/kg		20.0	0.00	106	70-130		30
Bromomethane	4.81	QM7, D	µg/kg		20.0	0.00	24	70-130		30
2-Butanone (MEK)	20.1	D	µg/kg		20.0	0.00	101	70-130		30
n-Butylbenzene	21.1	D	µg/kg		20.0	0.65	102	70-130		30
sec-Butylbenzene	23.4	D	µg/kg		20.0	0.57	114	70-130	13	30
tert-Butylbenzene	24.1	D	µg/kg		20.0	0.00	120	70-130	11	30
Carbon disulfide	24.9	D	µg/kg		20.0	0.00	124	70-130		30
Carbon tetrachloride	20.8	D	µg/kg		20.0	0.00	104	70-130		30
Chlorobenzene	21.1	D	µg/kg		20.0	0.00	105	70-130		30
Chloroethane	4.83	QM7, D	µg/kg		20.0	0.00	24	70-130		30
Chloroform	19.5	D	µg/kg		20.0	0.00	97	70-130		30
Chloromethane	18.2	D	µg/kg		20.0	0.00	91	70-130		30
2-Chlorotoluene	24.5	D	µg/kg		20.0	0.00	122	70-130	8	30
4-Chlorotoluene	22.9	D	µg/kg		20.0	0.00	115	70-130	10	30
1,2-Dibromo-3-chloropropane	17.9	D	µg/kg		20.0	0.00	89	70-130		30
Dibromochloromethane	21.3	D	µg/kg		20.0	0.00	106	70-130		30
1,2-Dibromoethane (EDB)	23.3	D	µg/kg		20.0	0.00	116	70-130		30
Dibromomethane	20.8	D	µg/kg		20.0	0.00	104	70-130		30
1,2-Dichlorobenzene	21.9	D	µg/kg		20.0	0.00	110	70-130	7	30
1,3-Dichlorobenzene	24.4	D	µg/kg		20.0	0.00	122	70-130	8	30
1,4-Dichlorobenzene	19.9	D	µg/kg		20.0	0.00	99	70-130		30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721045 - SW846 5035A Soil (high level)										
Matrix Spike Dup (1721045-MSD1)	Source: SC42525-11				Prepared & Analyzed: 20-Dec-17					
Dichlorodifluoromethane (Freon12)	22.9	D	µg/kg		20.0	0.00	114	70-130		30
1,1-Dichloroethane	19.1	D	µg/kg		20.0	0.00	95	70-130	0.2	30
1,2-Dichloroethane	19.5	D	µg/kg		20.0	0.00	98	70-130		30
1,1-Dichloroethene	20.1	D	µg/kg		20.0	0.00	100	70-130		30
cis-1,2-Dichloroethene	23.0	D	µg/kg		20.0	0.00	115	70-130		30
trans-1,2-Dichloroethene	22.0	D	µg/kg		20.0	0.00	110	70-130		30
1,2-Dichloropropane	19.4	D	µg/kg		20.0	0.00	97	70-130		30
1,3-Dichloropropane	21.2	D	µg/kg		20.0	0.00	106	70-130		30
2,2-Dichloropropane	21.1	D	µg/kg		20.0	0.00	105	70-130		30
1,1-Dichloropropene	22.5	D	µg/kg		20.0	0.00	112	70-130		30
cis-1,3-Dichloropropene	21.2	D	µg/kg		20.0	0.00	106	70-130		30
trans-1,3-Dichloropropene	22.6	D	µg/kg		20.0	0.00	113	70-130		30
Ethylbenzene	21.5	D	µg/kg		20.0	0.89	103	70-130	4	30
Hexachlorobutadiene	26.2	QM7, D	µg/kg		20.0	0.00	131	70-130		30
2-Hexanone (MBK)	20.7	D	µg/kg		20.0	0.00	104	70-130		30
Isopropylbenzene	22.9	D	µg/kg		20.0	0.38	113	70-130	12	30
4-Isopropyltoluene	22.1	D	µg/kg		20.0	0.46	108	70-130	14	30
Methyl tert-butyl ether	22.4	D	µg/kg		20.0	0.54	109	70-130		30
4-Methyl-2-pentanone (MIBK)	20.1	D	µg/kg		20.0	0.00	101	70-130		30
Methylene chloride	25.0	D	µg/kg		20.0	0.00	125	70-130		30
Naphthalene	25.1	D	µg/kg		20.0	3.03	110	70-130		30
n-Propylbenzene	23.3	D	µg/kg		20.0	0.69	113	70-130	15	30
Styrene	23.1	D	µg/kg		20.0	0.00	116	70-130	7	30
1,1,1,2-Tetrachloroethane	22.0	D	µg/kg		20.0	0.00	110	70-130		30
1,1,2,2-Tetrachloroethane	21.8	D	µg/kg		20.0	0.00	109	70-130		30
Tetrachloroethene	23.7	D	µg/kg		20.0	0.00	119	70-130		30
Toluene	24.2	D	µg/kg		20.0	2.19	110	70-130	9	30
1,2,3-Trichlorobenzene	22.5	D	µg/kg		20.0	0.00	112	70-130		30
1,2,4-Trichlorobenzene	25.2	D	µg/kg		20.0	0.00	126	70-130		30
1,3,5-Trichlorobenzene	26.1	QM7, D	µg/kg		20.0	0.00	131	70-130	13	30
1,1,1-Trichloroethane	20.8	D	µg/kg		20.0	0.00	104	70-130		30
1,1,2-Trichloroethane	22.0	D	µg/kg		20.0	0.00	110	70-130		30
Trichloroethene	21.2	D	µg/kg		20.0	0.00	106	70-130	1	30
Trichlorofluoromethane (Freon 11)	20.1	D	µg/kg		20.0	0.00	101	70-130		30
1,2,3-Trichloropropane	22.7	D	µg/kg		20.0	0.00	114	70-130		30
1,2,4-Trimethylbenzene	26.8	D	µg/kg		20.0	2.24	123	70-130	12	30
1,3,5-Trimethylbenzene	25.0	D	µg/kg		20.0	1.27	119	70-130	12	30
Vinyl chloride	4.92	QM7, D	µg/kg		20.0	0.00	25	70-130		30
m,p-Xylene	28.4	D	µg/kg		20.0	4.91	117	70-130	8	30
o-Xylene	23.4	D	µg/kg		20.0	1.14	111	70-130	9	30
Tetrahydrofuran	19.2	D	µg/kg		20.0	0.00	96	70-130		30
Ethyl ether	20.6	D	µg/kg		20.0	0.00	103	70-130		30
Tert-amyl methyl ether	19.3	D	µg/kg		20.0	0.00	96	70-130		30
Ethyl tert-butyl ether	21.9	D	µg/kg		20.0	0.00	110	70-130		30
Di-isopropyl ether	19.6	D	µg/kg		20.0	0.00	98	70-130	4	30
Tert-Butanol / butyl alcohol	216	D	µg/kg		200	0.00	108	70-130		30
1,4-Dioxane	224	D	µg/kg		200	0.00	112	70-130		30
trans-1,4-Dichloro-2-butene	21.1	D	µg/kg		20.0	0.00	106	70-130		30
Ethanol	273	QM7, D	µg/kg		400	88.1	46	70-130		30
Surrogate: 4-Bromofluorobenzene	55.4		µg/kg		50.0		111	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721045 - SW846 5035A Soil (high level)										
Matrix Spike Dup (1721045-MSD1)			Source: SC42525-11			Prepared & Analyzed: 20-Dec-17				
Surrogate: Toluene-d8	52.1		µg/kg		50.0		104	70-130		
Surrogate: 1,2-Dichloroethane-d4	47.1		µg/kg		50.0		94	70-130		
Surrogate: Dibromofluoromethane	48.9		µg/kg		50.0		98	70-130		
Batch 1721132 - SW846 5035A Soil (low level)										
Blank (1721132-BLK1)			Prepared & Analyzed: 21-Dec-17							
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00						
Acetone	< 50.0	U	µg/kg wet	50.0						
Acrylonitrile	< 5.00	U	µg/kg wet	5.00						
Benzene	< 5.00	U	µg/kg wet	5.00						
Bromobenzene	< 5.00	U	µg/kg wet	5.00						
Bromochloromethane	< 5.00	U	µg/kg wet	5.00						
Bromodichloromethane	< 5.00	U	µg/kg wet	5.00						
Bromoform	< 5.00	U	µg/kg wet	5.00						
Bromomethane	< 10.0	U	µg/kg wet	10.0						
2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0						
n-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
Carbon disulfide	< 10.0	U	µg/kg wet	10.0						
Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00						
Chlorobenzene	< 5.00	U	µg/kg wet	5.00						
Chloroethane	< 10.0	U	µg/kg wet	10.0						
Chloroform	< 5.00	U	µg/kg wet	5.00						
Chloromethane	< 10.0	U	µg/kg wet	10.0						
2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0						
Dibromochloromethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00						
Dibromomethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0						
1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
Ethylbenzene	< 5.00	U	µg/kg wet	5.00						
Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00						
2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0						
Isopropylbenzene	< 5.00	U	µg/kg wet	5.00						
4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1721132 - SW846 5035A Soil (low level)										
<u>Blank (1721132-BLK1)</u>					<u>Prepared & Analyzed: 21-Dec-17</u>					
Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0						
Methylene chloride	< 10.0	U	µg/kg wet	10.0						
Naphthalene	< 5.00	U	µg/kg wet	5.00						
n-Propylbenzene	< 5.00	U	µg/kg wet	5.00						
Styrene	< 5.00	U	µg/kg wet	5.00						
1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
Tetrachloroethene	< 5.00	U	µg/kg wet	5.00						
Toluene	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
Trichloroethene	< 5.00	U	µg/kg wet	5.00						
Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
Vinyl chloride	< 5.00	U	µg/kg wet	5.00						
m,p-Xylene	< 10.0	U	µg/kg wet	10.0						
o-Xylene	< 5.00	U	µg/kg wet	5.00						
Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0						
Ethyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00						
Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0						
1,4-Dioxane	< 100	U	µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0						
Ethanol	< 1000	U	µg/kg wet	1000						
Surrogate: 4-Bromofluorobenzene	47.0		µg/kg		50.0		94	70-130		
Surrogate: Toluene-d8	49.4		µg/kg		50.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	62.6		µg/kg		50.0		125	70-130		
Surrogate: Dibromofluoromethane	53.6		µg/kg		50.0		107	70-130		
<u>LCS (1721132-BS1)</u>					<u>Prepared & Analyzed: 21-Dec-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	17.4		µg/kg		20.0		87	70-130		
Acetone	14.9		µg/kg		20.0		74	70-130		
Acrylonitrile	15.4		µg/kg		20.0		77	70-130		
Benzene	18.7		µg/kg		20.0		94	70-130		
Bromobenzene	20.6		µg/kg		20.0		103	70-130		
Bromochloromethane	19.4		µg/kg		20.0		97	70-130		
Bromodichloromethane	19.3		µg/kg		20.0		97	70-130		
Bromoform	19.3		µg/kg		20.0		96	70-130		
Bromomethane	20.5		µg/kg		20.0		102	70-130		
2-Butanone (MEK)	21.2		µg/kg		20.0		106	70-130		
n-Butylbenzene	17.5		µg/kg		20.0		87	70-130		
sec-Butylbenzene	20.8		µg/kg		20.0		104	70-130		
tert-Butylbenzene	19.5		µg/kg		20.0		97	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721132 - SW846 5035A Soil (low level)										
LCS (1721132-BS1)					Prepared & Analyzed: 21-Dec-17					
Carbon disulfide	17.5		µg/kg		20.0		87	70-130		
Carbon tetrachloride	18.5		µg/kg		20.0		92	70-130		
Chlorobenzene	19.1		µg/kg		20.0		96	70-130		
Chloroethane	19.9		µg/kg		20.0		100	70-130		
Chloroform	18.5		µg/kg		20.0		93	70-130		
Chloromethane	18.0		µg/kg		20.0		90	70-130		
2-Chlorotoluene	22.6		µg/kg		20.0		113	70-130		
4-Chlorotoluene	22.2		µg/kg		20.0		111	70-130		
1,2-Dibromo-3-chloropropane	18.4		µg/kg		20.0		92	70-130		
Dibromochloromethane	18.0		µg/kg		20.0		90	70-130		
1,2-Dibromoethane (EDB)	18.8		µg/kg		20.0		94	70-130		
Dibromomethane	19.9		µg/kg		20.0		99	70-130		
1,2-Dichlorobenzene	19.7		µg/kg		20.0		98	70-130		
1,3-Dichlorobenzene	22.7		µg/kg		20.0		113	70-130		
1,4-Dichlorobenzene	19.1		µg/kg		20.0		96	70-130		
Dichlorodifluoromethane (Freon12)	19.5		µg/kg		20.0		98	70-130		
1,1-Dichloroethane	18.2		µg/kg		20.0		91	70-130		
1,2-Dichloroethane	18.5		µg/kg		20.0		93	70-130		
1,1-Dichloroethene	17.1		µg/kg		20.0		86	70-130		
cis-1,2-Dichloroethene	19.2		µg/kg		20.0		96	70-130		
trans-1,2-Dichloroethene	17.7		µg/kg		20.0		89	70-130		
1,2-Dichloropropane	18.8		µg/kg		20.0		94	70-130		
1,3-Dichloropropane	19.7		µg/kg		20.0		98	70-130		
2,2-Dichloropropane	16.3		µg/kg		20.0		82	70-130		
1,1-Dichloropropene	16.5		µg/kg		20.0		82	70-130		
cis-1,3-Dichloropropene	16.1		µg/kg		20.0		81	70-130		
trans-1,3-Dichloropropene	16.5		µg/kg		20.0		83	70-130		
Ethylbenzene	18.9		µg/kg		20.0		94	70-130		
Hexachlorobutadiene	18.4		µg/kg		20.0		92	70-130		
2-Hexanone (MBK)	14.3		µg/kg		20.0		72	70-130		
Isopropylbenzene	19.7		µg/kg		20.0		98	70-130		
4-Isopropyltoluene	18.7		µg/kg		20.0		94	70-130		
Methyl tert-butyl ether	18.1		µg/kg		20.0		90	70-130		
4-Methyl-2-pentanone (MIBK)	16.3		µg/kg		20.0		81	70-130		
Methylene chloride	21.3		µg/kg		20.0		106	70-130		
Naphthalene	12.3	QC2	µg/kg		20.0		61	70-130		
n-Propylbenzene	19.9		µg/kg		20.0		99	70-130		
Styrene	19.3		µg/kg		20.0		97	70-130		
1,1,1,2-Tetrachloroethane	19.8		µg/kg		20.0		99	70-130		
1,1,2,2-Tetrachloroethane	21.3		µg/kg		20.0		106	70-130		
Tetrachloroethene	18.2		µg/kg		20.0		91	70-130		
Toluene	18.7		µg/kg		20.0		94	70-130		
1,2,3-Trichlorobenzene	15.1		µg/kg		20.0		75	70-130		
1,2,4-Trichlorobenzene	14.1		µg/kg		20.0		71	70-130		
1,3,5-Trichlorobenzene	16.9		µg/kg		20.0		84	70-130		
1,1,1-Trichloroethane	18.5		µg/kg		20.0		92	70-130		
1,1,2-Trichloroethane	20.0		µg/kg		20.0		100	70-130		
Trichloroethene	18.5		µg/kg		20.0		92	70-130		
Trichlorofluoromethane (Freon 11)	18.8		µg/kg		20.0		94	70-130		
1,2,3-Trichloropropane	20.6		µg/kg		20.0		103	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721132 - SW846 5035A Soil (low level)										
LCS (1721132-BS1)					Prepared & Analyzed: 21-Dec-17					
1,2,4-Trimethylbenzene	22.4		µg/kg		20.0		112	70-130		
1,3,5-Trimethylbenzene	21.8		µg/kg		20.0		109	70-130		
Vinyl chloride	17.4		µg/kg		20.0		87	70-130		
m,p-Xylene	19.7		µg/kg		20.0		98	70-130		
o-Xylene	20.6		µg/kg		20.0		103	70-130		
Tetrahydrofuran	17.0		µg/kg		20.0		85	70-130		
Ethyl ether	19.0		µg/kg		20.0		95	70-130		
Tert-amyl methyl ether	17.3		µg/kg		20.0		86	70-130		
Ethyl tert-butyl ether	17.2		µg/kg		20.0		86	70-130		
Di-isopropyl ether	15.6		µg/kg		20.0		78	70-130		
Tert-Butanol / butyl alcohol	185		µg/kg		200		93	70-130		
1,4-Dioxane	145		µg/kg		200		72	70-130		
trans-1,4-Dichloro-2-butene	18.6		µg/kg		20.0		93	70-130		
Ethanol	331		µg/kg		400		83	70-130		
Surrogate: 4-Bromofluorobenzene	53.8		µg/kg		50.0		108	70-130		
Surrogate: Toluene-d8	49.2		µg/kg		50.0		98	70-130		
Surrogate: 1,2-Dichloroethane-d4	50.1		µg/kg		50.0		100	70-130		
Surrogate: Dibromofluoromethane	49.6		µg/kg		50.0		99	70-130		
LCS Dup (1721132-BSD1)					Prepared & Analyzed: 21-Dec-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	16.9		µg/kg		20.0		85	70-130	2	30
Acetone	14.3		µg/kg		20.0		71	70-130	4	30
Acrylonitrile	15.6		µg/kg		20.0		78	70-130	1	30
Benzene	18.3		µg/kg		20.0		91	70-130	2	30
Bromobenzene	20.2		µg/kg		20.0		101	70-130	2	30
Bromochloromethane	18.4		µg/kg		20.0		92	70-130	5	30
Bromodichloromethane	18.9		µg/kg		20.0		95	70-130	2	30
Bromoform	18.6		µg/kg		20.0		93	70-130	4	30
Bromomethane	18.3		µg/kg		20.0		91	70-130	11	30
2-Butanone (MEK)	15.5	QR2	µg/kg		20.0		77	70-130	31	30
n-Butylbenzene	17.2		µg/kg		20.0		86	70-130	1	30
sec-Butylbenzene	20.3		µg/kg		20.0		101	70-130	3	30
tert-Butylbenzene	18.9		µg/kg		20.0		94	70-130	3	30
Carbon disulfide	16.7		µg/kg		20.0		84	70-130	4	30
Carbon tetrachloride	17.8		µg/kg		20.0		89	70-130	3	30
Chlorobenzene	18.7		µg/kg		20.0		93	70-130	3	30
Chloroethane	15.8		µg/kg		20.0		79	70-130	23	30
Chloroform	18.5		µg/kg		20.0		92	70-130	0.3	30
Chloromethane	17.4		µg/kg		20.0		87	70-130	3	30
2-Chlorotoluene	22.0		µg/kg		20.0		110	70-130	3	30
4-Chlorotoluene	21.6		µg/kg		20.0		108	70-130	3	30
1,2-Dibromo-3-chloropropane	18.9		µg/kg		20.0		95	70-130	3	30
Dibromochloromethane	17.6		µg/kg		20.0		88	70-130	2	30
1,2-Dibromoethane (EDB)	19.3		µg/kg		20.0		96	70-130	3	30
Dibromomethane	19.1		µg/kg		20.0		95	70-130	4	30
1,2-Dichlorobenzene	19.4		µg/kg		20.0		97	70-130	2	30
1,3-Dichlorobenzene	22.0		µg/kg		20.0		110	70-130	3	30
1,4-Dichlorobenzene	18.5		µg/kg		20.0		93	70-130	3	30
Dichlorodifluoromethane (Freon12)	16.0		µg/kg		20.0		80	70-130	20	30
1,1-Dichloroethane	17.8		µg/kg		20.0		89	70-130	2	30
1,2-Dichloroethane	18.2		µg/kg		20.0		91	70-130	2	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721132 - SW846 5035A Soil (low level)										
LCS Dup (1721132-BSD1)					Prepared & Analyzed: 21-Dec-17					
1,1-Dichloroethene	17.8		µg/kg		20.0		89	70-130	4	30
cis-1,2-Dichloroethene	18.9		µg/kg		20.0		94	70-130	1	30
trans-1,2-Dichloroethene	17.6		µg/kg		20.0		88	70-130	1	30
1,2-Dichloropropane	18.1		µg/kg		20.0		90	70-130	4	30
1,3-Dichloropropane	19.1		µg/kg		20.0		96	70-130	3	30
2,2-Dichloropropane	16.2		µg/kg		20.0		81	70-130	1	30
1,1-Dichloropropene	16.0		µg/kg		20.0		80	70-130	3	30
cis-1,3-Dichloropropene	16.2		µg/kg		20.0		81	70-130	0.4	30
trans-1,3-Dichloropropene	16.2		µg/kg		20.0		81	70-130	2	30
Ethylbenzene	18.5		µg/kg		20.0		92	70-130	2	30
Hexachlorobutadiene	17.9		µg/kg		20.0		89	70-130	3	30
2-Hexanone (MBK)	16.3		µg/kg		20.0		82	70-130	13	30
Isopropylbenzene	19.1		µg/kg		20.0		95	70-130	3	30
4-Isopropyltoluene	18.1		µg/kg		20.0		90	70-130	3	30
Methyl tert-butyl ether	18.5		µg/kg		20.0		92	70-130	2	30
4-Methyl-2-pentanone (MIBK)	15.3		µg/kg		20.0		76	70-130	6	30
Methylene chloride	17.7		µg/kg		20.0		89	70-130	18	30
Naphthalene	13.0	QC2	µg/kg		20.0		65	70-130	6	30
n-Propylbenzene	19.6		µg/kg		20.0		98	70-130	1	30
Styrene	18.8		µg/kg		20.0		94	70-130	3	30
1,1,1,2-Tetrachloroethane	19.5		µg/kg		20.0		97	70-130	2	30
1,1,2,2-Tetrachloroethane	21.8		µg/kg		20.0		109	70-130	2	30
Tetrachloroethene	17.4		µg/kg		20.0		87	70-130	4	30
Toluene	18.0		µg/kg		20.0		90	70-130	4	30
1,2,3-Trichlorobenzene	15.4		µg/kg		20.0		77	70-130	2	30
1,2,4-Trichlorobenzene	14.5		µg/kg		20.0		73	70-130	3	30
1,3,5-Trichlorobenzene	16.8		µg/kg		20.0		84	70-130	0.4	30
1,1,1-Trichloroethane	18.1		µg/kg		20.0		90	70-130	2	30
1,1,2-Trichloroethane	19.8		µg/kg		20.0		99	70-130	1	30
Trichloroethene	18.1		µg/kg		20.0		90	70-130	2	30
Trichlorofluoromethane (Freon 11)	18.4		µg/kg		20.0		92	70-130	2	30
1,2,3-Trichloropropane	20.6		µg/kg		20.0		103	70-130	0.1	30
1,2,4-Trimethylbenzene	22.0		µg/kg		20.0		110	70-130	2	30
1,3,5-Trimethylbenzene	21.3		µg/kg		20.0		106	70-130	2	30
Vinyl chloride	18.1		µg/kg		20.0		90	70-130	4	30
m,p-Xylene	19.2		µg/kg		20.0		96	70-130	2	30
o-Xylene	20.3		µg/kg		20.0		102	70-130	1	30
Tetrahydrofuran	16.5		µg/kg		20.0		82	70-130	3	30
Ethyl ether	19.1		µg/kg		20.0		95	70-130	0.1	30
Tert-amyl methyl ether	17.4		µg/kg		20.0		87	70-130	0.6	30
Ethyl tert-butyl ether	17.1		µg/kg		20.0		86	70-130	0.6	30
Di-isopropyl ether	15.6		µg/kg		20.0		78	70-130	0	30
Tert-Butanol / butyl alcohol	192		µg/kg		200		96	70-130	4	30
1,4-Dioxane	144		µg/kg		200		72	70-130	0.3	30
trans-1,4-Dichloro-2-butene	17.4		µg/kg		20.0		87	70-130	7	30
Ethanol	360		µg/kg		400		90	70-130	8	30
Surrogate: 4-Bromofluorobenzene	54.2		µg/kg		50.0		108	70-130		
Surrogate: Toluene-d8	48.5		µg/kg		50.0		97	70-130		
Surrogate: 1,2-Dichloroethane-d4	50.3		µg/kg		50.0		101	70-130		
Surrogate: Dibromofluoromethane	49.6		µg/kg		50.0		99	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721214 - SW846 5035A Soil (low level)										
Blank (1721214-BLK1)					<u>Prepared & Analyzed: 22-Dec-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00						
Acetone	< 50.0	U	µg/kg wet	50.0						
Acrylonitrile	< 5.00	U	µg/kg wet	5.00						
Benzene	< 5.00	U	µg/kg wet	5.00						
Bromobenzene	< 5.00	U	µg/kg wet	5.00						
Bromochloromethane	< 5.00	U	µg/kg wet	5.00						
Bromodichloromethane	< 5.00	U	µg/kg wet	5.00						
Bromoform	< 5.00	U	µg/kg wet	5.00						
Bromomethane	< 10.0	U	µg/kg wet	10.0						
2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0						
n-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
Carbon disulfide	< 10.0	U	µg/kg wet	10.0						
Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00						
Chlorobenzene	< 5.00	U	µg/kg wet	5.00						
Chloroethane	< 10.0	U	µg/kg wet	10.0						
Chloroform	< 5.00	U	µg/kg wet	5.00						
Chloromethane	< 10.0	U	µg/kg wet	10.0						
2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0						
Dibromochloromethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00						
Dibromomethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0						
1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
Ethylbenzene	< 5.00	U	µg/kg wet	5.00						
Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00						
2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0						
Isopropylbenzene	< 5.00	U	µg/kg wet	5.00						
4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00						
Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0						
Methylene chloride	< 10.0	U	µg/kg wet	10.0						
Naphthalene	< 5.00	U	µg/kg wet	5.00						
n-Propylbenzene	< 5.00	U	µg/kg wet	5.00						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721214 - SW846 5035A Soil (low level)										
Blank (1721214-BLK1)					<u>Prepared & Analyzed: 22-Dec-17</u>					
Styrene	< 5.00	U	µg/kg wet	5.00						
1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
Tetrachloroethene	< 5.00	U	µg/kg wet	5.00						
Toluene	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
Trichloroethene	< 5.00	U	µg/kg wet	5.00						
Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
Vinyl chloride	< 5.00	U	µg/kg wet	5.00						
m,p-Xylene	< 10.0	U	µg/kg wet	10.0						
o-Xylene	< 5.00	U	µg/kg wet	5.00						
Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0						
Ethyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00						
Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0						
1,4-Dioxane	< 100	U	µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0						
Ethanol	< 1000	U	µg/kg wet	1000						
Surrogate: 4-Bromofluorobenzene	46.8		µg/kg		50.0		94	70-130		
Surrogate: Toluene-d8	49.6		µg/kg		50.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	62.8		µg/kg		50.0		126	70-130		
Surrogate: Dibromofluoromethane	53.6		µg/kg		50.0		107	70-130		
LCS (1721214-BS1)					<u>Prepared & Analyzed: 22-Dec-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	17.0		µg/kg		20.0		85	70-130		
Acetone	13.0		µg/kg		20.0		65	70-130		
Acrylonitrile	16.4		µg/kg		20.0		82	70-130		
Benzene	18.8		µg/kg		20.0		94	70-130		
Bromobenzene	21.2		µg/kg		20.0		106	70-130		
Bromochloromethane	20.2		µg/kg		20.0		101	70-130		
Bromodichloromethane	20.0		µg/kg		20.0		100	70-130		
Bromoform	20.2		µg/kg		20.0		101	70-130		
Bromomethane	19.5		µg/kg		20.0		97	70-130		
2-Butanone (MEK)	16.6		µg/kg		20.0		83	70-130		
n-Butylbenzene	16.8		µg/kg		20.0		84	70-130		
sec-Butylbenzene	20.4		µg/kg		20.0		102	70-130		
tert-Butylbenzene	19.3		µg/kg		20.0		96	70-130		
Carbon disulfide	16.7		µg/kg		20.0		83	70-130		
Carbon tetrachloride	18.5		µg/kg		20.0		93	70-130		
Chlorobenzene	19.1		µg/kg		20.0		96	70-130		
Chloroethane	19.7		µg/kg		20.0		99	70-130		
Chloroform	19.1		µg/kg		20.0		96	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721214 - SW846 5035A Soil (low level)										
LCS (1721214-BS1)					Prepared & Analyzed: 22-Dec-17					
Chloromethane	17.0		µg/kg		20.0		85	70-130		
2-Chlorotoluene	22.5		µg/kg		20.0		113	70-130		
4-Chlorotoluene	21.7		µg/kg		20.0		108	70-130		
1,2-Dibromo-3-chloropropane	19.8		µg/kg		20.0		99	70-130		
Dibromochloromethane	18.4		µg/kg		20.0		92	70-130		
1,2-Dibromoethane (EDB)	19.4		µg/kg		20.0		97	70-130		
Dibromomethane	20.2		µg/kg		20.0		101	70-130		
1,2-Dichlorobenzene	19.6		µg/kg		20.0		98	70-130		
1,3-Dichlorobenzene	22.6		µg/kg		20.0		113	70-130		
1,4-Dichlorobenzene	18.8		µg/kg		20.0		94	70-130		
Dichlorodifluoromethane (Freon12)	16.0		µg/kg		20.0		80	70-130		
1,1-Dichloroethane	18.2		µg/kg		20.0		91	70-130		
1,2-Dichloroethane	18.5		µg/kg		20.0		92	70-130		
1,1-Dichloroethene	18.4		µg/kg		20.0		92	70-130		
cis-1,2-Dichloroethene	19.6		µg/kg		20.0		98	70-130		
trans-1,2-Dichloroethene	17.3		µg/kg		20.0		86	70-130		
1,2-Dichloropropane	18.8		µg/kg		20.0		94	70-130		
1,3-Dichloropropane	19.6		µg/kg		20.0		98	70-130		
2,2-Dichloropropane	16.3		µg/kg		20.0		81	70-130		
1,1-Dichloropropene	16.3		µg/kg		20.0		81	70-130		
cis-1,3-Dichloropropene	16.6		µg/kg		20.0		83	70-130		
trans-1,3-Dichloropropene	16.3		µg/kg		20.0		81	70-130		
Ethylbenzene	18.7		µg/kg		20.0		93	70-130		
Hexachlorobutadiene	17.4		µg/kg		20.0		87	70-130		
2-Hexanone (MBK)	15.0		µg/kg		20.0		75	70-130		
Isopropylbenzene	19.3		µg/kg		20.0		97	70-130		
4-Isopropyltoluene	18.1		µg/kg		20.0		91	70-130		
Methyl tert-butyl ether	18.4		µg/kg		20.0		92	70-130		
4-Methyl-2-pentanone (MIBK)	17.2		µg/kg		20.0		86	70-130		
Methylene chloride	17.0		µg/kg		20.0		85	70-130		
Naphthalene	12.0	QC2	µg/kg		20.0		60	70-130		
n-Propylbenzene	19.2		µg/kg		20.0		96	70-130		
Styrene	19.1		µg/kg		20.0		96	70-130		
1,1,1,2-Tetrachloroethane	20.4		µg/kg		20.0		102	70-130		
1,1,2,2-Tetrachloroethane	22.1		µg/kg		20.0		110	70-130		
Tetrachloroethene	17.5		µg/kg		20.0		88	70-130		
Toluene	18.4		µg/kg		20.0		92	70-130		
1,2,3-Trichlorobenzene	14.7		µg/kg		20.0		73	70-130		
1,2,4-Trichlorobenzene	14.0		µg/kg		20.0		70	70-130		
1,3,5-Trichlorobenzene	16.8		µg/kg		20.0		84	70-130		
1,1,1-Trichloroethane	18.4		µg/kg		20.0		92	70-130		
1,1,2-Trichloroethane	20.8		µg/kg		20.0		104	70-130		
Trichloroethene	18.3		µg/kg		20.0		92	70-130		
Trichlorofluoromethane (Freon 11)	18.0		µg/kg		20.0		90	70-130		
1,2,3-Trichloropropane	21.6		µg/kg		20.0		108	70-130		
1,2,4-Trimethylbenzene	22.6		µg/kg		20.0		113	70-130		
1,3,5-Trimethylbenzene	21.6		µg/kg		20.0		108	70-130		
Vinyl chloride	18.4		µg/kg		20.0		92	70-130		
m,p-Xylene	19.4		µg/kg		20.0		97	70-130		
o-Xylene	20.5		µg/kg		20.0		103	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1721214 - SW846 5035A Soil (low level)										
<u>LCS (1721214-BS1)</u>					<u>Prepared & Analyzed: 22-Dec-17</u>					
Tetrahydrofuran	16.9		µg/kg		20.0		84	70-130		
Ethyl ether	19.1		µg/kg		20.0		96	70-130		
Tert-amyl methyl ether	18.4		µg/kg		20.0		92	70-130		
Ethyl tert-butyl ether	17.6		µg/kg		20.0		88	70-130		
Di-isopropyl ether	15.8		µg/kg		20.0		79	70-130		
Tert-Butanol / butyl alcohol	186		µg/kg		200		93	70-130		
1,4-Dioxane	171		µg/kg		200		85	70-130		
trans-1,4-Dichloro-2-butene	19.3		µg/kg		20.0		97	70-130		
Ethanol	382		µg/kg		400		96	70-130		
<i>Surrogate: 4-Bromofluorobenzene</i>	53.8		µg/kg		50.0		108	70-130		
<i>Surrogate: Toluene-d8</i>	49.2		µg/kg		50.0		98	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	50.5		µg/kg		50.0		101	70-130		
<i>Surrogate: Dibromofluoromethane</i>	50.3		µg/kg		50.0		101	70-130		
<u>LCS Dup (1721214-BSD1)</u>					<u>Prepared & Analyzed: 22-Dec-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	16.6		µg/kg		20.0		83	70-130	2	30
Acetone	12.8		µg/kg		20.0		64	70-130	2	30
Acrylonitrile	15.5		µg/kg		20.0		77	70-130	6	30
Benzene	18.3		µg/kg		20.0		92	70-130	2	30
Bromobenzene	20.7		µg/kg		20.0		104	70-130	2	30
Bromochloromethane	19.0		µg/kg		20.0		95	70-130	6	30
Bromodichloromethane	19.5		µg/kg		20.0		97	70-130	3	30
Bromoform	19.2		µg/kg		20.0		96	70-130	5	30
Bromomethane	19.9		µg/kg		20.0		100	70-130	2	30
2-Butanone (MEK)	15.2		µg/kg		20.0		76	70-130	9	30
n-Butylbenzene	16.2		µg/kg		20.0		81	70-130	3	30
sec-Butylbenzene	20.0		µg/kg		20.0		100	70-130	2	30
tert-Butylbenzene	19.1		µg/kg		20.0		96	70-130	0.7	30
Carbon disulfide	16.4		µg/kg		20.0		82	70-130	1	30
Carbon tetrachloride	18.0		µg/kg		20.0		90	70-130	3	30
Chlorobenzene	18.8		µg/kg		20.0		94	70-130	1	30
Chloroethane	19.6		µg/kg		20.0		98	70-130	0.4	30
Chloroform	18.4		µg/kg		20.0		92	70-130	4	30
Chloromethane	17.6		µg/kg		20.0		88	70-130	4	30
2-Chlorotoluene	21.8		µg/kg		20.0		109	70-130	3	30
4-Chlorotoluene	21.3		µg/kg		20.0		106	70-130	2	30
1,2-Dibromo-3-chloropropane	18.3		µg/kg		20.0		92	70-130	7	30
Dibromochloromethane	18.0		µg/kg		20.0		90	70-130	2	30
1,2-Dibromoethane (EDB)	18.9		µg/kg		20.0		95	70-130	3	30
Dibromomethane	19.4		µg/kg		20.0		97	70-130	4	30
1,2-Dichlorobenzene	19.3		µg/kg		20.0		96	70-130	1	30
1,3-Dichlorobenzene	21.6		µg/kg		20.0		108	70-130	4	30
1,4-Dichlorobenzene	18.1		µg/kg		20.0		91	70-130	4	30
Dichlorodifluoromethane (Freon12)	18.2		µg/kg		20.0		91	70-130	13	30
1,1-Dichloroethane	17.7		µg/kg		20.0		88	70-130	3	30
1,2-Dichloroethane	18.2		µg/kg		20.0		91	70-130	2	30
1,1-Dichloroethene	17.7		µg/kg		20.0		88	70-130	4	30
cis-1,2-Dichloroethene	18.8		µg/kg		20.0		94	70-130	4	30
trans-1,2-Dichloroethene	17.0		µg/kg		20.0		85	70-130	2	30
1,2-Dichloropropane	18.2		µg/kg		20.0		91	70-130	3	30
1,3-Dichloropropane	19.1		µg/kg		20.0		95	70-130	3	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721214 - SW846 5035A Soil (low level)										
<u>LCS Dup (1721214-BSD1)</u>					<u>Prepared & Analyzed: 22-Dec-17</u>					
2,2-Dichloropropane	16.2		µg/kg		20.0		81	70-130	0.5	30
1,1-Dichloropropene	15.8		µg/kg		20.0		79	70-130	3	30
cis-1,3-Dichloropropene	16.2		µg/kg		20.0		81	70-130	3	30
trans-1,3-Dichloropropene	16.3		µg/kg		20.0		81	70-130	0.06	30
Ethylbenzene	18.4		µg/kg		20.0		92	70-130	2	30
Hexachlorobutadiene	17.2		µg/kg		20.0		86	70-130	0.9	30
2-Hexanone (MBK)	14.6		µg/kg		20.0		73	70-130	2	30
Isopropylbenzene	18.9		µg/kg		20.0		94	70-130	2	30
4-Isopropyltoluene	17.7		µg/kg		20.0		88	70-130	2	30
Methyl tert-butyl ether	18.4		µg/kg		20.0		92	70-130	0.05	30
4-Methyl-2-pentanone (MIBK)	15.1		µg/kg		20.0		76	70-130	13	30
Methylene chloride	17.4		µg/kg		20.0		87	70-130	3	30
Naphthalene	12.6	QC2	µg/kg		20.0		63	70-130	5	30
n-Propylbenzene	19.0		µg/kg		20.0		95	70-130	1	30
Styrene	18.8		µg/kg		20.0		94	70-130	1	30
1,1,1,2-Tetrachloroethane	20.0		µg/kg		20.0		100	70-130	2	30
1,1,2,2-Tetrachloroethane	21.2		µg/kg		20.0		106	70-130	4	30
Tetrachloroethene	17.1		µg/kg		20.0		86	70-130	2	30
Toluene	18.1		µg/kg		20.0		91	70-130	2	30
1,2,3-Trichlorobenzene	15.0		µg/kg		20.0		75	70-130	2	30
1,2,4-Trichlorobenzene	13.9	QM9	µg/kg		20.0		69	70-130	0.7	30
1,3,5-Trichlorobenzene	16.4		µg/kg		20.0		82	70-130	3	30
1,1,1-Trichloroethane	18.1		µg/kg		20.0		91	70-130	1	30
1,1,2-Trichloroethane	20.0		µg/kg		20.0		100	70-130	4	30
Trichloroethene	18.3		µg/kg		20.0		91	70-130	0.3	30
Trichlorofluoromethane (Freon 11)	17.4		µg/kg		20.0		87	70-130	3	30
1,2,3-Trichloropropane	20.3		µg/kg		20.0		102	70-130	6	30
1,2,4-Trimethylbenzene	21.9		µg/kg		20.0		110	70-130	3	30
1,3,5-Trimethylbenzene	21.3		µg/kg		20.0		106	70-130	2	30
Vinyl chloride	17.2		µg/kg		20.0		86	70-130	7	30
m,p-Xylene	19.1		µg/kg		20.0		95	70-130	2	30
o-Xylene	20.2		µg/kg		20.0		101	70-130	1	30
Tetrahydrofuran	16.2		µg/kg		20.0		81	70-130	4	30
Ethyl ether	18.6		µg/kg		20.0		93	70-130	3	30
Tert-amyl methyl ether	17.1		µg/kg		20.0		85	70-130	7	30
Ethyl tert-butyl ether	17.2		µg/kg		20.0		86	70-130	2	30
Di-isopropyl ether	15.7		µg/kg		20.0		79	70-130	0.6	30
Tert-Butanol / butyl alcohol	177		µg/kg		200		88	70-130	5	30
1,4-Dioxane	167		µg/kg		200		84	70-130	2	30
trans-1,4-Dichloro-2-butene	18.0		µg/kg		20.0		90	70-130	7	30
Ethanol	404		µg/kg		400		101	70-130	6	30
Surrogate: 4-Bromofluorobenzene	53.6		µg/kg		50.0		107	70-130		
Surrogate: Toluene-d8	49.0		µg/kg		50.0		98	70-130		
Surrogate: 1,2-Dichloroethane-d4	49.8		µg/kg		50.0		100	70-130		
Surrogate: Dibromofluoromethane	49.6		µg/kg		50.0		99	70-130		
Batch 1721215 - SW846 5035A Soil (high level)										
<u>Blank (1721215-BLK1)</u>					<u>Prepared & Analyzed: 22-Dec-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 50.0	U, D	µg/kg wet	50.0						
Acetone	< 500	U, D	µg/kg wet	500						
Acrylonitrile	< 50.0	U, D	µg/kg wet	50.0						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721215 - SW846 5035A Soil (high level)										
<u>Blank (1721215-BLK1)</u>	<u>Prepared & Analyzed: 22-Dec-17</u>									
Benzene	< 50.0	U, D	µg/kg wet	50.0						
Bromobenzene	< 50.0	U, D	µg/kg wet	50.0						
Bromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromodichloromethane	< 50.0	U, D	µg/kg wet	50.0						
Bromoform	< 50.0	U, D	µg/kg wet	50.0						
Bromomethane	< 100	U, D	µg/kg wet	100						
2-Butanone (MEK)	< 100	U, D	µg/kg wet	100						
n-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
sec-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
tert-Butylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Carbon disulfide	< 100	U, D	µg/kg wet	100						
Carbon tetrachloride	< 50.0	U, D	µg/kg wet	50.0						
Chlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Chloroethane	< 100	U, D	µg/kg wet	100						
Chloroform	< 50.0	U, D	µg/kg wet	50.0						
Chloromethane	< 100	U, D	µg/kg wet	100						
2-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
4-Chlorotoluene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromo-3-chloropropane	< 100	U, D	µg/kg wet	100						
Dibromochloromethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dibromoethane (EDB)	< 50.0	U, D	µg/kg wet	50.0						
Dibromomethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,4-Dichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
Dichlorodifluoromethane (Freon12)	< 100	U, D	µg/kg wet	100						
1,1-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,2-Dichloroethene	< 50.0	U, D	µg/kg wet	50.0						
1,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,3-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
2,2-Dichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,1-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
cis-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
trans-1,3-Dichloropropene	< 50.0	U, D	µg/kg wet	50.0						
Ethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Hexachlorobutadiene	< 50.0	U, D	µg/kg wet	50.0						
2-Hexanone (MBK)	< 100	U, D	µg/kg wet	100						
Isopropylbenzene	< 50.0	U, D	µg/kg wet	50.0						
4-Isopropyltoluene	< 50.0	U, D	µg/kg wet	50.0						
Methyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
4-Methyl-2-pentanone (MIBK)	< 100	U, D	µg/kg wet	100						
Methylene chloride	< 100	U, D	µg/kg wet	100						
Naphthalene	< 50.0	U, D	µg/kg wet	50.0						
n-Propylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Styrene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2,2-Tetrachloroethane	< 50.0	U, D	µg/kg wet	50.0						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721215 - SW846 5035A Soil (high level)										
Blank (1721215-BLK1)					<u>Prepared & Analyzed: 22-Dec-17</u>					
Tetrachloroethene	< 50.0	U, D	µg/kg wet	50.0						
Toluene	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trichlorobenzene	< 50.0	U, D	µg/kg wet	50.0						
1,1,1-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
1,1,2-Trichloroethane	< 50.0	U, D	µg/kg wet	50.0						
Trichloroethene	< 50.0	U, D	µg/kg wet	50.0						
Trichlorofluoromethane (Freon 11)	< 50.0	U, D	µg/kg wet	50.0						
1,2,3-Trichloropropane	< 50.0	U, D	µg/kg wet	50.0						
1,2,4-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
1,3,5-Trimethylbenzene	< 50.0	U, D	µg/kg wet	50.0						
Vinyl chloride	< 50.0	U, D	µg/kg wet	50.0						
m,p-Xylene	< 100	U, D	µg/kg wet	100						
o-Xylene	< 50.0	U, D	µg/kg wet	50.0						
Tetrahydrofuran	< 100	U, D	µg/kg wet	100						
Ethyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-amyl methyl ether	< 50.0	U, D	µg/kg wet	50.0						
Ethyl tert-butyl ether	< 50.0	U, D	µg/kg wet	50.0						
Di-isopropyl ether	< 50.0	U, D	µg/kg wet	50.0						
Tert-Butanol / butyl alcohol	< 500	U, D	µg/kg wet	500						
1,4-Dioxane	< 1000	U, D	µg/kg wet	1000						
trans-1,4-Dichloro-2-butene	< 250	U, D	µg/kg wet	250						
Ethanol	< 10000	U, D	µg/kg wet	10000						
<i>Surrogate: 4-Bromofluorobenzene</i>	49.2		µg/kg		50.0		98	70-130		
<i>Surrogate: Toluene-d8</i>	49.4		µg/kg		50.0		99	70-130		
<i>Surrogate: 1,2-Dichloroethane-d4</i>	53.3		µg/kg		50.0		107	70-130		
<i>Surrogate: Dibromofluoromethane</i>	54.2		µg/kg		50.0		108	70-130		
LCS (1721215-BS1)					<u>Prepared & Analyzed: 22-Dec-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	19.2	D	µg/kg		20.0		96	70-130		
Acetone	20.8	D	µg/kg		20.0		104	70-130		
Acrylonitrile	19.7	D	µg/kg		20.0		99	70-130		
Benzene	20.5	D	µg/kg		20.0		103	70-130		
Bromobenzene	22.3	D	µg/kg		20.0		111	70-130		
Bromochloromethane	22.8	D	µg/kg		20.0		114	70-130		
Bromodichloromethane	20.6	D	µg/kg		20.0		103	70-130		
Bromoform	22.7	D	µg/kg		20.0		113	70-130		
Bromomethane	24.6	D	µg/kg		20.0		123	70-130		
2-Butanone (MEK)	19.9	D	µg/kg		20.0		99	70-130		
n-Butylbenzene	16.7	D	µg/kg		20.0		84	70-130		
sec-Butylbenzene	19.8	D	µg/kg		20.0		99	70-130		
tert-Butylbenzene	21.0	D	µg/kg		20.0		105	70-130		
Carbon disulfide	18.8	D	µg/kg		20.0		94	70-130		
Carbon tetrachloride	21.0	D	µg/kg		20.0		105	70-130		
Chlorobenzene	19.9	D	µg/kg		20.0		99	70-130		
Chloroethane	18.0	D	µg/kg		20.0		90	70-130		
Chloroform	19.5	D	µg/kg		20.0		98	70-130		
Chloromethane	16.6	D	µg/kg		20.0		83	70-130		
2-Chlorotoluene	22.2	D	µg/kg		20.0		111	70-130		
4-Chlorotoluene	19.8	D	µg/kg		20.0		99	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721215 - SW846 5035A Soil (high level)										
LCS (1721215-BS1)					Prepared & Analyzed: 22-Dec-17					
1,2-Dibromo-3-chloropropane	18.7	D	µg/kg		20.0		94	70-130		
Dibromochloromethane	21.6	D	µg/kg		20.0		108	70-130		
1,2-Dibromoethane (EDB)	21.7	D	µg/kg		20.0		108	70-130		
Dibromomethane	20.3	D	µg/kg		20.0		102	70-130		
1,2-Dichlorobenzene	20.3	D	µg/kg		20.0		102	70-130		
1,3-Dichlorobenzene	21.5	D	µg/kg		20.0		108	70-130		
1,4-Dichlorobenzene	18.6	D	µg/kg		20.0		93	70-130		
Dichlorodifluoromethane (Freon12)	22.4	D	µg/kg		20.0		112	70-130		
1,1-Dichloroethane	19.0	D	µg/kg		20.0		95	70-130		
1,2-Dichloroethane	19.8	D	µg/kg		20.0		99	70-130		
1,1-Dichloroethene	18.8	D	µg/kg		20.0		94	70-130		
cis-1,2-Dichloroethene	22.5	D	µg/kg		20.0		112	70-130		
trans-1,2-Dichloroethene	21.1	D	µg/kg		20.0		105	70-130		
1,2-Dichloropropane	18.9	D	µg/kg		20.0		94	70-130		
1,3-Dichloropropane	19.0	D	µg/kg		20.0		95	70-130		
2,2-Dichloropropane	19.4	D	µg/kg		20.0		97	70-130		
1,1-Dichloropropene	20.2	D	µg/kg		20.0		101	70-130		
cis-1,3-Dichloropropene	19.6	D	µg/kg		20.0		98	70-130		
trans-1,3-Dichloropropene	19.7	D	µg/kg		20.0		99	70-130		
Ethylbenzene	20.0	D	µg/kg		20.0		100	70-130		
Hexachlorobutadiene	21.3	D	µg/kg		20.0		107	70-130		
2-Hexanone (MBK)	18.8	D	µg/kg		20.0		94	70-130		
Isopropylbenzene	20.1	D	µg/kg		20.0		101	70-130		
4-Isopropyltoluene	18.5	D	µg/kg		20.0		93	70-130		
Methyl tert-butyl ether	21.9	D	µg/kg		20.0		110	70-130		
4-Methyl-2-pentanone (MIBK)	18.8	D	µg/kg		20.0		94	70-130		
Methylene chloride	19.8	D	µg/kg		20.0		99	70-130		
Naphthalene	18.5	D	µg/kg		20.0		93	70-130		
n-Propylbenzene	19.0	D	µg/kg		20.0		95	70-130		
Styrene	21.2	D	µg/kg		20.0		106	70-130		
1,1,1,2-Tetrachloroethane	22.2	D	µg/kg		20.0		111	70-130		
1,1,2,2-Tetrachloroethane	20.0	D	µg/kg		20.0		100	70-130		
Tetrachloroethene	20.6	D	µg/kg		20.0		103	70-130		
Toluene	19.7	D	µg/kg		20.0		98	70-130		
1,2,3-Trichlorobenzene	20.2	D	µg/kg		20.0		101	70-130		
1,2,4-Trichlorobenzene	19.9	D	µg/kg		20.0		100	70-130		
1,3,5-Trichlorobenzene	20.0	D	µg/kg		20.0		100	70-130		
1,1,1-Trichloroethane	20.4	D	µg/kg		20.0		102	70-130		
1,1,2-Trichloroethane	19.7	D	µg/kg		20.0		98	70-130		
Trichloroethene	19.7	D	µg/kg		20.0		99	70-130		
Trichlorofluoromethane (Freon 11)	20.0	D	µg/kg		20.0		100	70-130		
1,2,3-Trichloropropane	20.0	D	µg/kg		20.0		100	70-130		
1,2,4-Trimethylbenzene	20.3	D	µg/kg		20.0		102	70-130		
1,3,5-Trimethylbenzene	20.6	D	µg/kg		20.0		103	70-130		
Vinyl chloride	15.4	D	µg/kg		20.0		77	70-130		
m,p-Xylene	20.4	D	µg/kg		20.0		102	70-130		
o-Xylene	20.2	D	µg/kg		20.0		101	70-130		
Tetrahydrofuran	19.2	D	µg/kg		20.0		96	70-130		
Ethyl ether	20.1	D	µg/kg		20.0		101	70-130		
Tert-amyl methyl ether	19.0	D	µg/kg		20.0		95	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721215 - SW846 5035A Soil (high level)										
LCS (1721215-BS1)					<u>Prepared & Analyzed: 22-Dec-17</u>					
Ethyl tert-butyl ether	21.2	D	µg/kg		20.0		106	70-130		
Di-isopropyl ether	19.1	D	µg/kg		20.0		95	70-130		
Tert-Butanol / butyl alcohol	246	D	µg/kg		200		123	70-130		
1,4-Dioxane	208	D	µg/kg		200		104	70-130		
trans-1,4-Dichloro-2-butene	18.5	D	µg/kg		20.0		92	70-130		
Ethanol	396	D	µg/kg		400		99	70-130		
Surrogate: 4-Bromofluorobenzene	52.7		µg/kg		50.0		105	70-130		
Surrogate: Toluene-d8	49.3		µg/kg		50.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	48.2		µg/kg		50.0		96	70-130		
Surrogate: Dibromofluoromethane	50.6		µg/kg		50.0		101	70-130		
LCS Dup (1721215-BSD1)					<u>Prepared & Analyzed: 22-Dec-17</u>					
1,1,2-Trichlorotrifluoroethane (Freon 113)	21.3	D	µg/kg		20.0		107	70-130	11	30
Acetone	21.1	D	µg/kg		20.0		105	70-130	1	30
Acrylonitrile	20.7	D	µg/kg		20.0		104	70-130	5	30
Benzene	19.9	D	µg/kg		20.0		99	70-130	3	30
Bromobenzene	21.7	D	µg/kg		20.0		108	70-130	3	30
Bromochloromethane	22.8	D	µg/kg		20.0		114	70-130	0.3	30
Bromodichloromethane	20.1	D	µg/kg		20.0		101	70-130	2	30
Bromoform	22.4	D	µg/kg		20.0		112	70-130	1	30
Bromomethane	26.3	D	µg/kg		20.0		131	70-130	6	30
2-Butanone (MEK)	20.6	D	µg/kg		20.0		103	70-130	4	30
n-Butylbenzene	16.5	D	µg/kg		20.0		83	70-130	1	30
sec-Butylbenzene	19.3	D	µg/kg		20.0		97	70-130	2	30
tert-Butylbenzene	20.5	D	µg/kg		20.0		102	70-130	3	30
Carbon disulfide	19.4	D	µg/kg		20.0		97	70-130	3	30
Carbon tetrachloride	20.1	D	µg/kg		20.0		100	70-130	5	30
Chlorobenzene	19.4	D	µg/kg		20.0		97	70-130	2	30
Chloroethane	17.4	D	µg/kg		20.0		87	70-130	3	30
Chloroform	19.2	D	µg/kg		20.0		96	70-130	2	30
Chloromethane	16.0	D	µg/kg		20.0		80	70-130	4	30
2-Chlorotoluene	21.9	D	µg/kg		20.0		109	70-130	2	30
4-Chlorotoluene	19.6	D	µg/kg		20.0		98	70-130	1	30
1,2-Dibromo-3-chloropropane	19.2	D	µg/kg		20.0		96	70-130	3	30
Dibromochloromethane	21.4	D	µg/kg		20.0		107	70-130	0.7	30
1,2-Dibromoethane (EDB)	21.8	D	µg/kg		20.0		109	70-130	0.7	30
Dibromomethane	20.1	D	µg/kg		20.0		101	70-130	0.9	30
1,2-Dichlorobenzene	20.1	D	µg/kg		20.0		100	70-130	1	30
1,3-Dichlorobenzene	21.4	D	µg/kg		20.0		107	70-130	0.7	30
1,4-Dichlorobenzene	18.2	D	µg/kg		20.0		91	70-130	2	30
Dichlorodifluoromethane (Freon12)	22.1	D	µg/kg		20.0		111	70-130	1	30
1,1-Dichloroethane	18.7	D	µg/kg		20.0		93	70-130	2	30
1,2-Dichloroethane	19.8	D	µg/kg		20.0		99	70-130	0.05	30
1,1-Dichloroethene	17.7	D	µg/kg		20.0		89	70-130	6	30
cis-1,2-Dichloroethene	21.9	D	µg/kg		20.0		110	70-130	3	30
trans-1,2-Dichloroethene	19.9	D	µg/kg		20.0		100	70-130	6	30
1,2-Dichloropropane	18.7	D	µg/kg		20.0		93	70-130	1	30
1,3-Dichloropropane	19.1	D	µg/kg		20.0		95	70-130	0.5	30
2,2-Dichloropropane	18.2	D	µg/kg		20.0		91	70-130	6	30
1,1-Dichloropropene	19.7	D	µg/kg		20.0		99	70-130	2	30
cis-1,3-Dichloropropene	19.5	D	µg/kg		20.0		97	70-130	0.5	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1721215 - SW846 5035A Soil (high level)										
<u>LCS Dup (1721215-BSD1)</u>					<u>Prepared & Analyzed: 22-Dec-17</u>					
trans-1,3-Dichloropropene	19.6	D	µg/kg		20.0		98	70-130	0.7	30
Ethylbenzene	19.3	D	µg/kg		20.0		97	70-130	3	30
Hexachlorobutadiene	21.3	D	µg/kg		20.0		107	70-130	0.1	30
2-Hexanone (MBK)	18.8	D	µg/kg		20.0		94	70-130	0	30
Isopropylbenzene	19.5	D	µg/kg		20.0		98	70-130	3	30
4-Isopropyltoluene	18.4	D	µg/kg		20.0		92	70-130	0.8	30
Methyl tert-butyl ether	21.8	D	µg/kg		20.0		109	70-130	0.4	30
4-Methyl-2-pentanone (MIBK)	18.9	D	µg/kg		20.0		94	70-130	0.5	30
Methylene chloride	19.9	D	µg/kg		20.0		100	70-130	0.6	30
Naphthalene	19.0	D	µg/kg		20.0		95	70-130	2	30
n-Propylbenzene	18.5	D	µg/kg		20.0		93	70-130	2	30
Styrene	20.6	D	µg/kg		20.0		103	70-130	3	30
1,1,1,2-Tetrachloroethane	21.7	D	µg/kg		20.0		109	70-130	2	30
1,1,2,2-Tetrachloroethane	20.0	D	µg/kg		20.0		100	70-130	0.05	30
Tetrachloroethene	19.8	D	µg/kg		20.0		99	70-130	4	30
Toluene	19.3	D	µg/kg		20.0		96	70-130	2	30
1,2,3-Trichlorobenzene	20.5	D	µg/kg		20.0		103	70-130	2	30
1,2,4-Trichlorobenzene	19.7	D	µg/kg		20.0		98	70-130	1	30
1,3,5-Trichlorobenzene	19.9	D	µg/kg		20.0		100	70-130	0.3	30
1,1,1-Trichloroethane	19.6	D	µg/kg		20.0		98	70-130	4	30
1,1,2-Trichloroethane	19.9	D	µg/kg		20.0		100	70-130	1	30
Trichloroethene	19.4	D	µg/kg		20.0		97	70-130	2	30
Trichlorofluoromethane (Freon 11)	18.8	D	µg/kg		20.0		94	70-130	6	30
1,2,3-Trichloropropane	20.0	D	µg/kg		20.0		100	70-130	0.1	30
1,2,4-Trimethylbenzene	20.1	D	µg/kg		20.0		101	70-130	0.9	30
1,3,5-Trimethylbenzene	20.1	D	µg/kg		20.0		100	70-130	2	30
Vinyl chloride	14.8	D	µg/kg		20.0		74	70-130	3	30
m,p-Xylene	19.7	D	µg/kg		20.0		99	70-130	3	30
o-Xylene	19.8	D	µg/kg		20.0		99	70-130	2	30
Tetrahydrofuran	19.6	D	µg/kg		20.0		98	70-130	2	30
Ethyl ether	19.3	D	µg/kg		20.0		96	70-130	4	30
Tert-amyl methyl ether	18.9	D	µg/kg		20.0		95	70-130	0.2	30
Ethyl tert-butyl ether	21.4	D	µg/kg		20.0		107	70-130	0.8	30
Di-isopropyl ether	19.1	D	µg/kg		20.0		95	70-130	0.1	30
Tert-Butanol / butyl alcohol	254	D	µg/kg		200		127	70-130	3	30
1,4-Dioxane	217	D	µg/kg		200		108	70-130	4	30
trans-1,4-Dichloro-2-butene	18.2	D	µg/kg		20.0		91	70-130	2	30
Ethanol	421	D	µg/kg		400		105	70-130	6	30
Surrogate: 4-Bromofluorobenzene	52.3		µg/kg		50.0		105	70-130		
Surrogate: Toluene-d8	49.5		µg/kg		50.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	48.6		µg/kg		50.0		97	70-130		
Surrogate: Dibromofluoromethane	50.0		µg/kg		50.0		100	70-130		
<u>Matrix Spike (1721215-MS1)</u>					<u>Source: SC42525-22</u>		<u>Prepared & Analyzed: 22-Dec-17</u>			
1,1,2-Trichlorotrifluoroethane (Freon 113)	23.5	D	µg/kg		20.0	0.00	117	70-130		
Acetone	23.3	D	µg/kg		20.0	0.00	116	70-130		
Acrylonitrile	27.2	QM7, D	µg/kg		20.0	0.00	136	70-130		
Benzene	20.6	D	µg/kg		20.0	0.00	103	70-130		
Bromobenzene	23.5	D	µg/kg		20.0	0.00	118	70-130		
Bromochloromethane	23.0	D	µg/kg		20.0	0.00	115	70-130		
Bromodichloromethane	21.3	D	µg/kg		20.0	0.00	107	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721215 - SW846 5035A Soil (high level)										
Matrix Spike (1721215-MS1)	Source: SC42525-22				Prepared & Analyzed: 22-Dec-17					
Bromoform	22.1	D	µg/kg		20.0	0.00	111	70-130		
Bromomethane	3.84	QM7, D	µg/kg		20.0	0.00	19	70-130		
2-Butanone (MEK)	16.9	D	µg/kg		20.0	0.00	84	70-130		
n-Butylbenzene	20.1	D	µg/kg		20.0	0.00	101	70-130		
sec-Butylbenzene	22.0	D	µg/kg		20.0	0.00	110	70-130		
tert-Butylbenzene	22.3	D	µg/kg		20.0	0.00	112	70-130		
Carbon disulfide	16.8	D	µg/kg		20.0	0.00	84	70-130		
Carbon tetrachloride	21.4	D	µg/kg		20.0	0.00	107	70-130		
Chlorobenzene	20.8	D	µg/kg		20.0	0.00	104	70-130		
Chloroethane	4.80	QM7, D	µg/kg		20.0	0.00	24	70-130		
Chloroform	20.4	D	µg/kg		20.0	0.00	102	70-130		
Chloromethane	16.4	D	µg/kg		20.0	0.00	82	70-130		
2-Chlorotoluene	24.2	D	µg/kg		20.0	0.00	121	70-130		
4-Chlorotoluene	21.6	D	µg/kg		20.0	0.00	108	70-130		
1,2-Dibromo-3-chloropropane	18.4	D	µg/kg		20.0	0.00	92	70-130		
Dibromochloromethane	22.6	D	µg/kg		20.0	0.00	113	70-130		
1,2-Dibromoethane (EDB)	23.9	D	µg/kg		20.0	0.00	119	70-130		
Dibromomethane	21.0	D	µg/kg		20.0	0.00	105	70-130		
1,2-Dichlorobenzene	21.4	D	µg/kg		20.0	0.00	107	70-130		
1,3-Dichlorobenzene	24.2	D	µg/kg		20.0	0.00	121	70-130		
1,4-Dichlorobenzene	19.8	D	µg/kg		20.0	0.00	99	70-130		
Dichlorodifluoromethane (Freon12)	22.5	D	µg/kg		20.0	0.00	113	70-130		
1,1-Dichloroethane	19.5	D	µg/kg		20.0	0.00	98	70-130		
1,2-Dichloroethane	21.4	D	µg/kg		20.0	0.00	107	70-130		
1,1-Dichloroethene	17.1	D	µg/kg		20.0	0.00	86	70-130		
cis-1,2-Dichloroethene	22.4	D	µg/kg		20.0	0.00	112	70-130		
trans-1,2-Dichloroethene	19.6	D	µg/kg		20.0	0.00	98	70-130		
1,2-Dichloropropane	19.6	D	µg/kg		20.0	0.00	98	70-130		
1,3-Dichloropropane	21.2	D	µg/kg		20.0	0.00	106	70-130		
2,2-Dichloropropane	20.4	D	µg/kg		20.0	0.00	102	70-130		
1,1-Dichloropropene	20.1	D	µg/kg		20.0	0.00	100	70-130		
cis-1,3-Dichloropropene	20.3	D	µg/kg		20.0	0.00	101	70-130		
trans-1,3-Dichloropropene	21.5	D	µg/kg		20.0	0.00	108	70-130		
Ethylbenzene	20.4	D	µg/kg		20.0	0.00	102	70-130		
Hexachlorobutadiene	24.6	D	µg/kg		20.0	0.00	123	70-130		
2-Hexanone (MBK)	21.2	D	µg/kg		20.0	0.00	106	70-130		
Isopropylbenzene	21.2	D	µg/kg		20.0	0.00	106	70-130		
4-Isopropyltoluene	20.6	D	µg/kg		20.0	0.00	103	70-130		
Methyl tert-butyl ether	21.3	D	µg/kg		20.0	0.00	106	70-130		
4-Methyl-2-pentanone (MIBK)	21.0	D	µg/kg		20.0	0.00	105	70-130		
Methylene chloride	24.3	D	µg/kg		20.0	0.00	121	70-130		
Naphthalene	20.5	D	µg/kg		20.0	0.00	102	70-130		
n-Propylbenzene	20.5	D	µg/kg		20.0	0.00	103	70-130		
Styrene	21.5	D	µg/kg		20.0	0.00	108	70-130		
1,1,1,2-Tetrachloroethane	22.1	D	µg/kg		20.0	0.00	111	70-130		
1,1,1,2,2-Tetrachloroethane	21.9	D	µg/kg		20.0	0.00	109	70-130		
Tetrachloroethene	22.8	D	µg/kg		20.0	0.00	114	70-130		
Toluene	21.7	D	µg/kg		20.0	0.00	109	70-130		
1,2,3-Trichlorobenzene	22.8	D	µg/kg		20.0	0.00	114	70-130		
1,2,4-Trichlorobenzene	22.1	D	µg/kg		20.0	0.00	111	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721215 - SW846 5035A Soil (high level)										
Matrix Spike (1721215-MS1)				Source: SC42525-22			Prepared & Analyzed: 22-Dec-17			
1,3,5-Trichlorobenzene	22.3	D	µg/kg		20.0	0.00	112	70-130		
1,1,1-Trichloroethane	21.4	D	µg/kg		20.0	0.00	107	70-130		
1,1,2-Trichloroethane	22.3	D	µg/kg		20.0	0.00	112	70-130		
Trichloroethene	20.9	D	µg/kg		20.0	0.00	105	70-130		
Trichlorofluoromethane (Freon 11)	19.3	D	µg/kg		20.0	0.00	96	70-130		
1,2,3-Trichloropropane	21.6	D	µg/kg		20.0	0.00	108	70-130		
1,2,4-Trimethylbenzene	22.8	D	µg/kg		20.0	0.00	114	70-130		
1,3,5-Trimethylbenzene	22.5	D	µg/kg		20.0	0.00	112	70-130		
Vinyl chloride	5.44	QM7, D	µg/kg		20.0	0.00	27	70-130		
m,p-Xylene	20.9	D	µg/kg		20.0	0.00	105	70-130		
o-Xylene	21.3	D	µg/kg		20.0	0.00	107	70-130		
Tetrahydrofuran	18.9	D	µg/kg		20.0	0.00	94	70-130		
Ethyl ether	17.5	D	µg/kg		20.0	0.00	88	70-130		
Tert-amyl methyl ether	21.2	D	µg/kg		20.0	0.00	106	70-130		
Ethyl tert-butyl ether	20.8	D	µg/kg		20.0	0.00	104	70-130		
Di-isopropyl ether	18.4	D	µg/kg		20.0	0.00	92	70-130		
Tert-Butanol / butyl alcohol	98.3	QM7, D	µg/kg		200	0.00	49	70-130		
1,4-Dioxane	220	D	µg/kg		200	0.00	110	70-130		
trans-1,4-Dichloro-2-butene	19.8	D	µg/kg		20.0	0.00	99	70-130		
Ethanol	414	D	µg/kg		400	0.00	103	70-130		
Surrogate: 4-Bromofluorobenzene	54.4		µg/kg		50.0		109	70-130		
Surrogate: Toluene-d8	53.3		µg/kg		50.0		107	70-130		
Surrogate: 1,2-Dichloroethane-d4	51.3		µg/kg		50.0		103	70-130		
Surrogate: Dibromofluoromethane	51.0		µg/kg		50.0		102	70-130		
Matrix Spike Dup (1721215-MSD1)				Source: SC42525-22			Prepared & Analyzed: 22-Dec-17			
1,1,2-Trichlorotrifluoroethane (Freon 113)	24.5	D	µg/kg		20.0	0.00	122	70-130		30
Acetone	22.8	D	µg/kg		20.0	0.00	114	70-130		30
Acrylonitrile	27.3	QM7, D	µg/kg		20.0	0.00	136	70-130		30
Benzene	21.4	D	µg/kg		20.0	0.00	107	70-130	4	30
Bromobenzene	25.0	D	µg/kg		20.0	0.00	125	70-130	6	30
Bromochloromethane	24.0	D	µg/kg		20.0	0.00	120	70-130		30
Bromodichloromethane	21.8	D	µg/kg		20.0	0.00	109	70-130		30
Bromoform	23.6	D	µg/kg		20.0	0.00	118	70-130		30
Bromomethane	6.66	QM7, D	µg/kg		20.0	0.00	33	70-130		30
2-Butanone (MEK)	19.9	D	µg/kg		20.0	0.00	100	70-130		30
n-Butylbenzene	20.8	D	µg/kg		20.0	0.00	104	70-130		30
sec-Butylbenzene	22.6	D	µg/kg		20.0	0.00	113	70-130	3	30
tert-Butylbenzene	23.3	D	µg/kg		20.0	0.00	117	70-130	4	30
Carbon disulfide	19.5	D	µg/kg		20.0	0.00	98	70-130		30
Carbon tetrachloride	21.9	D	µg/kg		20.0	0.00	110	70-130		30
Chlorobenzene	21.5	D	µg/kg		20.0	0.00	107	70-130		30
Chloroethane	5.93	QM7, D	µg/kg		20.0	0.00	30	70-130		30
Chloroform	21.0	D	µg/kg		20.0	0.00	105	70-130		30
Chloromethane	15.8	D	µg/kg		20.0	0.00	79	70-130		30
2-Chlorotoluene	25.1	D	µg/kg		20.0	0.00	126	70-130	4	30
4-Chlorotoluene	22.3	D	µg/kg		20.0	0.00	112	70-130	4	30
1,2-Dibromo-3-chloropropane	18.7	D	µg/kg		20.0	0.00	94	70-130		30
Dibromochloromethane	23.6	D	µg/kg		20.0	0.00	118	70-130		30
1,2-Dibromoethane (EDB)	24.5	D	µg/kg		20.0	0.00	123	70-130		30
Dibromomethane	21.6	D	µg/kg		20.0	0.00	108	70-130		30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721215 - SW846 5035A Soil (high level)										
Matrix Spike Dup (1721215-MSD1)				Source: SC42525-22				Prepared & Analyzed: 22-Dec-17		
1,2-Dichlorobenzene	22.7	D	µg/kg		20.0	0.00	114	70-130	6	30
1,3-Dichlorobenzene	24.7	D	µg/kg		20.0	0.00	123	70-130	2	30
1,4-Dichlorobenzene	20.8	D	µg/kg		20.0	0.00	104	70-130		30
Dichlorodifluoromethane (Freon12)	22.8	D	µg/kg		20.0	0.00	114	70-130		30
1,1-Dichloroethane	20.0	D	µg/kg		20.0	0.00	100	70-130	2	30
1,2-Dichloroethane	21.8	D	µg/kg		20.0	0.00	109	70-130		30
1,1-Dichloroethene	18.3	D	µg/kg		20.0	0.00	91	70-130		30
cis-1,2-Dichloroethene	23.2	D	µg/kg		20.0	0.00	116	70-130		30
trans-1,2-Dichloroethene	20.7	D	µg/kg		20.0	0.00	104	70-130		30
1,2-Dichloropropane	19.8	D	µg/kg		20.0	0.00	99	70-130		30
1,3-Dichloropropane	21.6	D	µg/kg		20.0	0.00	108	70-130		30
2,2-Dichloropropane	20.5	D	µg/kg		20.0	0.00	102	70-130		30
1,1-Dichloropropene	20.9	D	µg/kg		20.0	0.00	104	70-130		30
cis-1,3-Dichloropropene	20.9	D	µg/kg		20.0	0.00	104	70-130		30
trans-1,3-Dichloropropene	22.4	D	µg/kg		20.0	0.00	112	70-130		30
Ethylbenzene	20.9	D	µg/kg		20.0	0.00	105	70-130	3	30
Hexachlorobutadiene	27.7	QM7, D	µg/kg		20.0	0.00	139	70-130		30
2-Hexanone (MBK)	22.7	D	µg/kg		20.0	0.00	113	70-130		30
Isopropylbenzene	22.2	D	µg/kg		20.0	0.00	111	70-130	5	30
4-Isopropyltoluene	21.5	D	µg/kg		20.0	0.00	107	70-130	4	30
Methyl tert-butyl ether	22.8	D	µg/kg		20.0	0.00	114	70-130		30
4-Methyl-2-pentanone (MIBK)	21.6	D	µg/kg		20.0	0.00	108	70-130		30
Methylene chloride	23.8	D	µg/kg		20.0	0.00	119	70-130		30
Naphthalene	21.7	D	µg/kg		20.0	0.00	109	70-130		30
n-Propylbenzene	21.3	D	µg/kg		20.0	0.00	106	70-130	4	30
Styrene	22.2	D	µg/kg		20.0	0.00	111	70-130	3	30
1,1,1,2-Tetrachloroethane	23.3	D	µg/kg		20.0	0.00	116	70-130		30
1,1,2,2-Tetrachloroethane	22.4	D	µg/kg		20.0	0.00	112	70-130		30
Tetrachloroethene	23.5	D	µg/kg		20.0	0.00	117	70-130		30
Toluene	22.3	D	µg/kg		20.0	0.00	111	70-130		30
1,2,3-Trichlorobenzene	24.1	D	µg/kg		20.0	0.00	120	70-130		30
1,2,4-Trichlorobenzene	23.8	D	µg/kg		20.0	0.00	119	70-130		30
1,3,5-Trichlorobenzene	23.9	D	µg/kg		20.0	0.00	120	70-130		30
1,1,1-Trichloroethane	22.0	D	µg/kg		20.0	0.00	110	70-130		30
1,1,2-Trichloroethane	23.1	D	µg/kg		20.0	0.00	116	70-130		30
Trichloroethene	21.2	D	µg/kg		20.0	0.00	106	70-130	1	30
Trichlorofluoromethane (Freon 11)	20.0	D	µg/kg		20.0	0.00	100	70-130		30
1,2,3-Trichloropropane	23.3	D	µg/kg		20.0	0.00	116	70-130		30
1,2,4-Trimethylbenzene	23.4	D	µg/kg		20.0	0.00	117	70-130	3	30
1,3,5-Trimethylbenzene	23.2	D	µg/kg		20.0	0.00	116	70-130	3	30
Vinyl chloride	5.52	QM7, D	µg/kg		20.0	0.00	28	70-130		30
m,p-Xylene	21.5	D	µg/kg		20.0	0.00	108	70-130	3	30
o-Xylene	21.8	D	µg/kg		20.0	0.00	109	70-130	2	30
Tetrahydrofuran	18.8	D	µg/kg		20.0	0.00	94	70-130		30
Ethyl ether	18.3	D	µg/kg		20.0	0.00	92	70-130		30
Tert-amyl methyl ether	21.3	D	µg/kg		20.0	0.00	107	70-130		30
Ethyl tert-butyl ether	22.0	D	µg/kg		20.0	0.00	110	70-130		30
Di-isopropyl ether	19.4	D	µg/kg		20.0	0.00	97	70-130	5	30
Tert-Butanol / butyl alcohol	165	D	µg/kg		200	0.00	83	70-130		30
1,4-Dioxane	206	D	µg/kg		200	0.00	103	70-130		30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721215 - SW846 5035A Soil (high level)										
Matrix Spike Dup (1721215-MSD1)										
				Source: SC42525-22						
trans-1,4-Dichloro-2-butene	21.1	D	µg/kg		20.0	0.00	105	70-130		30
Ethanol	434	D	µg/kg		400	0.00	108	70-130		30
Surrogate: 4-Bromofluorobenzene	54.4		µg/kg		50.0		109	70-130		
Surrogate: Toluene-d8	51.9		µg/kg		50.0		104	70-130		
Surrogate: 1,2-Dichloroethane-d4	51.3		µg/kg		50.0		103	70-130		
Surrogate: Dibromofluoromethane	50.9		µg/kg		50.0		102	70-130		
Batch 1721296 - SW846 5035A Soil (low level)										
Blank (1721296-BLK1)										
1,1,2-Trichlorotrifluoroethane (Freon 113)	< 5.00	U	µg/kg wet	5.00						
Acetone	< 50.0	U	µg/kg wet	50.0						
Acrylonitrile	< 5.00	U	µg/kg wet	5.00						
Benzene	< 5.00	U	µg/kg wet	5.00						
Bromobenzene	< 5.00	U	µg/kg wet	5.00						
Bromochloromethane	< 5.00	U	µg/kg wet	5.00						
Bromodichloromethane	< 5.00	U	µg/kg wet	5.00						
Bromoform	< 5.00	U	µg/kg wet	5.00						
Bromomethane	< 10.0	U	µg/kg wet	10.0						
2-Butanone (MEK)	< 10.0	U	µg/kg wet	10.0						
n-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
sec-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
tert-Butylbenzene	< 5.00	U	µg/kg wet	5.00						
Carbon disulfide	< 10.0	U	µg/kg wet	10.0						
Carbon tetrachloride	< 5.00	U	µg/kg wet	5.00						
Chlorobenzene	< 5.00	U	µg/kg wet	5.00						
Chloroethane	< 10.0	U	µg/kg wet	10.0						
Chloroform	< 5.00	U	µg/kg wet	5.00						
Chloromethane	< 10.0	U	µg/kg wet	10.0						
2-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
4-Chlorotoluene	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromo-3-chloropropane	< 10.0	U	µg/kg wet	10.0						
Dibromochloromethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dibromoethane (EDB)	< 5.00	U	µg/kg wet	5.00						
Dibromomethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,4-Dichlorobenzene	< 5.00	U	µg/kg wet	5.00						
Dichlorodifluoromethane (Freon12)	< 10.0	U	µg/kg wet	10.0						
1,1-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
cis-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
trans-1,2-Dichloroethene	< 5.00	U	µg/kg wet	5.00						
1,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,3-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
2,2-Dichloropropane	< 5.00	U	µg/kg wet	5.00						
1,1-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
cis-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
trans-1,3-Dichloropropene	< 5.00	U	µg/kg wet	5.00						
Ethylbenzene	< 5.00	U	µg/kg wet	5.00						
Hexachlorobutadiene	< 5.00	U	µg/kg wet	5.00						

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721296 - SW846 5035A Soil (low level)										
Blank (1721296-BLK1)					Prepared & Analyzed: 27-Dec-17					
2-Hexanone (MBK)	< 10.0	U	µg/kg wet	10.0						
Isopropylbenzene	< 5.00	U	µg/kg wet	5.00						
4-Isopropyltoluene	< 5.00	U	µg/kg wet	5.00						
Methyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
4-Methyl-2-pentanone (MIBK)	< 10.0	U	µg/kg wet	10.0						
Methylene chloride	< 10.0	U	µg/kg wet	10.0						
Naphthalene	< 5.00	U	µg/kg wet	5.00						
n-Propylbenzene	< 5.00	U	µg/kg wet	5.00						
Styrene	< 5.00	U	µg/kg wet	5.00						
1,1,1,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2,2-Tetrachloroethane	< 5.00	U	µg/kg wet	5.00						
Tetrachloroethene	< 5.00	U	µg/kg wet	5.00						
Toluene	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trichlorobenzene	< 5.00	U	µg/kg wet	5.00						
1,1,1-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
1,1,2-Trichloroethane	< 5.00	U	µg/kg wet	5.00						
Trichloroethene	< 5.00	U	µg/kg wet	5.00						
Trichlorofluoromethane (Freon 11)	< 5.00	U	µg/kg wet	5.00						
1,2,3-Trichloropropane	< 5.00	U	µg/kg wet	5.00						
1,2,4-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
1,3,5-Trimethylbenzene	< 5.00	U	µg/kg wet	5.00						
Vinyl chloride	< 5.00	U	µg/kg wet	5.00						
m,p-Xylene	< 10.0	U	µg/kg wet	10.0						
o-Xylene	< 5.00	U	µg/kg wet	5.00						
Tetrahydrofuran	< 10.0	U	µg/kg wet	10.0						
Ethyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-amyl methyl ether	< 5.00	U	µg/kg wet	5.00						
Ethyl tert-butyl ether	< 5.00	U	µg/kg wet	5.00						
Di-isopropyl ether	< 5.00	U	µg/kg wet	5.00						
Tert-Butanol / butyl alcohol	< 50.0	U	µg/kg wet	50.0						
1,4-Dioxane	< 100	U	µg/kg wet	100						
trans-1,4-Dichloro-2-butene	< 25.0	U	µg/kg wet	25.0						
Ethanol	< 1000	U	µg/kg wet	1000						
Surrogate: 4-Bromofluorobenzene	47.8		µg/kg		50.0		96	70-130		
Surrogate: Toluene-d8	50.6		µg/kg		50.0		101	70-130		
Surrogate: 1,2-Dichloroethane-d4	64.0		µg/kg		50.0		128	70-130		
Surrogate: Dibromofluoromethane	55.4		µg/kg		50.0		111	70-130		
LCS (1721296-BS1)					Prepared & Analyzed: 27-Dec-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	16.8		µg/kg		20.0		84	70-130		
Acetone	13.2		µg/kg		20.0		66	70-130		
Acrylonitrile	16.8		µg/kg		20.0		84	70-130		
Benzene	18.6		µg/kg		20.0		93	70-130		
Bromobenzene	20.9		µg/kg		20.0		105	70-130		
Bromochloromethane	19.8		µg/kg		20.0		99	70-130		
Bromodichloromethane	20.5		µg/kg		20.0		103	70-130		
Bromoform	20.3		µg/kg		20.0		101	70-130		
Bromomethane	20.6		µg/kg		20.0		103	70-130		
2-Butanone (MEK)	19.0		µg/kg		20.0		95	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721296 - SW846 5035A Soil (low level)										
LCS (1721296-BS1)					Prepared & Analyzed: 27-Dec-17					
n-Butylbenzene	16.0		µg/kg		20.0		80	70-130		
sec-Butylbenzene	20.5		µg/kg		20.0		103	70-130		
tert-Butylbenzene	19.3		µg/kg		20.0		96	70-130		
Carbon disulfide	16.7		µg/kg		20.0		83	70-130		
Carbon tetrachloride	19.0		µg/kg		20.0		95	70-130		
Chlorobenzene	19.1		µg/kg		20.0		95	70-130		
Chloroethane	20.2		µg/kg		20.0		101	70-130		
Chloroform	19.2		µg/kg		20.0		96	70-130		
Chloromethane	17.9		µg/kg		20.0		90	70-130		
2-Chlorotoluene	22.4		µg/kg		20.0		112	70-130		
4-Chlorotoluene	21.5		µg/kg		20.0		108	70-130		
1,2-Dibromo-3-chloropropane	19.1		µg/kg		20.0		95	70-130		
Dibromochloromethane	18.9		µg/kg		20.0		94	70-130		
1,2-Dibromoethane (EDB)	19.6		µg/kg		20.0		98	70-130		
Dibromomethane	20.1		µg/kg		20.0		101	70-130		
1,2-Dichlorobenzene	19.4		µg/kg		20.0		97	70-130		
1,3-Dichlorobenzene	22.7		µg/kg		20.0		114	70-130		
1,4-Dichlorobenzene	18.3		µg/kg		20.0		92	70-130		
Dichlorodifluoromethane (Freon12)	19.1		µg/kg		20.0		96	70-130		
1,1-Dichloroethane	18.4		µg/kg		20.0		92	70-130		
1,2-Dichloroethane	18.8		µg/kg		20.0		94	70-130		
1,1-Dichloroethene	17.9		µg/kg		20.0		90	70-130		
cis-1,2-Dichloroethene	19.4		µg/kg		20.0		97	70-130		
trans-1,2-Dichloroethene	17.7		µg/kg		20.0		88	70-130		
1,2-Dichloropropane	18.4		µg/kg		20.0		92	70-130		
1,3-Dichloropropane	19.3		µg/kg		20.0		97	70-130		
2,2-Dichloropropane	17.0		µg/kg		20.0		85	70-130		
1,1-Dichloropropene	16.5		µg/kg		20.0		83	70-130		
cis-1,3-Dichloropropene	17.1		µg/kg		20.0		86	70-130		
trans-1,3-Dichloropropene	17.3		µg/kg		20.0		86	70-130		
Ethylbenzene	18.6		µg/kg		20.0		93	70-130		
Hexachlorobutadiene	17.6		µg/kg		20.0		88	70-130		
2-Hexanone (MBK)	16.5		µg/kg		20.0		83	70-130		
Isopropylbenzene	19.2		µg/kg		20.0		96	70-130		
4-Isopropyltoluene	17.6		µg/kg		20.0		88	70-130		
Methyl tert-butyl ether	19.2		µg/kg		20.0		96	70-130		
4-Methyl-2-pentanone (MIBK)	17.1		µg/kg		20.0		85	70-130		
Methylene chloride	18.6		µg/kg		20.0		93	70-130		
Naphthalene	12.3	QC2	µg/kg		20.0		61	70-130		
n-Propylbenzene	19.3		µg/kg		20.0		96	70-130		
Styrene	19.2		µg/kg		20.0		96	70-130		
1,1,1,2-Tetrachloroethane	20.4		µg/kg		20.0		102	70-130		
1,1,2,2-Tetrachloroethane	21.8		µg/kg		20.0		109	70-130		
Tetrachloroethene	17.9		µg/kg		20.0		89	70-130		
Toluene	18.7		µg/kg		20.0		93	70-130		
1,2,3-Trichlorobenzene	14.9		µg/kg		20.0		74	70-130		
1,2,4-Trichlorobenzene	13.7	QC2	µg/kg		20.0		68	70-130		
1,3,5-Trichlorobenzene	16.2		µg/kg		20.0		81	70-130		
1,1,1-Trichloroethane	18.8		µg/kg		20.0		94	70-130		
1,1,2-Trichloroethane	20.6		µg/kg		20.0		103	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721296 - SW846 5035A Soil (low level)										
LCS (1721296-BS1)					Prepared & Analyzed: 27-Dec-17					
Trichloroethene	18.5		µg/kg		20.0		92	70-130		
Trichlorofluoromethane (Freon 11)	18.1		µg/kg		20.0		91	70-130		
1,2,3-Trichloropropane	21.5		µg/kg		20.0		108	70-130		
1,2,4-Trimethylbenzene	22.4		µg/kg		20.0		112	70-130		
1,3,5-Trimethylbenzene	21.6		µg/kg		20.0		108	70-130		
Vinyl chloride	16.8		µg/kg		20.0		84	70-130		
m,p-Xylene	19.5		µg/kg		20.0		98	70-130		
o-Xylene	20.6		µg/kg		20.0		103	70-130		
Tetrahydrofuran	16.1		µg/kg		20.0		80	70-130		
Ethyl ether	19.7		µg/kg		20.0		98	70-130		
Tert-amyl methyl ether	17.7		µg/kg		20.0		88	70-130		
Ethyl tert-butyl ether	17.8		µg/kg		20.0		89	70-130		
Di-isopropyl ether	16.1		µg/kg		20.0		80	70-130		
Tert-Butanol / butyl alcohol	194		µg/kg		200		97	70-130		
1,4-Dioxane	166		µg/kg		200		83	70-130		
trans-1,4-Dichloro-2-butene	18.4		µg/kg		20.0		92	70-130		
Ethanol	392		µg/kg		400		98	70-130		
Surrogate: 4-Bromofluorobenzene	54.6		µg/kg		50.0		109	70-130		
Surrogate: Toluene-d8	49.7		µg/kg		50.0		99	70-130		
Surrogate: 1,2-Dichloroethane-d4	50.3		µg/kg		50.0		101	70-130		
Surrogate: Dibromofluoromethane	50.5		µg/kg		50.0		101	70-130		
LCS Dup (1721296-BSD1)					Prepared & Analyzed: 27-Dec-17					
1,1,2-Trichlorotrifluoroethane (Freon 113)	16.2		µg/kg		20.0		81	70-130	3	30
Acetone	12.2		µg/kg		20.0		61	70-130	8	30
Acrylonitrile	17.6		µg/kg		20.0		88	70-130	4	30
Benzene	18.2		µg/kg		20.0		91	70-130	2	30
Bromobenzene	21.1		µg/kg		20.0		106	70-130	0.9	30
Bromochloromethane	19.5		µg/kg		20.0		98	70-130	1	30
Bromodichloromethane	19.6		µg/kg		20.0		98	70-130	5	30
Bromoform	19.6		µg/kg		20.0		98	70-130	3	30
Bromomethane	18.7		µg/kg		20.0		93	70-130	10	30
2-Butanone (MEK)	16.6		µg/kg		20.0		83	70-130	13	30
n-Butylbenzene	15.8		µg/kg		20.0		79	70-130	0.9	30
sec-Butylbenzene	20.0		µg/kg		20.0		100	70-130	2	30
tert-Butylbenzene	18.9		µg/kg		20.0		95	70-130	2	30
Carbon disulfide	16.8		µg/kg		20.0		84	70-130	0.6	30
Carbon tetrachloride	17.8		µg/kg		20.0		89	70-130	7	30
Chlorobenzene	18.7		µg/kg		20.0		93	70-130	2	30
Chloroethane	20.1		µg/kg		20.0		100	70-130	0.7	30
Chloroform	18.7		µg/kg		20.0		93	70-130	3	30
Chloromethane	16.7		µg/kg		20.0		84	70-130	7	30
2-Chlorotoluene	21.9		µg/kg		20.0		110	70-130	2	30
4-Chlorotoluene	21.3		µg/kg		20.0		106	70-130	1	30
1,2-Dibromo-3-chloropropane	18.1		µg/kg		20.0		91	70-130	5	30
Dibromochloromethane	18.6		µg/kg		20.0		93	70-130	2	30
1,2-Dibromoethane (EDB)	19.5		µg/kg		20.0		97	70-130	0.5	30
Dibromomethane	19.6		µg/kg		20.0		98	70-130	3	30
1,2-Dichlorobenzene	19.2		µg/kg		20.0		96	70-130	1	30
1,3-Dichlorobenzene	22.2		µg/kg		20.0		111	70-130	2	30
1,4-Dichlorobenzene	18.2		µg/kg		20.0		91	70-130	0.5	30

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8260C										
Batch 1721296 - SW846 5035A Soil (low level)										
LCS Dup (1721296-BSD1)					Prepared & Analyzed: 27-Dec-17					
Dichlorodifluoromethane (Freon12)	17.6		µg/kg		20.0		88	70-130	8	30
1,1-Dichloroethane	17.6		µg/kg		20.0		88	70-130	4	30
1,2-Dichloroethane	18.3		µg/kg		20.0		91	70-130	3	30
1,1-Dichloroethene	17.3		µg/kg		20.0		87	70-130	3	30
cis-1,2-Dichloroethene	19.1		µg/kg		20.0		95	70-130	2	30
trans-1,2-Dichloroethene	17.1		µg/kg		20.0		85	70-130	4	30
1,2-Dichloropropane	18.2		µg/kg		20.0		91	70-130	1	30
1,3-Dichloropropane	19.7		µg/kg		20.0		98	70-130	2	30
2,2-Dichloropropane	16.2		µg/kg		20.0		81	70-130	5	30
1,1-Dichloropropene	15.3		µg/kg		20.0		77	70-130	8	30
cis-1,3-Dichloropropene	16.4		µg/kg		20.0		82	70-130	4	30
trans-1,3-Dichloropropene	16.6		µg/kg		20.0		83	70-130	4	30
Ethylbenzene	18.4		µg/kg		20.0		92	70-130	1	30
Hexachlorobutadiene	17.3		µg/kg		20.0		86	70-130	2	30
2-Hexanone (MBK)	16.1		µg/kg		20.0		81	70-130	3	30
Isopropylbenzene	19.0		µg/kg		20.0		95	70-130	1	30
4-Isopropyltoluene	17.6		µg/kg		20.0		88	70-130	0.3	30
Methyl tert-butyl ether	19.0		µg/kg		20.0		95	70-130	1	30
4-Methyl-2-pentanone (MIBK)	16.0		µg/kg		20.0		80	70-130	6	30
Methylene chloride	20.8		µg/kg		20.0		104	70-130	11	30
Naphthalene	12.1	QC2	µg/kg		20.0		61	70-130	1	30
n-Propylbenzene	19.1		µg/kg		20.0		95	70-130	1	30
Styrene	18.8		µg/kg		20.0		94	70-130	2	30
1,1,1,2-Tetrachloroethane	20.3		µg/kg		20.0		102	70-130	0.4	30
1,1,2,2-Tetrachloroethane	21.6		µg/kg		20.0		108	70-130	0.9	30
Tetrachloroethene	17.6		µg/kg		20.0		88	70-130	1	30
Toluene	18.1		µg/kg		20.0		91	70-130	3	30
1,2,3-Trichlorobenzene	14.2		µg/kg		20.0		71	70-130	5	30
1,2,4-Trichlorobenzene	13.5	QC2	µg/kg		20.0		68	70-130	1	30
1,3,5-Trichlorobenzene	16.4		µg/kg		20.0		82	70-130	0.7	30
1,1,1-Trichloroethane	18.1		µg/kg		20.0		91	70-130	3	30
1,1,2-Trichloroethane	20.3		µg/kg		20.0		101	70-130	1	30
Trichloroethene	18.0		µg/kg		20.0		90	70-130	3	30
Trichlorofluoromethane (Freon 11)	16.8		µg/kg		20.0		84	70-130	7	30
1,2,3-Trichloropropane	21.1		µg/kg		20.0		106	70-130	2	30
1,2,4-Trimethylbenzene	21.9		µg/kg		20.0		110	70-130	2	30
1,3,5-Trimethylbenzene	21.2		µg/kg		20.0		106	70-130	2	30
Vinyl chloride	17.9		µg/kg		20.0		89	70-130	6	30
m,p-Xylene	19.1		µg/kg		20.0		95	70-130	2	30
o-Xylene	20.4		µg/kg		20.0		102	70-130	1	30
Tetrahydrofuran	17.2		µg/kg		20.0		86	70-130	7	30
Ethyl ether	19.3		µg/kg		20.0		96	70-130	2	30
Tert-amyl methyl ether	17.5		µg/kg		20.0		87	70-130	1	30
Ethyl tert-butyl ether	17.6		µg/kg		20.0		88	70-130	1	30
Di-isopropyl ether	15.8		µg/kg		20.0		79	70-130	2	30
Tert-Butanol / butyl alcohol	187		µg/kg		200		93	70-130	4	30
1,4-Dioxane	191		µg/kg		200		96	70-130	14	30
trans-1,4-Dichloro-2-butene	18.1		µg/kg		20.0		90	70-130	2	30
Ethanol	400		µg/kg		400		100	70-130	2	30
Surrogate: 4-Bromofluorobenzene	54.9		µg/kg		50.0		110	70-130		

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Volatile Organic Compounds - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8260C</u>										
Batch 1721296 - SW846 5035A Soil (low level)										
<u>LCS Dup (1721296-BSD1)</u>					<u>Prepared & Analyzed: 27-Dec-17</u>					
Surrogate: Toluene-d8	49.2		µg/kg		50.0		98	70-130		
Surrogate: 1,2-Dichloroethane-d4	49.5		µg/kg		50.0		99	70-130		
Surrogate: Dibromofluoromethane	50.1		µg/kg		50.0		100	70-130		
<u>SW846 8260C TICs</u>										
Batch 1721045 - SW846 5035A Soil (high level)										
<u>Blank (1721045-BLK1)</u>					<u>Prepared & Analyzed: 20-Dec-17</u>					
Tentatively Identified Compounds	None found		µg/kg wet							
Batch 1721132 - SW846 5035A Soil (low level)										
<u>Blank (1721132-BLK1)</u>					<u>Prepared & Analyzed: 21-Dec-17</u>					
Tentatively Identified Compounds	None found		µg/kg wet							
Batch 1721214 - SW846 5035A Soil (low level)										
<u>Blank (1721214-BLK1)</u>					<u>Prepared & Analyzed: 22-Dec-17</u>					
Tentatively Identified Compounds	None found		µg/kg wet							
Batch 1721215 - SW846 5035A Soil (high level)										
<u>Blank (1721215-BLK1)</u>					<u>Prepared & Analyzed: 22-Dec-17</u>					
Tentatively Identified Compounds	None found		µg/kg wet							
Batch 1721296 - SW846 5035A Soil (low level)										
<u>Blank (1721296-BLK1)</u>					<u>Prepared & Analyzed: 27-Dec-17</u>					
Tentatively Identified Compounds	None found		µg/kg wet							

Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1721023 - SW846 3546										
Blank (1721023-BLK1)	<u>Prepared: 20-Dec-17 Analyzed: 22-Dec-17</u>									
Acenaphthene	< 66.3	U	µg/kg wet	66.3						
Acenaphthylene	< 66.3	U	µg/kg wet	66.3						
Aniline	< 328	U	µg/kg wet	328						
Anthracene	< 66.3	U	µg/kg wet	66.3						
Azobenzene/Diphenyldiazene	< 328	U	µg/kg wet	328						
Benzidine	< 328	U	µg/kg wet	328						
Benzo (a) anthracene	< 66.3	U	µg/kg wet	66.3						
Benzo (a) pyrene	< 66.3	U	µg/kg wet	66.3						
Benzo (b) fluoranthene	< 66.3	U	µg/kg wet	66.3						
Benzo (g,h,i) perylene	< 66.3	U	µg/kg wet	66.3						
Benzo (k) fluoranthene	< 66.3	U	µg/kg wet	66.3						
Benzoic acid	< 328	U	µg/kg wet	328						
Benzyl alcohol	< 328	U	µg/kg wet	328						
Bis(2-chloroethoxy)methane	< 328	U	µg/kg wet	328						
Bis(2-chloroethyl)ether	< 166	U	µg/kg wet	166						
Bis(2-chloroisopropyl)ether	< 166	U	µg/kg wet	166						
Bis(2-ethylhexyl)phthalate	< 166	U	µg/kg wet	166						
4-Bromophenyl phenyl ether	< 328	U	µg/kg wet	328						
Butyl benzyl phthalate	< 328	U	µg/kg wet	328						
Carbazole	< 166	U	µg/kg wet	166						
4-Chloro-3-methylphenol	< 328	U	µg/kg wet	328						
4-Chloroaniline	< 166	U	µg/kg wet	166						
2-Chloronaphthalene	< 328	U	µg/kg wet	328						
2-Chlorophenol	< 166	U	µg/kg wet	166						
4-Chlorophenyl phenyl ether	< 328	U	µg/kg wet	328						
Chrysene	< 66.3	U	µg/kg wet	66.3						
Dibenzo (a,h) anthracene	< 66.3	U	µg/kg wet	66.3						
Dibenzofuran	< 166	U	µg/kg wet	166						
1,2-Dichlorobenzene	< 328	U	µg/kg wet	328						
1,3-Dichlorobenzene	< 328	U	µg/kg wet	328						
1,4-Dichlorobenzene	< 328	U	µg/kg wet	328						
3,3'-Dichlorobenzidine	< 328	U	µg/kg wet	328						
2,4-Dichlorophenol	< 166	U	µg/kg wet	166						
Diethyl phthalate	< 328	U	µg/kg wet	328						
Dimethyl phthalate	< 328	U	µg/kg wet	328						
2,4-Dimethylphenol	< 328	U	µg/kg wet	328						
Di-n-butyl phthalate	< 328	U	µg/kg wet	328						
4,6-Dinitro-2-methylphenol	< 328	U	µg/kg wet	328						
2,4-Dinitrophenol	< 328	U	µg/kg wet	328						
2,4-Dinitrotoluene	< 166	U	µg/kg wet	166						
2,6-Dinitrotoluene	< 166	U	µg/kg wet	166						
Di-n-octyl phthalate	< 328	U	µg/kg wet	328						
Fluoranthene	< 66.3	U	µg/kg wet	66.3						
Fluorene	< 66.3	U	µg/kg wet	66.3						
Hexachlorobenzene	< 166	U	µg/kg wet	166						
Hexachlorobutadiene	< 166	U	µg/kg wet	166						
Hexachlorocyclopentadiene	< 166	U	µg/kg wet	166						
Hexachloroethane	< 166	U	µg/kg wet	166						
Indeno (1,2,3-cd) pyrene	< 66.3	U	µg/kg wet	66.3						
Isophorone	< 166	U	µg/kg wet	166						

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8270D</u>										
Batch 1721023 - SW846 3546										
<u>Blank (1721023-BLK1)</u>	<u>Prepared: 20-Dec-17 Analyzed: 22-Dec-17</u>									
2-Methylnaphthalene	< 66.3	U	µg/kg wet	66.3						
2-Methylphenol	< 328	U	µg/kg wet	328						
3 & 4-Methylphenol	< 328	U	µg/kg wet	328						
Naphthalene	< 66.3	U	µg/kg wet	66.3						
2-Nitroaniline	< 328	U	µg/kg wet	328						
3-Nitroaniline	< 328	U	µg/kg wet	328						
4-Nitroaniline	< 166	U	µg/kg wet	166						
Nitrobenzene	< 166	U	µg/kg wet	166						
2-Nitrophenol	< 166	U	µg/kg wet	166						
4-Nitrophenol	< 1310	U	µg/kg wet	1310						
N-Nitrosodimethylamine	< 166	U	µg/kg wet	166						
N-Nitrosodi-n-propylamine	< 166	U	µg/kg wet	166						
N-Nitrosodiphenylamine	< 328	U	µg/kg wet	328						
Pentachlorophenol	< 328	U	µg/kg wet	328						
Phenanthrene	< 66.3	U	µg/kg wet	66.3						
Phenol	< 328	U	µg/kg wet	328						
Pyrene	< 66.3	U	µg/kg wet	66.3						
Pyridine	< 328	U	µg/kg wet	328						
1,2,4-Trichlorobenzene	< 328	U	µg/kg wet	328						
1-Methylnaphthalene	< 66.3	U	µg/kg wet	66.3						
2,4,5-Trichlorophenol	< 328	U	µg/kg wet	328						
2,4,6-Trichlorophenol	< 166	U	µg/kg wet	166						
Pentachloronitrobenzene	< 328	U	µg/kg wet	328						
1,2,4,5-Tetrachlorobenzene	< 328	U	µg/kg wet	328						
Surrogate: 2-Fluorobiphenyl	1060		µg/kg wet		1660		64	30-130		
Surrogate: 2-Fluorophenol	1110		µg/kg wet		1660		67	30-130		
Surrogate: Nitrobenzene-d5	1050		µg/kg wet		1660		63	30-130		
Surrogate: Phenol-d5	1130		µg/kg wet		1660		68	30-130		
Surrogate: Terphenyl-dl4	1320		µg/kg wet		1660		79	30-130		
Surrogate: 2,4,6-Tribromophenol	876		µg/kg wet		1660		53	30-130		
<u>LCS (1721023-BS1)</u>										
<u>Prepared: 20-Dec-17 Analyzed: 22-Dec-17</u>										
Acenaphthene	1100		µg/kg wet	66.4	1660		66	40-140		
Acenaphthylene	1090		µg/kg wet	66.4	1660		66	40-140		
Aniline	702		µg/kg wet	329	1660		42	40-140		
Anthracene	1160		µg/kg wet	66.4	1660		70	40-140		
Azobenzene/Diphenyldiazene	1020		µg/kg wet	329	1660		62	40-140		
Benzidine	2030		µg/kg wet	329	1660		122	40-140		
Benzo (a) anthracene	1180		µg/kg wet	66.4	1660		71	40-140		
Benzo (a) pyrene	1170		µg/kg wet	66.4	1660		70	40-140		
Benzo (b) fluoranthene	1020		µg/kg wet	66.4	1660		62	40-140		
Benzo (g,h,i) perylene	1040		µg/kg wet	66.4	1660		62	40-140		
Benzo (k) fluoranthene	1160		µg/kg wet	66.4	1660		70	40-140		
Benzoic acid	216	QC2, J	µg/kg wet	329	1660		13	30-130		
Benzyl alcohol	1110		µg/kg wet	329	1660		67	40-140		
Bis(2-chloroethoxy)methane	862		µg/kg wet	329	1660		52	40-140		
Bis(2-chloroethyl)ether	932		µg/kg wet	166	1660		56	40-140		
Bis(2-chloroisopropyl)ether	853		µg/kg wet	166	1660		51	40-140		
Bis(2-ethylhexyl)phthalate	1180		µg/kg wet	166	1660		71	40-140		
4-Bromophenyl phenyl ether	1130		µg/kg wet	329	1660		68	40-140		
Butyl benzyl phthalate	1140		µg/kg wet	329	1660		68	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1721023 - SW846 3546										
LCS (1721023-BS1)	Prepared: 20-Dec-17 Analyzed: 22-Dec-17									
Carbazole	1440		µg/kg wet	166	1660		87	40-140		
4-Chloro-3-methylphenol	1100		µg/kg wet	329	1660		66	30-130		
4-Chloroaniline	696		µg/kg wet	166	1660		42	40-140		
2-Chloronaphthalene	1280		µg/kg wet	329	1660		77	40-140		
2-Chlorophenol	1030		µg/kg wet	166	1660		62	30-130		
4-Chlorophenyl phenyl ether	1120		µg/kg wet	329	1660		68	40-140		
Chrysene	1110		µg/kg wet	66.4	1660		67	40-140		
Dibenzo (a,h) anthracene	1090		µg/kg wet	66.4	1660		66	40-140		
Dibenzofuran	1280		µg/kg wet	166	1660		77	40-140		
1,2-Dichlorobenzene	1170		µg/kg wet	329	1660		70	40-140		
1,3-Dichlorobenzene	1160		µg/kg wet	329	1660		70	40-140		
1,4-Dichlorobenzene	1140		µg/kg wet	329	1660		69	40-140		
3,3'-Dichlorobenzidine	1430		µg/kg wet	329	1660		86	40-140		
2,4-Dichlorophenol	1070		µg/kg wet	166	1660		64	30-130		
Diethyl phthalate	1130		µg/kg wet	329	1660		68	40-140		
Dimethyl phthalate	1010		µg/kg wet	329	1660		61	40-140		
2,4-Dimethylphenol	971		µg/kg wet	329	1660		59	30-130		
Di-n-butyl phthalate	1130		µg/kg wet	329	1660		68	40-140		
4,6-Dinitro-2-methylphenol	872		µg/kg wet	329	1660		53	30-130		
2,4-Dinitrophenol	434	QC2	µg/kg wet	329	1660		26	30-130		
2,4-Dinitrotoluene	1470		µg/kg wet	166	1660		89	40-140		
2,6-Dinitrotoluene	1420		µg/kg wet	166	1660		86	40-140		
Di-n-octyl phthalate	1130		µg/kg wet	329	1660		68	40-140		
Fluoranthene	1200		µg/kg wet	66.4	1660		72	40-140		
Fluorene	1100		µg/kg wet	66.4	1660		66	40-140		
Hexachlorobenzene	1350		µg/kg wet	166	1660		81	40-140		
Hexachlorobutadiene	1120		µg/kg wet	166	1660		67	40-140		
Hexachlorocyclopentadiene	1440		µg/kg wet	166	1660		87	40-140		
Hexachloroethane	1180		µg/kg wet	166	1660		71	40-140		
Indeno (1,2,3-cd) pyrene	1060		µg/kg wet	66.4	1660		64	40-140		
Isophorone	997		µg/kg wet	166	1660		60	40-140		
2-Methylnaphthalene	1240		µg/kg wet	66.4	1660		75	40-140		
2-Methylphenol	1020		µg/kg wet	329	1660		62	30-130		
3 & 4-Methylphenol	1020		µg/kg wet	329	1660		62	30-130		
Naphthalene	1030		µg/kg wet	66.4	1660		62	40-140		
2-Nitroaniline	1150		µg/kg wet	329	1660		69	40-140		
3-Nitroaniline	989		µg/kg wet	329	1660		60	40-140		
4-Nitroaniline	1380		µg/kg wet	166	1660		83	40-140		
Nitrobenzene	1210		µg/kg wet	166	1660		73	40-140		
2-Nitrophenol	1060		µg/kg wet	166	1660		64	30-130		
4-Nitrophenol	1070	J	µg/kg wet	1310	1660		64	30-130		
N-Nitrosodimethylamine	985		µg/kg wet	166	1660		59	40-140		
N-Nitrosodi-n-propylamine	995		µg/kg wet	166	1660		60	40-140		
N-Nitrosodiphenylamine	1200		µg/kg wet	329	1660		72	40-140		
Pentachlorophenol	548		µg/kg wet	329	1660		33	30-130		
Phenanthrene	1110		µg/kg wet	66.4	1660		67	40-140		
Phenol	1010		µg/kg wet	329	1660		61	30-130		
Pyrene	1180		µg/kg wet	66.4	1660		71	40-140		
Pyridine	796		µg/kg wet	329	1660		48	40-140		
1,2,4-Trichlorobenzene	1250		µg/kg wet	329	1660		75	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1721023 - SW846 3546										
LCS (1721023-BS1)					Prepared: 20-Dec-17 Analyzed: 22-Dec-17					
1-Methylnaphthalene	1050		µg/kg wet	66.4	1660		63	40-140		
2,4,5-Trichlorophenol	1070		µg/kg wet	329	1660		65	30-130		
2,4,6-Trichlorophenol	1030		µg/kg wet	166	1660		62	30-130		
Pentachloronitrobenzene	1210		µg/kg wet	329	1660		73	40-140		
1,2,4,5-Tetrachlorobenzene	1040		µg/kg wet	329	1660		63	40-140		
Surrogate: 2-Fluorobiphenyl	1040		µg/kg wet		1660		63	30-130		
Surrogate: 2-Fluorophenol	1070		µg/kg wet		1660		64	30-130		
Surrogate: Nitrobenzene-d5	1010		µg/kg wet		1660		61	30-130		
Surrogate: Phenol-d5	1040		µg/kg wet		1660		63	30-130		
Surrogate: Terphenyl-d14	1290		µg/kg wet		1660		78	30-130		
Surrogate: 2,4,6-Tribromophenol	1190		µg/kg wet		1660		72	30-130		
LCS Dup (1721023-BSD1)					Prepared: 20-Dec-17 Analyzed: 22-Dec-17					
Acenaphthene	1020		µg/kg wet	66.4	1660		61	40-140	8	30
Acenaphthylene	1010		µg/kg wet	66.4	1660		61	40-140	8	30
Aniline	652	QC2	µg/kg wet	328	1660		39	40-140	7	30
Anthracene	1080		µg/kg wet	66.4	1660		65	40-140	7	30
Azobenzene/Diphenyldiazene	965		µg/kg wet	328	1660		58	40-140	6	30
Benzidine	1490	QR9	µg/kg wet	328	1660		90	40-140	31	30
Benzo (a) anthracene	1080		µg/kg wet	66.4	1660		65	40-140	8	30
Benzo (a) pyrene	1080		µg/kg wet	66.4	1660		65	40-140	7	30
Benzo (b) fluoranthene	1160		µg/kg wet	66.4	1660		70	40-140	12	30
Benzo (g,h,i) perylene	1060		µg/kg wet	66.4	1660		64	40-140	2	30
Benzo (k) fluoranthene	1090		µg/kg wet	66.4	1660		66	40-140	6	30
Benzoic acid	198	QC2, J	µg/kg wet	328	1660		12	30-130	9	30
Benzyl alcohol	1030		µg/kg wet	328	1660		62	40-140	7	30
Bis(2-chloroethoxy)methane	785		µg/kg wet	328	1660		47	40-140	9	30
Bis(2-chloroethyl)ether	866		µg/kg wet	166	1660		52	40-140	7	30
Bis(2-chloroisopropyl)ether	793		µg/kg wet	166	1660		48	40-140	7	30
Bis(2-ethylhexyl)phthalate	1050		µg/kg wet	166	1660		63	40-140	12	30
4-Bromophenyl phenyl ether	1050		µg/kg wet	328	1660		63	40-140	8	30
Butyl benzyl phthalate	1040		µg/kg wet	328	1660		62	40-140	9	30
Carbazole	1290		µg/kg wet	166	1660		78	40-140	11	30
4-Chloro-3-methylphenol	1020		µg/kg wet	328	1660		61	30-130	8	30
4-Chloroaniline	645	QC2	µg/kg wet	166	1660		39	40-140	8	30
2-Chloronaphthalene	1200		µg/kg wet	328	1660		72	40-140	6	30
2-Chlorophenol	971		µg/kg wet	166	1660		59	30-130	6	30
4-Chlorophenyl phenyl ether	1030		µg/kg wet	328	1660		62	40-140	8	30
Chrysene	1050		µg/kg wet	66.4	1660		63	40-140	6	30
Dibenzo (a,h) anthracene	1110		µg/kg wet	66.4	1660		67	40-140	2	30
Dibenzofuran	1170		µg/kg wet	166	1660		71	40-140	9	30
1,2-Dichlorobenzene	1120		µg/kg wet	328	1660		67	40-140	5	30
1,3-Dichlorobenzene	1080		µg/kg wet	328	1660		65	40-140	7	30
1,4-Dichlorobenzene	1080		µg/kg wet	328	1660		65	40-140	6	30
3,3'-Dichlorobenzidine	1340		µg/kg wet	328	1660		81	40-140	6	30
2,4-Dichlorophenol	985		µg/kg wet	166	1660		59	30-130	8	30
Diethyl phthalate	1050		µg/kg wet	328	1660		63	40-140	8	30
Dimethyl phthalate	946		µg/kg wet	328	1660		57	40-140	7	30
2,4-Dimethylphenol	906		µg/kg wet	328	1660		55	30-130	7	30
Di-n-butyl phthalate	1050		µg/kg wet	328	1660		63	40-140	7	30
4,6-Dinitro-2-methylphenol	812		µg/kg wet	328	1660		49	30-130	7	30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1721023 - SW846 3546										
LCS Dup (1721023-BSD1)					Prepared: 20-Dec-17 Analyzed: 22-Dec-17					
2,4-Dinitrophenol	393	QC2	µg/kg wet	328	1660		24	30-130	10	30
2,4-Dinitrotoluene	1370		µg/kg wet	166	1660		82	40-140	7	30
2,6-Dinitrotoluene	1310		µg/kg wet	166	1660		79	40-140	8	30
Di-n-octyl phthalate	1160		µg/kg wet	328	1660		70	40-140	3	30
Fluoranthene	1130		µg/kg wet	66.4	1660		68	40-140	6	30
Fluorene	1020		µg/kg wet	66.4	1660		61	40-140	8	30
Hexachlorobenzene	1280		µg/kg wet	166	1660		77	40-140	5	30
Hexachlorobutadiene	1050		µg/kg wet	166	1660		63	40-140	7	30
Hexachlorocyclopentadiene	1350		µg/kg wet	166	1660		81	40-140	7	30
Hexachloroethane	1110		µg/kg wet	166	1660		67	40-140	6	30
Indeno (1,2,3-cd) pyrene	1100		µg/kg wet	66.4	1660		67	40-140	4	30
Isophorone	929		µg/kg wet	166	1660		56	40-140	7	30
2-Methylnaphthalene	1170		µg/kg wet	66.4	1660		70	40-140	6	30
2-Methylphenol	939		µg/kg wet	328	1660		57	30-130	9	30
3 & 4-Methylphenol	949		µg/kg wet	328	1660		57	30-130	8	30
Naphthalene	943		µg/kg wet	66.4	1660		57	40-140	8	30
2-Nitroaniline	1050		µg/kg wet	328	1660		64	40-140	9	30
3-Nitroaniline	928		µg/kg wet	328	1660		56	40-140	6	30
4-Nitroaniline	1270		µg/kg wet	166	1660		77	40-140	8	30
Nitrobenzene	1110		µg/kg wet	166	1660		67	40-140	8	30
2-Nitrophenol	978		µg/kg wet	166	1660		59	30-130	8	30
4-Nitrophenol	976	J	µg/kg wet	1310	1660		59	30-130	9	30
N-Nitrosodimethylamine	932		µg/kg wet	166	1660		56	40-140	6	30
N-Nitrosodi-n-propylamine	927		µg/kg wet	166	1660		56	40-140	7	30
N-Nitrosodiphenylamine	1140		µg/kg wet	328	1660		68	40-140	5	30
Pentachlorophenol	475	QC2	µg/kg wet	328	1660		29	30-130	14	30
Phenanthrene	1030		µg/kg wet	66.4	1660		62	40-140	7	30
Phenol	934		µg/kg wet	328	1660		56	30-130	8	30
Pyrene	1040		µg/kg wet	66.4	1660		63	40-140	13	30
Pyridine	748		µg/kg wet	328	1660		45	40-140	6	30
1,2,4-Trichlorobenzene	1150		µg/kg wet	328	1660		69	40-140	9	30
1-Methylnaphthalene	958		µg/kg wet	66.4	1660		58	40-140	9	30
2,4,5-Trichlorophenol	996		µg/kg wet	328	1660		60	30-130	7	30
2,4,6-Trichlorophenol	952		µg/kg wet	166	1660		57	30-130	8	30
Pentachloronitrobenzene	1140		µg/kg wet	328	1660		69	40-140	6	30
1,2,4,5-Tetrachlorobenzene	971		µg/kg wet	328	1660		59	40-140	7	30
Surrogate: 2-Fluorobiphenyl	949		µg/kg wet		1660		57	30-130		
Surrogate: 2-Fluorophenol	999		µg/kg wet		1660		60	30-130		
Surrogate: Nitrobenzene-d5	922		µg/kg wet		1660		56	30-130		
Surrogate: Phenol-d5	970		µg/kg wet		1660		59	30-130		
Surrogate: Terphenyl-dl4	1120		µg/kg wet		1660		68	30-130		
Surrogate: 2,4,6-Tribromophenol	1110		µg/kg wet		1660		67	30-130		
Duplicate (1721023-DUP1)				Source: SC42525-21		Prepared: 20-Dec-17 Analyzed: 31-Dec-17				
Acenaphthene	< 788	U, D	µg/kg dry	788		BRL				30
Acenaphthylene	< 788	U, D	µg/kg dry	788		BRL				30
Aniline	< 3900	U, D	µg/kg dry	3900		BRL				30
Anthracene	< 788	U, D	µg/kg dry	788		BRL				30
Azobenzene/Diphenyldiazene	< 3900	U, D	µg/kg dry	3900		BRL				30
Benzidine	< 3900	U, D	µg/kg dry	3900		BRL				30
Benzo (a) anthracene	< 788	U, D	µg/kg dry	788		BRL				30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1721023 - SW846 3546										
Duplicate (1721023-DUP1)				Source: SC42525-21		Prepared: 20-Dec-17 Analyzed: 31-Dec-17				
Benzo (a) pyrene	< 788	U, D	µg/kg dry	788		BRL				30
Benzo (b) fluoranthene	< 788	U, D	µg/kg dry	788		BRL				30
Benzo (g,h,i) perylene	< 788	U, D	µg/kg dry	788		BRL				30
Benzo (k) fluoranthene	< 788	U, D	µg/kg dry	788		BRL				30
Benzoic acid	< 3900	U, D	µg/kg dry	3900		BRL				30
Benzyl alcohol	< 3900	U, D	µg/kg dry	3900		BRL				30
Bis(2-chloroethoxy)methane	< 3900	U, D	µg/kg dry	3900		BRL				30
Bis(2-chloroethyl)ether	1410	J, D	µg/kg dry	1970		999			34	30
Bis(2-chloroisopropyl)ether	< 1970	U, D	µg/kg dry	1970		BRL				30
Bis(2-ethylhexyl)phthalate	< 1970	U, D	µg/kg dry	1970		BRL				30
4-Bromophenyl phenyl ether	< 3900	U, D	µg/kg dry	3900		BRL				30
Butyl benzyl phthalate	< 3900	U, D	µg/kg dry	3900		BRL				30
Carbazole	< 1970	U, D	µg/kg dry	1970		BRL				30
4-Chloro-3-methylphenol	< 3900	U, D	µg/kg dry	3900		BRL				30
4-Chloroaniline	< 1970	U, D	µg/kg dry	1970		BRL				30
2-Chloronaphthalene	< 3900	U, D	µg/kg dry	3900		BRL				30
2-Chlorophenol	< 1970	U, D	µg/kg dry	1970		BRL				30
4-Chlorophenyl phenyl ether	< 3900	U, D	µg/kg dry	3900		BRL				30
Chrysene	< 788	U, D	µg/kg dry	788		BRL				30
Dibenzo (a,h) anthracene	< 788	U, D	µg/kg dry	788		BRL				30
Dibenzofuran	< 1970	U, D	µg/kg dry	1970		BRL				30
1,2-Dichlorobenzene	< 3900	U, D	µg/kg dry	3900		BRL				30
1,3-Dichlorobenzene	< 3900	U, D	µg/kg dry	3900		BRL				30
1,4-Dichlorobenzene	< 3900	U, D	µg/kg dry	3900		BRL				30
3,3'-Dichlorobenzidine	< 3900	U, D	µg/kg dry	3900		BRL				30
2,4-Dichlorophenol	< 1970	U, D	µg/kg dry	1970		BRL				30
Diethyl phthalate	< 3900	U, D	µg/kg dry	3900		BRL				30
Dimethyl phthalate	< 3900	U, D	µg/kg dry	3900		BRL				30
2,4-Dimethylphenol	< 3900	U, D	µg/kg dry	3900		BRL				30
Di-n-butyl phthalate	< 3900	U, D	µg/kg dry	3900		BRL				30
4,6-Dinitro-2-methylphenol	< 3900	U, D	µg/kg dry	3900		BRL				30
2,4-Dinitrophenol	< 3900	U, D	µg/kg dry	3900		BRL				30
2,4-Dinitrotoluene	< 1970	U, D	µg/kg dry	1970		BRL				30
2,6-Dinitrotoluene	< 1970	U, D	µg/kg dry	1970		BRL				30
Di-n-octyl phthalate	< 3900	U, D	µg/kg dry	3900		BRL				30
Fluoranthene	524	J, D	µg/kg dry	788		BRL			79	30
Fluorene	< 788	U, D	µg/kg dry	788		BRL				30
Hexachlorobenzene	< 1970	U, D	µg/kg dry	1970		BRL				30
Hexachlorobutadiene	< 1970	U, D	µg/kg dry	1970		BRL				30
Hexachlorocyclopentadiene	< 1970	U, D	µg/kg dry	1970		BRL				30
Hexachloroethane	< 1970	U, D	µg/kg dry	1970		BRL				30
Indeno (1,2,3-cd) pyrene	< 788	U, D	µg/kg dry	788		BRL				30
Isophorone	< 1970	U, D	µg/kg dry	1970		BRL				30
2-Methylnaphthalene	< 788	U, D	µg/kg dry	788		BRL				30
2-Methylphenol	< 3900	U, D	µg/kg dry	3900		BRL				30
3 & 4-Methylphenol	< 3900	U, D	µg/kg dry	3900		BRL				30
Naphthalene	< 788	U, D	µg/kg dry	788		BRL				30
2-Nitroaniline	< 3900	U, D	µg/kg dry	3900		BRL				30
3-Nitroaniline	< 3900	U, D	µg/kg dry	3900		BRL				30
4-Nitroaniline	< 1970	U, D	µg/kg dry	1970		BRL				30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1721023 - SW846 3546										
Duplicate (1721023-DUP1)	Source: SC42525-21				Prepared: 20-Dec-17 Analyzed: 31-Dec-17					
Nitrobenzene	< 1970	U, D	µg/kg dry	1970		BRL				30
2-Nitrophenol	< 1970	U, D	µg/kg dry	1970		BRL				30
4-Nitrophenol	< 15600	U, D	µg/kg dry	15600		BRL				30
N-Nitrosodimethylamine	< 1970	U, D	µg/kg dry	1970		BRL				30
N-Nitrosodi-n-propylamine	< 1970	U, D	µg/kg dry	1970		BRL				30
N-Nitrosodiphenylamine	< 3900	U, D	µg/kg dry	3900		BRL				30
Pentachlorophenol	< 3900	U, D	µg/kg dry	3900		BRL				30
Phenanthrene	457	J, D	µg/kg dry	788		BRL			71	30
Phenol	< 3900	U, D	µg/kg dry	3900		BRL				30
Pyrene	567	J, D	µg/kg dry	788		BRL			85	30
Pyridine	< 3900	U, D	µg/kg dry	3900		BRL				30
1,2,4-Trichlorobenzene	< 3900	U, D	µg/kg dry	3900		BRL				30
1-Methylnaphthalene	< 788	U, D	µg/kg dry	788		BRL				30
2,4,5-Trichlorophenol	< 3900	U, D	µg/kg dry	3900		BRL				30
2,4,6-Trichlorophenol	< 1970	U, D	µg/kg dry	1970		BRL				30
Pentachloronitrobenzene	< 3900	U, D	µg/kg dry	3900		BRL				30
1,2,4,5-Tetrachlorobenzene	< 3900	U, D	µg/kg dry	3900		BRL				30
Surrogate: 2-Fluorobiphenyl	1330		µg/kg dry		1970		68	30-130		
Surrogate: 2-Fluorophenol	1150		µg/kg dry		1970		58	30-130		
Surrogate: Nitrobenzene-d5	1100		µg/kg dry		1970		56	30-130		
Surrogate: Phenol-d5	1110		µg/kg dry		1970		56	30-130		
Surrogate: Terphenyl-dl4	1370		µg/kg dry		1970		69	30-130		
Surrogate: 2,4,6-Tribromophenol	1240		µg/kg dry		1970		63	30-130		
Matrix Spike (1721023-MS1)	Source: SC42525-22				Prepared: 20-Dec-17 Analyzed: 31-Dec-17					
Acenaphthene	1510	D	µg/kg dry	787	1970	BRL	77	40-140		
Acenaphthylene	1540	D	µg/kg dry	787	1970	BRL	78	40-140		
Aniline	338	QM7, J, D	µg/kg dry	3890	1970	BRL	17	40-140		
Anthracene	1590	D	µg/kg dry	787	1970	BRL	81	40-140		
Azobenzene/Diphenyldiazene	1340	J, D	µg/kg dry	3890	1970	BRL	68	40-140		
Benzidine	1590	J, D	µg/kg dry	3890	1970	BRL	81	40-140		
Benzo (a) anthracene	2430	D	µg/kg dry	787	1970	811	82	40-140		
Benzo (a) pyrene	2170	D	µg/kg dry	787	1970	784	70	40-140		
Benzo (b) fluoranthene	2670	D	µg/kg dry	787	1970	887	91	40-140		
Benzo (g,h,i) perylene	1420	D	µg/kg dry	787	1970	424	51	40-140		
Benzo (k) fluoranthene	2280	D	µg/kg dry	787	1970	610	85	40-140		
Benzoic acid	1120	J, D	µg/kg dry	3890	1970	BRL	57	30-130		
Benzyl alcohol	1220	J, D	µg/kg dry	3890	1970	BRL	62	40-140		
Bis(2-chloroethoxy)methane	1070	J, D	µg/kg dry	3890	1970	BRL	54	40-140		
Bis(2-chloroethyl)ether	1220	J, D	µg/kg dry	1970	1970	BRL	62	40-140		
Bis(2-chloroisopropyl)ether	1230	J, D	µg/kg dry	1970	1970	BRL	62	40-140		
Bis(2-ethylhexyl)phthalate	1350	J, D	µg/kg dry	1970	1970	BRL	69	40-140		
4-Bromophenyl phenyl ether	1390	J, D	µg/kg dry	3890	1970	BRL	71	40-140		
Butyl benzyl phthalate	1330	J, D	µg/kg dry	3890	1970	BRL	68	40-140		
Carbazole	1510	J, D	µg/kg dry	1970	1970	BRL	77	40-140		
4-Chloro-3-methylphenol	1450	J, D	µg/kg dry	3890	1970	BRL	74	30-130		
4-Chloroaniline	578	QM7, J, D	µg/kg dry	1970	1970	BRL	29	40-140		
2-Chloronaphthalene	1820	J, D	µg/kg dry	3890	1970	BRL	93	40-140		
2-Chlorophenol	1390	J, D	µg/kg dry	1970	1970	BRL	71	30-130		
4-Chlorophenyl phenyl ether	1420	J, D	µg/kg dry	3890	1970	BRL	72	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1721023 - SW846 3546										
Matrix Spike (1721023-MS1)				Source: SC42525-22				Prepared: 20-Dec-17 Analyzed: 31-Dec-17		
Chrysene	2570	D	µg/kg dry	787	1970	1000	80	40-140		
Dibenzo (a,h) anthracene	1210	D	µg/kg dry	787	1970	BRL	62	40-140		
Dibenzofuran	1720	J, D	µg/kg dry	1970	1970	BRL	88	40-140		
1,2-Dichlorobenzene	1660	J, D	µg/kg dry	3890	1970	BRL	85	40-140		
1,3-Dichlorobenzene	1680	J, D	µg/kg dry	3890	1970	BRL	86	40-140		
1,4-Dichlorobenzene	1730	J, D	µg/kg dry	3890	1970	BRL	88	40-140		
3,3'-Dichlorobenzidine	< 3890	QM7, U, D	µg/kg dry	3890	1970	BRL	<1	40-140		
2,4-Dichlorophenol	1340	J, D	µg/kg dry	1970	1970	BRL	68	30-130		
Diethyl phthalate	1550	J, D	µg/kg dry	3890	1970	BRL	79	40-140		
Dimethyl phthalate	1420	J, D	µg/kg dry	3890	1970	BRL	72	40-140		
2,4-Dimethylphenol	1170	J, D	µg/kg dry	3890	1970	BRL	59	30-130		
Di-n-butyl phthalate	1420	J, D	µg/kg dry	3890	1970	BRL	72	40-140		
4,6-Dinitro-2-methylphenol	< 3890	QM7, U, D	µg/kg dry	3890	1970	BRL	<1	30-130		
2,4-Dinitrophenol	< 3890	QM7, U, D	µg/kg dry	3890	1970	BRL	<1	30-130		
2,4-Dinitrotoluene	1380	J, D	µg/kg dry	1970	1970	BRL	70	40-140		
2,6-Dinitrotoluene	1560	J, D	µg/kg dry	1970	1970	BRL	79	40-140		
Di-n-octyl phthalate	1450	J, D	µg/kg dry	3890	1970	BRL	74	40-140		
Fluoranthene	4050	D	µg/kg dry	787	1970	2270	90	40-140		
Fluorene	1560	D	µg/kg dry	787	1970	BRL	79	40-140		
Hexachlorobenzene	1770	J, D	µg/kg dry	1970	1970	BRL	90	40-140		
Hexachlorobutadiene	1590	J, D	µg/kg dry	1970	1970	BRL	81	40-140		
Hexachlorocyclopentadiene	< 1970	QM7, U, D	µg/kg dry	1970	1970	BRL	<1	40-140		
Hexachloroethane	1470	J, D	µg/kg dry	1970	1970	BRL	75	40-140		
Indeno (1,2,3-cd) pyrene	1620	D	µg/kg dry	787	1970	447	60	40-140		
Isophorone	1360	J, D	µg/kg dry	1970	1970	BRL	69	30-130		
2-Methylnaphthalene	1970	D	µg/kg dry	787	1970	BRL	100	40-140		
2-Methylphenol	1330	J, D	µg/kg dry	3890	1970	BRL	67	30-130		
3 & 4-Methylphenol	1260	J, D	µg/kg dry	3890	1970	BRL	64	30-130		
Naphthalene	1380	D	µg/kg dry	787	1970	BRL	70	40-140		
2-Nitroaniline	1460	J, D	µg/kg dry	3890	1970	BRL	74	40-140		
3-Nitroaniline	1170	J, D	µg/kg dry	3890	1970	BRL	60	40-140		
4-Nitroaniline	1450	J, D	µg/kg dry	1970	1970	BRL	74	40-140		
Nitrobenzene	1590	J, D	µg/kg dry	1970	1970	BRL	81	40-140		
2-Nitrophenol	853	J, D	µg/kg dry	1970	1970	BRL	43	30-130		
4-Nitrophenol	1120	J, D	µg/kg dry	15600	1970	BRL	57	30-130		
N-Nitrosodimethylamine	1590	J, D	µg/kg dry	1970	1970	BRL	81	40-140		
N-Nitrosodi-n-propylamine	1350	J, D	µg/kg dry	1970	1970	BRL	69	40-140		
N-Nitrosodiphenylamine	1440	J, D	µg/kg dry	3890	1970	BRL	73	40-140		
Pentachlorophenol	991	J, D	µg/kg dry	3890	1970	BRL	50	30-130		
Phenanthrene	2390	D	µg/kg dry	787	1970	788	82	40-140		
Phenol	1260	J, D	µg/kg dry	3890	1970	BRL	64	30-130		
Pyrene	3400	D	µg/kg dry	787	1970	1630	90	40-140		
Pyridine	1330	J, D	µg/kg dry	3890	1970	BRL	68	40-140		
1,2,4-Trichlorobenzene	1690	J, D	µg/kg dry	3890	1970	BRL	86	40-140		
1-Methylnaphthalene	1400	D	µg/kg dry	787	1970	BRL	71	40-140		
2,4,5-Trichlorophenol	1450	J, D	µg/kg dry	3890	1970	BRL	74	30-130		
2,4,6-Trichlorophenol	1340	J, D	µg/kg dry	1970	1970	BRL	68	30-130		
Pentachloronitrobenzene	1370	J, D	µg/kg dry	3890	1970	BRL	70	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1721023 - SW846 3546										
Matrix Spike (1721023-MS1)				Source: SC42525-22			Prepared: 20-Dec-17	Analyzed: 31-Dec-17		
1,2,4,5-Tetrachlorobenzene	1440	J, D	µg/kg dry	3890	1970	BRL	73	40-140		
Surrogate: 2-Fluorobiphenyl	1460		µg/kg dry		1970		74	30-130		
Surrogate: 2-Fluorophenol	1330		µg/kg dry		1970		68	30-130		
Surrogate: Nitrobenzene-d5	1380		µg/kg dry		1970		70	30-130		
Surrogate: Phenol-d5	1320		µg/kg dry		1970		67	30-130		
Surrogate: Terphenyl-dl4	1550		µg/kg dry		1970		79	30-130		
Surrogate: 2,4,6-Tribromophenol	1360		µg/kg dry		1970		69	30-130		
Matrix Spike Dup (1721023-MSD1)				Source: SC42525-22			Prepared: 20-Dec-17	Analyzed: 31-Dec-17		
Acenaphthene	1570	D	µg/kg dry	789	1970	BRL	80	40-140	4	30
Acenaphthylene	1540	D	µg/kg dry	789	1970	BRL	78	40-140	0.2	30
Aniline	343	QM7, J, D	µg/kg dry	3900	1970	BRL	17	40-140	1	30
Anthracene	1680	D	µg/kg dry	789	1970	BRL	85	40-140	5	30
Azobenzene/Diphenyldiazene	1430	J, D	µg/kg dry	3900	1970	BRL	73	40-140	7	30
Benzidine	1590	J, D	µg/kg dry	3900	1970	BRL	81	40-140	0.2	30
Benzo (a) anthracene	2620	D	µg/kg dry	789	1970	811	92	40-140	8	30
Benzo (a) pyrene	2170	D	µg/kg dry	789	1970	784	70	40-140	0.2	30
Benzo (b) fluoranthene	2150	D	µg/kg dry	789	1970	887	64	40-140	22	30
Benzo (g,h,i) perylene	1550	D	µg/kg dry	789	1970	424	57	40-140	9	30
Benzo (k) fluoranthene	2060	D	µg/kg dry	789	1970	610	73	40-140	10	30
Benzoic acid	1170	J, D	µg/kg dry	3900	1970	BRL	60	30-130	4	30
Benzyl alcohol	1400	J, D	µg/kg dry	3900	1970	BRL	71	40-140	13	30
Bis(2-chloroethoxy)methane	1170	J, D	µg/kg dry	3900	1970	BRL	60	40-140	10	30
Bis(2-chloroethyl)ether	1230	J, D	µg/kg dry	1980	1970	BRL	63	40-140	1	30
Bis(2-chloroisopropyl)ether	1360	J, D	µg/kg dry	1980	1970	BRL	69	40-140	10	30
Bis(2-ethylhexyl)phthalate	1480	J, D	µg/kg dry	1980	1970	BRL	75	40-140	9	30
4-Bromophenyl phenyl ether	1500	J, D	µg/kg dry	3900	1970	BRL	76	40-140	7	30
Butyl benzyl phthalate	1600	J, D	µg/kg dry	3900	1970	BRL	81	40-140	18	30
Carbazole	1660	J, D	µg/kg dry	1980	1970	BRL	84	40-140	10	30
4-Chloro-3-methylphenol	1430	J, D	µg/kg dry	3900	1970	BRL	72	30-130	2	30
4-Chloroaniline	536	QM7, J, D	µg/kg dry	1980	1970	BRL	27	40-140	8	30
2-Chloronaphthalene	1820	J, D	µg/kg dry	3900	1970	BRL	92	40-140	0.2	30
2-Chlorophenol	1440	J, D	µg/kg dry	1980	1970	BRL	73	30-130	3	30
4-Chlorophenyl phenyl ether	1510	J, D	µg/kg dry	3900	1970	BRL	77	40-140	6	30
Chrysene	2670	D	µg/kg dry	789	1970	1000	85	40-140	4	30
Dibenzo (a,h) anthracene	1300	D	µg/kg dry	789	1970	BRL	66	40-140	7	30
Dibenzofuran	1810	J, D	µg/kg dry	1980	1970	BRL	92	40-140	5	30
1,2-Dichlorobenzene	1840	J, D	µg/kg dry	3900	1970	BRL	93	40-140	10	30
1,3-Dichlorobenzene	1740	J, D	µg/kg dry	3900	1970	BRL	88	40-140	3	30
1,4-Dichlorobenzene	1810	J, D	µg/kg dry	3900	1970	BRL	92	40-140	5	30
3,3'-Dichlorobenzidine	< 3900	QM7, U, D	µg/kg dry	3900	1970	BRL	<1	40-140		30
2,4-Dichlorophenol	1460	J, D	µg/kg dry	1980	1970	BRL	74	30-130	9	30
Diethyl phthalate	1600	J, D	µg/kg dry	3900	1970	BRL	81	40-140	3	30
Dimethyl phthalate	1460	J, D	µg/kg dry	3900	1970	BRL	74	40-140	3	30
2,4-Dimethylphenol	1170	J, D	µg/kg dry	3900	1970	BRL	60	30-130	0.6	30
Di-n-butyl phthalate	1490	J, D	µg/kg dry	3900	1970	BRL	76	40-140	5	30
4,6-Dinitro-2-methylphenol	< 3900	QM7, U, D	µg/kg dry	3900	1970	BRL	<1	30-130		30
2,4-Dinitrophenol	501	QM7, J, D	µg/kg dry	3900	1970	BRL	25	30-130		30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1721023 - SW846 3546										
Matrix Spike Dup (1721023-MSD1)				Source: SC42525-22				Prepared: 20-Dec-17 Analyzed: 31-Dec-17		
2,4-Dinitrotoluene	1570	J, D	µg/kg dry	1980	1970	BRL	80	40-140	13	30
2,6-Dinitrotoluene	1660	J, D	µg/kg dry	1980	1970	BRL	84	40-140	6	30
Di-n-octyl phthalate	1330	J, D	µg/kg dry	3900	1970	BRL	67	40-140	9	30
Fluoranthene	4510	D	µg/kg dry	789	1970	2270	114	40-140	11	30
Fluorene	1580	D	µg/kg dry	789	1970	BRL	80	40-140	1	30
Hexachlorobenzene	1860	J, D	µg/kg dry	1980	1970	BRL	94	40-140	5	30
Hexachlorobutadiene	1700	J, D	µg/kg dry	1980	1970	BRL	86	40-140	7	30
Hexachlorocyclopentadiene	< 1980	QM7, U, D	µg/kg dry	1980	1970	BRL	<1	40-140		30
Hexachloroethane	1560	J, D	µg/kg dry	1980	1970	BRL	79	40-140	6	30
Indeno (1,2,3-cd) pyrene	1610	D	µg/kg dry	789	1970	447	59	40-140	0.7	30
Isophorone	1400	J, D	µg/kg dry	1980	1970	BRL	71	30-130	3	30
2-Methylnaphthalene	1740	D	µg/kg dry	789	1970	BRL	88	40-140	12	30
2-Methylphenol	1380	J, D	µg/kg dry	3900	1970	BRL	70	30-130	4	30
3 & 4-Methylphenol	1330	J, D	µg/kg dry	3900	1970	BRL	68	30-130	5	30
Naphthalene	1490	D	µg/kg dry	789	1970	BRL	76	40-140	8	30
2-Nitroaniline	1530	J, D	µg/kg dry	3900	1970	BRL	78	40-140	5	30
3-Nitroaniline	1230	J, D	µg/kg dry	3900	1970	BRL	63	40-140	5	30
4-Nitroaniline	1410	J, D	µg/kg dry	1980	1970	BRL	72	40-140	3	30
Nitrobenzene	1840	J, D	µg/kg dry	1980	1970	BRL	94	40-140	15	30
2-Nitrophenol	1020	J, D	µg/kg dry	1980	1970	BRL	52	30-130	18	30
4-Nitrophenol	1290	J, D	µg/kg dry	15600	1970	BRL	65	30-130	14	30
N-Nitrosodimethylamine	1660	J, D	µg/kg dry	1980	1970	BRL	84	40-140	4	30
N-Nitrosodi-n-propylamine	1450	J, D	µg/kg dry	1980	1970	BRL	73	40-140	7	30
N-Nitrosodiphenylamine	1520	J, D	µg/kg dry	3900	1970	BRL	77	40-140	6	30
Pentachlorophenol	1100	J, D	µg/kg dry	3900	1970	BRL	56	30-130	10	30
Phenanthrene	2600	D	µg/kg dry	789	1970	788	92	40-140	8	30
Phenol	1320	J, D	µg/kg dry	3900	1970	BRL	67	30-130	5	30
Pyrene	3760	D	µg/kg dry	789	1970	1630	108	40-140	10	30
Pyridine	1510	J, D	µg/kg dry	3900	1970	BRL	77	40-140	13	30
1,2,4-Trichlorobenzene	1810	J, D	µg/kg dry	3900	1970	BRL	92	40-140	6	30
1-Methylnaphthalene	1420	D	µg/kg dry	789	1970	BRL	72	40-140	2	30
2,4,5-Trichlorophenol	1500	J, D	µg/kg dry	3900	1970	BRL	76	30-130	3	30
2,4,6-Trichlorophenol	1380	J, D	µg/kg dry	1980	1970	BRL	70	30-130	3	30
Pentachloronitrobenzene	1480	J, D	µg/kg dry	3900	1970	BRL	75	40-140	8	30
1,2,4,5-Tetrachlorobenzene	1450	J, D	µg/kg dry	3900	1970	BRL	74	40-140	0.8	30
Surrogate: 2-Fluorobiphenyl	1490		µg/kg dry		1970		76	30-130		
Surrogate: 2-Fluorophenol	1330		µg/kg dry		1970		68	30-130		
Surrogate: Nitrobenzene-d5	1440		µg/kg dry		1970		73	30-130		
Surrogate: Phenol-d5	1380		µg/kg dry		1970		70	30-130		
Surrogate: Terphenyl-dl4	1630		µg/kg dry		1970		83	30-130		
Surrogate: 2,4,6-Tribromophenol	1490		µg/kg dry		1970		76	30-130		

Batch 1721206 - SW846 3546**Blank (1721206-BLK1)**

Prepared: 22-Dec-17 Analyzed: 01-Jan-18

Acenaphthene	< 66.5	U	µg/kg wet	66.5
Acenaphthylene	< 66.5	U	µg/kg wet	66.5
Aniline	< 329	U	µg/kg wet	329
Anthracene	< 66.5	U	µg/kg wet	66.5
Azobenzene/Diphenyldiazene	< 329	U	µg/kg wet	329
Benzidine	< 329	U	µg/kg wet	329

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1721206 - SW846 3546										
Blank (1721206-BLK1)	Prepared: 22-Dec-17 Analyzed: 01-Jan-18									
Benzo (a) anthracene	< 66.5	U	µg/kg wet	66.5						
Benzo (a) pyrene	< 66.5	U	µg/kg wet	66.5						
Benzo (b) fluoranthene	< 66.5	U	µg/kg wet	66.5						
Benzo (g,h,i) perylene	< 66.5	U	µg/kg wet	66.5						
Benzo (k) fluoranthene	< 66.5	U	µg/kg wet	66.5						
Benzoic acid	< 329	U	µg/kg wet	329						
Benzyl alcohol	< 329	U	µg/kg wet	329						
Bis(2-chloroethoxy)methane	< 329	U	µg/kg wet	329						
Bis(2-chloroethyl)ether	< 167	U	µg/kg wet	167						
Bis(2-chloroisopropyl)ether	< 167	U	µg/kg wet	167						
Bis(2-ethylhexyl)phthalate	< 167	U	µg/kg wet	167						
4-Bromophenyl phenyl ether	< 329	U	µg/kg wet	329						
Butyl benzyl phthalate	< 329	U	µg/kg wet	329						
Carbazole	< 167	U	µg/kg wet	167						
4-Chloro-3-methylphenol	< 329	U	µg/kg wet	329						
4-Chloroaniline	< 167	U	µg/kg wet	167						
2-Chloronaphthalene	< 329	U	µg/kg wet	329						
2-Chlorophenol	< 167	U	µg/kg wet	167						
4-Chlorophenyl phenyl ether	< 329	U	µg/kg wet	329						
Chrysene	< 66.5	U	µg/kg wet	66.5						
Dibenzo (a,h) anthracene	< 66.5	U	µg/kg wet	66.5						
Dibenzofuran	< 167	U	µg/kg wet	167						
1,2-Dichlorobenzene	< 329	U	µg/kg wet	329						
1,3-Dichlorobenzene	< 329	U	µg/kg wet	329						
1,4-Dichlorobenzene	< 329	U	µg/kg wet	329						
3,3'-Dichlorobenzidine	< 329	U	µg/kg wet	329						
2,4-Dichlorophenol	< 167	U	µg/kg wet	167						
Diethyl phthalate	< 329	U	µg/kg wet	329						
Dimethyl phthalate	< 329	U	µg/kg wet	329						
2,4-Dimethylphenol	< 329	U	µg/kg wet	329						
Di-n-butyl phthalate	< 329	U	µg/kg wet	329						
4,6-Dinitro-2-methylphenol	< 329	U	µg/kg wet	329						
2,4-Dinitrophenol	< 329	U	µg/kg wet	329						
2,4-Dinitrotoluene	< 167	U	µg/kg wet	167						
2,6-Dinitrotoluene	< 167	U	µg/kg wet	167						
Di-n-octyl phthalate	< 329	U	µg/kg wet	329						
Fluoranthene	< 66.5	U	µg/kg wet	66.5						
Fluorene	< 66.5	U	µg/kg wet	66.5						
Hexachlorobenzene	< 167	U	µg/kg wet	167						
Hexachlorobutadiene	< 167	U	µg/kg wet	167						
Hexachlorocyclopentadiene	< 167	U	µg/kg wet	167						
Hexachloroethane	< 167	U	µg/kg wet	167						
Indeno (1,2,3-cd) pyrene	< 66.5	U	µg/kg wet	66.5						
Isophorone	< 167	U	µg/kg wet	167						
2-Methylnaphthalene	< 66.5	U	µg/kg wet	66.5						
2-Methylphenol	< 329	U	µg/kg wet	329						
3 & 4-Methylphenol	< 329	U	µg/kg wet	329						
Naphthalene	< 66.5	U	µg/kg wet	66.5						
2-Nitroaniline	< 329	U	µg/kg wet	329						
3-Nitroaniline	< 329	U	µg/kg wet	329						

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1721206 - SW846 3546										
Blank (1721206-BLK1)					<u>Prepared: 22-Dec-17 Analyzed: 01-Jan-18</u>					
4-Nitroaniline	< 167	U	µg/kg wet	167						
Nitrobenzene	< 167	U	µg/kg wet	167						
2-Nitrophenol	< 167	U	µg/kg wet	167						
4-Nitrophenol	< 1320	U	µg/kg wet	1320						
N-Nitrosodimethylamine	< 167	U	µg/kg wet	167						
N-Nitrosodi-n-propylamine	< 167	U	µg/kg wet	167						
N-Nitrosodiphenylamine	< 329	U	µg/kg wet	329						
Pentachlorophenol	< 329	U	µg/kg wet	329						
Phenanthrene	< 66.5	U	µg/kg wet	66.5						
Phenol	< 329	U	µg/kg wet	329						
Pyrene	< 66.5	U	µg/kg wet	66.5						
Pyridine	< 329	U	µg/kg wet	329						
1,2,4-Trichlorobenzene	< 329	U	µg/kg wet	329						
1-Methylnaphthalene	< 66.5	U	µg/kg wet	66.5						
2,4,5-Trichlorophenol	< 329	U	µg/kg wet	329						
2,4,6-Trichlorophenol	< 167	U	µg/kg wet	167						
Pentachloronitrobenzene	< 329	U	µg/kg wet	329						
1,2,4,5-Tetrachlorobenzene	< 329	U	µg/kg wet	329						
Surrogate: 2-Fluorobiphenyl	1100		µg/kg wet		1660		66	30-130		
Surrogate: 2-Fluorophenol	1020		µg/kg wet		1660		61	30-130		
Surrogate: Nitrobenzene-d5	1070		µg/kg wet		1660		64	30-130		
Surrogate: Phenol-d5	1060		µg/kg wet		1660		64	30-130		
Surrogate: Terphenyl-d14	1320		µg/kg wet		1660		79	30-130		
Surrogate: 2,4,6-Tribromophenol	996		µg/kg wet		1660		60	30-130		
LCS (1721206-BS1)					<u>Prepared: 22-Dec-17 Analyzed: 03-Jan-18</u>					
Acenaphthene	905		µg/kg wet	66.4	1660		55	40-140		
Acenaphthylene	934		µg/kg wet	66.4	1660		56	40-140		
Aniline	491	QC2	µg/kg wet	329	1660		30	40-140		
Anthracene	807		µg/kg wet	66.4	1660		49	40-140		
Azobenzene/Diphenyldiazene	798		µg/kg wet	329	1660		48	40-140		
Benzidine	563	QC2	µg/kg wet	329	1660		34	40-140		
Benzo (a) anthracene	871		µg/kg wet	66.4	1660		52	40-140		
Benzo (a) pyrene	726		µg/kg wet	66.4	1660		44	40-140		
Benzo (b) fluoranthene	718		µg/kg wet	66.4	1660		43	40-140		
Benzo (g,h,i) perylene	659		µg/kg wet	66.4	1660		40	40-140		
Benzo (k) fluoranthene	691		µg/kg wet	66.4	1660		42	40-140		
Benzoic acid	356	QC2	µg/kg wet	329	1660		21	30-130		
Benzyl alcohol	817		µg/kg wet	329	1660		49	40-140		
Bis(2-chloroethoxy)methane	629	QC2	µg/kg wet	329	1660		38	40-140		
Bis(2-chloroethyl)ether	719		µg/kg wet	166	1660		43	40-140		
Bis(2-chloroisopropyl)ether	666		µg/kg wet	166	1660		40	40-140		
Bis(2-ethylhexyl)phthalate	771		µg/kg wet	166	1660		46	40-140		
4-Bromophenyl phenyl ether	853		µg/kg wet	329	1660		51	40-140		
Butyl benzyl phthalate	824		µg/kg wet	329	1660		50	40-140		
Carbazole	755		µg/kg wet	166	1660		45	40-140		
4-Chloro-3-methylphenol	865		µg/kg wet	329	1660		52	30-130		
4-Chloroaniline	432	QC2	µg/kg wet	166	1660		26	40-140		
2-Chloronaphthalene	1060		µg/kg wet	329	1660		64	40-140		
2-Chlorophenol	852		µg/kg wet	166	1660		51	30-130		
4-Chlorophenyl phenyl ether	964		µg/kg wet	329	1660		58	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1721206 - SW846 3546										
LCS (1721206-BS1)	Prepared: 22-Dec-17 Analyzed: 03-Jan-18									
Chrysene	825		µg/kg wet	66.4	1660		50	40-140		
Dibenzo (a,h) anthracene	749		µg/kg wet	66.4	1660		45	40-140		
Dibenzofuran	1020		µg/kg wet	166	1660		62	40-140		
1,2-Dichlorobenzene	1000		µg/kg wet	329	1660		60	40-140		
1,3-Dichlorobenzene	946		µg/kg wet	329	1660		57	40-140		
1,4-Dichlorobenzene	989		µg/kg wet	329	1660		60	40-140		
3,3'-Dichlorobenzidine	1100		µg/kg wet	329	1660		66	40-140		
2,4-Dichlorophenol	887		µg/kg wet	166	1660		53	30-130		
Diethyl phthalate	954		µg/kg wet	329	1660		57	40-140		
Dimethyl phthalate	867		µg/kg wet	329	1660		52	40-140		
2,4-Dimethylphenol	792		µg/kg wet	329	1660		48	30-130		
Di-n-butyl phthalate	752		µg/kg wet	329	1660		45	40-140		
4,6-Dinitro-2-methylphenol	776		µg/kg wet	329	1660		47	30-130		
2,4-Dinitrophenol	551		µg/kg wet	329	1660		33	30-130		
2,4-Dinitrotoluene	1130		µg/kg wet	166	1660		68	40-140		
2,6-Dinitrotoluene	1070		µg/kg wet	166	1660		64	40-140		
Di-n-octyl phthalate	705		µg/kg wet	329	1660		42	40-140		
Fluoranthene	840		µg/kg wet	66.4	1660		51	40-140		
Fluorene	930		µg/kg wet	66.4	1660		56	40-140		
Hexachlorobenzene	1040		µg/kg wet	166	1660		63	40-140		
Hexachlorobutadiene	1040		µg/kg wet	166	1660		63	40-140		
Hexachlorocyclopentadiene	1080		µg/kg wet	166	1660		65	40-140		
Hexachloroethane	1070		µg/kg wet	166	1660		64	40-140		
Indeno (1,2,3-cd) pyrene	748		µg/kg wet	66.4	1660		45	40-140		
Isophorone	761		µg/kg wet	166	1660		46	40-140		
2-Methylnaphthalene	1020		µg/kg wet	66.4	1660		62	40-140		
2-Methylphenol	816		µg/kg wet	329	1660		49	30-130		
3 & 4-Methylphenol	810		µg/kg wet	329	1660		49	30-130		
Naphthalene	833		µg/kg wet	66.4	1660		50	40-140		
2-Nitroaniline	845		µg/kg wet	329	1660		51	40-140		
3-Nitroaniline	712		µg/kg wet	329	1660		43	40-140		
4-Nitroaniline	842		µg/kg wet	166	1660		51	40-140		
Nitrobenzene	955		µg/kg wet	166	1660		58	40-140		
2-Nitrophenol	833		µg/kg wet	166	1660		50	30-130		
4-Nitrophenol	877	J	µg/kg wet	1310	1660		53	30-130		
N-Nitrosodimethylamine	962		µg/kg wet	166	1660		58	40-140		
N-Nitrosodi-n-propylamine	818		µg/kg wet	166	1660		49	40-140		
N-Nitrosodiphenylamine	881		µg/kg wet	329	1660		53	40-140		
Pentachlorophenol	648		µg/kg wet	329	1660		39	30-130		
Phenanthrene	808		µg/kg wet	66.4	1660		49	40-140		
Phenol	812		µg/kg wet	329	1660		49	30-130		
Pyrene	837		µg/kg wet	66.4	1660		50	40-140		
Pyridine	911		µg/kg wet	329	1660		55	40-140		
1,2,4-Trichlorobenzene	1040		µg/kg wet	329	1660		63	40-140		
1-Methylnaphthalene	816		µg/kg wet	66.4	1660		49	40-140		
2,4,5-Trichlorophenol	924		µg/kg wet	329	1660		56	30-130		
2,4,6-Trichlorophenol	872		µg/kg wet	166	1660		53	30-130		
Pentachloronitrobenzene	1000		µg/kg wet	329	1660		60	40-140		
1,2,4,5-Tetrachlorobenzene	887		µg/kg wet	329	1660		53	40-140		
Surrogate: 2-Fluorobiphenyl	785		µg/kg wet		1660		47	30-130		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1721206 - SW846 3546										
LCS (1721206-BS1)					Prepared: 22-Dec-17 Analyzed: 03-Jan-18					
Surrogate: 2-Fluorophenol	779		µg/kg wet		1660		47	30-130		
Surrogate: Nitrobenzene-d5	733		µg/kg wet		1660		44	30-130		
Surrogate: Phenol-d5	757		µg/kg wet		1660		46	30-130		
Surrogate: Terphenyl-dl4	827		µg/kg wet		1660		50	30-130		
Surrogate: 2,4,6-Tribromophenol	830		µg/kg wet		1660		50	30-130		
LCS Dup (1721206-BSD1)					Prepared: 22-Dec-17 Analyzed: 01-Jan-18					
Acenaphthene	905		µg/kg wet	66.2	1650		55	40-140	0.06	30
Acenaphthylene	938		µg/kg wet	66.2	1650		57	40-140	0.4	30
Aniline	452	QC2	µg/kg wet	328	1650		27	40-140	8	30
Anthracene	847		µg/kg wet	66.2	1650		51	40-140	5	30
Azobenzene/Diphenyldiazene	765		µg/kg wet	328	1650		46	40-140	4	30
Benzidine	545	QC2	µg/kg wet	328	1650		33	40-140	3	30
Benzo (a) anthracene	848		µg/kg wet	66.2	1650		51	40-140	3	30
Benzo (a) pyrene	727		µg/kg wet	66.2	1650		44	40-140	0.05	30
Benzo (b) fluoranthene	687		µg/kg wet	66.2	1650		42	40-140	4	30
Benzo (g,h,i) perylene	665		µg/kg wet	66.2	1650		40	40-140	0.9	30
Benzo (k) fluoranthene	727		µg/kg wet	66.2	1650		44	40-140	5	30
Benzoic acid	342	QC2	µg/kg wet	328	1650		21	30-130	4	30
Benzyl alcohol	743		µg/kg wet	328	1650		45	40-140	9	30
Bis(2-chloroethoxy)methane	676		µg/kg wet	328	1650		41	40-140	7	30
Bis(2-chloroethyl)ether	725		µg/kg wet	166	1650		44	40-140	0.8	30
Bis(2-chloroisopropyl)ether	680		µg/kg wet	166	1650		41	40-140	2	30
Bis(2-ethylhexyl)phthalate	845		µg/kg wet	166	1650		51	40-140	9	30
4-Bromophenyl phenyl ether	855		µg/kg wet	328	1650		52	40-140	0.2	30
Butyl benzyl phthalate	841		µg/kg wet	328	1650		51	40-140	2	30
Carbazole	817		µg/kg wet	166	1650		49	40-140	8	30
4-Chloro-3-methylphenol	860		µg/kg wet	328	1650		52	30-130	0.7	30
4-Chloroaniline	421	QC2	µg/kg wet	166	1650		25	40-140	3	30
2-Chloronaphthalene	1070		µg/kg wet	328	1650		65	40-140	0.6	30
2-Chlorophenol	837		µg/kg wet	166	1650		51	30-130	2	30
4-Chlorophenyl phenyl ether	907		µg/kg wet	328	1650		55	40-140	6	30
Chrysene	827		µg/kg wet	66.2	1650		50	40-140	0.3	30
Dibenzo (a,h) anthracene	725		µg/kg wet	66.2	1650		44	40-140	3	30
Dibenzofuran	1030		µg/kg wet	166	1650		62	40-140	0.6	30
1,2-Dichlorobenzene	997		µg/kg wet	328	1650		60	40-140	0.6	30
1,3-Dichlorobenzene	958		µg/kg wet	328	1650		58	40-140	1	30
1,4-Dichlorobenzene	987		µg/kg wet	328	1650		60	40-140	0.2	30
3,3'-Dichlorobenzidine	1030		µg/kg wet	328	1650		62	40-140	7	30
2,4-Dichlorophenol	876		µg/kg wet	166	1650		53	30-130	1	30
Diethyl phthalate	921		µg/kg wet	328	1650		56	40-140	4	30
Dimethyl phthalate	867		µg/kg wet	328	1650		52	40-140	0.008	30
2,4-Dimethylphenol	814		µg/kg wet	328	1650		49	30-130	3	30
Di-n-butyl phthalate	804		µg/kg wet	328	1650		49	40-140	7	30
4,6-Dinitro-2-methylphenol	715		µg/kg wet	328	1650		43	30-130	8	30
2,4-Dinitrophenol	440	QC2	µg/kg wet	328	1650		27	30-130	22	30
2,4-Dinitrotoluene	1100		µg/kg wet	166	1650		66	40-140	3	30
2,6-Dinitrotoluene	1100		µg/kg wet	166	1650		66	40-140	3	30
Di-n-octyl phthalate	738		µg/kg wet	328	1650		45	40-140	5	30
Fluoranthene	861		µg/kg wet	66.2	1650		52	40-140	2	30
Fluorene	884		µg/kg wet	66.2	1650		53	40-140	5	30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1721206 - SW846 3546										
LCS Dup (1721206-BSD1)					Prepared: 22-Dec-17 Analyzed: 01-Jan-18					
Hexachlorobenzene	1020		µg/kg wet	166	1650		61	40-140	2	30
Hexachlorobutadiene	1000		µg/kg wet	166	1650		61	40-140	4	30
Hexachlorocyclopentadiene	1120		µg/kg wet	166	1650		68	40-140	3	30
Hexachloroethane	1050		µg/kg wet	166	1650		63	40-140	2	30
Indeno (1,2,3-cd) pyrene	721		µg/kg wet	66.2	1650		44	40-140	4	30
Isophorone	799		µg/kg wet	166	1650		48	40-140	5	30
2-Methylnaphthalene	984		µg/kg wet	66.2	1650		59	40-140	4	30
2-Methylphenol	803		µg/kg wet	328	1650		49	30-130	2	30
3 & 4-Methylphenol	811		µg/kg wet	328	1650		49	30-130	0.01	30
Naphthalene	837		µg/kg wet	66.2	1650		51	40-140	0.4	30
2-Nitroaniline	858		µg/kg wet	328	1650		52	40-140	2	30
3-Nitroaniline	706		µg/kg wet	328	1650		43	40-140	0.9	30
4-Nitroaniline	832		µg/kg wet	166	1650		50	40-140	1	30
Nitrobenzene	997		µg/kg wet	166	1650		60	40-140	4	30
2-Nitrophenol	856		µg/kg wet	166	1650		52	30-130	3	30
4-Nitrophenol	834	J	µg/kg wet	1310	1650		50	30-130	5	30
N-Nitrosodimethylamine	903		µg/kg wet	166	1650		55	40-140	6	30
N-Nitrosodi-n-propylamine	809		µg/kg wet	166	1650		49	40-140	1	30
N-Nitrosodiphenylamine	874		µg/kg wet	328	1650		53	40-140	0.8	30
Pentachlorophenol	597		µg/kg wet	328	1650		36	30-130	8	30
Phenanthrene	804		µg/kg wet	66.2	1650		49	40-140	0.5	30
Phenol	805		µg/kg wet	328	1650		49	30-130	0.8	30
Pyrene	884		µg/kg wet	66.2	1650		53	40-140	6	30
Pyridine	914		µg/kg wet	328	1650		55	40-140	0.4	30
1,2,4-Trichlorobenzene	1050		µg/kg wet	328	1650		64	40-140	1	30
1-Methylnaphthalene	847		µg/kg wet	66.2	1650		51	40-140	4	30
2,4,5-Trichlorophenol	912		µg/kg wet	328	1650		55	30-130	1	30
2,4,6-Trichlorophenol	887		µg/kg wet	166	1650		54	30-130	2	30
Pentachloronitrobenzene	979		µg/kg wet	328	1650		59	40-140	2	30
1,2,4,5-Tetrachlorobenzene	900		µg/kg wet	328	1650		54	40-140	1	30
Surrogate: 2-Fluorobiphenyl	790		µg/kg wet		1650		48	30-130		
Surrogate: 2-Fluorophenol	731		µg/kg wet		1650		44	30-130		
Surrogate: Nitrobenzene-d5	760		µg/kg wet		1650		46	30-130		
Surrogate: Phenol-d5	763		µg/kg wet		1650		46	30-130		
Surrogate: Terphenyl-dl4	829		µg/kg wet		1650		50	30-130		
Surrogate: 2,4,6-Tribromophenol	817		µg/kg wet		1650		49	30-130		
Duplicate (1721206-DUP1)				Source: SC42525-19		Prepared: 22-Dec-17 Analyzed: 02-Jan-18				
Acenaphthene	< 144	U, D	µg/kg dry	144		BRL				30
Acenaphthylene	< 144	U, D	µg/kg dry	144		BRL				30
Aniline	< 713	U, D	µg/kg dry	713		BRL				30
Anthracene	< 144	U, D	µg/kg dry	144		BRL				30
Azobenzene/Diphenyldiazene	< 713	U, D	µg/kg dry	713		BRL				30
Benzidine	< 713	U, D	µg/kg dry	713		BRL				30
Benzo (a) anthracene	< 144	U, D	µg/kg dry	144		BRL				30
Benzo (a) pyrene	< 144	U, D	µg/kg dry	144		BRL				30
Benzo (b) fluoranthene	< 144	U, D	µg/kg dry	144		BRL				30
Benzo (g,h,i) perylene	< 144	U, D	µg/kg dry	144		BRL				30
Benzo (k) fluoranthene	< 144	U, D	µg/kg dry	144		BRL				30
Benzoic acid	< 713	U, D	µg/kg dry	713		BRL				30
Benzyl alcohol	< 713	U, D	µg/kg dry	713		BRL				30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1721206 - SW846 3546										
Duplicate (1721206-DUP1)										
				Source: SC42525-19						
Bis(2-chloroethoxy)methane	< 713	U, D	µg/kg dry	713		BRL				30
Bis(2-chloroethyl)ether	166	J, D	µg/kg dry	361		178			7	30
Bis(2-chloroisopropyl)ether	< 361	U, D	µg/kg dry	361		BRL				30
Bis(2-ethylhexyl)phthalate	< 361	U, D	µg/kg dry	361		BRL				30
4-Bromophenyl phenyl ether	< 713	U, D	µg/kg dry	713		BRL				30
Butyl benzyl phthalate	< 713	U, D	µg/kg dry	713		BRL				30
Carbazole	< 361	U, D	µg/kg dry	361		BRL				30
4-Chloro-3-methylphenol	< 713	U, D	µg/kg dry	713		BRL				30
4-Chloroaniline	< 361	U, D	µg/kg dry	361		BRL				30
2-Chloronaphthalene	< 713	U, D	µg/kg dry	713		BRL				30
2-Chlorophenol	< 361	U, D	µg/kg dry	361		BRL				30
4-Chlorophenyl phenyl ether	< 713	U, D	µg/kg dry	713		BRL				30
Chrysene	< 144	U, D	µg/kg dry	144		BRL				30
Dibenzo (a,h) anthracene	< 144	U, D	µg/kg dry	144		BRL				30
Dibenzofuran	< 361	U, D	µg/kg dry	361		BRL				30
1,2-Dichlorobenzene	< 713	U, D	µg/kg dry	713		BRL				30
1,3-Dichlorobenzene	< 713	U, D	µg/kg dry	713		BRL				30
1,4-Dichlorobenzene	< 713	U, D	µg/kg dry	713		BRL				30
3,3'-Dichlorobenzidine	< 713	U, D	µg/kg dry	713		BRL				30
2,4-Dichlorophenol	< 361	U, D	µg/kg dry	361		BRL				30
Diethyl phthalate	< 713	U, D	µg/kg dry	713		BRL				30
Dimethyl phthalate	< 713	U, D	µg/kg dry	713		BRL				30
2,4-Dimethylphenol	< 713	U, D	µg/kg dry	713		BRL				30
Di-n-butyl phthalate	< 713	U, D	µg/kg dry	713		BRL				30
4,6-Dinitro-2-methylphenol	< 713	U, D	µg/kg dry	713		BRL				30
2,4-Dinitrophenol	< 713	U, D	µg/kg dry	713		BRL				30
2,4-Dinitrotoluene	< 361	U, D	µg/kg dry	361		BRL				30
2,6-Dinitrotoluene	< 361	U, D	µg/kg dry	361		BRL				30
Di-n-octyl phthalate	< 713	U, D	µg/kg dry	713		BRL				30
Fluoranthene	< 144	U, D	µg/kg dry	144		95.8				30
Fluorene	< 144	U, D	µg/kg dry	144		BRL				30
Hexachlorobenzene	< 361	U, D	µg/kg dry	361		BRL				30
Hexachlorobutadiene	< 361	U, D	µg/kg dry	361		BRL				30
Hexachlorocyclopentadiene	< 361	U, D	µg/kg dry	361		BRL				30
Hexachloroethane	< 361	U, D	µg/kg dry	361		BRL				30
Indeno (1,2,3-cd) pyrene	< 144	U, D	µg/kg dry	144		BRL				30
Isophorone	< 361	U, D	µg/kg dry	361		BRL				30
2-Methylnaphthalene	< 144	U, D	µg/kg dry	144		BRL				30
2-Methylphenol	< 713	U, D	µg/kg dry	713		BRL				30
3 & 4-Methylphenol	< 713	U, D	µg/kg dry	713		BRL				30
Naphthalene	< 144	U, D	µg/kg dry	144		BRL				30
2-Nitroaniline	< 713	U, D	µg/kg dry	713		BRL				30
3-Nitroaniline	< 713	U, D	µg/kg dry	713		BRL				30
4-Nitroaniline	< 361	U, D	µg/kg dry	361		BRL				30
Nitrobenzene	< 361	U, D	µg/kg dry	361		BRL				30
2-Nitrophenol	< 361	U, D	µg/kg dry	361		BRL				30
4-Nitrophenol	< 2850	U, D	µg/kg dry	2850		BRL				30
N-Nitrosodimethylamine	< 361	U, D	µg/kg dry	361		BRL				30
N-Nitrosodi-n-propylamine	< 361	U, D	µg/kg dry	361		BRL				30
N-Nitrosodiphenylamine	< 713	U, D	µg/kg dry	713		BRL				30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1721206 - SW846 3546										
Duplicate (1721206-DUP1)	Source: SC42525-19				Prepared: 22-Dec-17 Analyzed: 02-Jan-18					
Pentachlorophenol	< 713	U, D	µg/kg dry	713		BRL				30
Phenanthrene	< 144	U, D	µg/kg dry	144		74.9				30
Phenol	< 713	U, D	µg/kg dry	713		BRL				30
Pyrene	< 144	U, D	µg/kg dry	144		82.1				30
Pyridine	< 713	U, D	µg/kg dry	713		BRL				30
1,2,4-Trichlorobenzene	< 713	U, D	µg/kg dry	713		BRL				30
1-Methylnaphthalene	< 144	U, D	µg/kg dry	144		BRL				30
2,4,5-Trichlorophenol	< 713	U, D	µg/kg dry	713		BRL				30
2,4,6-Trichlorophenol	< 361	U, D	µg/kg dry	361		BRL				30
Pentachloronitrobenzene	< 713	U, D	µg/kg dry	713		BRL				30
1,2,4,5-Tetrachlorobenzene	< 713	U, D	µg/kg dry	713		BRL				30
Surrogate: 2-Fluorobiphenyl	970		µg/kg dry		1800		54	30-130		
Surrogate: 2-Fluorophenol	803		µg/kg dry		1800		45	30-130		
Surrogate: Nitrobenzene-d5	822		µg/kg dry		1800		46	30-130		
Surrogate: Phenol-d5	865		µg/kg dry		1800		48	30-130		
Surrogate: Terphenyl-dl4	1170		µg/kg dry		1800		65	30-130		
Surrogate: 2,4,6-Tribromophenol	1000		µg/kg dry		1800		56	30-130		
Matrix Spike (1721206-MS1)	Source: SC42525-11				Prepared: 22-Dec-17 Analyzed: 02-Jan-18					
Acenaphthene	1120	D	µg/kg dry	806	2010	BRL	56	40-140		
Acenaphthylene	931	D	µg/kg dry	806	2010	BRL	46	40-140		
Aniline	< 3990	QC2, U, D	µg/kg dry	3990	2010	BRL	<1	40-140		
Anthracene	1420	D	µg/kg dry	806	2010	BRL	71	40-140		
Azobenzene/Diphenyldiazene	854	J, D	µg/kg dry	3990	2010	BRL	42	40-140		
Benidine	1650	J, D	µg/kg dry	3990	2010	BRL	82	40-140		
Benzo (a) anthracene	1970	D	µg/kg dry	806	2010	BRL	98	40-140		
Benzo (a) pyrene	1910	D	µg/kg dry	806	2010	BRL	95	40-140		
Benzo (b) fluoranthene	1680	D	µg/kg dry	806	2010	BRL	83	40-140		
Benzo (g,h,i) perylene	1370	D	µg/kg dry	806	2010	BRL	68	40-140		
Benzo (k) fluoranthene	1800	D	µg/kg dry	806	2010	BRL	90	40-140		
Benzoic acid	870	J, D	µg/kg dry	3990	2010	BRL	43	30-130		
Benzyl alcohol	850	J, D	µg/kg dry	3990	2010	BRL	42	40-140		
Bis(2-chloroethoxy)methane	685	QM7, J, D	µg/kg dry	3990	2010	BRL	34	40-140		
Bis(2-chloroethyl)ether	2180	D	µg/kg dry	2020	2010	BRL	108	40-140		
Bis(2-chloroisopropyl)ether	741	QM7, J, D	µg/kg dry	2020	2010	BRL	37	40-140		
Bis(2-ethylhexyl)phthalate	906	J, D	µg/kg dry	2020	2010	BRL	45	40-140		
4-Bromophenyl phenyl ether	898	J, D	µg/kg dry	3990	2010	BRL	45	40-140		
Butyl benzyl phthalate	862	J, D	µg/kg dry	3990	2010	BRL	43	40-140		
Carbazole	< 2020	QM7, U, D	µg/kg dry	2020	2010	BRL	<1	40-140		
4-Chloro-3-methylphenol	786	J, D	µg/kg dry	3990	2010	BRL	39	30-130		
4-Chloroaniline	< 2020	QC2, U, D	µg/kg dry	2020	2010	BRL	<1	40-140		
2-Chloronaphthalene	1100	J, D	µg/kg dry	3990	2010	BRL	55	40-140		
2-Chlorophenol	822	J, D	µg/kg dry	2020	2010	BRL	41	30-130		
4-Chlorophenyl phenyl ether	866	J, D	µg/kg dry	3990	2010	BRL	43	40-140		
Chrysene	1890	D	µg/kg dry	806	2010	BRL	94	40-140		
Dibenzo (a,h) anthracene	1050	D	µg/kg dry	806	2010	BRL	52	40-140		
Dibenzofuran	1180	J, D	µg/kg dry	2020	2010	BRL	59	40-140		
1,2-Dichlorobenzene	999	J, D	µg/kg dry	3990	2010	BRL	50	40-140		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1721206 - SW846 3546										
Matrix Spike (1721206-MS1)				Source: SC42525-11				Prepared: 22-Dec-17 Analyzed: 02-Jan-18		
1,3-Dichlorobenzene	1030	J, D	µg/kg dry	3990	2010	BRL	51	40-140		
1,4-Dichlorobenzene	1080	J, D	µg/kg dry	3990	2010	BRL	53	40-140		
3,3'-Dichlorobenzidine	< 3990	QM7, U, D	µg/kg dry	3990	2010	BRL	<1	40-140		
2,4-Dichlorophenol	778	J, D	µg/kg dry	2020	2010	BRL	39	30-130		
Diethyl phthalate	898	J, D	µg/kg dry	3990	2010	BRL	45	40-140		
Dimethyl phthalate	826	J, D	µg/kg dry	3990	2010	BRL	41	40-140		
2,4-Dimethylphenol	665	J, D	µg/kg dry	3990	2010	BRL	33	30-130		
Di-n-butyl phthalate	842	J, D	µg/kg dry	3990	2010	BRL	42	40-140		
4,6-Dinitro-2-methylphenol	< 3990	QM7, U, D	µg/kg dry	3990	2010	BRL	<1	30-130		
2,4-Dinitrophenol	< 3990	QM7, U, D	µg/kg dry	3990	2010	BRL	<1	30-130		
2,4-Dinitrotoluene	838	J, D	µg/kg dry	2020	2010	BRL	42	40-140		
2,6-Dinitrotoluene	943	J, D	µg/kg dry	2020	2010	BRL	47	40-140		
Di-n-octyl phthalate	1010	J, D	µg/kg dry	3990	2010	BRL	50	40-140		
Fluoranthene	3760	QM7, D	µg/kg dry	806	2010	483	163	40-140		
Fluorene	1060	D	µg/kg dry	806	2010	BRL	53	40-140		
Hexachlorobenzene	1050	J, D	µg/kg dry	2020	2010	BRL	52	40-140		
Hexachlorobutadiene	1040	J, D	µg/kg dry	2020	2010	BRL	52	40-140		
Hexachlorocyclopentadiene	< 2020	QM7, U, D	µg/kg dry	2020	2010	BRL	<1	40-140		
Hexachloroethane	778	QM7, J, D	µg/kg dry	2020	2010	BRL	39	40-140		
Indeno (1,2,3-cd) pyrene	1450	D	µg/kg dry	806	2010	BRL	72	40-140		
Isophorone	790	J, D	µg/kg dry	2020	2010	BRL	39	30-130		
2-Methylnaphthalene	1700	D	µg/kg dry	806	2010	BRL	84	40-140		
2-Methylphenol	733	J, D	µg/kg dry	3990	2010	BRL	36	30-130		
3 & 4-Methylphenol	757	J, D	µg/kg dry	3990	2010	BRL	38	30-130		
Naphthalene	1360	D	µg/kg dry	806	2010	BRL	68	40-140		
2-Nitroaniline	862	J, D	µg/kg dry	3990	2010	BRL	43	40-140		
3-Nitroaniline	681	QM7, J, D	µg/kg dry	3990	2010	BRL	34	40-140		
4-Nitroaniline	1000	J, D	µg/kg dry	2020	2010	BRL	50	40-140		
Nitrobenzene	967	J, D	µg/kg dry	2020	2010	BRL	48	40-140		
2-Nitrophenol	540	QM7, J, D	µg/kg dry	2020	2010	BRL	27	30-130		
4-Nitrophenol	814	J, D	µg/kg dry	16000	2010	BRL	40	30-130		
N-Nitrosodimethylamine	882	J, D	µg/kg dry	2020	2010	BRL	44	40-140		
N-Nitrosodi-n-propylamine	818	J, D	µg/kg dry	2020	2010	BRL	41	40-140		
N-Nitrosodiphenylamine	963	J, D	µg/kg dry	3990	2010	BRL	48	40-140		
Pentachlorophenol	858	J, D	µg/kg dry	3990	2010	BRL	43	30-130		
Phenanthrene	3130	QM7, D	µg/kg dry	806	2010	BRL	155	40-140		
Phenol	745	J, D	µg/kg dry	3990	2010	BRL	37	30-130		
Pyrene	3260	D	µg/kg dry	806	2010	467	138	40-140		
Pyridine	745	QM7, J, D	µg/kg dry	3990	2010	BRL	37	40-140		
1,2,4-Trichlorobenzene	1060	J, D	µg/kg dry	3990	2010	BRL	53	40-140		
1-Methylnaphthalene	1200	D	µg/kg dry	806	2010	BRL	60	40-140		
2,4,5-Trichlorophenol	858	J, D	µg/kg dry	3990	2010	BRL	43	30-130		
2,4,6-Trichlorophenol	778	J, D	µg/kg dry	2020	2010	BRL	39	30-130		
Pentachloronitrobenzene	830	J, D	µg/kg dry	3990	2010	BRL	41	40-140		
1,2,4,5-Tetrachlorobenzene	874	J, D	µg/kg dry	3990	2010	BRL	43	40-140		
Surrogate: 2-Fluorobiphenyl	858		µg/kg dry		2010		43	30-130		

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1721206 - SW846 3546										
Matrix Spike (1721206-MS1)			Source: SC42525-11		Prepared: 22-Dec-17 Analyzed: 02-Jan-18					
Surrogate: 2-Fluorophenol	661		µg/kg dry		2010		33	30-130		
Surrogate: Nitrobenzene-d5	770		µg/kg dry		2010		38	30-130		
Surrogate: Phenol-d5	677		µg/kg dry		2010		34	30-130		
Surrogate: Terphenyl-d14	911		µg/kg dry		2010		45	30-130		
Surrogate: 2,4,6-Tribromophenol	814		µg/kg dry		2010		40	30-130		
Matrix Spike Dup (1721206-MSD1)			Source: SC42525-11		Prepared: 22-Dec-17 Analyzed: 02-Jan-18					
Acenaphthene	1180	D	µg/kg dry	806	2010	BRL	59	40-140	6	30
Acenaphthylene	963	D	µg/kg dry	806	2010	BRL	48	40-140	3	30
Aniline	< 3990	QC2, U, D	µg/kg dry	3990	2010	BRL	<1	40-140		30
Anthracene	1460	D	µg/kg dry	806	2010	BRL	73	40-140	3	30
Azobenzene/Diphenyldiazene	866	J, D	µg/kg dry	3990	2010	BRL	43	40-140	1	30
Benzidine	1650	J, D	µg/kg dry	3990	2010	BRL	82	40-140	0.02	30
Benzo (a) anthracene	2020	D	µg/kg dry	806	2010	BRL	100	40-140	3	30
Benzo (a) pyrene	1900	D	µg/kg dry	806	2010	BRL	94	40-140	0.4	30
Benzo (b) fluoranthene	1800	D	µg/kg dry	806	2010	BRL	89	40-140	7	30
Benzo (g,h,i) perylene	1400	D	µg/kg dry	806	2010	BRL	69	40-140	2	30
Benzo (k) fluoranthene	1870	D	µg/kg dry	806	2010	BRL	93	40-140	3	30
Benzoic acid	866	J, D	µg/kg dry	3990	2010	BRL	43	30-130	0.5	30
Benzyl alcohol	842	J, D	µg/kg dry	3990	2010	BRL	42	40-140	1	30
Bis(2-chloroethoxy)methane	644	QM7, J, D	µg/kg dry	3990	2010	BRL	32	40-140	6	30
Bis(2-chloroethyl)ether	2180	D	µg/kg dry	2020	2010	BRL	108	40-140	0.2	30
Bis(2-chloroisopropyl)ether	757	QM7, J, D	µg/kg dry	2020	2010	BRL	38	40-140	2	30
Bis(2-ethylhexyl)phthalate	910	J, D	µg/kg dry	2020	2010	BRL	45	40-140	0.4	30
4-Bromophenyl phenyl ether	882	J, D	µg/kg dry	3990	2010	BRL	44	40-140	2	30
Butyl benzyl phthalate	935	J, D	µg/kg dry	3990	2010	BRL	46	40-140	8	30
Carbazole	< 2020	QM7, U, D	µg/kg dry	2020	2010	BRL	<1	40-140		30
4-Chloro-3-methylphenol	846	J, D	µg/kg dry	3990	2010	BRL	42	30-130	7	30
4-Chloroaniline	< 2020	QC2, U, D	µg/kg dry	2020	2010	BRL	<1	40-140		30
2-Chloronaphthalene	1100	J, D	µg/kg dry	3990	2010	BRL	55	40-140	0.3	30
2-Chlorophenol	814	J, D	µg/kg dry	2020	2010	BRL	40	30-130	1	30
4-Chlorophenyl phenyl ether	898	J, D	µg/kg dry	3990	2010	BRL	45	40-140	4	30
Chrysene	1910	D	µg/kg dry	806	2010	BRL	95	40-140	1	30
Dibenzo (a,h) anthracene	1060	D	µg/kg dry	806	2010	BRL	53	40-140	1	30
Dibenzofuran	1200	J, D	µg/kg dry	2020	2010	BRL	60	40-140	2	30
1,2-Dichlorobenzene	991	J, D	µg/kg dry	3990	2010	BRL	49	40-140	0.8	30
1,3-Dichlorobenzene	975	J, D	µg/kg dry	3990	2010	BRL	48	40-140	6	30
1,4-Dichlorobenzene	1040	J, D	µg/kg dry	3990	2010	BRL	52	40-140	3	30
3,3'-Dichlorobenzidine	< 3990	QM7, U, D	µg/kg dry	3990	2010	BRL	<1	40-140		30
2,4-Dichlorophenol	777	J, D	µg/kg dry	2020	2010	BRL	39	30-130	0.02	30
Diethyl phthalate	947	J, D	µg/kg dry	3990	2010	BRL	47	40-140	5	30
Dimethyl phthalate	866	J, D	µg/kg dry	3990	2010	BRL	43	40-140	5	30
2,4-Dimethylphenol	620	J, D	µg/kg dry	3990	2010	BRL	31	30-130	7	30
Di-n-butyl phthalate	878	J, D	µg/kg dry	3990	2010	BRL	44	40-140	4	30
4,6-Dinitro-2-methylphenol	< 3990	QM7, U, D	µg/kg dry	3990	2010	BRL	<1	30-130		30
2,4-Dinitrophenol	< 3990	QM7, U, D	µg/kg dry	3990	2010	BRL	<1	30-130		30
2,4-Dinitrotoluene	822	J, D	µg/kg dry	2020	2010	BRL	41	40-140	2	30

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Semivolatile Organic Compounds by GCMS - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8270D										
Batch 1721206 - SW846 3546										
Matrix Spike Dup (1721206-MSD1)				Source: SC42525-11				Prepared: 22-Dec-17 Analyzed: 02-Jan-18		
2,6-Dinitrotoluene	1000	J, D	µg/kg dry	2020	2010	BRL	50	40-140	6	30
Di-n-octyl phthalate	1020	J, D	µg/kg dry	3990	2010	BRL	50	40-140	0.4	30
Fluoranthene	3840	QM7, D	µg/kg dry	806	2010	483	167	40-140	2	30
Fluorene	1090	D	µg/kg dry	806	2010	BRL	54	40-140	3	30
Hexachlorobenzene	1080	J, D	µg/kg dry	2020	2010	BRL	54	40-140	3	30
Hexachlorobutadiene	979	J, D	µg/kg dry	2020	2010	BRL	49	40-140	6	30
Hexachlorocyclopentadiene	< 2020	QM7, U, D	µg/kg dry	2020	2010	BRL	<1	40-140		30
Hexachloroethane	822	J, D	µg/kg dry	2020	2010	BRL	41	40-140	6	30
Indeno (1,2,3-cd) pyrene	1470	D	µg/kg dry	806	2010	BRL	73	40-140	1	30
Isophorone	781	J, D	µg/kg dry	2020	2010	BRL	39	30-130	1	30
2-Methylnaphthalene	1880	D	µg/kg dry	806	2010	BRL	93	40-140	10	30
2-Methylphenol	705	J, D	µg/kg dry	3990	2010	BRL	35	30-130	4	30
3 & 4-Methylphenol	765	J, D	µg/kg dry	3990	2010	BRL	38	30-130	1	30
Naphthalene	1330	D	µg/kg dry	806	2010	BRL	66	40-140	2	30
2-Nitroaniline	955	J, D	µg/kg dry	3990	2010	BRL	47	40-140	10	30
3-Nitroaniline	689	QM7, J, D	µg/kg dry	3990	2010	BRL	34	40-140	1	30
4-Nitroaniline	882	J, D	µg/kg dry	2020	2010	BRL	44	40-140	13	30
Nitrobenzene	967	J, D	µg/kg dry	2020	2010	BRL	48	40-140	0.02	30
2-Nitrophenol	544	QM7, J, D	µg/kg dry	2020	2010	BRL	27	30-130	0.7	30
4-Nitrophenol	842	J, D	µg/kg dry	16000	2010	BRL	42	30-130	3	30
N-Nitrosodimethylamine	939	J, D	µg/kg dry	2020	2010	BRL	47	40-140	6	30
N-Nitrosodi-n-propylamine	794	QM7, J, D	µg/kg dry	2020	2010	BRL	39	40-140	3	30
N-Nitrosodiphenylamine	975	J, D	µg/kg dry	3990	2010	BRL	48	40-140	1	30
Pentachlorophenol	822	J, D	µg/kg dry	3990	2010	BRL	41	30-130	4	30
Phenanthrene	3230	QM7, D	µg/kg dry	806	2010	BRL	160	40-140	3	30
Phenol	753	J, D	µg/kg dry	3990	2010	BRL	37	30-130	1	30
Pyrene	3350	QM7, D	µg/kg dry	806	2010	467	143	40-140	3	30
Pyridine	810	J, D	µg/kg dry	3990	2010	BRL	40	40-140	8	30
1,2,4-Trichlorobenzene	1020	J, D	µg/kg dry	3990	2010	BRL	50	40-140	4	30
1-Methylnaphthalene	1080	D	µg/kg dry	806	2010	BRL	54	40-140	10	30
2,4,5-Trichlorophenol	874	J, D	µg/kg dry	3990	2010	BRL	43	30-130	2	30
2,4,6-Trichlorophenol	798	J, D	µg/kg dry	2020	2010	BRL	40	30-130	3	30
Pentachloronitrobenzene	894	J, D	µg/kg dry	3990	2010	BRL	44	40-140	7	30
1,2,4,5-Tetrachlorobenzene	902	J, D	µg/kg dry	3990	2010	BRL	45	40-140	3	30
Surrogate: 2-Fluorobiphenyl	894		µg/kg dry		2010		44	30-130		
Surrogate: 2-Fluorophenol	737		µg/kg dry		2010		37	30-130		
Surrogate: Nitrobenzene-d5	749		µg/kg dry		2010		37	30-130		
Surrogate: Phenol-d5	701		µg/kg dry		2010		35	30-130		
Surrogate: Terphenyl-dl4	943		µg/kg dry		2010		47	30-130		
Surrogate: 2,4,6-Tribromophenol	830		µg/kg dry		2010		41	30-130		

SW846 8270D TICS

Batch 1721023 - SW846 3546

Blank (1721023-BLK1)

Prepared: 20-Dec-17 Analyzed: 22-Dec-17

Tentatively Identified Compounds None found µg/kg wet

Batch 1721206 - SW846 3546

Blank (1721206-BLK1)

Prepared: 22-Dec-17 Analyzed: 01-Jan-18

Tentatively Identified Compounds None found µg/kg wet

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8082A										
Batch 1721007 - SW846 3546										
Blank (1721007-BLK1)					<u>Prepared: 20-Dec-17 Analyzed: 21-Dec-17</u>					
Aroclor-1016	< 19.8	U	µg/kg wet	19.8						
Aroclor-1016 [2C]	< 19.8	U	µg/kg wet	19.8						
Aroclor-1221	< 19.8	U	µg/kg wet	19.8						
Aroclor-1221 [2C]	< 19.8	U	µg/kg wet	19.8						
Aroclor-1232	< 19.8	U	µg/kg wet	19.8						
Aroclor-1232 [2C]	< 19.8	U	µg/kg wet	19.8						
Aroclor-1242	< 19.8	U	µg/kg wet	19.8						
Aroclor-1242 [2C]	< 19.8	U	µg/kg wet	19.8						
Aroclor-1248	< 19.8	U	µg/kg wet	19.8						
Aroclor-1248 [2C]	< 19.8	U	µg/kg wet	19.8						
Aroclor-1254	< 19.8	U	µg/kg wet	19.8						
Aroclor-1254 [2C]	< 19.8	U	µg/kg wet	19.8						
Aroclor-1260	< 19.8	U	µg/kg wet	19.8						
Aroclor-1260 [2C]	< 19.8	U	µg/kg wet	19.8						
Aroclor-1262	< 19.8	U	µg/kg wet	19.8						
Aroclor-1262 [2C]	< 19.8	U	µg/kg wet	19.8						
Aroclor-1268	< 19.8	U	µg/kg wet	19.8						
Aroclor-1268 [2C]	< 19.8	U	µg/kg wet	19.8						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	10.9		µg/kg wet		19.8		55	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	11.9		µg/kg wet		19.8		60	30-150		
Surrogate: Decachlorobiphenyl (Sr)	21.8		µg/kg wet		19.8		110	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	22.8		µg/kg wet		19.8		115	30-150		
LCS (1721007-BS1)					<u>Prepared: 20-Dec-17 Analyzed: 21-Dec-17</u>					
Aroclor-1016	196		µg/kg wet	19.4	243		81	40-140		
Aroclor-1016 [2C]	191		µg/kg wet	19.4	243		79	40-140		
Aroclor-1260	218		µg/kg wet	19.4	243		90	40-140		
Aroclor-1260 [2C]	206		µg/kg wet	19.4	243		85	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	12.6		µg/kg wet		19.4		65	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	10.7		µg/kg wet		19.4		55	30-150		
Surrogate: Decachlorobiphenyl (Sr)	22.3		µg/kg wet		19.4		115	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	22.3		µg/kg wet		19.4		115	30-150		
LCS Dup (1721007-BSD1)					<u>Prepared: 20-Dec-17 Analyzed: 21-Dec-17</u>					
Aroclor-1016	176		µg/kg wet	19.7	247		71	40-140	11	30
Aroclor-1016 [2C]	184		µg/kg wet	19.7	247		74	40-140	4	30
Aroclor-1260	207		µg/kg wet	19.7	247		84	40-140	5	30
Aroclor-1260 [2C]	193		µg/kg wet	19.7	247		78	40-140	6	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	11.8		µg/kg wet		19.7		60	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	9.87		µg/kg wet		19.7		50	30-150		
Surrogate: Decachlorobiphenyl (Sr)	20.7		µg/kg wet		19.7		105	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	21.7		µg/kg wet		19.7		110	30-150		
Matrix Spike (1721007-MS1)					<u>Source: SC42525-22 Prepared: 20-Dec-17 Analyzed: 21-Dec-17</u>					
Aroclor-1016	283		µg/kg dry	23.4	292	BRL	97	40-140		
Aroclor-1016 [2C]	264		µg/kg dry	23.4	292	BRL	90	40-140		
Aroclor-1260	289		µg/kg dry	23.4	292	BRL	99	40-140		
Aroclor-1260 [2C]	236		µg/kg dry	23.4	292	BRL	81	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	16.4		µg/kg dry		23.4		70	30-150		

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8082A										
Batch 1721007 - SW846 3546										
Matrix Spike (1721007-MS1)			Source: SC42525-22		Prepared: 20-Dec-17 Analyzed: 21-Dec-17					
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	15.2		µg/kg dry		23.4		65	30-150		
Surrogate: Decachlorobiphenyl (Sr)	29.2		µg/kg dry		23.4		125	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	25.7		µg/kg dry		23.4		110	30-150		
Matrix Spike Dup (1721007-MSD1)			Source: SC42525-22		Prepared: 20-Dec-17 Analyzed: 21-Dec-17					
Aroclor-1016	266		µg/kg dry	23.1	289	BRL	92	40-140	6	30
Aroclor-1016 [2C]	268		µg/kg dry	23.1	289	BRL	93	40-140	1	30
Aroclor-1260	281		µg/kg dry	23.1	289	BRL	97	40-140	3	30
Aroclor-1260 [2C]	232		µg/kg dry	23.1	289	BRL	80	40-140	2	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	16.2		µg/kg dry		23.1		70	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	15.0		µg/kg dry		23.1		65	30-150		
Surrogate: Decachlorobiphenyl (Sr)	27.7		µg/kg dry		23.1		120	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	25.4		µg/kg dry		23.1		110	30-150		
Batch 1721117 - SW846 3546										
Blank (1721117-BLK1)			Prepared: 21-Dec-17 Analyzed: 28-Dec-17							
Aroclor-1016	< 19.1	U	µg/kg wet	19.1						
Aroclor-1016 [2C]	< 19.1	U	µg/kg wet	19.1						
Aroclor-1221	< 19.1	U	µg/kg wet	19.1						
Aroclor-1221 [2C]	< 19.1	U	µg/kg wet	19.1						
Aroclor-1232	< 19.1	U	µg/kg wet	19.1						
Aroclor-1232 [2C]	< 19.1	U	µg/kg wet	19.1						
Aroclor-1242	< 19.1	U	µg/kg wet	19.1						
Aroclor-1242 [2C]	< 19.1	U	µg/kg wet	19.1						
Aroclor-1248	< 19.1	U	µg/kg wet	19.1						
Aroclor-1248 [2C]	< 19.1	U	µg/kg wet	19.1						
Aroclor-1254	< 19.1	U	µg/kg wet	19.1						
Aroclor-1254 [2C]	< 19.1	U	µg/kg wet	19.1						
Aroclor-1260	< 19.1	U	µg/kg wet	19.1						
Aroclor-1260 [2C]	< 19.1	U	µg/kg wet	19.1						
Aroclor-1262	< 19.1	U	µg/kg wet	19.1						
Aroclor-1262 [2C]	< 19.1	U	µg/kg wet	19.1						
Aroclor-1268	< 19.1	U	µg/kg wet	19.1						
Aroclor-1268 [2C]	< 19.1	U	µg/kg wet	19.1						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	8.61		µg/kg wet		19.1		45	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	8.61		µg/kg wet		19.1		45	30-150		
Surrogate: Decachlorobiphenyl (Sr)	17.2		µg/kg wet		19.1		90	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	19.1		µg/kg wet		19.1		100	30-150		
LCS (1721117-BS1)			Prepared: 21-Dec-17 Analyzed: 28-Dec-17							
Aroclor-1016	134		µg/kg wet	19.2	240		56	40-140		
Aroclor-1016 [2C]	140		µg/kg wet	19.2	240		58	40-140		
Aroclor-1260	157		µg/kg wet	19.2	240		66	40-140		
Aroclor-1260 [2C]	140		µg/kg wet	19.2	240		58	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	7.67		µg/kg wet		19.2		40	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	6.71		µg/kg wet		19.2		35	30-150		
Surrogate: Decachlorobiphenyl (Sr)	15.3		µg/kg wet		19.2		80	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	14.4		µg/kg wet		19.2		75	30-150		
LCS Dup (1721117-BSD1)			Prepared: 21-Dec-17 Analyzed: 28-Dec-17							

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8082A										
Batch 1721117 - SW846 3546										
LCS Dup (1721117-BSD1)					Prepared: 21-Dec-17 Analyzed: 28-Dec-17					
Aroclor-1016	148		µg/kg wet	19.2	240		62	40-140	9	30
Aroclor-1016 [2C]	149		µg/kg wet	19.2	240		62	40-140	6	30
Aroclor-1260	163		µg/kg wet	19.2	240		68	40-140	4	30
Aroclor-1260 [2C]	142		µg/kg wet	19.2	240		59	40-140	1	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	7.67		µg/kg wet		19.2		40	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	7.67		µg/kg wet		19.2		40	30-150		
Surrogate: Decachlorobiphenyl (Sr)	16.3		µg/kg wet		19.2		85	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	15.3		µg/kg wet		19.2		80	30-150		
Duplicate (1721117-DUP1)					Source: SC42525-11		Prepared: 21-Dec-17 Analyzed: 28-Dec-17			
Aroclor-1016	< 23.8	U	µg/kg dry	23.8		BRL				30
Aroclor-1016 [2C]	< 23.8	U	µg/kg dry	23.8		BRL				30
Aroclor-1221	< 23.8	U	µg/kg dry	23.8		BRL				30
Aroclor-1221 [2C]	< 23.8	U	µg/kg dry	23.8		BRL				30
Aroclor-1232	< 23.8	U	µg/kg dry	23.8		BRL				30
Aroclor-1232 [2C]	< 23.8	U	µg/kg dry	23.8		BRL				30
Aroclor-1242	< 23.8	U	µg/kg dry	23.8		BRL				30
Aroclor-1242 [2C]	< 23.8	U	µg/kg dry	23.8		BRL				30
Aroclor-1248	< 23.8	U	µg/kg dry	23.8		BRL				30
Aroclor-1248 [2C]	< 23.8	U	µg/kg dry	23.8		BRL				30
Aroclor-1254	< 23.8	U	µg/kg dry	23.8		BRL				30
Aroclor-1254 [2C]	< 23.8	U	µg/kg dry	23.8		BRL				30
Aroclor-1260	< 23.8	U	µg/kg dry	23.8		BRL				30
Aroclor-1260 [2C]	< 23.8	U	µg/kg dry	23.8		BRL				30
Aroclor-1262	38.0		µg/kg dry	23.8		31.2			20	30
Aroclor-1262 [2C]	42.8	QR5	µg/kg dry	23.8		31.0			32	30
Aroclor-1268	< 23.8	U	µg/kg dry	23.8		BRL				30
Aroclor-1268 [2C]	< 23.8	U	µg/kg dry	23.8		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	15.5		µg/kg dry		23.8		65	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	16.6		µg/kg dry		23.8		70	30-150		
Surrogate: Decachlorobiphenyl (Sr)	28.5		µg/kg dry		23.8		120	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	29.7		µg/kg dry		23.8		125	30-150		
Matrix Spike (1721117-MS1)					Source: SC42525-11		Prepared: 21-Dec-17 Analyzed: 28-Dec-17			
Aroclor-1016	207		µg/kg dry	23.7	296	BRL	70	40-140		
Aroclor-1016 [2C]	208		µg/kg dry	23.7	296	BRL	70	40-140		
Aroclor-1260	245		µg/kg dry	23.7	296	BRL	83	40-140		
Aroclor-1260 [2C]	231		µg/kg dry	23.7	296	BRL	78	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	13.0		µg/kg dry		23.7		55	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	11.8		µg/kg dry		23.7		50	30-150		
Surrogate: Decachlorobiphenyl (Sr)	23.7		µg/kg dry		23.7		100	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	23.7		µg/kg dry		23.7		100	30-150		
Matrix Spike Dup (1721117-MSD1)					Source: SC42525-11		Prepared: 21-Dec-17 Analyzed: 28-Dec-17			
Aroclor-1016	249		µg/kg dry	23.6	295	BRL	84	40-140	18	30
Aroclor-1016 [2C]	232		µg/kg dry	23.6	295	BRL	79	40-140	11	30
Aroclor-1260	249		µg/kg dry	23.6	295	BRL	84	40-140	2	30
Aroclor-1260 [2C]	237		µg/kg dry	23.6	295	BRL	80	40-140	3	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	14.2		µg/kg dry		23.6		60	30-150		

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Semivolatile Organic Compounds by GC - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8082A</u>										
Batch 1721117 - SW846 3546										
<u>Matrix Spike Dup (1721117-MSD1)</u>			<u>Source: SC42525-11</u>			<u>Prepared: 21-Dec-17 Analyzed: 28-Dec-17</u>				
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	13.0		µg/kg dry		23.6		55	30-150		
Surrogate: Decachlorobiphenyl (Sr)	27.1		µg/kg dry		23.6		115	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	24.8		µg/kg dry		23.6		105	30-150		

Herbicides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8151A										
Batch 1721032 - SW846 3550C										
Blank (1721032-BLK1)					<u>Prepared: 20-Dec-17 Analyzed: 04-Jan-18</u>					
2,4,5-T	< 6.60	U	µg/kg wet	6.60						
2,4,5-T [2C]	< 6.60	U	µg/kg wet	6.60						
2,4,5-TP (Silvex)	< 6.60	U	µg/kg wet	6.60						
2,4,5-TP (Silvex) [2C]	< 6.60	U	µg/kg wet	6.60						
2,4-D	< 6.60	U	µg/kg wet	6.60						
2,4-D [2C]	< 6.60	U	µg/kg wet	6.60						
2,4-DB	< 6.60	U	µg/kg wet	6.60						
2,4-DB [2C]	< 6.60	U	µg/kg wet	6.60						
Dalapon	< 6.60	U	µg/kg wet	6.60						
Dalapon [2C]	< 6.60	U	µg/kg wet	6.60						
Dicamba	< 6.60	U	µg/kg wet	6.60						
Dicamba [2C]	< 6.60	U	µg/kg wet	6.60						
Dichlorprop	< 6.60	U	µg/kg wet	6.60						
Dichlorprop [2C]	< 6.60	U	µg/kg wet	6.60						
Dinoseb	< 6.60	U	µg/kg wet	6.60						
Dinoseb [2C]	< 6.60	U	µg/kg wet	6.60						
MCPA	< 2220	U	µg/kg wet	2220						
MCPA [2C]	< 2220	U	µg/kg wet	2220						
MCPB	< 2220	U	µg/kg wet	2220						
MCPB [2C]	< 2220	U	µg/kg wet	2220						
MCPP	< 2220	U	µg/kg wet	2220						
MCPP [2C]	< 2220	U	µg/kg wet	2220						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	12.5		µg/kg wet		13.1		95	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	11.8		µg/kg wet		13.1		90	30-150		
Surrogate: DCAA (Sr)	12.5		µg/kg wet		13.1		95	30-150		
Surrogate: DCAA (Sr) [2C]	13.1		µg/kg wet		13.1		100	30-150		
LCS (1721032-BS1)					<u>Prepared: 20-Dec-17 Analyzed: 04-Jan-18</u>					
2,4,5-T	17.9		µg/kg wet	6.66	33.1		54	40-140		
2,4,5-T [2C]	19.9		µg/kg wet	6.66	33.1		60	40-140		
2,4,5-TP (Silvex)	17.9		µg/kg wet	6.66	33.1		54	40-140		
2,4,5-TP (Silvex) [2C]	20.5		µg/kg wet	6.66	33.1		62	40-140		
2,4-D	19.9		µg/kg wet	6.66	33.1		60	40-140		
2,4-D [2C]	22.5		µg/kg wet	6.66	33.1		68	40-140		
2,4-DB	15.9		µg/kg wet	6.66	33.1		48	40-140		
2,4-DB [2C]	24.5		µg/kg wet	6.66	33.1		74	40-140		
Dalapon	21.9		µg/kg wet	6.66	33.1		66	40-140		
Dalapon [2C]	23.9		µg/kg wet	6.66	33.1		72	40-140		
Dicamba	19.9		µg/kg wet	6.66	33.1		60	40-140		
Dicamba [2C]	21.2		µg/kg wet	6.66	33.1		64	40-140		
Dichlorprop	17.2		µg/kg wet	6.66	33.1		52	40-140		
Dichlorprop [2C]	25.9		µg/kg wet	6.66	33.1		78	40-140		
Dinoseb	17.2		µg/kg wet	6.66	33.1		52	40-140		
Dinoseb [2C]	19.9		µg/kg wet	6.66	33.1		60	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	12.6		µg/kg wet		13.3		95	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	12.6		µg/kg wet		13.3		95	30-150		
Surrogate: DCAA (Sr)	12.6		µg/kg wet		13.3		95	30-150		
Surrogate: DCAA (Sr) [2C]	12.6		µg/kg wet		13.3		95	30-150		
LCS (1721032-BS2)					<u>Prepared: 20-Dec-17 Analyzed: 04-Jan-18</u>					

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Herbicides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8151A										
Batch 1721032 - SW846 3550C										
LCS (1721032-BS2)					Prepared: 20-Dec-17 Analyzed: 04-Jan-18					
MCPA	5280		µg/kg wet	2230	4950		107	40-140		
MCPA [2C]	5940		µg/kg wet	2230	4950		120	40-140		
MCPB	2640		µg/kg wet	2230	4950		53	40-140		
MCPB [2C]	2640		µg/kg wet	2230	4950		53	40-140		
MCPB	5940		µg/kg wet	2230	4950		120	40-140		
MCPB [2C]	3960		µg/kg wet	2230	4950		80	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	13.2		µg/kg wet		13.2		100	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	12.5		µg/kg wet		13.2		95	30-150		
Surrogate: DCAA (Sr)	13.2		µg/kg wet		13.2		100	30-150		
Surrogate: DCAA (Sr) [2C]	13.2		µg/kg wet		13.2		100	30-150		
LCS Dup (1721032-BSD1)					Prepared: 20-Dec-17 Analyzed: 04-Jan-18					
2,4,5-T	18.4		µg/kg wet	6.61	32.9		56	40-140	3	30
2,4,5-T [2C]	18.4		µg/kg wet	6.61	32.9		56	40-140	8	30
2,4,5-TP (Silvex)	18.4		µg/kg wet	6.61	32.9		56	40-140	3	30
2,4,5-TP (Silvex) [2C]	19.1		µg/kg wet	6.61	32.9		58	40-140	7	30
2,4-D	20.4		µg/kg wet	6.61	32.9		62	40-140	3	30
2,4-D [2C]	20.4		µg/kg wet	6.61	32.9		62	40-140	10	30
2,4-DB	16.4		µg/kg wet	6.61	32.9		50	40-140	3	30
2,4-DB [2C]	21.7		µg/kg wet	6.61	32.9		66	40-140	12	30
Dalapon	21.1		µg/kg wet	6.61	32.9		64	40-140	4	30
Dalapon [2C]	22.4		µg/kg wet	6.61	32.9		68	40-140	6	30
Dicamba	20.4		µg/kg wet	6.61	32.9		62	40-140	3	30
Dicamba [2C]	19.7		µg/kg wet	6.61	32.9		60	40-140	7	30
Dichlorprop	17.1		µg/kg wet	6.61	32.9		52	40-140	0.7	30
Dichlorprop [2C]	21.1		µg/kg wet	6.61	32.9		64	40-140	20	30
Dinoseb	19.1		µg/kg wet	6.61	32.9		58	40-140	10	30
Dinoseb [2C]	19.1		µg/kg wet	6.61	32.9		58	40-140	4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	12.5		µg/kg wet		13.2		95	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	11.8		µg/kg wet		13.2		90	30-150		
Surrogate: DCAA (Sr)	12.5		µg/kg wet		13.2		95	30-150		
Surrogate: DCAA (Sr) [2C]	12.5		µg/kg wet		13.2		95	30-150		
LCS Dup (1721032-BSD2)					Prepared: 20-Dec-17 Analyzed: 04-Jan-18					
MCPA	5960		µg/kg wet	2230	4960		120	40-140	12	30
MCPA [2C]	5300		µg/kg wet	2230	4960		107	40-140	11	30
MCPB	2650		µg/kg wet	2230	4960		53	40-140	0.4	30
MCPB [2C]	2650		µg/kg wet	2230	4960		53	40-140	0.4	30
MCPB	6620		µg/kg wet	2230	4960		133	40-140	11	30
MCPB [2C]	3970		µg/kg wet	2230	4960		80	40-140	0.4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	13.2		µg/kg wet		13.2		100	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	11.9		µg/kg wet		13.2		90	30-150		
Surrogate: DCAA (Sr)	13.2		µg/kg wet		13.2		100	30-150		
Surrogate: DCAA (Sr) [2C]	12.6		µg/kg wet		13.2		95	30-150		
Batch 1721260 - SW846 3546										
Blank (1721260-BLK1)					Prepared: 22-Dec-17 Analyzed: 04-Jan-18					
2,4,5-T	< 6.63	U	µg/kg wet	6.63						
2,4,5-T [2C]	< 6.63	U	µg/kg wet	6.63						
2,4,5-TP (Silvex)	< 6.63	U	µg/kg wet	6.63						

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Herbicides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8151A										
Batch 1721260 - SW846 3546										
Blank (1721260-BLK1)					<u>Prepared: 22-Dec-17 Analyzed: 04-Jan-18</u>					
2,4,5-TP (Silvex) [2C]	< 6.63	U	µg/kg wet	6.63						
2,4-D	< 6.63	U	µg/kg wet	6.63						
2,4-D [2C]	< 6.63	U	µg/kg wet	6.63						
2,4-DB	< 6.63	U	µg/kg wet	6.63						
2,4-DB [2C]	< 6.63	U	µg/kg wet	6.63						
Dalapon	< 6.63	U	µg/kg wet	6.63						
Dalapon [2C]	< 6.63	U	µg/kg wet	6.63						
Dicamba	< 6.63	U	µg/kg wet	6.63						
Dicamba [2C]	< 6.63	U	µg/kg wet	6.63						
Dichlorprop	< 6.63	U	µg/kg wet	6.63						
Dichlorprop [2C]	< 6.63	U	µg/kg wet	6.63						
Dinoseb	< 6.63	U	µg/kg wet	6.63						
Dinoseb [2C]	< 6.63	U	µg/kg wet	6.63						
MCPA	< 2230	U	µg/kg wet	2230						
MCPA [2C]	< 2230	U	µg/kg wet	2230						
MCPB	< 2230	U	µg/kg wet	2230						
MCPB [2C]	< 2230	U	µg/kg wet	2230						
MCPP	< 2230	U	µg/kg wet	2230						
MCPP [2C]	< 2230	U	µg/kg wet	2230						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	13.2		µg/kg wet		13.2		100	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	11.2		µg/kg wet		13.2		85	30-150		
Surrogate: DCAA (Sr)	11.9		µg/kg wet		13.2		90	30-150		
Surrogate: DCAA (Sr) [2C]	13.2		µg/kg wet		13.2		100	30-150		
LCS (1721260-BS1)					<u>Prepared: 22-Dec-17 Analyzed: 04-Jan-18</u>					
2,4,5-T	13.8		µg/kg wet	6.62	32.9		42	40-140		
2,4,5-T [2C]	13.2		µg/kg wet	6.62	32.9		40	40-140		
2,4,5-TP (Silvex)	13.8		µg/kg wet	6.62	32.9		42	40-140		
2,4,5-TP (Silvex) [2C]	13.2		µg/kg wet	6.62	32.9		40	40-140		
2,4-D	14.5		µg/kg wet	6.62	32.9		44	40-140		
2,4-D [2C]	13.8		µg/kg wet	6.62	32.9		42	40-140		
2,4-DB	13.8		µg/kg wet	6.62	32.9		42	40-140		
2,4-DB [2C]	14.5		µg/kg wet	6.62	32.9		44	40-140		
Dalapon	16.5		µg/kg wet	6.62	32.9		50	40-140		
Dalapon [2C]	17.8		µg/kg wet	6.62	32.9		54	40-140		
Dicamba	15.1		µg/kg wet	6.62	32.9		46	40-140		
Dicamba [2C]	15.8		µg/kg wet	6.62	32.9		48	40-140		
Dichlorprop	15.8		µg/kg wet	6.62	32.9		48	40-140		
Dichlorprop [2C]	15.1		µg/kg wet	6.62	32.9		46	40-140		
Dinoseb	14.5		µg/kg wet	6.62	32.9		44	40-140		
Dinoseb [2C]	13.2		µg/kg wet	6.62	32.9		40	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	12.5		µg/kg wet		13.2		95	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	11.9		µg/kg wet		13.2		90	30-150		
Surrogate: DCAA (Sr)	11.9		µg/kg wet		13.2		90	30-150		
Surrogate: DCAA (Sr) [2C]	15.1		µg/kg wet		13.2		115	30-150		
LCS (1721260-BS2)					<u>Prepared: 22-Dec-17 Analyzed: 04-Jan-18</u>					
MCPA	5270		µg/kg wet	2220	4940		107	40-140		
MCPA [2C]	4610		µg/kg wet	2220	4940		93	40-140		
MCPB	2640		µg/kg wet	2220	4940		53	40-140		

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Herbicides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8151A										
Batch 1721260 - SW846 3546										
LCS (1721260-BS2)					Prepared: 22-Dec-17 Analyzed: 04-Jan-18					
MCPB [2C]	3300		µg/kg wet	2220	4940		67	40-140		
MCPB	4610		µg/kg wet	2220	4940		93	40-140		
MCPB [2C]	3300		µg/kg wet	2220	4940		67	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	13.2		µg/kg wet		13.2		100	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	11.9		µg/kg wet		13.2		90	30-150		
Surrogate: DCAA (Sr)	12.5		µg/kg wet		13.2		95	30-150		
Surrogate: DCAA (Sr) [2C]	14.5		µg/kg wet		13.2		110	30-150		
LCS Dup (1721260-BS2)					Prepared: 22-Dec-17 Analyzed: 04-Jan-18					
2,4,5-T	13.2		µg/kg wet	6.62	32.9		40	40-140	5	30
2,4,5-T [2C]	13.2		µg/kg wet	6.62	32.9		40	40-140	0.04	30
2,4,5-TP (Silvex)	13.8		µg/kg wet	6.62	32.9		42	40-140	0.04	30
2,4,5-TP (Silvex) [2C]	13.8		µg/kg wet	6.62	32.9		42	40-140	5	30
2,4-D	14.5		µg/kg wet	6.62	32.9		44	40-140	0.04	30
2,4-D [2C]	15.1		µg/kg wet	6.62	32.9		46	40-140	9	30
2,4-DB	13.2		µg/kg wet	6.62	32.9		40	40-140	5	30
2,4-DB [2C]	13.8		µg/kg wet	6.62	32.9		42	40-140	5	30
Dalapon	15.1		µg/kg wet	6.62	32.9		46	40-140	8	30
Dalapon [2C]	18.4		µg/kg wet	6.62	32.9		56	40-140	4	30
Dicamba	15.1		µg/kg wet	6.62	32.9		46	40-140	0.04	30
Dicamba [2C]	15.8		µg/kg wet	6.62	32.9		48	40-140	0.04	30
Dichlorprop	15.1		µg/kg wet	6.62	32.9		46	40-140	4	30
Dichlorprop [2C]	15.8		µg/kg wet	6.62	32.9		48	40-140	4	30
Dinoseb	15.8		µg/kg wet	6.62	32.9		48	40-140	9	30
Dinoseb [2C]	13.2		µg/kg wet	6.62	32.9		40	40-140	0.04	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	12.5		µg/kg wet		13.2		95	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	11.9		µg/kg wet		13.2		90	30-150		
Surrogate: DCAA (Sr)	11.9		µg/kg wet		13.2		90	30-150		
Surrogate: DCAA (Sr) [2C]	13.2		µg/kg wet		13.2		100	30-150		
LCS Dup (1721260-BS2)					Prepared: 22-Dec-17 Analyzed: 04-Jan-18					
MCPA	4620		µg/kg wet	2230	4950		93	40-140	13	30
MCPA [2C]	4620		µg/kg wet	2230	4950		93	40-140	0.05	30
MCPB	2640		µg/kg wet	2230	4950		53	40-140	0.05	30
MCPB [2C]	2640		µg/kg wet	2230	4950		53	40-140	22	30
MCPB	4620		µg/kg wet	2230	4950		93	40-140	0.05	30
MCPB [2C]	3300		µg/kg wet	2230	4950		67	40-140	0.05	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	11.9		µg/kg wet		13.2		90	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	11.9		µg/kg wet		13.2		90	30-150		
Surrogate: DCAA (Sr)	11.9		µg/kg wet		13.2		90	30-150		
Surrogate: DCAA (Sr) [2C]	12.5		µg/kg wet		13.2		95	30-150		
Duplicate (1721260-DUP1)					Source: SC42525-06 Prepared: 22-Dec-17 Analyzed: 05-Jan-18					
2,4,5-T	< 8.04	U	µg/kg dry	8.04		BRL				30
2,4,5-T [2C]	< 8.04	U	µg/kg dry	8.04		BRL				30
2,4,5-TP (Silvex)	< 8.04	U	µg/kg dry	8.04		BRL				30
2,4,5-TP (Silvex) [2C]	< 8.04	U	µg/kg dry	8.04		BRL				30
2,4-D	10.4	QR5	µg/kg dry	8.04		16.1			43	30
2,4-D [2C]	18.4		µg/kg dry	8.04		14.5			24	30
2,4-DB	< 8.04	U	µg/kg dry	8.04		BRL				30

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Herbicides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8151A										
Batch 1721260 - SW846 3546										
Duplicate (1721260-DUP1)				Source: SC42525-06				Prepared: 22-Dec-17 Analyzed: 05-Jan-18		
2,4-DB [2C]	< 8.04	U	µg/kg dry	8.04		BRL				30
Dalapon	< 8.04	U	µg/kg dry	8.04		BRL				30
Dalapon [2C]	< 8.04	U	µg/kg dry	8.04		BRL				30
Dicamba	< 8.04	U	µg/kg dry	8.04		BRL				30
Dicamba [2C]	< 8.04	U	µg/kg dry	8.04		BRL				30
Dichlorprop	< 8.04	U	µg/kg dry	8.04		BRL				30
Dichlorprop [2C]	< 8.04	U	µg/kg dry	8.04		BRL				30
Dinoseb	< 8.04	U	µg/kg dry	8.04		BRL				30
Dinoseb [2C]	< 8.04	U	µg/kg dry	8.04		BRL				30
MCPA	< 2700	U	µg/kg dry	2700		BRL				30
MCPA [2C]	< 2700	U	µg/kg dry	2700		BRL				30
MCPB	< 2700	U	µg/kg dry	2700		BRL				30
MCPB [2C]	< 2700	U	µg/kg dry	2700		BRL				30
MCPP	< 2700	U	µg/kg dry	2700		BRL				30
MCPP [2C]	< 2700	U	µg/kg dry	2700		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	16.0		µg/kg dry		16.0		100	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	16.8		µg/kg dry		16.0		105	30-150		
Surrogate: DCAA (Sr)	14.4		µg/kg dry		16.0		90	30-150		
Surrogate: DCAA (Sr) [2C]	16.8		µg/kg dry		16.0		105	30-150		
Matrix Spike (1721260-MS1)				Source: SC42525-06				Prepared: 22-Dec-17 Analyzed: 05-Jan-18		
2,4,5-T	32.7		µg/kg dry	8.02	39.9	BRL	82	30-150		
2,4,5-T [2C]	36.7		µg/kg dry	8.02	39.9	BRL	92	30-150		
2,4,5-TP (Silvex)	33.5		µg/kg dry	8.02	39.9	BRL	84	30-150		
2,4,5-TP (Silvex) [2C]	38.3		µg/kg dry	8.02	39.9	BRL	96	30-150		
2,4-D	46.3		µg/kg dry	8.02	39.9	16.1	76	30-150		
2,4-D [2C]	46.3		µg/kg dry	8.02	39.9	14.5	80	30-150		
2,4-DB	24.7		µg/kg dry	8.02	39.9	BRL	62	30-150		
2,4-DB [2C]	27.9		µg/kg dry	8.02	39.9	BRL	70	30-150		
Dalapon	45.5		µg/kg dry	8.02	39.9	BRL	114	30-150		
Dalapon [2C]	40.7		µg/kg dry	8.02	39.9	BRL	102	30-150		
Dicamba	38.3		µg/kg dry	8.02	39.9	BRL	96	30-150		
Dicamba [2C]	37.5		µg/kg dry	8.02	39.9	BRL	94	30-150		
Dichlorprop	31.9		µg/kg dry	8.02	39.9	BRL	80	30-150		
Dichlorprop [2C]	50.3		µg/kg dry	8.02	39.9	BRL	126	30-150		
Dinoseb	23.1		µg/kg dry	8.02	39.9	BRL	58	30-150		
Dinoseb [2C]	32.7		µg/kg dry	8.02	39.9	BRL	82	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	16.0		µg/kg dry		16.0		100	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	16.8		µg/kg dry		16.0		105	30-150		
Surrogate: DCAA (Sr)	15.2		µg/kg dry		16.0		95	30-150		
Surrogate: DCAA (Sr) [2C]	19.9		µg/kg dry		16.0		125	30-150		
Matrix Spike Dup (1721260-MSD1)				Source: SC42525-06				Prepared: 22-Dec-17 Analyzed: 05-Jan-18		
2,4,5-T	35.1		µg/kg dry	8.03	39.9	BRL	88	30-150	7	30
2,4,5-T [2C]	38.3		µg/kg dry	8.03	39.9	BRL	96	30-150	4	30
2,4,5-TP (Silvex)	34.4		µg/kg dry	8.03	39.9	BRL	86	30-150	2	30
2,4,5-TP (Silvex) [2C]	38.3		µg/kg dry	8.03	39.9	BRL	96	30-150	0.1	30
2,4-D	45.5		µg/kg dry	8.03	39.9	16.1	74	30-150	2	30
2,4-D [2C]	46.3		µg/kg dry	8.03	39.9	14.5	80	30-150	0.1	30
2,4-DB	27.2		µg/kg dry	8.03	39.9	BRL	68	30-150	9	30

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Herbicides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8151A										
Batch 1721260 - SW846 3546										
Matrix Spike Dup (1721260-MSD1)				Source: SC42525-06		Prepared: 22-Dec-17 Analyzed: 05-Jan-18				
2,4-DB [2C]	27.2		µg/kg dry	8.03	39.9	BRL	68	30-150	3	30
Dalapon	38.3		µg/kg dry	8.03	39.9	BRL	96	30-150	17	30
Dalapon [2C]	33.6		µg/kg dry	8.03	39.9	BRL	84	30-150	19	30
Dicamba	36.7		µg/kg dry	8.03	39.9	BRL	92	30-150	4	30
Dicamba [2C]	38.3		µg/kg dry	8.03	39.9	BRL	96	30-150	2	30
Dichlorprop	38.3		µg/kg dry	8.03	39.9	BRL	96	30-150	18	30
Dichlorprop [2C]	43.1		µg/kg dry	8.03	39.9	BRL	108	30-150	15	30
Dinoseb	27.2		µg/kg dry	8.03	39.9	BRL	68	30-150	16	30
Dinoseb [2C]	43.1		µg/kg dry	8.03	39.9	BRL	108	30-150	27	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	16.0		µg/kg dry		16.0		100	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	16.8		µg/kg dry		16.0		105	30-150		
Surrogate: DCAA (Sr)	15.2		µg/kg dry		16.0		95	30-150		
Surrogate: DCAA (Sr) [2C]	18.4		µg/kg dry		16.0		115	30-150		
Batch 1721359 - SW846 3550C										
Blank (1721359-BLK1)				Prepared: 28-Dec-17 Analyzed: 05-Jan-18						
2,4,5-T	< 6.62	U	µg/kg wet	6.62						
2,4,5-T [2C]	< 6.62	U	µg/kg wet	6.62						
2,4,5-TP (Silvex)	< 6.62	U	µg/kg wet	6.62						
2,4,5-TP (Silvex) [2C]	< 6.62	U	µg/kg wet	6.62						
2,4-D	< 6.62	U	µg/kg wet	6.62						
2,4-D [2C]	< 6.62	U	µg/kg wet	6.62						
2,4-DB	< 6.62	U	µg/kg wet	6.62						
2,4-DB [2C]	< 6.62	U	µg/kg wet	6.62						
Dalapon	< 6.62	U	µg/kg wet	6.62						
Dalapon [2C]	< 6.62	U	µg/kg wet	6.62						
Dicamba	< 6.62	U	µg/kg wet	6.62						
Dicamba [2C]	< 6.62	U	µg/kg wet	6.62						
Dichlorprop	< 6.62	U	µg/kg wet	6.62						
Dichlorprop [2C]	< 6.62	U	µg/kg wet	6.62						
Dinoseb	< 6.62	U	µg/kg wet	6.62						
Dinoseb [2C]	< 6.62	U	µg/kg wet	6.62						
MCPA	< 2220	U	µg/kg wet	2220						
MCPA [2C]	< 2220	U	µg/kg wet	2220						
MCPB	< 2220	U	µg/kg wet	2220						
MCPB [2C]	< 2220	U	µg/kg wet	2220						
MCPB	< 2220	U	µg/kg wet	2220						
MCPB [2C]	< 2220	U	µg/kg wet	2220						
MCPB	< 2220	U	µg/kg wet	2220						
MCPB [2C]	< 2220	U	µg/kg wet	2220						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	13.2		µg/kg wet		13.2		100	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	13.2		µg/kg wet		13.2		100	30-150		
Surrogate: DCAA (Sr)	13.2		µg/kg wet		13.2		100	30-150		
Surrogate: DCAA (Sr) [2C]	13.8		µg/kg wet		13.2		105	30-150		
LCS (1721359-BS1)				Prepared: 28-Dec-17 Analyzed: 05-Jan-18						
2,4,5-T	23.8		µg/kg wet	6.65	33.1		72	40-140		
2,4,5-T [2C]	25.1		µg/kg wet	6.65	33.1		76	40-140		
2,4,5-TP (Silvex)	23.2		µg/kg wet	6.65	33.1		70	40-140		
2,4,5-TP (Silvex) [2C]	24.5		µg/kg wet	6.65	33.1		74	40-140		
2,4-D	25.8		µg/kg wet	6.65	33.1		78	40-140		
2,4-D [2C]	25.1		µg/kg wet	6.65	33.1		76	40-140		

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Herbicides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8151A</u>										
Batch 1721359 - SW846 3550C										
<u>LCS (1721359-BS1)</u>					<u>Prepared: 28-Dec-17 Analyzed: 05-Jan-18</u>					
2,4-DB	22.5		µg/kg wet	6.65	33.1		68	40-140		
2,4-DB [2C]	24.5		µg/kg wet	6.65	33.1		74	40-140		
Dalapon	25.8		µg/kg wet	6.65	33.1		78	40-140		
Dalapon [2C]	25.1		µg/kg wet	6.65	33.1		76	40-140		
Dicamba	24.5		µg/kg wet	6.65	33.1		74	40-140		
Dicamba [2C]	24.5		µg/kg wet	6.65	33.1		74	40-140		
Dichlorprop	23.8		µg/kg wet	6.65	33.1		72	40-140		
Dichlorprop [2C]	26.5		µg/kg wet	6.65	33.1		80	40-140		
Dinoseb	15.9		µg/kg wet	6.65	33.1		48	40-140		
Dinoseb [2C]	15.9		µg/kg wet	6.65	33.1		48	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	12.6		µg/kg wet		13.2		95	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	12.6		µg/kg wet		13.2		95	30-150		
Surrogate: DCAA (Sr)	13.2		µg/kg wet		13.2		100	30-150		
Surrogate: DCAA (Sr) [2C]	12.6		µg/kg wet		13.2		95	30-150		
<u>LCS (1721359-BS2)</u>					<u>Prepared: 28-Dec-17 Analyzed: 05-Jan-18</u>					
MCPA	9260		µg/kg wet	2230	9920		93	40-140		
MCPA [2C]	7280		µg/kg wet	2230	9920		73	40-140		
MCPB	5290		µg/kg wet	2230	9920		53	40-140		
MCPB [2C]	5290		µg/kg wet	2230	9920		53	40-140		
MCPP	7280		µg/kg wet	2230	9920		73	40-140		
MCPP [2C]	7940		µg/kg wet	2230	9920		80	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	13.9		µg/kg wet		13.2		105	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	12.6		µg/kg wet		13.2		95	30-150		
Surrogate: DCAA (Sr)	14.6		µg/kg wet		13.2		110	30-150		
Surrogate: DCAA (Sr) [2C]	12.6		µg/kg wet		13.2		95	30-150		
<u>LCS Dup (1721359-BSD1)</u>					<u>Prepared: 28-Dec-17 Analyzed: 05-Jan-18</u>					
2,4,5-T	27.7		µg/kg wet	6.64	33.0		84	40-140	15	30
2,4,5-T [2C]	27.1		µg/kg wet	6.64	33.0		82	40-140	7	30
2,4,5-TP (Silvex)	27.7		µg/kg wet	6.64	33.0		84	40-140	18	30
2,4,5-TP (Silvex) [2C]	27.7		µg/kg wet	6.64	33.0		84	40-140	12	30
2,4-D	30.4		µg/kg wet	6.64	33.0		92	40-140	16	30
2,4-D [2C]	27.7		µg/kg wet	6.64	33.0		84	40-140	10	30
2,4-DB	23.1		µg/kg wet	6.64	33.0		70	40-140	3	30
2,4-DB [2C]	24.4		µg/kg wet	6.64	33.0		74	40-140	0.2	30
Dalapon	27.7		µg/kg wet	6.64	33.0		84	40-140	7	30
Dalapon [2C]	30.4		µg/kg wet	6.64	33.0		92	40-140	19	30
Dicamba	27.7		µg/kg wet	6.64	33.0		84	40-140	12	30
Dicamba [2C]	27.7		µg/kg wet	6.64	33.0		84	40-140	12	30
Dichlorprop	29.1		µg/kg wet	6.64	33.0		88	40-140	20	30
Dichlorprop [2C]	28.4		µg/kg wet	6.64	33.0		86	40-140	7	30
Dinoseb	18.5		µg/kg wet	6.64	33.0		56	40-140	15	30
Dinoseb [2C]	16.5		µg/kg wet	6.64	33.0		50	40-140	4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	13.2		µg/kg wet		13.2		100	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	12.5		µg/kg wet		13.2		95	30-150		
Surrogate: DCAA (Sr)	13.9		µg/kg wet		13.2		105	30-150		
Surrogate: DCAA (Sr) [2C]	13.2		µg/kg wet		13.2		100	30-150		
<u>LCS Dup (1721359-BSD2)</u>					<u>Prepared: 28-Dec-17 Analyzed: 05-Jan-18</u>					

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Herbicides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8151A</u>										
Batch 1721359 - SW846 3550C										
<u>LCS Dup (1721359-BSD2)</u>					Prepared: 28-Dec-17 Analyzed: 05-Jan-18					
MCPA	9240		µg/kg wet	2230	9900		93	40-140	0.2	30
MCPA [2C]	7920		µg/kg wet	2230	9900		80	40-140	8	30
MCPB	5280		µg/kg wet	2230	9900		53	40-140	0.2	30
MCPB [2C]	5280		µg/kg wet	2230	9900		53	40-140	0.2	30
MCPP	7920		µg/kg wet	2230	9900		80	40-140	8	30
MCPP [2C]	8580		µg/kg wet	2230	9900		87	40-140	8	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	13.9		µg/kg wet		13.2		105	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	12.5		µg/kg wet		13.2		95	30-150		
Surrogate: DCAA (Sr)	14.5		µg/kg wet		13.2		110	30-150		
Surrogate: DCAA (Sr) [2C]	12.5		µg/kg wet		13.2		95	30-150		

Pesticides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8081B										
Batch 1721116 - SW846 3546										
Blank (1721116-BLK1)	Prepared: 21-Dec-17 Analyzed: 04-Jan-18									
alpha-BHC	< 4.90	U	µg/kg wet	4.90						
alpha-BHC [2C]	< 4.90	U	µg/kg wet	4.90						
beta-BHC	< 4.90	U	µg/kg wet	4.90						
beta-BHC [2C]	< 4.90	U	µg/kg wet	4.90						
delta-BHC	< 4.90	U	µg/kg wet	4.90						
delta-BHC [2C]	< 4.90	U	µg/kg wet	4.90						
gamma-BHC (Lindane)	< 2.94	U	µg/kg wet	2.94						
gamma-BHC (Lindane) [2C]	< 2.94	U	µg/kg wet	2.94						
Heptachlor	< 4.90	U	µg/kg wet	4.90						
Heptachlor [2C]	< 4.90	U	µg/kg wet	4.90						
Aldrin	< 4.90	U	µg/kg wet	4.90						
Aldrin [2C]	< 4.90	U	µg/kg wet	4.90						
Heptachlor epoxide	< 4.90	U	µg/kg wet	4.90						
Heptachlor epoxide [2C]	< 4.90	U	µg/kg wet	4.90						
Endosulfan I	< 4.90	U	µg/kg wet	4.90						
Endosulfan I [2C]	< 4.90	U	µg/kg wet	4.90						
Dieldrin	< 4.90	U	µg/kg wet	4.90						
Dieldrin [2C]	< 4.90	U	µg/kg wet	4.90						
4,4'-DDE (p,p')	< 4.90	U	µg/kg wet	4.90						
4,4'-DDE (p,p') [2C]	< 4.90	U	µg/kg wet	4.90						
Endrin	< 7.84	U	µg/kg wet	7.84						
Endrin [2C]	< 7.84	U	µg/kg wet	7.84						
Endosulfan II	< 7.84	U	µg/kg wet	7.84						
Endosulfan II [2C]	< 7.84	U	µg/kg wet	7.84						
4,4'-DDD (p,p')	< 7.84	U	µg/kg wet	7.84						
4,4'-DDD (p,p') [2C]	< 7.84	U	µg/kg wet	7.84						
Endosulfan sulfate	< 7.84	U	µg/kg wet	7.84						
Endosulfan sulfate [2C]	< 7.84	U	µg/kg wet	7.84						
4,4'-DDT (p,p')	< 7.84	U	µg/kg wet	7.84						
4,4'-DDT (p,p') [2C]	< 7.84	U	µg/kg wet	7.84						
Methoxychlor	< 7.84	U	µg/kg wet	7.84						
Methoxychlor [2C]	< 7.84	U	µg/kg wet	7.84						
Endrin ketone	< 7.84	U	µg/kg wet	7.84						
Endrin ketone [2C]	< 7.84	U	µg/kg wet	7.84						
Endrin aldehyde	< 7.84	U	µg/kg wet	7.84						
Endrin aldehyde [2C]	< 7.84	U	µg/kg wet	7.84						
alpha-Chlordane	< 4.90	U	µg/kg wet	4.90						
alpha-Chlordane [2C]	< 4.90	U	µg/kg wet	4.90						
Chlordane (gamma)(trans)	< 4.90	U	µg/kg wet	4.90						
Chlordane (gamma)(trans) [2C]	< 4.90	U	µg/kg wet	4.90						
Toxaphene	< 98.0	U	µg/kg wet	98.0						
Toxaphene [2C]	< 98.0	U	µg/kg wet	98.0						
Chlordane	< 19.6	U	µg/kg wet	19.6						
Chlordane [2C]	< 19.6	U	µg/kg wet	19.6						
Alachlor	< 4.90	U	µg/kg wet	4.90						
Alachlor [2C]	< 4.90	U	µg/kg wet	4.90						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	7.78		µg/kg wet		9.80		79	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	7.78		µg/kg wet		9.80		79	30-150		
Surrogate: Decachlorobiphenyl (Sr)	8.01		µg/kg wet		9.80		82	30-150		

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Pesticides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8081B										
Batch 1721116 - SW846 3546										
Blank (1721116-BLK1)					Prepared: 21-Dec-17 Analyzed: 04-Jan-18					
Surrogate: Decachlorobiphenyl (Sr) [2C]	8.79		µg/kg wet		9.80		90	30-150		
LCS (1721116-BS1)					Prepared: 21-Dec-17 Analyzed: 04-Jan-18					
alpha-BHC	14.6		µg/kg wet	4.89	24.5		60	40-140		
alpha-BHC [2C]	15.2		µg/kg wet	4.89	24.5		62	40-140		
beta-BHC	16.9		µg/kg wet	4.89	24.5		69	40-140		
beta-BHC [2C]	17.0		µg/kg wet	4.89	24.5		70	40-140		
delta-BHC	15.2		µg/kg wet	4.89	24.5		62	40-140		
delta-BHC [2C]	15.7		µg/kg wet	4.89	24.5		64	40-140		
gamma-BHC (Lindane)	15.2		µg/kg wet	2.94	24.5		62	40-140		
gamma-BHC (Lindane) [2C]	15.7		µg/kg wet	2.94	24.5		64	40-140		
Heptachlor	16.1		µg/kg wet	4.89	24.5		66	40-140		
Heptachlor [2C]	17.3		µg/kg wet	4.89	24.5		71	40-140		
Aldrin	16.5		µg/kg wet	4.89	24.5		68	40-140		
Aldrin [2C]	17.4		µg/kg wet	4.89	24.5		71	40-140		
Heptachlor epoxide	16.4		µg/kg wet	4.89	24.5		67	40-140		
Heptachlor epoxide [2C]	17.0		µg/kg wet	4.89	24.5		70	40-140		
Endosulfan I	17.3		µg/kg wet	4.89	24.5		71	40-140		
Endosulfan I [2C]	18.2		µg/kg wet	4.89	24.5		74	40-140		
Dieldrin	16.5		µg/kg wet	4.89	24.5		68	40-140		
Dieldrin [2C]	17.2		µg/kg wet	4.89	24.5		70	40-140		
4,4'-DDE (p,p')	16.7		µg/kg wet	4.89	24.5		68	40-140		
4,4'-DDE (p,p') [2C]	16.5		µg/kg wet	4.89	24.5		67	40-140		
Endrin	18.3		µg/kg wet	7.83	24.5		75	40-140		
Endrin [2C]	20.2		µg/kg wet	7.83	24.5		83	40-140		
Endosulfan II	17.3		µg/kg wet	7.83	24.5		71	40-140		
Endosulfan II [2C]	18.8		µg/kg wet	7.83	24.5		77	40-140		
4,4'-DDD (p,p')	16.7		µg/kg wet	7.83	24.5		68	40-140		
4,4'-DDD (p,p') [2C]	18.1		µg/kg wet	7.83	24.5		74	40-140		
Endosulfan sulfate	19.2		µg/kg wet	7.83	24.5		78	40-140		
Endosulfan sulfate [2C]	19.2		µg/kg wet	7.83	24.5		79	40-140		
4,4'-DDT (p,p')	16.5		µg/kg wet	7.83	24.5		67	40-140		
4,4'-DDT (p,p') [2C]	17.5		µg/kg wet	7.83	24.5		71	40-140		
Methoxychlor	20.1		µg/kg wet	7.83	24.5		82	40-140		
Methoxychlor [2C]	20.4		µg/kg wet	7.83	24.5		83	40-140		
Endrin ketone	16.9		µg/kg wet	7.83	24.5		69	40-140		
Endrin ketone [2C]	17.1		µg/kg wet	7.83	24.5		70	40-140		
Endrin aldehyde	20.0		µg/kg wet	7.83	24.5		82	40-140		
Endrin aldehyde [2C]	23.0		µg/kg wet	7.83	24.5		94	40-140		
alpha-Chlordane	16.8		µg/kg wet	4.89	24.5		69	40-140		
alpha-Chlordane [2C]	17.9		µg/kg wet	4.89	24.5		73	40-140		
Chlordane (gamma)(trans)	16.1		µg/kg wet	4.89	24.5		66	40-140		
Chlordane (gamma)(trans) [2C]	17.6		µg/kg wet	4.89	24.5		72	40-140		
Alachlor	22.6		µg/kg wet	4.89	24.5		92	40-140		
Alachlor [2C]	20.9		µg/kg wet	4.89	24.5		85	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	7.85		µg/kg wet		9.79		80	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	7.81		µg/kg wet		9.79		80	30-150		
Surrogate: Decachlorobiphenyl (Sr)	8.85		µg/kg wet		9.79		90	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	9.33		µg/kg wet		9.79		95	30-150		
LCS Dup (1721116-BS1)					Prepared: 21-Dec-17 Analyzed: 04-Jan-18					

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Pesticides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8081B										
Batch 1721116 - SW846 3546										
<u>LCS Dup (1721116-BSD1)</u>					Prepared: 21-Dec-17 Analyzed: 04-Jan-18					
alpha-BHC	17.1		µg/kg wet	4.90	24.5		70	40-140	15	30
alpha-BHC [2C]	18.0		µg/kg wet	4.90	24.5		73	40-140	17	30
beta-BHC	19.6		µg/kg wet	4.90	24.5		80	40-140	15	30
beta-BHC [2C]	19.7		µg/kg wet	4.90	24.5		81	40-140	15	30
delta-BHC	17.7		µg/kg wet	4.90	24.5		72	40-140	15	30
delta-BHC [2C]	18.3		µg/kg wet	4.90	24.5		75	40-140	16	30
gamma-BHC (Lindane)	17.8		µg/kg wet	2.94	24.5		73	40-140	16	30
gamma-BHC (Lindane) [2C]	18.4		µg/kg wet	2.94	24.5		75	40-140	16	30
Heptachlor	18.9		µg/kg wet	4.90	24.5		77	40-140	16	30
Heptachlor [2C]	20.2		µg/kg wet	4.90	24.5		82	40-140	15	30
Aldrin	19.5		µg/kg wet	4.90	24.5		79	40-140	16	30
Aldrin [2C]	20.5		µg/kg wet	4.90	24.5		84	40-140	16	30
Heptachlor epoxide	19.3		µg/kg wet	4.90	24.5		79	40-140	16	30
Heptachlor epoxide [2C]	19.8		µg/kg wet	4.90	24.5		81	40-140	15	30
Endosulfan I	20.6		µg/kg wet	4.90	24.5		84	40-140	17	30
Endosulfan I [2C]	21.1		µg/kg wet	4.90	24.5		86	40-140	15	30
Dieldrin	19.8		µg/kg wet	4.90	24.5		81	40-140	18	30
Dieldrin [2C]	20.0		µg/kg wet	4.90	24.5		82	40-140	15	30
4,4'-DDE (p,p')	20.4		µg/kg wet	4.90	24.5		83	40-140	20	30
4,4'-DDE (p,p') [2C]	19.1		µg/kg wet	4.90	24.5		78	40-140	15	30
Endrin	22.0		µg/kg wet	7.84	24.5		90	40-140	18	30
Endrin [2C]	23.3		µg/kg wet	7.84	24.5		95	40-140	14	30
Endosulfan II	21.2		µg/kg wet	7.84	24.5		87	40-140	20	30
Endosulfan II [2C]	21.4		µg/kg wet	7.84	24.5		87	40-140	13	30
4,4'-DDD (p,p')	20.7		µg/kg wet	7.84	24.5		85	40-140	21	30
4,4'-DDD (p,p') [2C]	20.9		µg/kg wet	7.84	24.5		85	40-140	14	30
Endosulfan sulfate	23.8		µg/kg wet	7.84	24.5		97	40-140	22	30
Endosulfan sulfate [2C]	21.6		µg/kg wet	7.84	24.5		88	40-140	12	30
4,4'-DDT (p,p')	20.8		µg/kg wet	7.84	24.5		85	40-140	23	30
4,4'-DDT (p,p') [2C]	19.9		µg/kg wet	7.84	24.5		81	40-140	13	30
Methoxychlor	25.9		µg/kg wet	7.84	24.5		106	40-140	25	30
Methoxychlor [2C]	23.2		µg/kg wet	7.84	24.5		95	40-140	13	30
Endrin ketone	21.4		µg/kg wet	7.84	24.5		87	40-140	24	30
Endrin ketone [2C]	19.5		µg/kg wet	7.84	24.5		79	40-140	13	30
Endrin aldehyde	24.7		µg/kg wet	7.84	24.5		101	40-140	21	30
Endrin aldehyde [2C]	26.1		µg/kg wet	7.84	24.5		106	40-140	13	30
alpha-Chlordane	20.0		µg/kg wet	4.90	24.5		82	40-140	17	30
alpha-Chlordane [2C]	20.7		µg/kg wet	4.90	24.5		85	40-140	15	30
Chlordane (gamma)(trans)	19.1		µg/kg wet	4.90	24.5		78	40-140	17	30
Chlordane (gamma)(trans) [2C]	20.4		µg/kg wet	4.90	24.5		83	40-140	15	30
Alachlor	26.6		µg/kg wet	4.90	24.5		109	40-140	16	30
Alachlor [2C]	24.0		µg/kg wet	4.90	24.5		98	40-140	14	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	8.33		µg/kg wet		9.80		85	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	8.44		µg/kg wet		9.80		86	30-150		
Surrogate: Decachlorobiphenyl (Sr)	10.3		µg/kg wet		9.80		106	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	9.78		µg/kg wet		9.80		100	30-150		
<u>Duplicate (1721116-DUP1)</u>			R01	<u>Source: SC42525-11</u>		Prepared: 21-Dec-17 Analyzed: 04-Jan-18				
alpha-BHC	< 60.1	U, D	µg/kg dry	60.1		BRL				30
alpha-BHC [2C]	< 60.1	U, D	µg/kg dry	60.1		BRL				30

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Pesticides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8081B</u>										
Batch 1721116 - SW846 3546										
<u>Duplicate (1721116-DUP1)</u>		R01	<u>Source: SC42525-11</u>		<u>Prepared: 21-Dec-17 Analyzed: 04-Jan-18</u>					
beta-BHC	< 60.1	U, D	µg/kg dry	60.1		BRL				30
beta-BHC [2C]	< 60.1	U, D	µg/kg dry	60.1		BRL				30
delta-BHC	< 60.1	U, D	µg/kg dry	60.1		BRL				30
delta-BHC [2C]	< 60.1	U, D	µg/kg dry	60.1		BRL				30
gamma-BHC (Lindane)	< 36.1	U, D	µg/kg dry	36.1		BRL				30
gamma-BHC (Lindane) [2C]	< 36.1	U, D	µg/kg dry	36.1		BRL				30
Heptachlor	< 60.1	U, D	µg/kg dry	60.1		BRL				30
Heptachlor [2C]	< 60.1	U, D	µg/kg dry	60.1		BRL				30
Aldrin	< 60.1	U, D	µg/kg dry	60.1		BRL				30
Aldrin [2C]	< 60.1	U, D	µg/kg dry	60.1		BRL				30
Heptachlor epoxide	< 60.1	U, D	µg/kg dry	60.1		BRL				30
Heptachlor epoxide [2C]	< 60.1	U, D	µg/kg dry	60.1		BRL				30
Endosulfan I	< 60.1	U, D	µg/kg dry	60.1		BRL				30
Endosulfan I [2C]	< 60.1	U, D	µg/kg dry	60.1		BRL				30
Dieldrin	< 60.1	U, D	µg/kg dry	60.1		BRL				30
Dieldrin [2C]	< 60.1	U, D	µg/kg dry	60.1		BRL				30
4,4'-DDE (p,p')	< 60.1	U, D	µg/kg dry	60.1		BRL				30
4,4'-DDE (p,p') [2C]	< 60.1	U, D	µg/kg dry	60.1		BRL				30
Endrin	< 96.2	U, D	µg/kg dry	96.2		BRL				30
Endrin [2C]	< 96.2	U, D	µg/kg dry	96.2		BRL				30
Endosulfan II	< 96.2	U, D	µg/kg dry	96.2		BRL				30
Endosulfan II [2C]	< 96.2	U, D	µg/kg dry	96.2		BRL				30
4,4'-DDD (p,p')	< 96.2	U, D	µg/kg dry	96.2		BRL				30
4,4'-DDD (p,p') [2C]	< 96.2	U, D	µg/kg dry	96.2		BRL				30
Endosulfan sulfate	< 96.2	U, D	µg/kg dry	96.2		BRL				30
Endosulfan sulfate [2C]	< 96.2	U, D	µg/kg dry	96.2		BRL				30
4,4'-DDT (p,p')	< 96.2	U, D	µg/kg dry	96.2		BRL				30
4,4'-DDT (p,p') [2C]	< 96.2	U, D	µg/kg dry	96.2		BRL				30
Methoxychlor	< 96.2	U, D	µg/kg dry	96.2		BRL				30
Methoxychlor [2C]	< 96.2	U, D	µg/kg dry	96.2		BRL				30
Endrin ketone	< 96.2	U, D	µg/kg dry	96.2		BRL				30
Endrin ketone [2C]	< 96.2	U, D	µg/kg dry	96.2		BRL				30
Endrin aldehyde	< 96.2	U, D	µg/kg dry	96.2		BRL				30
Endrin aldehyde [2C]	< 96.2	U, D	µg/kg dry	96.2		BRL				30
alpha-Chlordane	< 60.1	U, D	µg/kg dry	60.1		BRL				30
alpha-Chlordane [2C]	< 60.1	U, D	µg/kg dry	60.1		BRL				30
Chlordane (gamma)(trans)	< 60.1	U, D	µg/kg dry	60.1		BRL				30
Chlordane (gamma)(trans) [2C]	< 60.1	U, D	µg/kg dry	60.1		BRL				30
Toxaphene	< 1200	U, D	µg/kg dry	1200		BRL				30
Toxaphene [2C]	< 1200	U, D	µg/kg dry	1200		BRL				30
Chlordane	< 240	U, D	µg/kg dry	240		BRL				30
Chlordane [2C]	< 240	U, D	µg/kg dry	240		BRL				30
Alachlor	< 60.1	U, D	µg/kg dry	60.1		BRL				30
Alachlor [2C]	< 60.1	U, D	µg/kg dry	60.1		BRL				30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	11.8		µg/kg dry		12.0		98	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	12.1		µg/kg dry		12.0		100	30-150		
Surrogate: Decachlorobiphenyl (Sr)	13.8		µg/kg dry		12.0		115	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	17.8		µg/kg dry		12.0		148	30-150		
<u>Matrix Spike (1721116-MS1)</u>		R01	<u>Source: SC42525-11</u>		<u>Prepared: 21-Dec-17 Analyzed: 04-Jan-18</u>					

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Pesticides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8081B										
Batch 1721116 - SW846 3546										
Matrix Spike (1721116-MS1)		R01	Source: SC42525-11		Prepared: 21-Dec-17 Analyzed: 04-Jan-18					
alpha-BHC	22.0	J, D	µg/kg dry	60.1	30.1	BRL	73	30-150		
alpha-BHC [2C]	24.0	J, D	µg/kg dry	60.1	30.1	BRL	80	30-150		
beta-BHC	< 60.1	Z-2, U, D	µg/kg dry	60.1	30.1	BRL	<1	30-150		
beta-BHC [2C]	< 60.1	Z-2a, U, D	µg/kg dry	60.1	30.1	BRL	<1	30-150		
delta-BHC	19.9	J, D	µg/kg dry	60.1	30.1	BRL	66	30-150		
delta-BHC [2C]	23.9	J, D	µg/kg dry	60.1	30.1	BRL	80	30-150		
gamma-BHC (Lindane)	28.2	J, D	µg/kg dry	36.1	30.1	BRL	94	30-150		
gamma-BHC (Lindane) [2C]	25.3	J, D	µg/kg dry	36.1	30.1	BRL	84	30-150		
Heptachlor	24.5	J, D	µg/kg dry	60.1	30.1	BRL	81	30-150		
Heptachlor [2C]	25.4	J, D	µg/kg dry	60.1	30.1	BRL	84	30-150		
Aldrin	22.6	J, D	µg/kg dry	60.1	30.1	BRL	75	30-150		
Aldrin [2C]	25.4	J, D	µg/kg dry	60.1	30.1	BRL	85	30-150		
Heptachlor epoxide	26.1	J, D	µg/kg dry	60.1	30.1	BRL	87	30-150		
Heptachlor epoxide [2C]	28.0	J, D	µg/kg dry	60.1	30.1	BRL	93	30-150		
Endosulfan I	27.8	J, D	µg/kg dry	60.1	30.1	BRL	92	30-150		
Endosulfan I [2C]	26.9	J, D	µg/kg dry	60.1	30.1	BRL	89	30-150		
Dieldrin	28.0	J, D	µg/kg dry	60.1	30.1	BRL	93	30-150		
Dieldrin [2C]	27.2	J, D	µg/kg dry	60.1	30.1	BRL	91	30-150		
4,4'-DDE (p,p')	22.5	J, D	µg/kg dry	60.1	30.1	BRL	75	30-150		
4,4'-DDE (p,p') [2C]	21.6	J, D	µg/kg dry	60.1	30.1	BRL	72	30-150		
Endrin	29.7	J, D	µg/kg dry	96.2	30.1	BRL	99	30-150		
Endrin [2C]	33.6	J, D	µg/kg dry	96.2	30.1	BRL	112	30-150		
Endosulfan II	31.4	J, D	µg/kg dry	96.2	30.1	BRL	104	30-150		
Endosulfan II [2C]	26.8	J, D	µg/kg dry	96.2	30.1	BRL	89	30-150		
4,4'-DDD (p,p')	25.9	J, D	µg/kg dry	96.2	30.1	BRL	86	30-150		
4,4'-DDD (p,p') [2C]	25.7	J, D	µg/kg dry	96.2	30.1	BRL	86	30-150		
Endosulfan sulfate	32.6	J, D	µg/kg dry	96.2	30.1	BRL	109	30-150		
Endosulfan sulfate [2C]	25.5	J, D	µg/kg dry	96.2	30.1	BRL	85	30-150		
4,4'-DDT (p,p')	30.9	J, D	µg/kg dry	96.2	30.1	BRL	103	30-150		
4,4'-DDT (p,p') [2C]	32.3	J, D	µg/kg dry	96.2	30.1	BRL	107	30-150		
Methoxychlor	49.3	QM7, J, D	µg/kg dry	96.2	30.1	BRL	164	30-150		
Methoxychlor [2C]	28.2	J, D	µg/kg dry	96.2	30.1	BRL	94	30-150		
Endrin ketone	27.9	J, D	µg/kg dry	96.2	30.1	BRL	93	30-150		
Endrin ketone [2C]	30.7	J, D	µg/kg dry	96.2	30.1	BRL	102	30-150		
Endrin aldehyde	22.5	J, D	µg/kg dry	96.2	30.1	BRL	75	30-150		
Endrin aldehyde [2C]	< 96.2	Z-2, U, D	µg/kg dry	96.2	30.1	BRL	<1	30-150		
alpha-Chlordane	26.2	J, D	µg/kg dry	60.1	30.1	BRL	87	30-150		
alpha-Chlordane [2C]	27.1	J, D	µg/kg dry	60.1	30.1	BRL	90	30-150		
Chlordane (gamma)(trans)	111	QM1, D	µg/kg dry	60.1	30.1	BRL	368	30-150		
Chlordane (gamma)(trans) [2C]	25.6	J, D	µg/kg dry	60.1	30.1	BRL	85	30-150		
Alachlor	< 60.1	Z-2, U, D	µg/kg dry	60.1	30.1	BRL	<1	30-150		
Alachlor [2C]	< 60.1	Z-2, U, D	µg/kg dry	60.1	30.1	BRL	<1	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	10.5		µg/kg dry		12.0		88	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	11.1		µg/kg dry		12.0		92	30-150		
Surrogate: Decachlorobiphenyl (Sr)	12.8		µg/kg dry		12.0		106	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	16.6		µg/kg dry		12.0		138	30-150		

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Pesticides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8081B										
Batch 1721116 - SW846 3546										
Matrix Spike Dup (1721116-MSD1)		R01	Source: SC42525-11		Prepared: 21-Dec-17 Analyzed: 04-Jan-18					
alpha-BHC	18.9	J, D	µg/kg dry	60.1	30.1	BRL	63	30-150	15	30
alpha-BHC [2C]	21.2	J, D	µg/kg dry	60.1	30.1	BRL	71	30-150	13	30
beta-BHC	< 60.1	Z-2, U, D	µg/kg dry	60.1	30.1	BRL	<1	30-150		30
beta-BHC [2C]	< 60.1	Z-2, U, D	µg/kg dry	60.1	30.1	BRL	<1	30-150		30
delta-BHC	< 60.1	Z-2, U, D	µg/kg dry	60.1	30.1	BRL	<1	30-150		30
delta-BHC [2C]	< 60.1	Z-2, U, D	µg/kg dry	60.1	30.1	BRL	<1	30-150		30
gamma-BHC (Lindane)	23.6	J, D	µg/kg dry	36.1	30.1	BRL	79	30-150	18	30
gamma-BHC (Lindane) [2C]	21.6	J, D	µg/kg dry	36.1	30.1	BRL	72	30-150	16	30
Heptachlor	20.6	J, D	µg/kg dry	60.1	30.1	BRL	69	30-150	17	30
Heptachlor [2C]	21.6	J, D	µg/kg dry	60.1	30.1	BRL	72	30-150	16	30
Aldrin	19.0	J, D	µg/kg dry	60.1	30.1	BRL	63	30-150	18	30
Aldrin [2C]	< 60.1	Z-2, U, D	µg/kg dry	60.1	30.1	BRL	<1	30-150		30
Heptachlor epoxide	21.8	J, D	µg/kg dry	60.1	30.1	BRL	72	30-150	18	30
Heptachlor epoxide [2C]	< 60.1	Z-2, U, D	µg/kg dry	60.1	30.1	BRL	<1	30-150		30
Endosulfan I	23.4	J, D	µg/kg dry	60.1	30.1	BRL	78	30-150	17	30
Endosulfan I [2C]	< 60.1	Z-2, U, D	µg/kg dry	60.1	30.1	BRL	<1	30-150		30
Dieldrin	23.2	J, D	µg/kg dry	60.1	30.1	BRL	77	30-150	18	30
Dieldrin [2C]	22.6	J, D	µg/kg dry	60.1	30.1	BRL	75	30-150	19	30
4,4'-DDE (p,p')	< 60.1	Z-2, U, D	µg/kg dry	60.1	30.1	BRL	<1	30-150		30
4,4'-DDE (p,p') [2C]	< 60.1	Z-2, U, D	µg/kg dry	60.1	30.1	BRL	<1	30-150		30
Endrin	24.3	J, D	µg/kg dry	96.2	30.1	BRL	81	30-150	20	30
Endrin [2C]	28.9	J, D	µg/kg dry	96.2	30.1	BRL	96	30-150	15	30
Endosulfan II	24.8	J, D	µg/kg dry	96.2	30.1	BRL	83	30-150	23	30
Endosulfan II [2C]	< 96.2	Z-2, U, D	µg/kg dry	96.2	30.1	BRL	<1	30-150		30
4,4'-DDD (p,p')	23.3	J, D	µg/kg dry	96.2	30.1	BRL	77	30-150	11	30
4,4'-DDD (p,p') [2C]	< 96.2	Z-2, U, D	µg/kg dry	96.2	30.1	BRL	<1	30-150		30
Endosulfan sulfate	28.4	J, D	µg/kg dry	96.2	30.1	BRL	95	30-150	14	30
Endosulfan sulfate [2C]	< 96.2	Z-2, U, D	µg/kg dry	96.2	30.1	BRL	<1	30-150		30
4,4'-DDT (p,p')	24.9	J, D	µg/kg dry	96.2	30.1	BRL	83	30-150	21	30
4,4'-DDT (p,p') [2C]	26.3	J, D	µg/kg dry	96.2	30.1	BRL	87	30-150	20	30
Methoxychlor	37.4	J, D	µg/kg dry	96.2	30.1	BRL	124	30-150	27	30
Methoxychlor [2C]	25.2	J, D	µg/kg dry	96.2	30.1	BRL	84	30-150	12	30
Endrin ketone	24.5	J, D	µg/kg dry	96.2	30.1	BRL	82	30-150	13	30
Endrin ketone [2C]	25.8	J, D	µg/kg dry	96.2	30.1	BRL	86	30-150	18	30
Endrin aldehyde	22.0	J, D	µg/kg dry	96.2	30.1	BRL	73	30-150	2	30
Endrin aldehyde [2C]	< 96.2	U, D	µg/kg dry	96.2	30.1	BRL	<1	30-150		30
alpha-Chlordane	21.9	J, D	µg/kg dry	60.1	30.1	BRL	73	30-150	18	30
alpha-Chlordane [2C]	22.5	J, D	µg/kg dry	60.1	30.1	BRL	75	30-150	19	30
Chlordane (gamma)(trans)	97.5	QM1, D	µg/kg dry	60.1	30.1	BRL	324	30-150	13	30
Chlordane (gamma)(trans) [2C]	< 60.1	Z-2, U, D	µg/kg dry	60.1	30.1	BRL	<1	30-150		30
Alachlor	< 60.1	Z-2, U, D	µg/kg dry	60.1	30.1	BRL	<1	30-150		30
Alachlor [2C]	< 60.1	Z-2, U, D	µg/kg dry	60.1	30.1	BRL	<1	30-150		30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	9.84		µg/kg dry		12.0		82	30-150		

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Pesticides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8081B										
Batch 1721116 - SW846 3546										
Matrix Spike Dup (1721116-MSD1)		R01	Source: SC42525-11		Prepared: 21-Dec-17 Analyzed: 04-Jan-18					
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	10.2		µg/kg dry		12.0		85	30-150		
Surrogate: Decachlorobiphenyl (Sr)	11.7		µg/kg dry		12.0		97	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	12.9		µg/kg dry		12.0		107	30-150		
Batch 1721358 - SW846 3546										
Blank (1721358-BLK1)					Prepared: 28-Dec-17 Analyzed: 05-Jan-18					
alpha-BHC	< 4.96	U	µg/kg wet	4.96						
alpha-BHC [2C]	< 4.96	U	µg/kg wet	4.96						
beta-BHC	< 4.96	U	µg/kg wet	4.96						
beta-BHC [2C]	< 4.96	U	µg/kg wet	4.96						
delta-BHC	< 4.96	U	µg/kg wet	4.96						
delta-BHC [2C]	< 4.96	U	µg/kg wet	4.96						
gamma-BHC (Lindane)	< 2.98	U	µg/kg wet	2.98						
gamma-BHC (Lindane) [2C]	< 2.98	U	µg/kg wet	2.98						
Heptachlor	< 4.96	U	µg/kg wet	4.96						
Heptachlor [2C]	< 4.96	U	µg/kg wet	4.96						
Aldrin	< 4.96	U	µg/kg wet	4.96						
Aldrin [2C]	< 4.96	U	µg/kg wet	4.96						
Heptachlor epoxide	< 4.96	U	µg/kg wet	4.96						
Heptachlor epoxide [2C]	< 4.96	U	µg/kg wet	4.96						
Endosulfan I	< 4.96	U	µg/kg wet	4.96						
Endosulfan I [2C]	< 4.96	U	µg/kg wet	4.96						
Dieldrin	< 4.96	U	µg/kg wet	4.96						
Dieldrin [2C]	< 4.96	U	µg/kg wet	4.96						
4,4'-DDE (p,p')	< 4.96	U	µg/kg wet	4.96						
4,4'-DDE (p,p') [2C]	< 4.96	U	µg/kg wet	4.96						
Endrin	< 7.94	U	µg/kg wet	7.94						
Endrin [2C]	< 7.94	U	µg/kg wet	7.94						
Endosulfan II	< 7.94	U	µg/kg wet	7.94						
Endosulfan II [2C]	< 7.94	U	µg/kg wet	7.94						
4,4'-DDD (p,p')	< 7.94	U	µg/kg wet	7.94						
4,4'-DDD (p,p') [2C]	< 7.94	U	µg/kg wet	7.94						
Endosulfan sulfate	< 7.94	U	µg/kg wet	7.94						
Endosulfan sulfate [2C]	< 7.94	U	µg/kg wet	7.94						
4,4'-DDT (p,p')	< 7.94	U	µg/kg wet	7.94						
4,4'-DDT (p,p') [2C]	< 7.94	U	µg/kg wet	7.94						
Methoxychlor	< 7.94	U	µg/kg wet	7.94						
Methoxychlor [2C]	< 7.94	U	µg/kg wet	7.94						
Endrin ketone	< 7.94	U	µg/kg wet	7.94						
Endrin ketone [2C]	< 7.94	U	µg/kg wet	7.94						
Endrin aldehyde	< 7.94	U	µg/kg wet	7.94						
Endrin aldehyde [2C]	< 7.94	U	µg/kg wet	7.94						
alpha-Chlordane	< 4.96	U	µg/kg wet	4.96						
alpha-Chlordane [2C]	< 4.96	U	µg/kg wet	4.96						
Chlordane (gamma)(trans)	< 4.96	U	µg/kg wet	4.96						
Chlordane (gamma)(trans) [2C]	< 4.96	U	µg/kg wet	4.96						
Toxaphene	< 99.3	U	µg/kg wet	99.3						
Toxaphene [2C]	< 99.3	U	µg/kg wet	99.3						
Chlordane	< 19.9	U	µg/kg wet	19.9						
Chlordane [2C]	< 19.9	U	µg/kg wet	19.9						

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Pesticides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8081B										
Batch 1721358 - SW846 3546										
Blank (1721358-BLK1)					<u>Prepared: 28-Dec-17 Analyzed: 05-Jan-18</u>					
Alachlor	< 4.96	U	µg/kg wet	4.96						
Alachlor [2C]	< 4.96	U	µg/kg wet	4.96						
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	7.74		µg/kg wet		9.93		78	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	7.82		µg/kg wet		9.93		79	30-150		
Surrogate: Decachlorobiphenyl (Sr)	7.20		µg/kg wet		9.93		72	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	8.14		µg/kg wet		9.93		82	30-150		
LCS (1721358-BS1)					<u>Prepared: 28-Dec-17 Analyzed: 05-Jan-18</u>					
alpha-BHC	19.5		µg/kg wet	4.97	24.9		78	40-140		
alpha-BHC [2C]	19.4		µg/kg wet	4.97	24.9		78	40-140		
beta-BHC	22.2		µg/kg wet	4.97	24.9		89	40-140		
beta-BHC [2C]	21.0		µg/kg wet	4.97	24.9		84	40-140		
delta-BHC	20.8		µg/kg wet	4.97	24.9		84	40-140		
delta-BHC [2C]	19.7		µg/kg wet	4.97	24.9		79	40-140		
gamma-BHC (Lindane)	20.2		µg/kg wet	2.98	24.9		81	40-140		
gamma-BHC (Lindane) [2C]	19.7		µg/kg wet	2.98	24.9		79	40-140		
Heptachlor	20.3		µg/kg wet	4.97	24.9		82	40-140		
Heptachlor [2C]	20.6		µg/kg wet	4.97	24.9		83	40-140		
Aldrin	21.8		µg/kg wet	4.97	24.9		88	40-140		
Aldrin [2C]	21.6		µg/kg wet	4.97	24.9		87	40-140		
Heptachlor epoxide	21.4		µg/kg wet	4.97	24.9		86	40-140		
Heptachlor epoxide [2C]	20.6		µg/kg wet	4.97	24.9		83	40-140		
Endosulfan I	22.8		µg/kg wet	4.97	24.9		92	40-140		
Endosulfan I [2C]	22.0		µg/kg wet	4.97	24.9		89	40-140		
Dieldrin	22.0		µg/kg wet	4.97	24.9		88	40-140		
Dieldrin [2C]	21.0		µg/kg wet	4.97	24.9		85	40-140		
4,4'-DDE (p,p')	22.7		µg/kg wet	4.97	24.9		91	40-140		
4,4'-DDE (p,p') [2C]	20.0		µg/kg wet	4.97	24.9		80	40-140		
Endrin	24.3		µg/kg wet	7.96	24.9		98	40-140		
Endrin [2C]	23.8		µg/kg wet	7.96	24.9		96	40-140		
Endosulfan II	23.1		µg/kg wet	7.96	24.9		93	40-140		
Endosulfan II [2C]	22.3		µg/kg wet	7.96	24.9		90	40-140		
4,4'-DDD (p,p')	23.7		µg/kg wet	7.96	24.9		95	40-140		
4,4'-DDD (p,p') [2C]	22.8		µg/kg wet	7.96	24.9		92	40-140		
Endosulfan sulfate	25.2		µg/kg wet	7.96	24.9		101	40-140		
Endosulfan sulfate [2C]	22.1		µg/kg wet	7.96	24.9		89	40-140		
4,4'-DDT (p,p')	19.4		µg/kg wet	7.96	24.9		78	40-140		
4,4'-DDT (p,p') [2C]	18.0		µg/kg wet	7.96	24.9		73	40-140		
Methoxychlor	24.2		µg/kg wet	7.96	24.9		97	40-140		
Methoxychlor [2C]	20.3		µg/kg wet	7.96	24.9		82	40-140		
Endrin ketone	22.6		µg/kg wet	7.96	24.9		91	40-140		
Endrin ketone [2C]	19.6		µg/kg wet	7.96	24.9		79	40-140		
Endrin aldehyde	26.3		µg/kg wet	7.96	24.9		106	40-140		
Endrin aldehyde [2C]	26.4		µg/kg wet	7.96	24.9		106	40-140		
alpha-Chlordane	22.2		µg/kg wet	4.97	24.9		89	40-140		
alpha-Chlordane [2C]	21.7		µg/kg wet	4.97	24.9		87	40-140		
Chlordane (gamma)(trans)	20.9		µg/kg wet	4.97	24.9		84	40-140		
Chlordane (gamma)(trans) [2C]	21.1		µg/kg wet	4.97	24.9		85	40-140		
Alachlor	27.9		µg/kg wet	4.97	24.9		112	40-140		
Alachlor [2C]	25.4		µg/kg wet	4.97	24.9		102	40-140		

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Pesticides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8081B										
Batch 1721358 - SW846 3546										
LCS (1721358-BS1)					Prepared: 28-Dec-17 Analyzed: 05-Jan-18					
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	8.26		µg/kg wet		9.95		83	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	8.35		µg/kg wet		9.95		84	30-150		
Surrogate: Decachlorobiphenyl (Sr)	9.33		µg/kg wet		9.95		94	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	8.80		µg/kg wet		9.95		88	30-150		
LCS Dup (1721358-BSD1)					Prepared: 28-Dec-17 Analyzed: 05-Jan-18					
alpha-BHC	19.4		µg/kg wet	4.96	24.8		78	40-140	0.2	30
alpha-BHC [2C]	19.8		µg/kg wet	4.96	24.8		80	40-140	3	30
beta-BHC	22.0		µg/kg wet	4.96	24.8		89	40-140	0.7	30
beta-BHC [2C]	21.9		µg/kg wet	4.96	24.8		88	40-140	4	30
delta-BHC	20.8		µg/kg wet	4.96	24.8		84	40-140	0.3	30
delta-BHC [2C]	20.8		µg/kg wet	4.96	24.8		84	40-140	5	30
gamma-BHC (Lindane)	20.3		µg/kg wet	2.98	24.8		82	40-140	0.4	30
gamma-BHC (Lindane) [2C]	20.4		µg/kg wet	2.98	24.8		82	40-140	4	30
Heptachlor	21.1		µg/kg wet	4.96	24.8		85	40-140	4	30
Heptachlor [2C]	22.3		µg/kg wet	4.96	24.8		90	40-140	8	30
Aldrin	21.6		µg/kg wet	4.96	24.8		87	40-140	1	30
Aldrin [2C]	22.8		µg/kg wet	4.96	24.8		92	40-140	6	30
Heptachlor epoxide	21.5		µg/kg wet	4.96	24.8		87	40-140	0.5	30
Heptachlor epoxide [2C]	24.0		µg/kg wet	4.96	24.8		97	40-140	15	30
Endosulfan I	22.8		µg/kg wet	4.96	24.8		92	40-140	0.06	30
Endosulfan I [2C]	23.8		µg/kg wet	4.96	24.8		96	40-140	8	30
Dieldrin	22.1		µg/kg wet	4.96	24.8		89	40-140	0.3	30
Dieldrin [2C]	22.6		µg/kg wet	4.96	24.8		91	40-140	7	30
4,4'-DDE (p,p')	22.8		µg/kg wet	4.96	24.8		92	40-140	0.5	30
4,4'-DDE (p,p') [2C]	21.9		µg/kg wet	4.96	24.8		88	40-140	9	30
Endrin	24.1		µg/kg wet	7.94	24.8		97	40-140	1	30
Endrin [2C]	26.0		µg/kg wet	7.94	24.8		105	40-140	9	30
Endosulfan II	23.8		µg/kg wet	7.94	24.8		96	40-140	3	30
Endosulfan II [2C]	24.1		µg/kg wet	7.94	24.8		97	40-140	8	30
4,4'-DDD (p,p')	23.4		µg/kg wet	7.94	24.8		94	40-140	1	30
4,4'-DDD (p,p') [2C]	24.4		µg/kg wet	7.94	24.8		98	40-140	7	30
Endosulfan sulfate	25.4		µg/kg wet	7.94	24.8		102	40-140	0.6	30
Endosulfan sulfate [2C]	24.2		µg/kg wet	7.94	24.8		98	40-140	9	30
4,4'-DDT (p,p')	21.4		µg/kg wet	7.94	24.8		86	40-140	10	30
4,4'-DDT (p,p') [2C]	21.6		µg/kg wet	7.94	24.8		87	40-140	18	30
Methoxychlor	25.7		µg/kg wet	7.94	24.8		104	40-140	6	30
Methoxychlor [2C]	24.8		µg/kg wet	7.94	24.8		100	40-140	20	30
Endrin ketone	22.7		µg/kg wet	7.94	24.8		92	40-140	0.5	30
Endrin ketone [2C]	21.9		µg/kg wet	7.94	24.8		88	40-140	11	30
Endrin aldehyde	26.2		µg/kg wet	7.94	24.8		106	40-140	0.2	30
Endrin aldehyde [2C]	28.5		µg/kg wet	7.94	24.8		115	40-140	8	30
alpha-Chlordane	22.0		µg/kg wet	4.96	24.8		89	40-140	0.8	30
alpha-Chlordane [2C]	23.8		µg/kg wet	4.96	24.8		96	40-140	9	30
Chlordane (gamma)(trans)	20.9		µg/kg wet	4.96	24.8		84	40-140	0.1	30
Alachlor	27.8		µg/kg wet	4.96	24.8		112	40-140	0.4	30
Alachlor [2C]	26.3		µg/kg wet	4.96	24.8		106	40-140	4	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	8.28		µg/kg wet		9.92		83	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	8.58		µg/kg wet		9.92		86	30-150		

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Pesticides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 8081B</u>										
Batch 1721358 - SW846 3546										
<u>LCS Dup (1721358-BSD1)</u>					<u>Prepared: 28-Dec-17 Analyzed: 05-Jan-18</u>					
Surrogate: Decachlorobiphenyl (Sr)	9.27		µg/kg wet		9.92		93	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	10.2		µg/kg wet		9.92		103	30-150		
Batch 1800219 - SW846 3546										
<u>Blank (1800219-BLK1)</u>					<u>Prepared: 06-Jan-18 Analyzed: 09-Jan-18</u>					
alpha-BHC	< 4.98	U	µg/kg wet	4.98						
alpha-BHC [2C]	< 4.98	U	µg/kg wet	4.98						
beta-BHC	< 4.98	U	µg/kg wet	4.98						
beta-BHC [2C]	< 4.98	U	µg/kg wet	4.98						
delta-BHC	< 4.98	U	µg/kg wet	4.98						
delta-BHC [2C]	< 4.98	U	µg/kg wet	4.98						
gamma-BHC (Lindane)	< 2.99	U	µg/kg wet	2.99						
gamma-BHC (Lindane) [2C]	< 2.99	U	µg/kg wet	2.99						
Heptachlor	< 4.98	U	µg/kg wet	4.98						
Heptachlor [2C]	< 4.98	U	µg/kg wet	4.98						
Aldrin	< 4.98	U	µg/kg wet	4.98						
Aldrin [2C]	< 4.98	U	µg/kg wet	4.98						
Heptachlor epoxide	< 4.98	U	µg/kg wet	4.98						
Heptachlor epoxide [2C]	< 4.98	U	µg/kg wet	4.98						
Endosulfan I	< 4.98	U	µg/kg wet	4.98						
Endosulfan I [2C]	< 4.98	U	µg/kg wet	4.98						
Dieldrin	< 4.98	U	µg/kg wet	4.98						
Dieldrin [2C]	< 4.98	U	µg/kg wet	4.98						
4,4'-DDE (p,p')	< 4.98	U	µg/kg wet	4.98						
4,4'-DDE (p,p') [2C]	< 4.98	U	µg/kg wet	4.98						
Endrin	< 7.97	U	µg/kg wet	7.97						
Endrin [2C]	< 7.97	U	µg/kg wet	7.97						
Endosulfan II	< 7.97	U	µg/kg wet	7.97						
Endosulfan II [2C]	< 7.97	U	µg/kg wet	7.97						
4,4'-DDD (p,p')	< 7.97	U	µg/kg wet	7.97						
4,4'-DDD (p,p') [2C]	< 7.97	U	µg/kg wet	7.97						
Endosulfan sulfate	< 7.97	U	µg/kg wet	7.97						
Endosulfan sulfate [2C]	< 7.97	U	µg/kg wet	7.97						
4,4'-DDT (p,p')	< 7.97	U	µg/kg wet	7.97						
4,4'-DDT (p,p') [2C]	< 7.97	U	µg/kg wet	7.97						
Methoxychlor	< 7.97	U	µg/kg wet	7.97						
Methoxychlor [2C]	< 7.97	U	µg/kg wet	7.97						
Endrin ketone	< 7.97	U	µg/kg wet	7.97						
Endrin ketone [2C]	< 7.97	U	µg/kg wet	7.97						
Endrin aldehyde	< 7.97	U	µg/kg wet	7.97						
Endrin aldehyde [2C]	< 7.97	U	µg/kg wet	7.97						
alpha-Chlordane	< 4.98	U	µg/kg wet	4.98						
alpha-Chlordane [2C]	< 4.98	U	µg/kg wet	4.98						
Chlordane (gamma)(trans)	< 4.98	U	µg/kg wet	4.98						
Chlordane (gamma)(trans) [2C]	< 4.98	U	µg/kg wet	4.98						
Toxaphene	< 99.7	U	µg/kg wet	99.7						
Toxaphene [2C]	< 99.7	U	µg/kg wet	99.7						
Chlordane	< 19.9	U	µg/kg wet	19.9						
Chlordane [2C]	< 19.9	U	µg/kg wet	19.9						
Alachlor	< 4.98	U	µg/kg wet	4.98						
Alachlor [2C]	< 4.98	U	µg/kg wet	4.98						

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Pesticides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8081B										
Batch 1800219 - SW846 3546										
Blank (1800219-BLK1)					Prepared: 06-Jan-18 Analyzed: 09-Jan-18					
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	8.29		µg/kg wet		9.97		83	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	7.84		µg/kg wet		9.97		79	30-150		
Surrogate: Decachlorobiphenyl (Sr)	9.28		µg/kg wet		9.97		93	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	8.38		µg/kg wet		9.97		84	30-150		
LCS (1800219-BS1)					Prepared: 06-Jan-18 Analyzed: 09-Jan-18					
alpha-BHC	13.3		µg/kg wet	4.98	24.9		53	40-140		
alpha-BHC [2C]	13.4		µg/kg wet	4.98	24.9		54	40-140		
beta-BHC	15.8		µg/kg wet	4.98	24.9		64	40-140		
beta-BHC [2C]	14.7		µg/kg wet	4.98	24.9		59	40-140		
delta-BHC	14.0		µg/kg wet	4.98	24.9		56	40-140		
delta-BHC [2C]	13.1		µg/kg wet	4.98	24.9		53	40-140		
gamma-BHC (Lindane)	13.8		µg/kg wet	2.99	24.9		56	40-140		
gamma-BHC (Lindane) [2C]	13.4		µg/kg wet	2.99	24.9		54	40-140		
Heptachlor	12.8		µg/kg wet	4.98	24.9		51	40-140		
Heptachlor [2C]	13.5		µg/kg wet	4.98	24.9		54	40-140		
Aldrin	15.1		µg/kg wet	4.98	24.9		61	40-140		
Aldrin [2C]	14.1		µg/kg wet	4.98	24.9		57	40-140		
Heptachlor epoxide	15.5		µg/kg wet	4.98	24.9		62	40-140		
Heptachlor epoxide [2C]	13.9		µg/kg wet	4.98	24.9		56	40-140		
Endosulfan I	16.4		µg/kg wet	4.98	24.9		66	40-140		
Endosulfan I [2C]	14.8		µg/kg wet	4.98	24.9		60	40-140		
Dieldrin	15.5		µg/kg wet	4.98	24.9		62	40-140		
Dieldrin [2C]	13.9		µg/kg wet	4.98	24.9		56	40-140		
4,4'-DDE (p,p')	15.6		µg/kg wet	4.98	24.9		63	40-140		
4,4'-DDE (p,p') [2C]	13.5		µg/kg wet	4.98	24.9		54	40-140		
Endrin	16.5		µg/kg wet	7.96	24.9		66	40-140		
Endrin [2C]	16.6		µg/kg wet	7.96	24.9		67	40-140		
Endosulfan II	16.6		µg/kg wet	7.96	24.9		67	40-140		
Endosulfan II [2C]	14.9		µg/kg wet	7.96	24.9		60	40-140		
4,4'-DDD (p,p')	15.8		µg/kg wet	7.96	24.9		64	40-140		
4,4'-DDD (p,p') [2C]	14.0		µg/kg wet	7.96	24.9		56	40-140		
Endosulfan sulfate	18.4		µg/kg wet	7.96	24.9		74	40-140		
Endosulfan sulfate [2C]	15.5		µg/kg wet	7.96	24.9		62	40-140		
4,4'-DDT (p,p')	13.3		µg/kg wet	7.96	24.9		53	40-140		
4,4'-DDT (p,p') [2C]	12.8		µg/kg wet	7.96	24.9		51	40-140		
Methoxychlor	16.4		µg/kg wet	7.96	24.9		66	40-140		
Methoxychlor [2C]	14.9		µg/kg wet	7.96	24.9		60	40-140		
Endrin ketone	15.8		µg/kg wet	7.96	24.9		64	40-140		
Endrin ketone [2C]	13.4		µg/kg wet	7.96	24.9		54	40-140		
Endrin aldehyde	18.3		µg/kg wet	7.96	24.9		74	40-140		
Endrin aldehyde [2C]	18.5		µg/kg wet	7.96	24.9		74	40-140		
alpha-Chlordane	15.8		µg/kg wet	4.98	24.9		63	40-140		
alpha-Chlordane [2C]	14.4		µg/kg wet	4.98	24.9		58	40-140		
Chlordane (gamma)(trans)	15.1		µg/kg wet	4.98	24.9		61	40-140		
Chlordane (gamma)(trans) [2C]	14.2		µg/kg wet	4.98	24.9		57	40-140		
Alachlor	21.3		µg/kg wet	4.98	24.9		86	40-140		
Alachlor [2C]	17.3		µg/kg wet	4.98	24.9		70	40-140		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	8.51		µg/kg wet		9.95		85	30-150		

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Pesticides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8081B										
Batch 1800219 - SW846 3546										
LCS (1800219-BS1)					Prepared: 06-Jan-18 Analyzed: 09-Jan-18					
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	8.13		µg/kg wet		9.95		82	30-150		
Surrogate: Decachlorobiphenyl (Sr)	9.99		µg/kg wet		9.95		100	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	9.02		µg/kg wet		9.95		91	30-150		
LCS Dup (1800219-BSD1)					Prepared: 06-Jan-18 Analyzed: 09-Jan-18					
alpha-BHC	15.0		µg/kg wet	4.99	25.0		60	40-140	12	30
alpha-BHC [2C]	15.1		µg/kg wet	4.99	25.0		60	40-140	12	30
beta-BHC	17.8		µg/kg wet	4.99	25.0		71	40-140	12	30
beta-BHC [2C]	16.6		µg/kg wet	4.99	25.0		66	40-140	12	30
delta-BHC	15.9		µg/kg wet	4.99	25.0		64	40-140	13	30
delta-BHC [2C]	14.8		µg/kg wet	4.99	25.0		59	40-140	12	30
gamma-BHC (Lindane)	15.6		µg/kg wet	2.99	25.0		63	40-140	12	30
gamma-BHC (Lindane) [2C]	15.0		µg/kg wet	2.99	25.0		60	40-140	11	30
Heptachlor	14.5		µg/kg wet	4.99	25.0		58	40-140	13	30
Heptachlor [2C]	15.3		µg/kg wet	4.99	25.0		61	40-140	12	30
Aldrin	17.4		µg/kg wet	4.99	25.0		70	40-140	14	30
Aldrin [2C]	15.9		µg/kg wet	4.99	25.0		64	40-140	12	30
Heptachlor epoxide	17.7		µg/kg wet	4.99	25.0		71	40-140	13	30
Heptachlor epoxide [2C]	15.6		µg/kg wet	4.99	25.0		62	40-140	12	30
Endosulfan I	18.8		µg/kg wet	4.99	25.0		75	40-140	14	30
Endosulfan I [2C]	16.6		µg/kg wet	4.99	25.0		67	40-140	12	30
Dieldrin	17.8		µg/kg wet	4.99	25.0		71	40-140	14	30
Dieldrin [2C]	15.6		µg/kg wet	4.99	25.0		62	40-140	11	30
4,4'-DDE (p,p')	18.1		µg/kg wet	4.99	25.0		72	40-140	15	30
4,4'-DDE (p,p') [2C]	15.1		µg/kg wet	4.99	25.0		61	40-140	11	30
Endrin	19.2		µg/kg wet	7.98	25.0		77	40-140	15	30
Endrin [2C]	19.2		µg/kg wet	7.98	25.0		77	40-140	15	30
Endosulfan II	19.3		µg/kg wet	7.98	25.0		77	40-140	15	30
Endosulfan II [2C]	15.9		µg/kg wet	7.98	25.0		64	40-140	6	30
4,4'-DDD (p,p')	18.4		µg/kg wet	7.98	25.0		74	40-140	15	30
4,4'-DDD (p,p') [2C]	16.6		µg/kg wet	7.98	25.0		67	40-140	17	30
Endosulfan sulfate	21.4		µg/kg wet	7.98	25.0		86	40-140	15	30
Endosulfan sulfate [2C]	17.2		µg/kg wet	7.98	25.0		69	40-140	10	30
4,4'-DDT (p,p')	15.8		µg/kg wet	7.98	25.0		63	40-140	17	30
4,4'-DDT (p,p') [2C]	13.7		µg/kg wet	7.98	25.0		55	40-140	7	30
Methoxychlor	19.3		µg/kg wet	7.98	25.0		77	40-140	16	30
Methoxychlor [2C]	17.1		µg/kg wet	7.98	25.0		69	40-140	14	30
Endrin ketone	18.6		µg/kg wet	7.98	25.0		74	40-140	16	30
Endrin ketone [2C]	15.1		µg/kg wet	7.98	25.0		60	40-140	12	30
Endrin aldehyde	21.6		µg/kg wet	7.98	25.0		86	40-140	16	30
Endrin aldehyde [2C]	20.2		µg/kg wet	7.98	25.0		81	40-140	9	30
alpha-Chlordane	18.2		µg/kg wet	4.99	25.0		73	40-140	14	30
alpha-Chlordane [2C]	16.1		µg/kg wet	4.99	25.0		65	40-140	11	30
Chlordane (gamma)(trans)	17.3		µg/kg wet	4.99	25.0		69	40-140	14	30
Chlordane (gamma)(trans) [2C]	15.8		µg/kg wet	4.99	25.0		63	40-140	11	30
Alachlor	24.2		µg/kg wet	4.99	25.0		97	40-140	13	30
Alachlor [2C]	19.8		µg/kg wet	4.99	25.0		79	40-140	13	30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	9.07		µg/kg wet		9.98		91	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	8.66		µg/kg wet		9.98		87	30-150		

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Pesticides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8081B										
Batch 1800219 - SW846 3546										
LCS Dup (1800219-BSD1)					Prepared: 06-Jan-18 Analyzed: 09-Jan-18					
Surrogate: Decachlorobiphenyl (Sr)	11.0		µg/kg wet		9.98		110	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	9.81		µg/kg wet		9.98		98	30-150		
Duplicate (1800219-DUP1)		HT5, R01	Source: SC42525-23RE1		Prepared: 06-Jan-18 Analyzed: 10-Jan-18					
alpha-BHC	< 56.4	U, D	µg/kg dry	56.4		BRL				30
alpha-BHC [2C]	< 56.4	U, D	µg/kg dry	56.4		BRL				30
beta-BHC	< 56.4	U, D	µg/kg dry	56.4		BRL				30
beta-BHC [2C]	< 56.4	U, D	µg/kg dry	56.4		BRL				30
delta-BHC	< 56.4	U, D	µg/kg dry	56.4		BRL				30
delta-BHC [2C]	< 56.4	U, D	µg/kg dry	56.4		BRL				30
gamma-BHC (Lindane)	< 33.9	U, D	µg/kg dry	33.9		BRL				30
gamma-BHC (Lindane) [2C]	< 33.9	U, D	µg/kg dry	33.9		BRL				30
Heptachlor	< 56.4	U, D	µg/kg dry	56.4		BRL				30
Heptachlor [2C]	< 56.4	U, D	µg/kg dry	56.4		BRL				30
Aldrin	< 56.4	U, D	µg/kg dry	56.4		BRL				30
Aldrin [2C]	< 56.4	U, D	µg/kg dry	56.4		BRL				30
Heptachlor epoxide	< 56.4	U, D	µg/kg dry	56.4		BRL				30
Heptachlor epoxide [2C]	< 56.4	U, D	µg/kg dry	56.4		BRL				30
Endosulfan I	< 56.4	U, D	µg/kg dry	56.4		BRL				30
Endosulfan I [2C]	< 56.4	U, D	µg/kg dry	56.4		BRL				30
Dieldrin	< 56.4	U, D	µg/kg dry	56.4		BRL				30
Dieldrin [2C]	< 56.4	U, D	µg/kg dry	56.4		BRL				30
4,4'-DDE (p,p')	< 56.4	U, D	µg/kg dry	56.4		BRL				30
4,4'-DDE (p,p') [2C]	< 56.4	U, D	µg/kg dry	56.4		BRL				30
Endrin	< 90.3	U, D	µg/kg dry	90.3		BRL				30
Endrin [2C]	< 90.3	U, D	µg/kg dry	90.3		BRL				30
Endosulfan II	< 90.3	U, D	µg/kg dry	90.3		BRL				30
Endosulfan II [2C]	< 90.3	U, D	µg/kg dry	90.3		BRL				30
4,4'-DDD (p,p')	< 90.3	U, D	µg/kg dry	90.3		BRL				30
4,4'-DDD (p,p') [2C]	< 90.3	U, D	µg/kg dry	90.3		BRL				30
Endosulfan sulfate	< 90.3	U, D	µg/kg dry	90.3		BRL				30
Endosulfan sulfate [2C]	< 90.3	U, D	µg/kg dry	90.3		BRL				30
4,4'-DDT (p,p')	< 90.3	U, D	µg/kg dry	90.3		BRL				30
4,4'-DDT (p,p') [2C]	< 90.3	U, D	µg/kg dry	90.3		BRL				30
Methoxychlor	< 90.3	U, D	µg/kg dry	90.3		BRL				30
Methoxychlor [2C]	< 90.3	U, D	µg/kg dry	90.3		BRL				30
Endrin ketone	< 90.3	U, D	µg/kg dry	90.3		BRL				30
Endrin ketone [2C]	< 90.3	U, D	µg/kg dry	90.3		BRL				30
Endrin aldehyde	< 90.3	U, D	µg/kg dry	90.3		BRL				30
Endrin aldehyde [2C]	< 90.3	U, D	µg/kg dry	90.3		BRL				30
alpha-Chlordane	< 56.4	U, D	µg/kg dry	56.4		BRL				30
alpha-Chlordane [2C]	< 56.4	U, D	µg/kg dry	56.4		BRL				30
Chlordane (gamma)(trans)	< 56.4	U, D	µg/kg dry	56.4		BRL				30
Chlordane (gamma)(trans) [2C]	< 56.4	U, D	µg/kg dry	56.4		BRL				30
Toxaphene	< 1130	U, D	µg/kg dry	1130		BRL				30
Toxaphene [2C]	< 1130	U, D	µg/kg dry	1130		BRL				30
Chlordane	< 226	U, D	µg/kg dry	226		BRL				30
Chlordane [2C]	< 226	U, D	µg/kg dry	226		BRL				30
Alachlor	< 56.4	U, D	µg/kg dry	56.4		BRL				30
Alachlor [2C]	< 56.4	U, D	µg/kg dry	56.4		BRL				30

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Pesticides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8081B										
Batch 1800219 - SW846 3546										
Duplicate (1800219-DUP1)		HT5, R01	Source: SC42525-23RE1		Prepared: 06-Jan-18 Analyzed: 10-Jan-18					
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	24.1		µg/kg dry		22.6		107	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	18.7		µg/kg dry		22.6		83	30-150		
Surrogate: Decachlorobiphenyl (Sr)	806	SDUP	µg/kg dry		22.6		3570	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	63.9	SDUP	µg/kg dry		22.6		283	30-150		
Matrix Spike (1800219-MS1)		HT5, R01	Source: SC42525-23RE1		Prepared: 06-Jan-18 Analyzed: 10-Jan-18					
alpha-BHC	23.8	J, D	µg/kg dry	56.7	28.3	BRL	84	30-150		
alpha-BHC [2C]	28.9	J, D	µg/kg dry	56.7	28.3	BRL	102	30-150		
beta-BHC	< 56.7	QM7, U, D	µg/kg dry	56.7	28.3	BRL	<1	30-150		
beta-BHC [2C]	149	QM7, D	µg/kg dry	56.7	28.3	BRL	525	30-150		
delta-BHC	19.7	J, D	µg/kg dry	56.7	28.3	BRL	69	30-150		
delta-BHC [2C]	< 56.7	QM7, U, D	µg/kg dry	56.7	28.3	BRL	<1	30-150		
gamma-BHC (Lindane)	119	QM7, D	µg/kg dry	34.0	28.3	BRL	419	30-150		
gamma-BHC (Lindane) [2C]	25.1	J, D	µg/kg dry	34.0	28.3	BRL	89	30-150		
Heptachlor	20.9	J, D	µg/kg dry	56.7	28.3	BRL	74	30-150		
Heptachlor [2C]	24.7	J, D	µg/kg dry	56.7	28.3	BRL	87	30-150		
Aldrin	27.0	J, D	µg/kg dry	56.7	28.3	BRL	95	30-150		
Aldrin [2C]	30.2	J, D	µg/kg dry	56.7	28.3	BRL	107	30-150		
Heptachlor epoxide	30.7	J, D	µg/kg dry	56.7	28.3	BRL	108	30-150		
Heptachlor epoxide [2C]	40.6	J, D	µg/kg dry	56.7	28.3	BRL	143	30-150		
Endosulfan I	26.8	J, D	µg/kg dry	56.7	28.3	BRL	95	30-150		
Endosulfan I [2C]	36.0	J, D	µg/kg dry	56.7	28.3	BRL	127	30-150		
Dieldrin	23.9	J, D	µg/kg dry	56.7	28.3	BRL	85	30-150		
Dieldrin [2C]	21.3	J, D	µg/kg dry	56.7	28.3	BRL	75	30-150		
4,4'-DDE (p,p')	30.9	J, D	µg/kg dry	56.7	28.3	BRL	109	30-150		
4,4'-DDE (p,p') [2C]	34.5	J, D	µg/kg dry	56.7	28.3	BRL	122	30-150		
Endrin	46.0	QM7, J, D	µg/kg dry	90.6	28.3	BRL	162	30-150		
Endrin [2C]	40.7	J, D	µg/kg dry	90.6	28.3	BRL	144	30-150		
Endosulfan II	55.5	QM7, J, D	µg/kg dry	90.6	28.3	BRL	196	30-150		
Endosulfan II [2C]	29.7	J, D	µg/kg dry	90.6	28.3	BRL	105	30-150		
4,4'-DDD (p,p')	42.3	J, D	µg/kg dry	90.6	28.3	BRL	149	30-150		
4,4'-DDD (p,p') [2C]	< 90.6	QM7, U, D	µg/kg dry	90.6	28.3	BRL	<1	30-150		
Endosulfan sulfate	84.9	QM7, J, D	µg/kg dry	90.6	28.3	BRL	300	30-150		
Endosulfan sulfate [2C]	31.1	J, D	µg/kg dry	90.6	28.3	BRL	110	30-150		
4,4'-DDT (p,p')	47.2	QM7, J, D	µg/kg dry	90.6	28.3	BRL	167	30-150		
4,4'-DDT (p,p') [2C]	52.5	QM7, J, D	µg/kg dry	90.6	28.3	BRL	185	30-150		
Methoxychlor	845	QM7, D	µg/kg dry	90.6	28.3	BRL	2980	30-150		
Methoxychlor [2C]	32.4	J, D	µg/kg dry	90.6	28.3	BRL	114	30-150		
Endrin ketone	126	QM7, D	µg/kg dry	90.6	28.3	BRL	446	30-150		
Endrin ketone [2C]	46.5	QM7, J, D	µg/kg dry	90.6	28.3	BRL	164	30-150		
Endrin aldehyde	65.0	QM7, J, D	µg/kg dry	90.6	28.3	BRL	229	30-150		
Endrin aldehyde [2C]	117	QM7, D	µg/kg dry	90.6	28.3	BRL	415	30-150		
alpha-Chlordane	42.1	J, D	µg/kg dry	56.7	28.3	BRL	149	30-150		
alpha-Chlordane [2C]	24.1	J, D	µg/kg dry	56.7	28.3	BRL	85	30-150		

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Pesticides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8081B										
Batch 1800219 - SW846 3546										
Matrix Spike (1800219-MS1)		HT5, R01	Source: SC42525-23RE1		Prepared: 06-Jan-18 Analyzed: 10-Jan-18					
Chlordane (gamma)(trans)	21.6	J, D	µg/kg dry	56.7	28.3	BRL	76	30-150		
Chlordane (gamma)(trans) [2C]	27.7	J, D	µg/kg dry	56.7	28.3	BRL	98	30-150		
Toxaphene	< 1130	U, D	µg/kg dry	1130		BRL		30-150		
Toxaphene [2C]	< 1130	U, D	µg/kg dry	1130		BRL		30-150		
Chlordane	< 227	U, D	µg/kg dry	227		BRL		30-150		
Chlordane [2C]	< 227	U, D	µg/kg dry	227		BRL		30-150		
Alachlor	28.3	J, D	µg/kg dry	56.7	28.3	BRL	100	30-150		
Alachlor [2C]	< 56.7	QM7, U, D	µg/kg dry	56.7	28.3	BRL	<1	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	12.1		µg/kg dry		11.3		107	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	11.7		µg/kg dry		11.3		103	30-150		
Surrogate: Decachlorobiphenyl (Sr)	221	SDUP	µg/kg dry		11.3		1950	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	23.5	SDUP	µg/kg dry		11.3		208	30-150		
Matrix Spike Dup (1800219-MSD1)		HT5, R01	Source: SC42525-23RE1		Prepared: 06-Jan-18 Analyzed: 10-Jan-18					
alpha-BHC	31.3	J, D	µg/kg dry	56.6	28.3	BRL	110	30-150	27	30
alpha-BHC [2C]	34.6	J, D	µg/kg dry	56.6	28.3	BRL	122	30-150	18	30
beta-BHC	25.0	J, D	µg/kg dry	56.6	28.3	BRL	88	30-150		30
beta-BHC [2C]	175	QM7, D	µg/kg dry	56.6	28.3	BRL	617	30-150	16	30
delta-BHC	28.9	QR5, J, D	µg/kg dry	56.6	28.3	BRL	102	30-150	38	30
delta-BHC [2C]	26.1	J, D	µg/kg dry	56.6	28.3	BRL	92	30-150		30
gamma-BHC (Lindane)	148	QM7, D	µg/kg dry	34.0	28.3	BRL	523	30-150	22	30
gamma-BHC (Lindane) [2C]	33.8	J, D	µg/kg dry	34.0	28.3	BRL	120	30-150	30	30
Heptachlor	27.4	J, D	µg/kg dry	56.6	28.3	BRL	97	30-150	27	30
Heptachlor [2C]	33.9	QR5, J, D	µg/kg dry	56.6	28.3	BRL	120	30-150	32	30
Aldrin	31.7	J, D	µg/kg dry	56.6	28.3	BRL	112	30-150	16	30
Aldrin [2C]	42.9	QM7, QR5, J, D	µg/kg dry	56.6	28.3	BRL	152	30-150	35	30
Heptachlor epoxide	40.0	J, D	µg/kg dry	56.6	28.3	BRL	141	30-150	26	30
Heptachlor epoxide [2C]	59.6	QM7, QR5, D	µg/kg dry	56.6	28.3	BRL	210	30-150	38	30
Endosulfan I	32.6	J, D	µg/kg dry	56.6	28.3	BRL	115	30-150	20	30
Endosulfan I [2C]	55.8	QM7, QR5, J, D	µg/kg dry	56.6	28.3	BRL	197	30-150	43	30
Dieldrin	27.7	J, D	µg/kg dry	56.6	28.3	BRL	98	30-150	14	30
Dieldrin [2C]	29.1	QR5, J, D	µg/kg dry	56.6	28.3	BRL	103	30-150	31	30
4,4'-DDE (p,p')	28.5	J, D	µg/kg dry	56.6	28.3	BRL	101	30-150	8	30
4,4'-DDE (p,p') [2C]	55.8	QM7, QR5, J, D	µg/kg dry	56.6	28.3	BRL	197	30-150	47	30
Endrin	57.9	QM7, J, D	µg/kg dry	90.6	28.3	BRL	205	30-150	23	30
Endrin [2C]	48.7	QM7, J, D	µg/kg dry	90.6	28.3	BRL	172	30-150	18	30
Endosulfan II	82.3	QR5, QM7, J, D	µg/kg dry	90.6	28.3	BRL	291	30-150	39	30
Endosulfan II [2C]	36.4	J, D	µg/kg dry	90.6	28.3	BRL	129	30-150	20	30
4,4'-DDD (p,p')	65.2	QM7, QR5, J, D	µg/kg dry	90.6	28.3	BRL	231	30-150	43	30

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Pesticides - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
SW846 8081B										
Batch 1800219 - SW846 3546										
Matrix Spike Dup (1800219-MSD1)		HT5, R01	Source: SC42525-23RE1		Prepared: 06-Jan-18 Analyzed: 10-Jan-18					
4,4'-DDD (p,p') [2C]	72.9	QM7, J, D	µg/kg dry	90.6	28.3	BRL	258	30-150		30
Endosulfan sulfate	113	QM7, D	µg/kg dry	90.6	28.3	BRL	401	30-150	29	30
Endosulfan sulfate [2C]	33.6	J, D	µg/kg dry	90.6	28.3	BRL	119	30-150	8	30
4,4'-DDT (p,p')	72.0	QM7, QR5, J, D	µg/kg dry	90.6	28.3	BRL	255	30-150	42	30
4,4'-DDT (p,p') [2C]	62.2	QM7, J, D	µg/kg dry	90.6	28.3	BRL	220	30-150	17	30
Methoxychlor	1200	QM7, QR5, D	µg/kg dry	90.6	28.3	BRL	4230	30-150	34	30
Methoxychlor [2C]	41.8	J, D	µg/kg dry	90.6	28.3	BRL	148	30-150	25	30
Endrin ketone	82.9	QM7, QR5, J, D	µg/kg dry	90.6	28.3	BRL	293	30-150	41	30
Endrin ketone [2C]	50.3	QM7, J, D	µg/kg dry	90.6	28.3	BRL	178	30-150	8	30
Endrin aldehyde	85.4	QM7, J, D	µg/kg dry	90.6	28.3	BRL	302	30-150	27	30
Endrin aldehyde [2C]	27.2	QR5, J, D	µg/kg dry	90.6	28.3	BRL	96	30-150	125	30
alpha-Chlordane	57.4	QM7, QR5, D	µg/kg dry	56.6	28.3	BRL	203	30-150	31	30
alpha-Chlordane [2C]	31.5	J, D	µg/kg dry	56.6	28.3	BRL	111	30-150	27	30
Chlordane (gamma)(trans)	26.6	J, D	µg/kg dry	56.6	28.3	BRL	94	30-150	21	30
Chlordane (gamma)(trans) [2C]	38.2	QR5, J, D	µg/kg dry	56.6	28.3	BRL	135	30-150	32	30
Toxaphene	< 1130	U, D	µg/kg dry	1130		BRL		30-150		30
Toxaphene [2C]	< 1130	U, D	µg/kg dry	1130		BRL		30-150		30
Chlordane	< 226	U, D	µg/kg dry	226		BRL		30-150		30
Chlordane [2C]	< 226	U, D	µg/kg dry	226		BRL		30-150		30
Alachlor	44.4	QM7, QR5, J, D	µg/kg dry	56.6	28.3	BRL	157	30-150	44	30
Alachlor [2C]	41.3	J, D	µg/kg dry	56.6	28.3	BRL	146	30-150		30
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr)	14.7		µg/kg dry		11.3		130	30-150		
Surrogate: 4,4-DB-Octafluorobiphenyl (Sr) [2C]	9.78		µg/kg dry		11.3		86	30-150		
Surrogate: Decachlorobiphenyl (Sr)	316	SDUP	µg/kg dry		11.3		2790	30-150		
Surrogate: Decachlorobiphenyl (Sr) [2C]	28.5	SDUP	µg/kg dry		11.3		252	30-150		

Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
8015DM										
Batch 1721025 - SW846 3546										
Blank (1721025-BLK1)					<u>Prepared: 20-Dec-17 Analyzed: 21-Dec-17</u>					
Fuel Oil #2	< 26.1	U	mg/kg wet	26.1						
Fuel Oil #4	< 26.1	U	mg/kg wet	26.1						
Fuel Oil #6	< 26.1	U	mg/kg wet	26.1						
Motor Oil	< 26.1	U	mg/kg wet	26.1						
Aviation Fuel	< 26.1	U	mg/kg wet	26.1						
Unidentified	< 26.1	U	mg/kg wet	26.1						
Other Oil	< 26.1	U	mg/kg wet	26.1						
Diesel Range Organics (DRO) C10-C28	< 26.1	U	mg/kg wet	26.1						
Surrogate: 1-Chlorooctadecane	2.15		mg/kg wet		3.28		66	40-140		
LCS (1721025-BS1)					<u>Prepared: 20-Dec-17 Analyzed: 21-Dec-17</u>					
Fuel Oil #2	144		mg/kg wet	26.3	132		109	40-140		
Surrogate: 1-Chlorooctadecane	3.13		mg/kg wet		3.30		95	40-140		
LCS Dup (1721025-BSD1)					<u>Prepared: 20-Dec-17 Analyzed: 21-Dec-17</u>					
Fuel Oil #2	138		mg/kg wet	26.5	133		104	40-140	4	200
Surrogate: 1-Chlorooctadecane	3.15		mg/kg wet		3.32		95	40-140		
Duplicate (1721025-DUP1)					R01	Source: SC42525-23		<u>Prepared: 20-Dec-17 Analyzed: 21-Dec-17</u>		
Fuel Oil #2	< 149	U, D	mg/kg dry	149		BRL				50
Fuel Oil #4	< 149	U, D	mg/kg dry	149		BRL				50
Fuel Oil #6	< 149	U, D	mg/kg dry	149		BRL				50
Motor Oil	< 149	U, D	mg/kg dry	149		BRL				50
Aviation Fuel	< 149	U, D	mg/kg dry	149		BRL				50
Unidentified	1250	D	mg/kg dry	149		1550			21	50
Other Oil	Calculated as		mg/kg dry	149		calculated a				50
Diesel Range Organics (DRO) C10-C28	1250	D	mg/kg dry	149		1550			21	50
Surrogate: 1-Chlorooctadecane	67.5	S02	mg/kg dry		3.74		1810	40-140		
Matrix Spike (1721025-MS1)					Source: SC42525-22		<u>Prepared: 20-Dec-17 Analyzed: 21-Dec-17</u>			
Diesel Range Organics (DRO) C10-C28	341	D	mg/kg dry	156	156	256	54	40-140		
Surrogate: 1-Chlorooctadecane	2.98		mg/kg dry		3.91		76	40-140		
Matrix Spike Dup (1721025-MSD1)					Source: SC42525-22		<u>Prepared: 20-Dec-17 Analyzed: 21-Dec-17</u>			
Diesel Range Organics (DRO) C10-C28	320	D	mg/kg dry	155	156	256	41	40-140	6	30
Surrogate: 1-Chlorooctadecane	2.77		mg/kg dry		3.89		71	40-140		
Batch 1721207 - SW846 3546										
Blank (1721207-BLK1)					<u>Prepared: 22-Dec-17 Analyzed: 29-Dec-17</u>					
Fuel Oil #2	< 26.0	U	mg/kg wet	26.0						
Fuel Oil #4	< 26.0	U	mg/kg wet	26.0						
Fuel Oil #6	< 26.0	U	mg/kg wet	26.0						
Motor Oil	< 26.0	U	mg/kg wet	26.0						
Aviation Fuel	< 26.0	U	mg/kg wet	26.0						
Unidentified	< 26.0	U	mg/kg wet	26.0						
Other Oil	< 26.0	U	mg/kg wet	26.0						
Diesel Range Organics (DRO) C10-C28	< 26.0	U	mg/kg wet	26.0						
Surrogate: 1-Chlorooctadecane	2.70		mg/kg wet		3.25		83	40-140		
LCS (1721207-BS1)					<u>Prepared: 22-Dec-17 Analyzed: 29-Dec-17</u>					
Fuel Oil #2	156		mg/kg wet	26.1	131		119	40-140		
Surrogate: 1-Chlorooctadecane	2.93		mg/kg wet		3.27		90	40-140		
LCS Dup (1721207-BSD1)					<u>Prepared: 22-Dec-17 Analyzed: 29-Dec-17</u>					
Fuel Oil #2	143		mg/kg wet	26.0	130		110	40-140	8	200

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Extractable Petroleum Hydrocarbons - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
8015DM										
Batch 1721207 - SW846 3546										
LCS Dup (1721207-BSD1)					Prepared: 22-Dec-17 Analyzed: 29-Dec-17					
Surrogate: 1-Chlorooctadecane	2.94		mg/kg wet		3.26		90	40-140		
Duplicate (1721207-DUP1)					Prepared: 22-Dec-17 Analyzed: 29-Dec-17					
Fuel Oil #2	< 302	U, D	mg/kg dry	302		BRL				50
Fuel Oil #4	< 302	U, D	mg/kg dry	302		BRL				50
Fuel Oil #6	< 302	U, D	mg/kg dry	302		BRL				50
Motor Oil	< 302	U, D	mg/kg dry	302		BRL				50
Aviation Fuel	< 302	U, D	mg/kg dry	302		BRL				50
Unidentified	933	D	mg/kg dry	302		1040			11	50
Other Oil	Calculated as		mg/kg dry	302		alculated a				50
Diesel Range Organics (DRO) C10-C28	933	D	mg/kg dry	302		1040			11	50
Surrogate: 1-Chlorooctadecane	3.07		mg/kg dry		3.78		81	40-140		
Matrix Spike (1721207-MS1)					Prepared: 22-Dec-17 Analyzed: 29-Dec-17					
Diesel Range Organics (DRO) C10-C28	687	QM7, D	mg/kg dry	159	159	718	-19	40-140		
Surrogate: 1-Chlorooctadecane	3.54		mg/kg dry		3.98		89	40-140		
Matrix Spike Dup (1721207-MSD1)					Prepared: 22-Dec-17 Analyzed: 29-Dec-17					
Diesel Range Organics (DRO) C10-C28	755	QM7, D	mg/kg dry	159	159	718	23	40-140	9	30
Surrogate: 1-Chlorooctadecane	3.77		mg/kg dry		3.98		95	40-140		

Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 6010C</u>										
Batch 1721203 - SW846 3050B										
<u>Blank (1721203-BLK1)</u>					<u>Prepared: 28-Dec-17 Analyzed: 10-Jan-18</u>					
Cadmium	< 0.495	U	mg/kg wet	0.495						
Selenium	< 1.49	U	mg/kg wet	1.49						
Chromium	< 0.991	U	mg/kg wet	0.991						
Silver	< 1.49	U	mg/kg wet	1.49						
Arsenic	< 1.49	U	mg/kg wet	1.49						
Barium	< 0.991	U	mg/kg wet	0.991						
<u>Duplicate (1721203-DUP1)</u>					<u>Source: SC42525-11 Prepared: 28-Dec-17 Analyzed: 10-Jan-18</u>					
Arsenic	18.4		mg/kg dry	1.81		16.6			10	20
Cadmium	1.04		mg/kg dry	0.605		1.20			14	20
Chromium	11.1		mg/kg dry	1.21		12.0			7	20
Silver	< 1.81	U	mg/kg dry	1.81		BRL				20
Selenium	< 1.81	U	mg/kg dry	1.81		BRL				20
Barium	79.0		mg/kg dry	1.21		86.0			9	20
<u>Matrix Spike (1721203-MS1)</u>					<u>Source: SC42525-11 Prepared: 28-Dec-17 Analyzed: 10-Jan-18</u>					
Cadmium	127		mg/kg dry	0.606	152	1.20	83	75-125		
Selenium	141		mg/kg dry	1.82	152	BRL	93	75-125		
Chromium	149		mg/kg dry	1.21	152	12.0	91	75-125		
Arsenic	156		mg/kg dry	1.82	152	16.6	92	75-125		
Silver	129		mg/kg dry	1.82	152	BRL	85	75-125		
Barium	233		mg/kg dry	1.21	152	86.0	97	75-125		
<u>Matrix Spike Dup (1721203-MSD1)</u>					<u>Source: SC42525-11 Prepared: 28-Dec-17 Analyzed: 10-Jan-18</u>					
Chromium	139		mg/kg dry	1.21	152	12.0	84	75-125	7	20
Arsenic	152		mg/kg dry	1.82	152	16.6	89	75-125	3	20
Silver	119		mg/kg dry	1.82	152	BRL	78	75-125	8	20
Cadmium	117		mg/kg dry	0.606	152	1.20	76	75-125	8	20
Selenium	129		mg/kg dry	1.82	152	BRL	85	75-125	9	20
Barium	225		mg/kg dry	1.21	152	86.0	92	75-125	4	20
<u>Post Spike (1721203-PS1)</u>					<u>Source: SC42525-11 Prepared: 28-Dec-17 Analyzed: 10-Jan-18</u>					
Arsenic	155		mg/kg dry	1.82	152	16.6	91	80-120		
Selenium	139		mg/kg dry	1.82	152	BRL	92	80-120		
Chromium	142		mg/kg dry	1.21	152	12.0	85	80-120		
Cadmium	124		mg/kg dry	0.607	152	1.20	81	80-120		
Barium	217		mg/kg dry	1.21	152	86.0	86	80-120		
<u>Reference (1721203-SRM1)</u>					<u>Prepared: 28-Dec-17 Analyzed: 10-Jan-18</u>					
Chromium	33.7	QM9	mg/kg wet	1.00	41.3		81	81.8-118.2		
Selenium	78.3		mg/kg wet	1.50	93.6		84	79.1-121.4		
Arsenic	60.8		mg/kg wet	1.50	73.6		83	83-117		
Silver	15.8	QM9	mg/kg wet	1.50	20.4		77	79.6-120.4		
Cadmium	79.7		mg/kg wet	0.500	96.6		83	82.4-117.6		
Barium	135		mg/kg wet	1.00	157		86	82.2-117.8		
<u>Reference (1721203-SRM2)</u>					<u>Prepared: 28-Dec-17 Analyzed: 10-Jan-18</u>					
Arsenic	64.4		mg/kg wet	1.50	74.1		87	83-117		
Silver	16.4		mg/kg wet	1.50	20.5		80	79.6-120.4		
Cadmium	85.8		mg/kg wet	0.500	97.3		88	82.4-117.6		

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Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 6010C</u>										
Batch 1721203 - SW846 3050B										
<u>Reference (1721203-SRM2)</u>	<u>Prepared: 28-Dec-17 Analyzed: 10-Jan-18</u>									
Chromium	36.3		mg/kg wet	1.00	41.7		87	81.8-118.2		
Selenium	83.4		mg/kg wet	1.50	94.3		88	79.1-121.4		
Barium	147		mg/kg wet	1.00	158		93	82.2-117.8		
Batch 1721339 - SW846 3050B										
<u>Blank (1721339-BLK1)</u>	<u>Prepared: 28-Dec-17 Analyzed: 02-Jan-18</u>									
Silver	< 1.49	U	mg/kg wet	1.49						
Cadmium	< 0.496	U	mg/kg wet	0.496						
Selenium	< 1.49	U	mg/kg wet	1.49						
<u>Duplicate (1721339-DUP1)</u>	<u>Source: SC42525-22 Prepared: 28-Dec-17 Analyzed: 02-Jan-18</u>									
Selenium	< 1.76	U	mg/kg dry	1.76		BRL				20
Cadmium	0.705		mg/kg dry	0.588		0.707			0.3	20
Silver	< 1.76	U	mg/kg dry	1.76		BRL				20
<u>Matrix Spike (1721339-MS1)</u>	<u>Source: SC42525-22 Prepared: 28-Dec-17 Analyzed: 02-Jan-18</u>									
Cadmium	111		mg/kg dry	0.585	146	0.707	76	75-125		
Selenium	119		mg/kg dry	1.76	146	BRL	81	75-125		
Silver	111		mg/kg dry	1.76	146	BRL	76	75-125		
<u>Matrix Spike Dup (1721339-MSD1)</u>	<u>Source: SC42525-22 Prepared: 28-Dec-17 Analyzed: 02-Jan-18</u>									
Selenium	120		mg/kg dry	1.77	148	BRL	81	75-125	0.7	20
Cadmium	113		mg/kg dry	0.590	148	0.707	76	75-125	1	20
Silver	115		mg/kg dry	1.77	148	BRL	78	75-125	4	20
<u>Post Spike (1721339-PS1)</u>	<u>Source: SC42525-22 Prepared: 28-Dec-17 Analyzed: 02-Jan-18</u>									
Selenium	123		mg/kg dry	1.76	146	BRL	84	80-120		
<u>Reference (1721339-SRM1)</u>	<u>Prepared: 28-Dec-17 Analyzed: 02-Jan-18</u>									
Selenium	87.8		mg/kg wet	1.50	93.9		93	79.1-121.4		
Cadmium	97.8		mg/kg wet	0.500	96.9		101	82.4-117.6		
Silver	18.4		mg/kg wet	1.50	20.4		90	79.6-120.4		
<u>Reference (1721339-SRM2)</u>	<u>Prepared: 28-Dec-17 Analyzed: 02-Jan-18</u>									
Cadmium	92.4		mg/kg wet	0.500	97.8		95	82.4-117.6		
Selenium	87.8		mg/kg wet	1.50	94.7		93	79.1-121.4		
Silver	18.3		mg/kg wet	1.50	20.6		89	79.6-120.4		
Batch 1800083 - SW846 3050B										
<u>Blank (1800083-BLK1)</u>	<u>Prepared: 28-Dec-17 Analyzed: 08-Jan-18</u>									
Lead	< 1.49	U	mg/kg wet	1.49						
Arsenic	< 1.49	U	mg/kg wet	1.49						
Chromium	< 0.993	U	mg/kg wet	0.993						
Barium	< 0.993	U	mg/kg wet	0.993						
<u>Duplicate (1800083-DUP1)</u>	<u>Source: SC42525-22 Prepared: 28-Dec-17 Analyzed: 08-Jan-18</u>									
Arsenic	5.80		mg/kg dry	1.76		5.99			3	20
Chromium	7.59		mg/kg dry	1.18		8.28			9	20
Lead	13.5		mg/kg dry	1.76		11.9			13	20
Barium	40.8		mg/kg dry	1.18		41.6			2	20
<u>Matrix Spike (1800083-MS1)</u>	<u>Source: SC42525-22 Prepared: 28-Dec-17 Analyzed: 08-Jan-18</u>									
Arsenic	117		mg/kg dry	1.76	146	5.99	76	75-125		

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Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 6010C</u>										
Batch 1800083 - SW846 3050B										
<u>Matrix Spike (1800083-MS1)</u>			<u>Source: SC42525-22</u>		<u>Prepared: 28-Dec-17 Analyzed: 08-Jan-18</u>					
Chromium	122		mg/kg dry	1.17	146	8.28	78	75-125		
Lead	114	QM5	mg/kg dry	1.76	146	11.9	70	75-125		
Barium	172		mg/kg dry	1.17	146	41.6	89	75-125		
<u>Matrix Spike Dup (1800083-MSD1)</u>			<u>Source: SC42525-22</u>		<u>Prepared: 28-Dec-17 Analyzed: 08-Jan-18</u>					
Arsenic	118		mg/kg dry	1.77	148	5.99	76	75-125	1	20
Lead	115	QM5	mg/kg dry	1.77	148	11.9	70	75-125	1	20
Chromium	124		mg/kg dry	1.18	148	8.28	78	75-125	1	20
Barium	173		mg/kg dry	1.18	148	41.6	89	75-125	0.6	20
<u>Post Spike (1800083-PS1)</u>			<u>Source: SC42525-22</u>		<u>Prepared: 28-Dec-17 Analyzed: 08-Jan-18</u>					
Arsenic	119	QM9	mg/kg dry	1.76	146	5.99	77	80-120		
Lead	116	QM5	mg/kg dry	1.76	146	11.9	71	80-120		
Chromium	122	QM9	mg/kg dry	1.17	146	8.28	78	80-120		
Barium	154	QM9	mg/kg dry	1.17	146	41.6	77	80-120		
<u>Reference (1800083-SRM1)</u>					<u>Prepared: 28-Dec-17 Analyzed: 08-Jan-18</u>					
Lead	36.6	QM9	mg/kg wet	1.50	46.4		79	82.8-117		
Arsenic	62.2		mg/kg wet	1.50	73.8		84	83-117		
Chromium	36.3		mg/kg wet	1.00	41.5		87	81.8-118.2		
Barium	148		mg/kg wet	1.00	158		94	82.2-117.8		
<u>Reference (1800083-SRM2)</u>					<u>Prepared: 28-Dec-17 Analyzed: 08-Jan-18</u>					
Lead	39.2		mg/kg wet	1.50	46.7		84	82.8-117		
Arsenic	63.8		mg/kg wet	1.50	74.5		86	83-117		
Chromium	36.8		mg/kg wet	1.00	41.8		88	81.8-118.2		
Barium	145		mg/kg wet	1.00	159		91	82.2-117.8		
Batch 1800406 - SW846 3051A										
<u>Blank (1800406-BLK1)</u>					<u>Prepared: 11-Jan-18 Analyzed: 12-Jan-18</u>					
Lead	< 1.48	U	mg/kg wet	1.48						
<u>Duplicate (1800406-DUP1)</u>			<u>Source: SC42525-01</u>		<u>Prepared: 11-Jan-18 Analyzed: 12-Jan-18</u>					
Lead	52.7		mg/kg dry	1.72		50.8			4	20
<u>Matrix Spike (1800406-MS1)</u>			<u>Source: SC42525-01</u>		<u>Prepared: 11-Jan-18 Analyzed: 12-Jan-18</u>					
Lead	166		mg/kg dry	1.71	143	50.8	81	75-125		
<u>Matrix Spike Dup (1800406-MSD1)</u>			<u>Source: SC42525-01</u>		<u>Prepared: 11-Jan-18 Analyzed: 12-Jan-18</u>					
Lead	152	QM8	mg/kg dry	1.72	143	50.8	71	75-125	9	20
<u>Post Spike (1800406-PS1)</u>			<u>Source: SC42525-01</u>		<u>Prepared: 11-Jan-18 Analyzed: 12-Jan-18</u>					
Lead	167		mg/kg dry	1.71	143	50.8	82	80-120		
<u>Reference (1800406-SRM1)</u>					<u>Prepared: 11-Jan-18 Analyzed: 12-Jan-18</u>					
Lead	40.0		mg/kg wet	1.50	46.4		86	82.8-117		
<u>Reference (1800406-SRM2)</u>					<u>Prepared: 11-Jan-18 Analyzed: 12-Jan-18</u>					
Lead	38.0	QM9	mg/kg wet	1.50	46.3		82	82.8-117		
Batch S815619 - 1721339										
<u>Serial Dilution (S815619-SRD1)</u>			<u>Source: SC42525-22</u>		<u>Prepared: 28-Dec-17 Analyzed: 02-Jan-18</u>					
Chromium	11.1		mg/kg dry	5.85		8.28			29	10
Silver	< 8.78	U	mg/kg dry	8.78		BRL				10
Selenium	< 8.78	U	mg/kg dry	8.78		BRL				10
Lead	19.2		mg/kg dry	8.78		11.9			47	10
Arsenic	9.54		mg/kg dry	8.78		5.99			46	10
Cadmium	1.05		mg/kg dry	2.93		0.707			39	10

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Total Metals by EPA 6000/7000 Series Methods - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 6010C</u>										
Batch S815619 - 1721339										
<u>Serial Dilution (S815619-SRD1)</u>				<u>Source: SC42525-22</u>		<u>Prepared: 28-Dec-17 Analyzed: 02-Jan-18</u>				
Barium	57.4		mg/kg dry	5.85		41.6			32	10
Batch S815898 - 1721203										
<u>Serial Dilution (S815898-SRD1)</u>				<u>Source: SC42525-11</u>		<u>Prepared: 28-Dec-17 Analyzed: 10-Jan-18</u>				
Silver	< 9.10	U	mg/kg dry	9.10		BRL				10
Arsenic	19.0		mg/kg dry	9.10		16.6			13	10
Cadmium	1.46		mg/kg dry	3.03		1.20			19	10
Chromium	14.0		mg/kg dry	6.07		12.0			15	10
Selenium	< 9.10	U	mg/kg dry	9.10		BRL				10
Barium	94.3		mg/kg dry	6.07		86.0			9	10
Batch S815956 - 1800406										
<u>Serial Dilution (S815956-SRD1)</u>				<u>Source: SC42525-01</u>		<u>Prepared: 11-Jan-18 Analyzed: 12-Jan-18</u>				
Lead	68.2		mg/kg dry	8.57		50.8			29	10
<u>SW846 7471B</u>										
Batch 1721204 - EPA200/SW7000 Series										
<u>Blank (1721204-BLK1)</u>						<u>Prepared: 03-Jan-18 Analyzed: 05-Jan-18</u>				
Mercury	< 0.0297	U	mg/kg wet	0.0297						
<u>Duplicate (1721204-DUP1)</u>				<u>Source: SC42525-01</u>		<u>Prepared: 03-Jan-18 Analyzed: 05-Jan-18</u>				
Mercury	0.139	QR6	mg/kg dry	0.0344		0.171			21	20
<u>Matrix Spike (1721204-MS1)</u>				<u>Source: SC42525-01</u>		<u>Prepared: 03-Jan-18 Analyzed: 05-Jan-18</u>				
Mercury	0.400		mg/kg dry	0.0341	0.237	0.171	97	75-125		
<u>Matrix Spike Dup (1721204-MSD1)</u>				<u>Source: SC42525-01</u>		<u>Prepared: 03-Jan-18 Analyzed: 05-Jan-18</u>				
Mercury	0.329		mg/kg dry	0.0304	0.211	0.171	75	75-125	19	20
<u>Post Spike (1721204-PS1)</u>				<u>Source: SC42525-01</u>		<u>Prepared: 03-Jan-18 Analyzed: 05-Jan-18</u>				
Mercury	0.383		mg/kg dry	0.0318	0.221	0.171	96	80-120		
<u>Reference (1721204-SRM1)</u>						<u>Prepared: 03-Jan-18 Analyzed: 05-Jan-18</u>				
Mercury	6.10	D	mg/kg wet	0.600	5.99		102	66.9-133.	1	
Batch 1721340 - EPA200/SW7000 Series										
<u>Blank (1721340-BLK1)</u>						<u>Prepared: 03-Jan-18 Analyzed: 04-Jan-18</u>				
Mercury	< 0.0264	U	mg/kg wet	0.0264						
<u>Duplicate (1721340-DUP1)</u>				<u>Source: SC42525-21</u>		<u>Prepared: 03-Jan-18 Analyzed: 04-Jan-18</u>				
Mercury	3.98	GS1, D	mg/kg dry	0.675		4.84			20	20
<u>Matrix Spike (1721340-MS1)</u>				<u>Source: SC42525-21</u>		<u>Prepared: 03-Jan-18 Analyzed: 04-Jan-18</u>				
Mercury	7.01	QM2, D	mg/kg dry	0.705	0.245	4.84	885	75-125		
<u>Matrix Spike Dup (1721340-MSD1)</u>				<u>Source: SC42525-21</u>		<u>Prepared: 03-Jan-18 Analyzed: 04-Jan-18</u>				
Mercury	7.74	QM2, D	mg/kg dry	0.671	0.233	4.84	1250	75-125	10	20
<u>Post Spike (1721340-PS1)</u>				<u>Source: SC42525-21</u>		<u>Prepared: 03-Jan-18 Analyzed: 04-Jan-18</u>				
Mercury	10.1	D	mg/kg dry	0.658	4.57	4.84	115	80-120		
<u>Reference (1721340-SRM1)</u>						<u>Prepared: 03-Jan-18 Analyzed: 04-Jan-18</u>				
Mercury	6.69	D	mg/kg wet	0.600	6.05		111	66.9-133.	1	

General Chemistry Parameters - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SM2540 G (11) Mod.</u>										
Batch 1720888 - General Preparation										
<u>Duplicate (1720888-DUP2)</u>				<u>Source: SC42525-11</u>		<u>Prepared & Analyzed: 18-Dec-17</u>				
% Solids	82.1		%			82.2			0.1	5
Batch 1720896 - General Preparation										
<u>Duplicate (1720896-DUP1)</u>				<u>Source: SC42525-13</u>		<u>Prepared & Analyzed: 18-Dec-17</u>				
% Solids	84.6		%			84.4			0.3	5
<u>Duplicate (1720896-DUP2)</u>				<u>Source: SC42525-22</u>		<u>Prepared & Analyzed: 18-Dec-17</u>				
% Solids	84.5		%			84.1			0.4	5

Toxicity Characteristics - Quality Control

Analyte(s)	Result	Flag	Units	*RDL	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit
<u>SW846 1030</u>										
Batch 1720970 - General Preparation										
<u>Duplicate (1720970-DUP1)</u>						<u>Source: SC42525-11</u>		<u>Prepared & Analyzed: 19-Dec-17</u>		
Ignitability by Definition	Negative		N/A			Negative				35
Batch 1720972 - General Preparation										
<u>Duplicate (1720972-DUP1)</u>						<u>Source: SC42525-22</u>		<u>Prepared & Analyzed: 19-Dec-17</u>		
Ignitability by Definition	Negative		N/A			Negative				35
<u>SW846 Ch. 7.3</u>										
Batch 1721061 - General Preparation										
<u>Blank (1721061-BLK1)</u>								<u>Prepared: 20-Dec-17 Analyzed: 28-Dec-17</u>		
Reactivity	See Narrative		mg/kg wet							
Reactive Cyanide	< 25.0	U	mg/kg wet	25.0						
Reactive Sulfide	< 50.0	U	mg/kg wet	50.0						
<u>Duplicate (1721061-DUP1)</u>						<u>Source: SC42525-11</u>		<u>Prepared: 20-Dec-17 Analyzed: 28-Dec-17</u>		
Reactivity	See Narrative		mg/kg dry			ee Narrativ				200
Reactive Cyanide	< 24.6	U	mg/kg dry	24.6		BRL				35
Reactive Sulfide	< 49.3	U	mg/kg dry	49.3		BRL				35
<u>Reference (1721061-SRM1)</u>								<u>Prepared: 20-Dec-17 Analyzed: 28-Dec-17</u>		
Reactive Cyanide	< 25.0	U	mg/kg wet	25.0	100	0	0-200			
<u>Reference (1721061-SRM2)</u>								<u>Prepared: 20-Dec-17 Analyzed: 28-Dec-17</u>		
Reactive Sulfide	< 50.0	U	mg/kg wet	50.0	6700	0	0-200			
Batch 1721256 - General Preparation										
<u>Blank (1721256-BLK1)</u>								<u>Prepared: 22-Dec-17 Analyzed: 28-Dec-17</u>		
Reactivity	See Narrative		mg/kg wet							
Reactive Cyanide	< 25.0	U	mg/kg wet	25.0						
Reactive Sulfide	< 50.0	U	mg/kg wet	50.0						
<u>Duplicate (1721256-DUP1)</u>						<u>Source: SC42525-22</u>		<u>Prepared: 22-Dec-17 Analyzed: 28-Dec-17</u>		
Reactivity	See Narrative		mg/kg dry			ee Narrativ				200
Reactive Cyanide	< 24.4	U	mg/kg dry	24.4		BRL				35
Reactive Sulfide	< 48.8	U	mg/kg dry	48.8		BRL				35
<u>Reference (1721256-SRM1)</u>								<u>Prepared: 22-Dec-17 Analyzed: 28-Dec-17</u>		
Reactive Cyanide	< 25.0	U	mg/kg wet	25.0	100	0	0-200			
<u>Reference (1721256-SRM2)</u>								<u>Prepared: 22-Dec-17 Analyzed: 28-Dec-17</u>		
Reactive Sulfide	< 50.0	U	mg/kg wet	50.0	6700	0	0-200			

Pesticides - Pesticide Breakdown Report

Analyte(s)	Column	% Breakdown	Limit
Batch S815699			
<u>Performance Mix (S815699-PEM1)</u>			
4,4'-DDT (p,p')	1	3.2	15.0
Endrin	1	4.1	15.0
4,4'-DDT (p,p')	2	4.0	15.0
Endrin	2	9.1	15.0
<u>Performance Mix (S815699-PEM2)</u>			
4,4'-DDT (p,p')	1	4.8	15.0
Endrin	1	4.4	15.0
4,4'-DDT (p,p')	2	7.7	15.0
Endrin	2	8.0	15.0
<u>Performance Mix (S815699-PEM3)</u>			
4,4'-DDT (p,p')	1	6.6	15.0
Endrin	1	5.2	15.0
4,4'-DDT (p,p')	2	11.8	15.0
Endrin	2	9.8	15.0
Batch S815700			
<u>Performance Mix (S815700-PEM1)</u>			
4,4'-DDT (p,p')	1	6.6	15.0
Endrin	1	5.2	15.0
4,4'-DDT (p,p')	2	11.8	15.0
Endrin	2	9.8	15.0
<u>Performance Mix (S815700-PEM2)</u>			
4,4'-DDT (p,p')	1	7.5	15.0
Endrin	1	5.5	15.0
4,4'-DDT (p,p')	2	13.9	15.0
Endrin	2	12.5	15.0
Batch S815821			
<u>Performance Mix (S815821-PEM1)</u>			
4,4'-DDT (p,p')	1	5.3	15.0
Endrin	1	2.0	15.0
4,4'-DDT (p,p')	2	2.4	15.0
Endrin	2	2.0	15.0
<u>Performance Mix (S815821-PEM2)</u>			
4,4'-DDT (p,p')	1	3.4	15.0
Endrin	1	2.6	15.0
4,4'-DDT (p,p')	2	2.9	15.0
Endrin	2	2.9	15.0
Batch S815835			
<u>Performance Mix (S815835-PEM2)</u>			
4,4'-DDT (p,p')	1	1.6	15.0
Endrin	1	2.4	15.0
4,4'-DDT (p,p')	2	3.3	15.0
Endrin	2	1.9	15.0

The following list indicates the date and time low-level VOC soil/sediment samples were placed in the freezer at the lab:

SC42525-01	SS-001	12/18/2017 11:40 AM	*
SC42525-02	SS-002	12/18/2017 11:40 AM	*
SC42525-03	SS-003	12/18/2017 11:40 AM	*
SC42525-04	SS-FD	12/18/2017 11:40 AM	*
SC42525-05	SS-004	12/18/2017 11:40 AM	*
SC42525-06	SS-005	12/18/2017 11:40 AM	*
SC42525-07	SS-006	12/18/2017 11:40 AM	*
SC42525-08	SS-007	12/18/2017 11:40 AM	*
SC42525-09	SS-008	12/18/2017 11:40 AM	*
SC42525-10	SS-009	12/18/2017 11:40 AM	*
SC42525-11	SS-010	12/18/2017 11:40 AM	*
SC42525-12	SS-011	12/18/2017 11:40 AM	*
SC42525-13	SS-012	12/18/2017 11:40 AM	*
SC42525-14	SS-013	12/18/2017 11:40 AM	*
SC42525-15	SS-014	12/18/2017 11:40 AM	*
SC42525-16	SS-015	12/18/2017 11:40 AM	*
SC42525-17	SS-FD	12/18/2017 11:40 AM	*
SC42525-18	SS-016	12/18/2017 11:40 AM	*
SC42525-21	SS-019	12/18/2017 11:40 AM	*
SC42525-22	SS-020	12/18/2017 11:40 AM	*
SC42525-25	SS-023	12/18/2017 11:40 AM	*
SC42525-26	SS-024	12/18/2017 11:40 AM	*
SC42525-19	SS-017	12/18/2017 11:40 AM	*
SC42525-20	SS-018	12/18/2017 11:40 AM	*
SC42525-23	SS-021	12/18/2017 11:40 AM	*
SC42525-24	SS-022	12/18/2017 11:40 AM	*

Notes and Definitions

D	Data reported from a dilution
GS1	Sample dilution required for high concentration of target analytes to be within the instrument calibration range.
HT5	Sample was originally analyzed within the recommended method holding time; however, QC materials for the sample run were out of control. As a result, the sample was immediately re-analyzed (outside the holding time).
IgHT	A hold time of 24 hours has been set to expedite the analyses through the laboratory. However, the hold time for Ignitability is not specified within the method other than to state that the samples should be analyzed as soon as possible.
J	Detected above the Method Detection Limit but below the Reporting Limit; therefore, result is an estimated concentration (CLP J-Flag).
J N	(Tentatively Identified Compounds) reported values are estimated concentrations of non-target analytes identified at greater than 10% of the nearest internal standard.
P	Difference between the two GC columns is greater than 40%.
QC2	Analyte out of acceptance range in QC spike but no reportable concentration present in sample.
QCR	Sample data reported for QC purposes only.
QM1	The spike recovery for this QC sample is outside of established control limits due to sample matrix interference.
QM2	The RPD and/or percent recovery for this QC spike sample cannot be accurately calculated due to the high concentration of analyte inherent in the sample.
QM5	The spike recovery was outside acceptance limits for the MS, MSD and/or PS due to matrix interference. The LCS and/or LCSD were within acceptance limits showing that the laboratory is in control and the data is acceptable.
QM7	The spike recovery was outside acceptance limits for the MS and/or MSD. The batch was accepted based on acceptable LCS recovery.
QM8	The spike recovery exceeded the QC control limits for the MS and/or MSD. The batch was accepted based upon acceptable PS and /or LCS recovery.
QM9	The spike recovery for this QC sample is outside the established control limits. The sample results for the QC batch were accepted based on LCS/LCSD or SRM recoveries within the control limits.
QR2	The RPD result exceeded the QC control limits; however, both percent recoveries were acceptable. Sample results for the QC batch were accepted based on percent recoveries and completeness of QC data.
QR5	RPD out of acceptance range.
QR6	The RPD exceeded the QC control limits; however precision is demonstrated with acceptable RPD values for MS/MSD.
QR9	RPD out of acceptance range. The batch is accepted based upon LCS and/or LCSD recovery.
R01	The Reporting Limit has been raised to account for matrix interference.
S02	The surrogate recovery for this sample cannot be accurately quantified due to interference from coeluting organic compounds present in the sample extract.
SDUP	Duplicate analysis confirmed surrogate failure due to matrix effects.
SGCMSVOCS	Surrogate recovery outside of control limits. The data was accepted based on valid recovery of the remaining surrogates with three required by program methods.
U	Analyte included in the analysis, but not detected at or above the MDL.
VOC8	Reporting limits reflect SW846 5035A High Level extraction technique due to interference and/or QC issues using SW846 5035A Low Level extraction technique.
Z-2	The spike recovery is outside the acceptance limits for the MS and/or MSD due to sample dilution. The batch was accepted based on the acceptable
Z-2a	The spike recovery is outside the acceptance limits for the MS and/or MSD due to sample dilution. The batch was accepted based on the acceptable LCS/LCSD recovery.
dry	Sample results reported on a dry weight basis
NR	Not Reported
RPD	Relative Percent Difference
[2C]	Indicates concentration was reported from the secondary, confirmation column.
DRO	DRO by SW846 8015D is calibrated using a Certified Reference Material of #2 Fuel Oil (Home Heating) standard.

This laboratory report is not valid without an authorized signature on the cover page.

GRO GRO by SW846 8015D is calibrated using a Certified Reference Material of Unleaded Gasoline standard, which contains all of the component analytes in the C6-C10 range.

Interpretation of Total Petroleum Hydrocarbon Report

Petroleum identification is determined by comparing the GC fingerprint obtained from the sample with a library of GC fingerprints obtained from analyses of various petroleum products. Possible match categories are as follows:

- Gasoline - includes regular, unleaded, premium, etc.
- Fuel Oil #2 - includes home heating oil, #2 fuel oil, and diesel
- Fuel Oil #4 - includes #4 fuel oil
- Fuel Oil #6 - includes #6 fuel oil and bunker "C" oil
- Motor Oil - includes virgin and waste automobile oil
- Ligroin - includes mineral spirits, petroleum naphtha, vm&p naphtha
- Aviation Fuel - includes kerosene, Jet A and JP-4
- Other Oil - includes lubricating and cutting oil, and silicon oil

At times, the unidentified petroleum product is quantified using a calibration that most closely approximates the distribution of compounds in the sample. When this occurs, the result is qualified as Calculated as.

Laboratory Control Sample (LCS): A known matrix spiked with compound(s) representative of the target analytes, which is used to document laboratory performance.

Matrix Duplicate: An intra-laboratory split sample which is used to document the precision of a method in a given sample matrix.

Matrix Spike: An aliquot of a sample spiked with a known concentration of target analyte(s). The spiking occurs prior to sample preparation and analysis. A matrix spike is used to document the bias of a method in a given sample matrix.

Method Blank: An analyte-free matrix to which all reagents are added in the same volumes or proportions as used in sample processing. The method blank should be carried through the complete sample preparation and analytical procedure. The method blank is used to document contamination resulting from the analytical process.

Method Detection Limit (MDL): The minimum concentration of a substance that can be measured and reported with 99% confidence that the analyte concentration is greater than zero and is determined from analysis of a sample in a given matrix type containing the analyte.

Reportable Detection Limit (RDL): The lowest concentration that can be reliably achieved within specified limits of precision and accuracy during routine laboratory operating conditions. For many analytes the RDL analyte concentration is selected as the lowest non-zero standard in the calibration curve. While the RDL is approximately 5 to 10 times the MDL, the RDL for each sample takes into account the sample volume/weight, extract/digestate volume, cleanup procedures and, if applicable, dry weight correction. Sample RDLs are highly matrix-dependent.

Surrogate: An organic compound which is similar to the target analyte(s) in chemical composition and behavior in the analytical process, but which is not normally found in environmental samples. These compounds are spiked into all blanks, standards, and samples prior to analysis. Percent recoveries are calculated for each surrogate.

Continuing Calibration Verification: The calibration relationship established during the initial calibration must be verified at periodic intervals. Concentrations, intervals, and criteria are method specific.



Spectrum Analytical

CHAIN OF CUSTODY RECORD

Special Handling:

☒ Standard TAT - 7 to 10 business days☐ Rush TAT - Date Needed: _____All TATs subject to laboratory approval
Min. 24-hr notification needed for rushes
Samples disposed after 30 days unless otherwise instructed.Page 1 of 3Report To: Roux Associates, Inc.Invoice To: Roux Associates, Inc.Project No: 0172.0210M01012 Gill St. Suite 470012 Gill St. Suite 4700Site Name: 351 Franklin St.Woburn MA 01801Woburn MA 01801Location: 351 Franklin St. Olean State, NY

Telephone #:

(781) 569-4000P.O. No.: 0172.0210M010 Quote #: 3882

Location:

Samples(s): S. Barrientos

Project Mgr:

Matthew Casey/Amey HoffmannP.O. No.: 0172.0210M010 Quote #: 3882

Location:

Samples(s): S. Barrientos

F=Field Filtered

1=Na₂S₂O₃

2=HCl

3=H₂SO₄4=HNO₃

5=NaOH

6=Ascorbic Acid

Quote #: 38827=CH₃OH8=NaHSO₄

9=Deionized Water

10=H₂PO₄

11=

12=

DW=Drinking Water

GW=Groundwater

SW=Surface Water

WW=Waste Water

O=Oil

SO=Soil

SL=Sludge

A=Indoor/Ambient Air

SG=Soil Gas

X1=

X2=

X3=

G=Grab

C=Composite

Lab ID:

Sample ID:

Date:

Time:

Type

Matrix

of VOA Vials

of Amber Glass

of Clear Glass

of Plastic

PCB

Pest/Herb.

SVOC 8270

W/TIC's

VOC 8260

W/TIC's

Metals

Total Solids

Ignitability

Reactivity

TPH

Check if chlorinated

QA/QC Reporting Notes:

Additional charges may apply

MA DEP MCP CAM Report? ☐ Yes ☐ NoCT DPH RCP Report? ☐ Yes ☐ NoStandard ☐ No QCDOA* ☐ NoASP A* ☐ NoASP B* ☐ NoNJ Reduced* ☐ NoTier II* ☐ NoTier IV* ☐ No

Other: NYDEC Cat. B

State-specific reporting standards:

Relinquished by:

Received by:

Date:

Time:

Temp °C

Condition upon receipt:

Custody Seals:

Present ☐ Intact ☐ BrokenAmbient ☐ Ice ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen ☐E-mail to: ahoffmann@rouxinc.comEDD format: Equis

Condition upon receipt:

Custody Seals:

Present ☐ Intact ☐ BrokenAmbient ☐ Ice ☐ Refrigerated ☐ DI VOA Frozen ☐ Soil Jar Frozen ☐E-mail to: ahoffmann@rouxinc.comEDD format: Equis

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ORIGIN ID:EHTA (781) 569-4033
HOTEL GUEST - SARA BARRIENTOS
HOLIDAY INN EXPRESS
101 MAIN ST

OLEAN, NY 14760
UNITED STATES US

SHIP DATE: 06DEC17
ACTWGT: 50.00 LB MAN
CAD: 0654830/CAFE3108

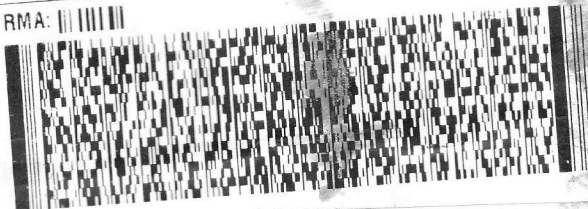
TO **ROBERT BRISTOL**
EUROFINS SPECTRUM ANALYTICAL, INC.
11 ALMGREN DRIVE

AGAWAM MA 01001

(413) 789-9018

REF: SAMPLE RETURN

RMA: ||| ||| |||



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TRK# 4200 2859 9120

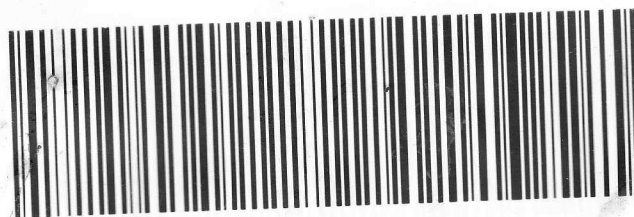
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MON - 18 DEC 10:30A
PRIORITY OVERNIGHT

K7 EHTA

01001

MA-US BDI



#1786519 12/15 549J1/574C/104C

1353/27/3/1/2/3/5

401000110101/17

#156297-435 BRDB EXP 09/18

ORIGIN ID:EHTA (781) 569-4033
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HOLIDAY INN EXPRESS
101 MAIN ST

OLEAN, NY 14760
UNITED STATES US

SHIP DATE: 06DEC17
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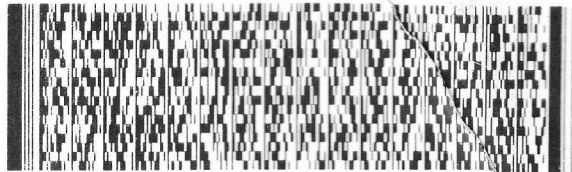
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EUROFINS SPECTRUM ANALYTICAL, INC.
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(413) 789-9018

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#1786519 12/15 549J1/574C/104C

SHIP DATE: 06DEC17
ACTWGT: 50.00 LB MAN
CAD: 0654830/CAFE3108

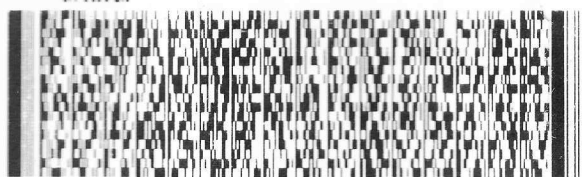
ACCY/EEGAC/EEGAC

AGAWAM MA 01001

(413) 789-9018

REF: SAMPLE RETURN

RMA: ||| |||| |||



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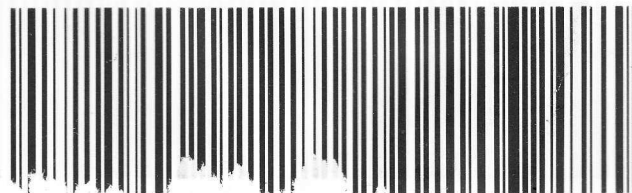
K7 EHTA

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Part # 156148V-434 RHT2-11/15 :.



EXP 09/18



Spectrum Analytical

CHAIN OF CUSTODY RECORD

Page 3 of 3

Special Handling:

- ☒ Standard TAT - 7 to 10 business days
- ☐ Rush TAT - Date Needed: _____
- All TATs subject to laboratory approval
- Min. 24-hr notification needed for rushes
- Samples disposed after 30 days unless otherwise instructed.

Report To: <u>Roux Associates, Inc.</u> <u>12 Gill St Suite 4700</u> <u>Woburn MA 01801</u>		Invoice To: <u>Roux Associates, Inc.</u> <u>12 Gill St Suite 4700</u> <u>Woburn MA 01801</u>		Project No: <u>0172.02101010</u>		Site Name: <u>351 Franklin</u>		Location: <u>351 Franklin St, Olean</u>		State: <u>NY</u>									
Telephone #: <u>(781) 569-4000</u>		P.O. No: <u>0172.02101010</u>		Quote #: <u>3882</u>		Sample(s): <u>G. Van der Veen</u>		S. Barrientos											
Project Mgr: <u>Army Hoffmann</u>		F=Field Filtered 1=Na ₂ S ₂ O ₃ 2=HCl 3=H ₂ SO ₄ 4=HNO ₃ 5=NaOH 6=Ascorbic Acid		11= <u>None</u> 12= _____		List Preservative Code below:		QA/QC Reporting Notes: * additional charges may apply											
DW=Drinking Water GW=Groundwater SW=Surface Water WW=Waste Water		O=Oil SO=Soil SL=Sludge A=Indoor/Ambient Air SG=Soil Gas		XI= _____ X2= _____ X3= _____															
G=Grab		C=Composite																	
Lab ID:	Sample ID:	Date:	Time:	Type	Matrix	# of VOA Vials	# of Amber Glass	# of Clear Glass	# of Plastic	PCB	Pest/Herb	SVOC 8270 w/TICS	VOC 8260 w/TICS	Metals *	Total Solids	Ignitability reactivity	TPH **	Check if chlorinated	MA DEP MCP CAM Report? ☐ Yes ☐ No CT DPH RCP Report? ☐ Yes ☐ No Standard ☐ No QC ☐ DOA* ☐ ASP A* ☐ ASP B* ☐ NJ Reduced* ☐ NJ Full* ☐ Tier II* ☐ Tier IV* Other: <u>Cat. B</u> State-specific reporting standards: _____
SL42515-1	SS-019	12/14/17	11:20	C	So	3	2	0	0	X	X	X	X	X	X	X	X	☐	Herb Patch & debris
22	SS-020	12/14/17	11:40	C	So	3	2	0	0	X	X	X	X	X	X	X	X	☐	MS/MSD
23	SS-021	12/14/17	12:00	C	So	3	2	0	0	X	X	X	X	X	X	X	X	☐	RIE/AB
24	SS-022	12/14/17	12:15	C	So	3	2	0	0	X	X	X	X	X	X	X	X	☐	DRD + GAO
25	SS-023	12/14/17	12:40	C	So	3	2	0	0	X	X	X	X	X	X	X	X	☐	NY BOLS for check
26	SS-024	12/14/17	13:00	C	So	3	2	0	0	X	X	X	X	X	X	X	X	☐	for 12/10
Relinquished by: _____		Received by: _____		Date: _____		Time: _____		Temp °C		Observed		Corrected		Condition upon receipt: _____		Custody Seals: ☐ Present ☐ Intact ☐ Broken			
Suva Barrientos		FedEx		12/15/17		0920				Observed		Corrected		Condition upon receipt: _____		Custody Seals: ☐ Present ☐ Intact ☐ Broken			
FedEx										Observed		Corrected		Condition upon receipt: _____		Custody Seals: ☐ Present ☐ Intact ☐ Broken			

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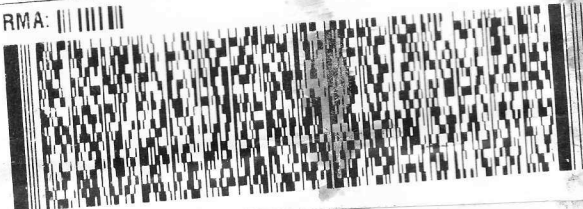
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11 ALMGREN DRIVE

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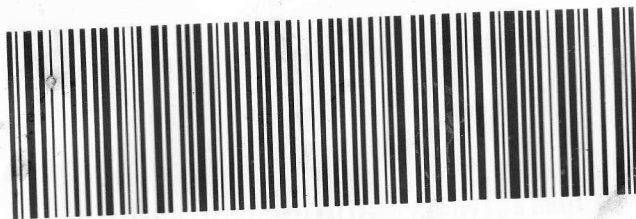
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TRK# 4200 2859 9120
0221

K7 EHTA

MON - 18 DEC 10:30A
PRIORITY OVERNIGHT

0100
MA-US BDI



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01002919101217
#156297-435 BRDB EXP 09/18

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OLEAN, NY 14760
UNITED STATES US

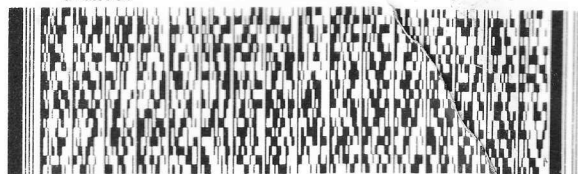
TO **ROBERT BRISTOL**
EUROFINS SPECTRUM ANALYTICAL, INC.
11 ALMGREN DRIVE

AGAWAM MA 01001

(413) 789-9018

REF: SAMPLE RETURN

RMA: ||| |||| |||



FedEx
Express



FedEx

TRK# 4200 2859 9108
0221

K7 EHTA

MON - 18 DEC 10:30A
PRIORITY OVERNIGHT

01001

MA-US

BDL



#1786519 12/15 549J1/574C/104C

ORIGIN ID:EHTA (781) 569-4033
HOTEL GUEST - SARA BARRIENTOS
HOLIDAY INN EXPRESS
101 MAIN ST

SHIP DATE: 06DEC17
ACTWGT: 50.00 LB MAN
CAD: 0654830/CAFE3108

OLEAN, NY 14760
UNITED STATES US

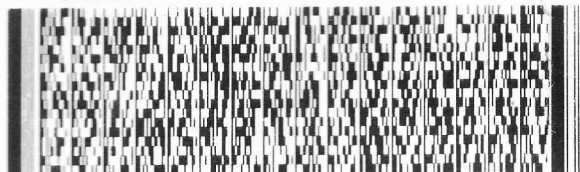
TO **ROBERT BRISTOL**
EUROFINS SPECTRUM ANALYTICAL, INC.
11 ALMGREN DRIVE

AGAWAM MA 01001

(413) 789-9018

REF: SAMPLE RETURN

RMA: 



FedEx
Express



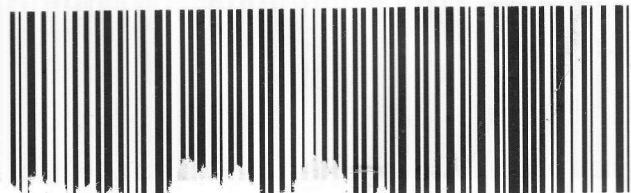
FedEx

TRK# 4200 2859 9119
0221

MON - 18 DEC 10:30A
PRIORITY OVERNIGHT

K7 EHTA

01001
MA-US BDL



Part # 156148V-434 RT2 11/15

#156297-435 BRD EXP 09/18

This preceding chain of custody has been amended to include the client requested additional analyses as noted below:

<i>Laboratory ID</i>	<i>Client ID</i>	<i>Analysis</i>	<i>Added</i>
SC42525-01	SS-001	Diesel Range Organics	12/19/2017
SC42525-01	SS-001	Gasoline Range Organics	12/19/2017
SC42525-02	SS-002	Diesel Range Organics	12/19/2017
SC42525-02	SS-002	Gasoline Range Organics	12/19/2017
SC42525-03	SS-003	Diesel Range Organics	12/19/2017
SC42525-03	SS-003	Gasoline Range Organics	12/19/2017
SC42525-04	SS-FD	Diesel Range Organics	12/19/2017
SC42525-04	SS-FD	Gasoline Range Organics	12/19/2017
SC42525-05	SS-004	Diesel Range Organics	12/19/2017
SC42525-05	SS-004	Gasoline Range Organics	12/19/2017
SC42525-06	SS-005	Diesel Range Organics	12/19/2017
SC42525-06	SS-005	Gasoline Range Organics	12/19/2017
SC42525-07	SS-006	Diesel Range Organics	12/19/2017
SC42525-07	SS-006	Gasoline Range Organics	12/19/2017
SC42525-08	SS-007	Diesel Range Organics	12/19/2017
SC42525-08	SS-007	Gasoline Range Organics	12/19/2017
SC42525-09	SS-008	Diesel Range Organics	12/19/2017
SC42525-09	SS-008	Gasoline Range Organics	12/19/2017
SC42525-10	SS-009	Diesel Range Organics	12/19/2017
SC42525-10	SS-009	Gasoline Range Organics	12/19/2017
SC42525-11	SS-010	Diesel Range Organics	12/19/2017
SC42525-11	SS-010	Gasoline Range Organics	12/19/2017
SC42525-12	SS-011	Diesel Range Organics	12/19/2017
SC42525-12	SS-011	Gasoline Range Organics	12/19/2017
SC42525-13	SS-012	Diesel Range Organics	12/19/2017
SC42525-13	SS-012	Gasoline Range Organics	12/19/2017
SC42525-14	SS-013	Diesel Range Organics	12/19/2017
SC42525-14	SS-013	Gasoline Range Organics	12/19/2017
SC42525-15	SS-014	Diesel Range Organics	12/19/2017
SC42525-15	SS-014	Gasoline Range Organics	12/19/2017
SC42525-16	SS-015	Diesel Range Organics	12/19/2017
SC42525-16	SS-015	Gasoline Range Organics	12/19/2017
SC42525-17	SS-FD	Diesel Range Organics	12/19/2017
SC42525-17	SS-FD	Gasoline Range Organics	12/19/2017
SC42525-18	SS-016	Diesel Range Organics	12/19/2017
SC42525-18	SS-016	Gasoline Range Organics	12/19/2017
SC42525-19	SS-017	Diesel Range Organics	12/19/2017
SC42525-19	SS-017	Gasoline Range Organics	12/19/2017
SC42525-20	SS-018	Diesel Range Organics	12/19/2017
SC42525-20	SS-018	Gasoline Range Organics	12/19/2017
SC42525-21	SS-019	Diesel Range Organics	12/19/2017

This preceding chain of custody has been amended to include the client requested additional analyses as noted below:

<i>Laboratory ID</i>	<i>Client ID</i>	<i>Analysis</i>	<i>Added</i>
SC42525-21	SS-019	Gasoline Range Organics	12/19/2017
SC42525-22	SS-020	Diesel Range Organics	12/19/2017
SC42525-22	SS-020	Gasoline Range Organics	12/19/2017
SC42525-23	SS-021	Diesel Range Organics	12/19/2017
SC42525-23	SS-021	Gasoline Range Organics	12/19/2017
SC42525-24	SS-022	Diesel Range Organics	12/19/2017
SC42525-24	SS-022	Gasoline Range Organics	12/19/2017
SC42525-25	SS-023	Diesel Range Organics	12/19/2017
SC42525-25	SS-023	Gasoline Range Organics	12/19/2017
SC42525-26	SS-024	Diesel Range Organics	12/19/2017
SC42525-26	SS-024	Gasoline Range Organics	12/19/2017

Batch Summary

1720888

General Chemistry Parameters

1720888-DUP2

SC42525-01 (SS-001)

SC42525-02 (SS-002)

SC42525-03 (SS-003)

SC42525-04 (SS-FD)

SC42525-05 (SS-004)

SC42525-06 (SS-005)

SC42525-07 (SS-006)

SC42525-08 (SS-007)

SC42525-09 (SS-008)

SC42525-10 (SS-009)

SC42525-11 (SS-010)

SC42525-12 (SS-011)

1720896

General Chemistry Parameters

1720896-DUP1

1720896-DUP2

SC42525-13 (SS-012)

SC42525-14 (SS-013)

SC42525-15 (SS-014)

SC42525-16 (SS-015)

SC42525-17 (SS-FD)

SC42525-18 (SS-016)

SC42525-19 (SS-017)

SC42525-20 (SS-018)

SC42525-21 (SS-019)

SC42525-22 (SS-020)

SC42525-23 (SS-021)

SC42525-24 (SS-022)

SC42525-25 (SS-023)

SC42525-26 (SS-024)

1720970

Toxicity Characteristics

1720970-DUP1

SC42525-01 (SS-001)

SC42525-02 (SS-002)

SC42525-03 (SS-003)

SC42525-04 (SS-FD)

SC42525-05 (SS-004)

SC42525-06 (SS-005)

SC42525-07 (SS-006)

SC42525-08 (SS-007)

SC42525-09 (SS-008)

SC42525-10 (SS-009)

SC42525-11 (SS-010)

SC42525-12 (SS-011)

SC42525-13 (SS-012)

SC42525-14 (SS-013)

SC42525-15 (SS-014)

SC42525-16 (SS-015)

SC42525-17 (SS-FD)

SC42525-18 (SS-016)

SC42525-19 (SS-017)

SC42525-20 (SS-018)

1720972

Toxicity Characteristics

1720972-DUP1

SC42525-21 (SS-019)

SC42525-22 (SS-020)

SC42525-23 (SS-021)

SC42525-24 (SS-022)

SC42525-25 (SS-023)

SC42525-26 (SS-024)

1721007

Semivolatile Organic Compounds by GC

1721007-BLK1

1721007-BS1

1721007-BSD1

1721007-MS1

1721007-MSD1

SC42525-21 (SS-019)

SC42525-22 (SS-020)

SC42525-23 (SS-021)

SC42525-24 (SS-022)

SC42525-25 (SS-023)

SC42525-26 (SS-024)

1721023

Semivolatile Organic Compounds by GCMS

1721023-BLK1

1721023-BS1

1721023-BSD1

1721023-DUP1

1721023-MS1

1721023-MSD1

SC42525-21 (SS-019)

SC42525-22 (SS-020)

SC42525-23 (SS-021)

SC42525-24 (SS-022)

SC42525-25 (SS-023)

SC42525-26 (SS-024)

1721025**Extractable Petroleum Hydrocarbons**

1721025-BLK1
1721025-BS1
1721025-BSD1
1721025-DUP1
1721025-MS1
1721025-MSD1
SC42525-21 (SS-019)
SC42525-22 (SS-020)
SC42525-23 (SS-021)
SC42525-24 (SS-022)
SC42525-25 (SS-023)
SC42525-26 (SS-024)

1721032**Herbicides**

1721032-BLK1
1721032-BS1
1721032-BS2
1721032-BSD1
1721032-BSD2
SC42525-01 (SS-001)
SC42525-02 (SS-002)
SC42525-03 (SS-003)
SC42525-04 (SS-FD)
SC42525-05 (SS-004)

1721038**Volatile Organic Compounds**

1721038-BLK1
1721038-BS1
1721038-BSD1
1721038-DUP1
1721038-MS1
1721038-MSD1
SC42525-01 (SS-001)
SC42525-02 (SS-002)
SC42525-03 (SS-003)
SC42525-04 (SS-FD)
SC42525-05 (SS-004)
SC42525-06 (SS-005)
SC42525-07 (SS-006)
SC42525-08 (SS-007)
SC42525-09 (SS-008)
SC42525-10 (SS-009)
SC42525-11 (SS-010)

1721045**Volatile Organic Compounds**

1721045-BLK1
1721045-BS1
1721045-BSD1
1721045-MS1

1721045-MSD1
SC42525-11 (SS-010)

1721061**Toxicity Characteristics**

1721061-BLK1
1721061-DUP1
1721061-SRM1
1721061-SRM2
SC42525-01 (SS-001)
SC42525-02 (SS-002)
SC42525-03 (SS-003)
SC42525-04 (SS-FD)
SC42525-05 (SS-004)
SC42525-06 (SS-005)
SC42525-07 (SS-006)
SC42525-08 (SS-007)
SC42525-09 (SS-008)
SC42525-10 (SS-009)
SC42525-11 (SS-010)
SC42525-12 (SS-011)
SC42525-13 (SS-012)
SC42525-14 (SS-013)
SC42525-15 (SS-014)
SC42525-16 (SS-015)
SC42525-17 (SS-FD)
SC42525-18 (SS-016)
SC42525-19 (SS-017)
SC42525-20 (SS-018)

1721116**Pesticides**

1721116-BLK1
1721116-BS1
1721116-BSD1
1721116-DUP1
1721116-MS1
1721116-MSD1
SC42525-01 (SS-001)
SC42525-02 (SS-002)
SC42525-03 (SS-003)
SC42525-04 (SS-FD)
SC42525-05 (SS-004)
SC42525-06 (SS-005)
SC42525-07 (SS-006)
SC42525-08 (SS-007)
SC42525-09 (SS-008)
SC42525-10 (SS-009)
SC42525-11 (SS-010)
SC42525-12 (SS-011)
SC42525-13 (SS-012)
SC42525-14 (SS-013)
SC42525-15 (SS-014)
SC42525-16 (SS-015)
SC42525-17 (SS-FD)
SC42525-18 (SS-016)
SC42525-19 (SS-017)
SC42525-20 (SS-018)

1721117**Semivolatile Organic Compounds by GC**

1721117-BLK1
1721117-BS1
1721117-BSD1
1721117-DUP1
1721117-MS1
1721117-MSD1
SC42525-01 (SS-001)
SC42525-02 (SS-002)
SC42525-03 (SS-003)
SC42525-04 (SS-FD)
SC42525-05 (SS-004)
SC42525-06 (SS-005)
SC42525-07 (SS-006)
SC42525-08 (SS-007)
SC42525-09 (SS-008)
SC42525-10 (SS-009)
SC42525-11 (SS-010)
SC42525-12 (SS-011)
SC42525-13 (SS-012)
SC42525-14 (SS-013)
SC42525-15 (SS-014)
SC42525-16 (SS-015)
SC42525-17 (SS-FD)
SC42525-18 (SS-016)

SC42525-19 (SS-017)
SC42525-20 (SS-018)

1721132**Volatile Organic Compounds**

1721132-BLK1
1721132-BS1
1721132-BSD1
SC42525-01 (SS-001)
SC42525-02 (SS-002)
SC42525-04 (SS-FD)
SC42525-05 (SS-004)
SC42525-06 (SS-005)
SC42525-07 (SS-006)
SC42525-08 (SS-007)
SC42525-09 (SS-008)

1721203**Total Metals by EPA 6000/7000 Series Methods**

1721203-BLK1
1721203-DUP1
1721203-MS1
1721203-MSD1
1721203-PS1
1721203-SRM1
1721203-SRM2
SC42525-01 (SS-001)
SC42525-02 (SS-002)
SC42525-03 (SS-003)
SC42525-04 (SS-FD)
SC42525-05 (SS-004)
SC42525-06 (SS-005)
SC42525-07 (SS-006)
SC42525-08 (SS-007)
SC42525-09 (SS-008)
SC42525-10 (SS-009)
SC42525-11 (SS-010)
SC42525-12 (SS-011)
SC42525-13 (SS-012)
SC42525-14 (SS-013)
SC42525-15 (SS-014)
SC42525-16 (SS-015)
SC42525-17 (SS-FD)
SC42525-18 (SS-016)
SC42525-19 (SS-017)
SC42525-20 (SS-018)

1721204**Total Metals by EPA 6000/7000 Series Methods**

1721204-BLK1
1721204-DUP1
1721204-MS1
1721204-MSD1
1721204-PS1
1721204-SRM1
SC42525-01 (SS-001)
SC42525-02 (SS-002)
SC42525-03 (SS-003)
SC42525-04 (SS-FD)
SC42525-05 (SS-004)
SC42525-06 (SS-005)
SC42525-07 (SS-006)
SC42525-08 (SS-007)
SC42525-09 (SS-008)
SC42525-10 (SS-009)
SC42525-12 (SS-011)
SC42525-13 (SS-012)
SC42525-14 (SS-013)
SC42525-15 (SS-014)
SC42525-16 (SS-015)
SC42525-17 (SS-FD)
SC42525-18 (SS-016)
SC42525-19 (SS-017)
SC42525-20 (SS-018)

1721206**Semivolatile Organic Compounds by GCMS**

1721206-BLK1
1721206-BS1
1721206-BSD1
1721206-DUP1
1721206-MS1
1721206-MSD1
SC42525-01 (SS-001)
SC42525-02 (SS-002)
SC42525-03 (SS-003)
SC42525-04 (SS-FD)
SC42525-05 (SS-004)
SC42525-06 (SS-005)
SC42525-07 (SS-006)
SC42525-08 (SS-007)
SC42525-09 (SS-008)
SC42525-10 (SS-009)
SC42525-11 (SS-010)
SC42525-12 (SS-011)
SC42525-13 (SS-012)
SC42525-14 (SS-013)
SC42525-15 (SS-014)
SC42525-16 (SS-015)
SC42525-17 (SS-FD)
SC42525-18 (SS-016)
SC42525-19 (SS-017)

SC42525-20 (SS-018)

1721207**Extractable Petroleum Hydrocarbons**

1721207-BLK1
1721207-BS1
1721207-BSD1
1721207-DUP1
1721207-MS1
1721207-MSD1
SC42525-01 (SS-001)
SC42525-02 (SS-002)
SC42525-03 (SS-003)
SC42525-04 (SS-FD)
SC42525-05 (SS-004)
SC42525-06 (SS-005)
SC42525-07 (SS-006)
SC42525-08 (SS-007)
SC42525-09 (SS-008)
SC42525-10 (SS-009)
SC42525-11 (SS-010)
SC42525-12 (SS-011)
SC42525-13 (SS-012)
SC42525-14 (SS-013)
SC42525-15 (SS-014)
SC42525-16 (SS-015)
SC42525-17 (SS-FD)
SC42525-18 (SS-016)
SC42525-19 (SS-017)
SC42525-20 (SS-018)

1721214**Volatile Organic Compounds**

1721214-BLK1
1721214-BS1
1721214-BSD1
SC42525-10 (SS-009)
SC42525-11RE1 (SS-010)
SC42525-12 (SS-011)
SC42525-13 (SS-012)
SC42525-14 (SS-013)
SC42525-15 (SS-014)
SC42525-16 (SS-015)
SC42525-17 (SS-FD)
SC42525-18 (SS-016)

1721215**Volatile Organic Compounds**

1721215-BLK1
1721215-BS1
1721215-BSD1
1721215-MS1
1721215-MSD1
SC42525-03 (SS-003)
SC42525-22 (SS-020)

1721219**Volatile Organic Compounds**

1721219-BLK1
1721219-BS1
1721219-BSD1
1721219-DUP1
1721219-MS1
1721219-MSD1
SC42525-12 (SS-011)
SC42525-13 (SS-012)
SC42525-14 (SS-013)
SC42525-15 (SS-014)
SC42525-16 (SS-015)
SC42525-17 (SS-FD)
SC42525-18 (SS-016)
SC42525-19 (SS-017)
SC42525-20 (SS-018)
SC42525-21 (SS-019)
SC42525-22 (SS-020)
SC42525-23 (SS-021)
SC42525-24 (SS-022)
SC42525-25 (SS-023)
SC42525-26 (SS-024)

1721256**Toxicity Characteristics**

1721256-BLK1
1721256-DUP1
1721256-SRM1
1721256-SRM2
SC42525-21 (SS-019)
SC42525-22 (SS-020)
SC42525-23 (SS-021)
SC42525-24 (SS-022)
SC42525-25 (SS-023)
SC42525-26 (SS-024)

1721260**Herbicides**

1721260-BLK1
1721260-BS1
1721260-BS2
1721260-BSD1
1721260-BSD2

1721260-DUP1
1721260-MS1
1721260-MSD1
SC42525-06 (SS-005)
SC42525-07 (SS-006)
SC42525-08 (SS-007)
SC42525-09 (SS-008)
SC42525-10 (SS-009)
SC42525-12 (SS-011)
SC42525-13 (SS-012)
SC42525-14 (SS-013)
SC42525-15 (SS-014)
SC42525-16 (SS-015)
SC42525-17 (SS-FD)
SC42525-18 (SS-016)
SC42525-19 (SS-017)
SC42525-20 (SS-018)
SC42525-21 (SS-019)
SC42525-23 (SS-021)
SC42525-24 (SS-022)
SC42525-25 (SS-023)

1721296**Volatile Organic Compounds**

1721296-BLK1
1721296-BS1
1721296-BSD1
SC42525-19 (SS-017)
SC42525-20 (SS-018)
SC42525-21 (SS-019)
SC42525-22RE1 (SS-020)
SC42525-23 (SS-021)
SC42525-24 (SS-022)
SC42525-25 (SS-023)
SC42525-26 (SS-024)

1721339**Total Metals by EPA 6000/7000 Series Methods**

1721339-BLK1
1721339-DUP1
1721339-MS1
1721339-MSD1
1721339-PS1
1721339-SRM1
1721339-SRM2
SC42525-21 (SS-019)
SC42525-22 (SS-020)
SC42525-23 (SS-021)
SC42525-24 (SS-022)
SC42525-25 (SS-023)
SC42525-26 (SS-024)

1721340**Total Metals by EPA 6000/7000 Series Methods**

1721340-BLK1
1721340-DUP1
1721340-MS1
1721340-MSD1
1721340-PS1
1721340-SRM1
SC42525-21 (SS-019)
SC42525-23 (SS-021)
SC42525-24 (SS-022)
SC42525-25 (SS-023)
SC42525-26 (SS-024)

1721358**Pesticides**

1721358-BLK1
1721358-BS1
1721358-BSD1
SC42525-21 (SS-019)
SC42525-23 (SS-021)
SC42525-24 (SS-022)
SC42525-25 (SS-023)
SC42525-26 (SS-024)

1721359**Herbicides**

1721359-BLK1
1721359-BS1
1721359-BS2
1721359-BSD1
1721359-BSD2
SC42525-26 (SS-024)

1800083**Total Metals by EPA 6000/7000 Series Methods**

1800083-BLK1
1800083-DUP1
1800083-MS1
1800083-MSD1
1800083-PS1
1800083-SRM1
1800083-SRM2
SC42525-21 (SS-019)
SC42525-22 (SS-020)
SC42525-23 (SS-021)
SC42525-24 (SS-022)
SC42525-25 (SS-023)
SC42525-26 (SS-024)

1800219**Pesticides**

1800219-BLK1
1800219-BS1

1800219-BSD1
1800219-DUP1
1800219-MS1
1800219-MSD1
SC42525-23RE1 (SS-021)
SC42525-24RE1 (SS-022)

1800406**Total Metals by EPA 6000/7000 Series Methods**

1800406-BLK1
1800406-DUP1
1800406-MS1
1800406-MSD1
1800406-PS1
1800406-SRM1
1800406-SRM2
SC42525-01 (SS-001)
SC42525-02 (SS-002)
SC42525-03 (SS-003)
SC42525-04 (SS-FD)
SC42525-05 (SS-004)
SC42525-06 (SS-005)
SC42525-07 (SS-006)
SC42525-08 (SS-007)
SC42525-09 (SS-008)
SC42525-10 (SS-009)
SC42525-11 (SS-010)
SC42525-12 (SS-011)
SC42525-13 (SS-012)
SC42525-14 (SS-013)
SC42525-15 (SS-014)
SC42525-16 (SS-015)
SC42525-17 (SS-FD)
SC42525-18 (SS-016)
SC42525-19 (SS-017)
SC42525-20 (SS-018)

S602716**Extractable Petroleum Hydrocarbons**

S602716-CAL1
S602716-CAL2
S602716-CAL3
S602716-CAL4
S602716-CAL5
S602716-CAL6
S602716-CAL7
S602716-CAL8
S602716-CAL9
S602716-CALA
S602716-CALB
S602716-CALC
S602716-CALD
S602716-CALE
S602716-CALF
S602716-ICV1
S602716-ICV2
S602716-LCV1
S602716-LCV2

S709504**Volatile Organic Compounds**

S709504-CAL1
S709504-CAL2
S709504-CAL3
S709504-CAL4
S709504-CAL5
S709504-CAL6
S709504-CAL7
S709504-ICV1
S709504-LCV1

S710314**Volatile Organic Compounds**

S710314-CAL1
S710314-CAL2
S710314-CAL3
S710314-CAL4
S710314-CAL5
S710314-CAL6
S710314-CAL7
S710314-CAL8
S710314-CAL9
S710314-ICV1
S710314-LCV1
S710314-LCV2
S710314-TUN1

S710445**Semivolatile Organic Compounds by GC**

S710445-CAL1
S710445-CAL2

S710445-CAL3
S710445-CAL4
S710445-CAL5
S710445-CAL6
S710445-CAL7
S710445-CAL8
S710445-CAL9
S710445-CALA
S710445-CALB
S710445-CALC
S710445-CALD
S710445-CALE
S710445-CALF
S710445-CALG
S710445-CALH
S710445-CALI
S710445-CALJ
S710445-CALK
S710445-CALL
S710445-CALM
S710445-CALN
S710445-CALO
S710445-CALP
S710445-CALQ
S710445-CALR
S710445-CALS
S710445-CALT
S710445-CALU
S710445-ICV1
S710445-ICV2
S710445-ICV3
S710445-ICV4
S710445-ICV5
S710445-ICV6
S710445-LCV1
S710445-LCV2
S710445-LCV3
S710445-LCV4
S710445-LCV5
S710445-LCV6

S710689**Volatile Organic Compounds**

S710689-CAL1
S710689-CAL2
S710689-CAL3
S710689-CAL4
S710689-CAL5
S710689-CAL6
S710689-CAL7
S710689-CAL8
S710689-CAL9
S710689-ICV1
S710689-LCV1
S710689-LCV2
S710689-LCV3
S710689-TUN1

S710951**Herbicides**

S710951-CAL1
S710951-CAL2
S710951-CAL3
S710951-CAL4
S710951-CAL5
S710951-CAL6
S710951-CAL7
S710951-CAL8
S710951-CAL9
S710951-CALA
S710951-ICV1
S710951-ICV2
S710951-LCV1
S710951-LCV2

S710998**Volatile Organic Compounds**

S710998-CCV1
S710998-TUN1

S711002**Volatile Organic Compounds**

S711002-CCV1
S711002-CCV2

S711008**Semivolatile Organic Compounds by GCMS**

S711008-CAL1
S711008-CAL2
S711008-CAL3
S711008-CAL4
S711008-CAL5
S711008-CAL6
S711008-CAL7
S711008-CAL8

S711008-CAL9
S711008-CALA
S711008-ICV1
S711008-LCV1
S711008-LCV2
S711008-TUN1

S711036**Volatile Organic Compounds**

S711036-CCV1
S711036-TUN1

S711037**Extractable Petroleum Hydrocarbons**

S711037-CCV1
S711037-CCV2

S711042**Semivolatile Organic Compounds by GC**

S711042-CCV1
S711042-CCV2
S711042-IBL1
S711042-IBL2

S711050**Semivolatile Organic Compounds by GC**

S711050-CCV1
S711050-CCV2
S711050-CCV3
S711050-IBL1
S711050-IBL2
S711050-IBL3

S711056**Volatile Organic Compounds**

S711056-CCV1
S711056-TUN1

S711057**Volatile Organic Compounds**

S711057-CCV1
S711057-TUN1

S711059**Volatile Organic Compounds**

S711059-CCV1
S711059-CCV2

S711104**Volatile Organic Compounds**

S711104-CCV1
S711104-TUN1

S711128**Semivolatile Organic Compounds by GCMS**

S711128-CCV1

S711128-TUN1

S815579**Semivolatile Organic Compounds by GCMS**

S815579-CCV1

S815579-TUN1

S815586**Extractable Petroleum Hydrocarbons**

S815586-CCV1

S815586-CCV2

S815586-CCV3

S815593**Semivolatile Organic Compounds by GC**

S815593-CCV1

S815593-CCV2

S815593-CCV3

S815593-CCV4

S815593-CCV6

S815593-IBL1

S815593-IBL2

S815593-IBL3

S815594**Semivolatile Organic Compounds by GC**

S815594-CCV1

S815594-CCV2

S815594-CCV3

S815594-IBL1

S815594-IBL2

S815599**Pesticides**

S815599-CAL1

S815599-CAL2

S815599-CAL3

S815599-CAL4

S815599-CAL5

S815599-CAL6

S815599-CAL7

S815599-CAL8

S815599-CAL9

S815599-CALA

S815599-CALB

S815599-CALC

S815599-CALD

S815599-CALE

S815599-CALF

S815599-ICV1

S815599-ICV2

S815599-ICV3

S815599-LCV1

S815599-LCV2

S815599-LCV3

S815619**Total Metals by EPA 6000/7000 Series Methods**

S815619-SRD1

S815620**Semivolatile Organic Compounds by GCMS**

S815620-CCV1

S815620-TUN1

S815623**Semivolatile Organic Compounds by GCMS**

S815623-CCV1

S815623-TUN1

S815628**Semivolatile Organic Compounds by GCMS**

S815628-CCV1

S815628-TUN1

S815639**Semivolatile Organic Compounds by GCMS**

S815639-CCV1

S815639-TUN1

S815692**Herbicides**

S815692-CCV1

S815692-CCV2

S815692-CCV3

S815692-CCV4

S815692-CCV5

S815692-CCV6

S815692-CCV7

S815692-CCV8

S815692-IBL1

S815692-IBL2

S815692-IBL3

S815692-IBL4

S815699**Pesticides**

S815699-CCV1
S815699-CCV2
S815699-CCV3
S815699-CCV4
S815699-CCV5
S815699-CCV6
S815699-CCV7
S815699-CCV8
S815699-CCV9
S815699-IBL1
S815699-IBL2
S815699-IBL3
S815699-PEM1
S815699-PEM2
S815699-PEM3

S815700**Pesticides**

S815700-CCV1
S815700-CCV2
S815700-CCV3
S815700-CCV4
S815700-CCV5
S815700-CCV6
S815700-IBL1
S815700-IBL2
S815700-PEM1
S815700-PEM2

S815732**Herbicides**

S815732-CCV1
S815732-CCV2
S815732-CCV3
S815732-CCV4
S815732-CCV5
S815732-CCV6
S815732-IBL1
S815732-IBL2
S815732-IBL3

S815764**Herbicides**

S815764-CCV1
S815764-CCV2
S815764-CCV3
S815764-CCV4
S815764-IBL1
S815764-IBL2

S815821**Pesticides**

S815821-CCV1
S815821-CCV2
S815821-CCV3
S815821-CCV4
S815821-CCV5
S815821-CCV6
S815821-IBL1
S815821-IBL2
S815821-PEM1
S815821-PEM2

S815835**Pesticides**

S815835-CCV1
S815835-CCV2
S815835-CCV3
S815835-CCV4
S815835-CCV5
S815835-CCV6
S815835-IBL1
S815835-IBL2
S815835-PEM2

S815898**Total Metals by EPA 6000/7000 Series Methods**

S815898-SRD1

S815956**Total Metals by EPA 6000/7000 Series Methods**

S815956-SRD1