



**BARNSTABLE MUNICIPAL AIRPORT  
BOARDMAN-POLANDO FIELD**

480 BARNSTABLE ROAD, 2ND FLOOR

HYANNIS, MA 02601

[www.town.barnstable.ma.us](http://www.town.barnstable.ma.us)



Office: 508-775-2020  
508-775-2020

R.W. "Bud" Breault, Jr., Airport Manager  
R. W. Breault, Jr., Airport Manager

Barnstable Municipal  
Airport Commission:

John T. Griffin, Jr.,  
Chairman

Timothy R. Luzietti,  
Vice Chairman

Robert L. O'Brien,  
Clerk

Mary F. Smith,  
Commissioner

Stephen P. Cobb,  
Commissioner

Elizabeth Young,  
Commissioner

James DellaMorte,  
Commissioner

November 10, 2017

Gerard M.R. Martin  
Deputy Regional Director  
Bureau of Waste Site Cleanup  
Massachusetts Department of Environmental Protection  
Southeast Regional Office  
20 Riverside Drive  
Lakeville, MA 02347

**Re: Request for Information/Interim Deadline RTN 4-0026347**

Dear Mr. Martin;

The following is in response to the Request for Information (RFI) pursuant to M.G.L. c 21E and 310 CMR 40.0000 et seq. dated October 27, 2017 sent to the Barnstable Municipal Airport. The attached response follows the outline of the information requests in Attachment A and the instructions for the response in Attachment B of the RFI.

Please let me know if you have any questions regarding the information provided.

Sincerely,

R.W. "Bud" Breault, Jr.  
Airport Manager  
Barnstable Municipal Airport

CC: Katie R. Servis, Assistant Airport Manager  
Mark Ells, Town Manager, Barnstable  
Ruth Weil, Town Attorney, Barnstable  
Anderson & Kreiger, LLP  
Mark Nelson, Horsley Witten Group, Inc.

## Information Provided in Response to October 27, 2017 Request for Information

The Airport provides the following responses to the questions contained in Attachment A of the Request for Information (RFI). The responses to each question are summarized below and expanded upon in four attachments provided by those involved in the Runway 15/33 reconstruction project, including:

- 11 page summary provided by Lawrence Lynch Corp. that provides details on the excavation process;
- Email from Jacobs Engineering that provides information on the phasing of the excavation process and supplements the information provided by Lawrence Lynch;
- April 25, 2017 letter from Green Seal Environmental to Lawrence Lynch describing the soil sampling and analysis conducted on the materials excavated as part of the runway reconstruction project; and
- November 8, 2017 letter from Green Seal Environmental that provides information in response to question 5 of Attachment A.

1. *Using a site plan, please identify the areas from which soil was removed from the airport during the storm water construction activities. Please provide the following with respect to the soil removal:*

- a. *The name of the person(s) and his/her/their affiliation who is/was managing the excavation, stockpiling and removal of the soil;*

The runway reconstruction process was conducted at the request of the Airport by Lawrence Lynch Corp. following the design developed by Jacobs Engineering (Figure 1). The following contacts are provided:

### Lawrence Lynch – Site Contractor

Frank Trubiano  
John Santos  
Chris Lynch  
Lawrence Lynch Corp.  
396 Gifford Street  
Falmouth, MA 02540  
508-548-1800

### Green Seal Environmental, Inc. – LSP Services for Lawrence Lynch

Richard P. Geisler, P.G., LSP  
Green Seal Environmental, Inc.  
114 State Road, Building B  
Sagamore, MA 02562  
(508) 888-6034

Jacobs Engineering, Inc. – Site Designer, Construction Oversight  
Jason Homiak  
Jacobs  
Two Executive Park Drive, Suite 205  
Bedford, NH 03110  
(603) 518-1790

- b. The date range for which all soil removal activities occurred. If the soil removal activities are on-going at the time of receipt of this Request for Information, please state such and indicate an estimated date of completion;*

According to information provided by Lawrence Lynch (Attachment A) and Jacobs Engineering (Attachment B), the overall project began in March, 2017 and ended in Late September/early October 2017. Currently, there still approximately 3,000 to 5,000 cubic yards of excavated sand and gravel stored at the Airport, at the location of the former Mildred's Restaurant. There are no current plans to move this material. No further soil excavation is planned as the reconstruction project is complete.

- c. The locations where soil was removed (depicted on a site plan);*

Figure 1 identifies the specific areas where soil was excavated from unpaved alongside Runway 15/33. The area of excavation extends approximately 50 feet beyond the paved runway to each side. All topsoil within the area of excavation was stored on site and reused upon completion of final grading. Additional topsoil was imported to the Airport from off-site sources to finalize the landscaping of the areas adjacent to the reconstructed runway. The areas where offsite topsoil was used are summarized in Figure 2.

- d. The volumes of soil that were removed from each location at the site;*

As explained by Lawrence Lynch in Attachment A, approximately 100,000 to 110,000 cubic yards of soil was excavated and removed from the runway redevelopment area shown in Figure 1.

- e. The storage locations (depicted on a site plan) for the soil piles, if applicable, prior to removal off-site, and the dates that the soil was stockpiled and then removed from the site. If soil was immediately loaded onto vehicles, please state such;*

Attachments A and B summarize the sediment excavation and stockpiling process that was used throughout the project. A significant portion of the material was trucked directly to Cape Cod Aggregates, 1550 Phinneys Lane, Hyannis, 02630, where the majority of the material remains today. Other portions were stockpiled at two staging areas prior to delivery to Cape Cod Aggregates; adjacent to Gate C at the site of the

former Mildred's Restaurant, and at the western end of Runway 15/33, adjacent to Independence Drive. In total approximately 85,000 to 95,000 cubic yards of sediment was delivered to Cape Cod Aggregates. The remainder went to other locations, including the Lombard field site as explained in the response to questions 1g and 1h below.

*f. The manner in which the stockpiled soil was stored (on poly, under poly, etc.);*

Sand and gravel was stored on the ground with no liner above or below it. Green Seal Environmental tested the soil on behalf of Lawrence Lynch, and they reported that the soil did not contain hazardous materials above reportable concentrations based on the analyses they conducted (Attachment C).

*g. The dates and locations (specific addresses and depicted on a site plan) to where the soil was transported; and*

*h. The volume of soil that was transported to each location.*

Answers to questions g and h are provided together to clearly state how soil from the Airport was managed. The stockpiling and delivery of material to offsite locations is summarized in Attachment A.

Most of the sediment, approximately 85,000 to 95,000 cubic yards of material was delivered to Cape Cod Aggregates. Most of this material remains at Cape Cod Aggregates with no immediate plans for its reuse. The Horsley Witten Group (HW) met with Cape Cod Aggregates and learned that approximately 80,000 cubic yards of material remains on their property.

HW also researched the reported transport of soil to a ball field/parking lot construction site at the Lombard property in West Barnstable, Massachusetts which the Town is currently redeveloping. According to Town officials, material was delivered directly from the Airport to the site but not used in the construction process. The material did not meet the grain size specifications for use in the project and was therefore rejected. HW contacted Greg Morris of GFM contractors to learn where the soil from the airport was taken when it left the Lombard Site. Mr. Morris stated the five truckloads constituting all of the material from the Airport was combined with approximately 95 other truckloads of silt and clay from the ball field site and delivered to a P.A. Landers facility in Sandwich where it was deposited as fill because it was not suitable for processing and reuse at other sites. None of the material from the Airport remains at the Lombard site.

*2. Please provide copies of any Bills of Lading and/or Manifests used for the soil transport and disposal.*

The airport is not aware of any Bills of Lading or Manifests used for soil transport. According to Lawrence Lynch (Attachment A) they did not use any bills of Lading or Manifests to track the sediment; this approach is typical where the soil did not test positive for any hazardous materials.

- 3. Please provide any analytical data that was generated as part of this soil removal project, including soil samples collected prior to any excavation, soil samples collected in excavated areas, soil sample collected from soil stockpiles and soil samples collected from the soil used as fill throughout the town*

Attachment C provides the summary of the sediment analyses conducted by Green Seal Environmental for the material excavated at the Airport. Attachment D provides additional detail on the materials tested by Green Seal.

- 4. Please provide any information pertaining to any other current and/or future soil excavation/remediation activities at BMA. Specifically, provide information pertaining to any soil analytical data, at what portion of BMA the soil is/will be removed, and how the soil will be disposed/reused.*

The Airport is considering the removal of PFAS impacted soil from two disposal sites where historic airport training and firefighting foam use has been identified. These are shown on Figure 3. The purpose of the removal will be to reduce potential leaching of PFAS compounds to groundwater. HW has conducted soil sampling in these areas as summarized in the Second Immediate Response Action Status Report submitted in November 2017 and the Phase 1 Report and Tier Classification document submitted to DEP on November 10, 2017. Further sampling in these two areas is needed to define the depth of contamination and to confirm the outer boundaries of the soil removal area adjacent to the existing sampling locations. Once the volume of soil to be removed is confirmed, the Airport will excavate this material and ship it to an appropriate location under a Bill of Lading. The Airport will coordinate this removal through an Imminent Response Action with DEP, and will work with DEP to identify an appropriate disposal location. It should be noted that these areas are inside of the Airport security fencing and not accessible by the public.

There are no other imminent plans for soil excavation at the Airport. In the near future, the design process for the redevelopment of the second Airport runway will begin to upgrade it to meet FAA design requirements. The ongoing work related to PFAS compounds will be used to identify how the excavated sediments will be managed.

- 5. MassDEP was provided with a copy of an April 25, 2017 letter from Green Seal Environmental to Lawrence Lynch Corporation which described soil stockpile sampling. The second paragraph of the letter states "...GSE divided the soil stockpiles into eight smaller areas identified as Area-1 through Area-8." MassDEP is requesting clarification of this statement and of the remainder of the letter.*

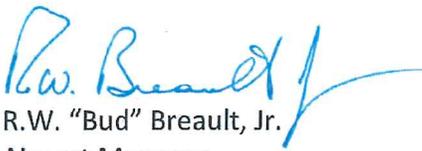
*a. Does the information in this letter represent all the soil that has been or will be removed as part of the storm water construction activities along the runway systems or does the information in the letter represent a smaller subset of the soil that will be removed? If this letter represents a subset of the soil, please provide any subsequent soil analytical data generated for the soil removal activities.*

*b. Please provide a site plan labeling the area from where the soil referenced in this letter was removed. If these locations are the same locations as requested above, please reference such in your response.*

The November 8, 2017 letter from Green Seal Environmental (Attachment D) provides the information requested in questions 5a and 5b. Sediment stockpiles were tested both at the Airport and at the Cape Cod Aggregates facility.

**Certification of Submittal:**

"I certify under the penalties of law that I have personally examined and am familiar with the information contained in this submittal, including any and all documents accompanying the certification, and that, based upon my inquiry of those individuals immediately responsible for obtaining the information, the material information contained herein is, to the best of my knowledge and belief, true, accurate, and complete. I am aware that there are significant penalties, including but not limited to, possible fines and imprisonment, for willfully submitting false, inaccurate, or incomplete information."



R.W. "Bud" Breault, Jr.  
Airport Manager  
Barnstable Municipal Airport

Date: 11/9/2017

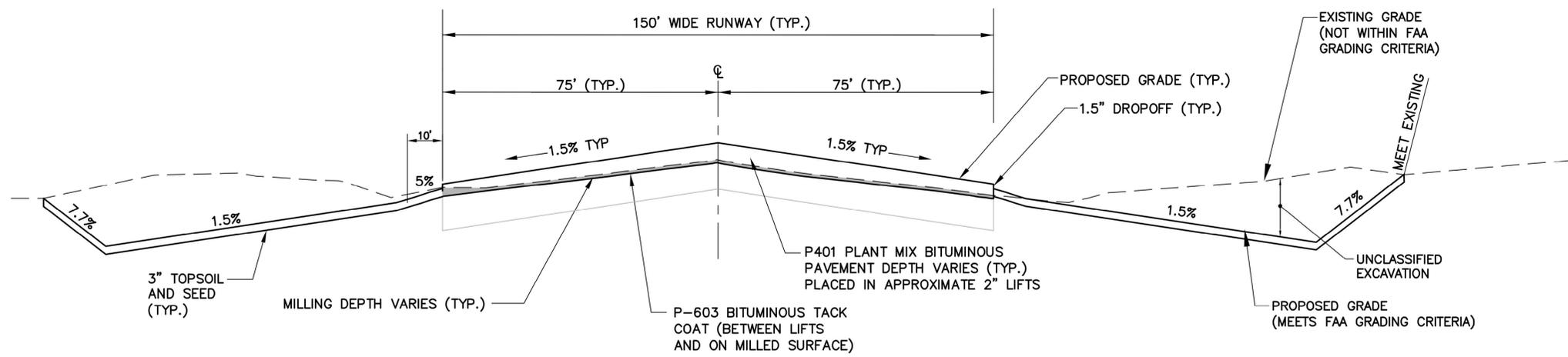


## FIGURES

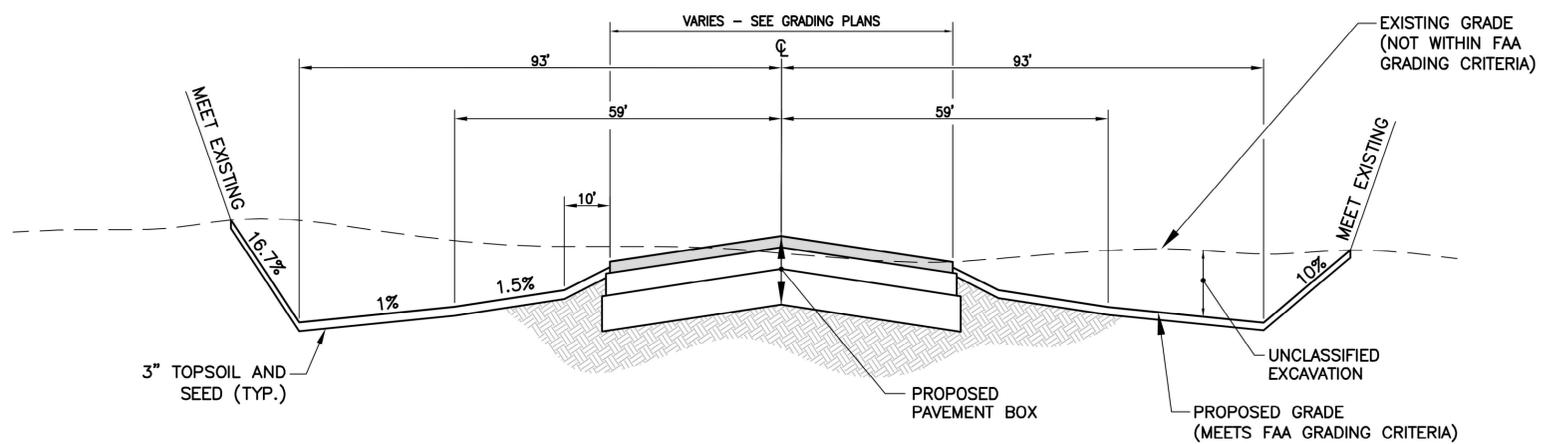
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**NOTES:**

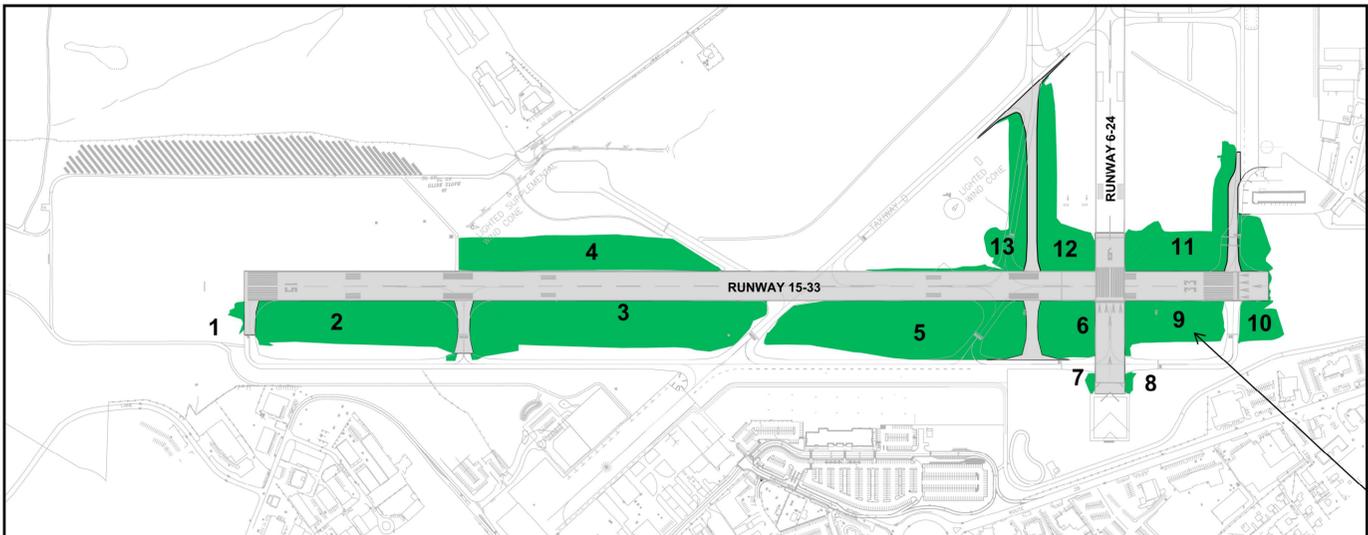
1. GRADING CRITERIA MEETS FAA ADVISORY CIRCULAR 150/5300-13A, LATEST EDITION.



**RUNWAY TYPICAL SECTION**



**TAXIWAY TYPICAL SECTION**



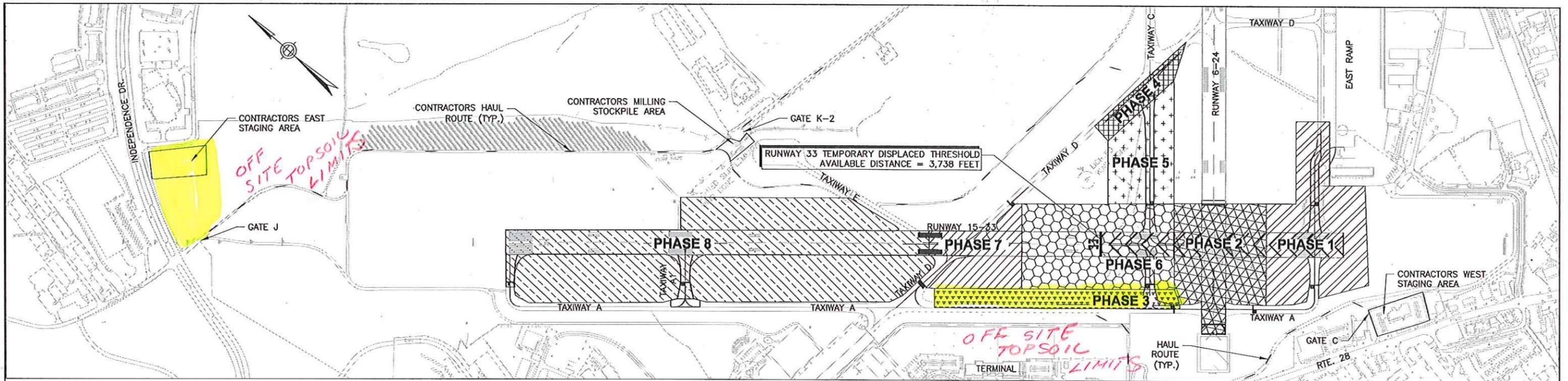
**PROJECT PLAN**

**FIGURE 1**

|  |                              |
|--|------------------------------|
| TOWN OF BARNSTABLE                                     |                              |
| BARNSTABLE MUNICIPAL AIRPORT<br>HYANNIS, MASSACHUSETTS |                              |
| <b>TYPICAL SECTIONS</b>                                |                              |
| <b>JACOBS</b>  |                              |
| DES. BY: JRH   | DWG. NO.: SK-1               |
| DWN. BY: CNP   |                              |
| CHKD. BY: SJF  |                              |
| SHEET NO. XX OF  | SCALE: AS NOTED   DATE: 4/16 |

SUBMITTED BY:  
JACOBS

| NO. | REVISIONS | BY | APP. | DATE |
|-----|-----------|----|------|------|
|     |           |    |      |      |
|     |           |    |      |      |



**GENERAL PHASING PLAN**

SCALE: 1"=300'

210 TOTAL CALENDAR DAYS (BASE BID AND ADD ALTERNATE 1)  
 160 TOTAL CALENDAR DAYS (BASE BID, ADD ALTERNATE 1 & ADD ALTERNATE 2)  
 ANTICIPATED NOTICE TO PROCEED OF SEPTEMBER 6, 2016

**PHASE 1**

- 35 CALENDAR DAYS
- HOURS: MONDAY-FRIDAY, 7AM-3PM

**PHASE 1 AIRFIELD IMPACTS**

- TAXIWAY B CLOSED BETWEEN RUNWAY 15-33 AND EAST RAMP
- RUNWAY 33 CLOSED BETWEEN RUNWAY 6-24 AND RUNWAY 33 APPROACH
- DISPLACED THRESHOLD INSTALLED ON RUNWAY 15-33 AT TAXIWAY C

**MAJOR ITEMS OF WORK IN PHASE 1 INCLUDE:**

- RE-ALIGN AND RECONSTRUCT A PORTION OF TAXIWAY B
- MILL AND OVERLAY A PORTION OF RUNWAY 15-33 EAST OF RUNWAY 6-24
- INSTALL RUNWAY 33 TEMPORARY DISPLACED THRESHOLD

**PHASE 2**

- 4 CALENDAR DAYS
- HOURS: MONDAY 10PM-FRIDAY 9AM (83 HOUR EXTENDED SHIFT)

**PHASE 2 AIRFIELD IMPACTS**

- RUNWAY 6-24 CLOSED
- RUNWAY 33 CLOSED BETWEEN RUNWAY 6-24 AND RUNWAY 33 APPROACH
- DISPLACED THRESHOLD REMAINS ON RUNWAY 15-33 AT TAXIWAY C
- TAXIWAY A CLOSED BETWEEN TAXIWAY C AND RUNWAY 33
- TAXIWAY B CLOSED BETWEEN RUNWAY 15-33 AND EAST RAMP

**MAJOR ITEMS OF WORK IN PHASE 2 INCLUDE:**

- MILL AND OVERLAY RUNWAY 15-33 AND RUNWAY 6-24 INTERSECTION
- INSTALL NEW RUNWAY 33 PAPI INFRASTRUCTURE

**PHASE 3**

- 14 CALENDAR DAYS
- HOURS: MONDAY-FRIDAY, 7AM-3PM

**PHASE 3 AIRFIELD IMPACTS**

- TAXIWAY A CLOSED BETWEEN TAXIWAY C AND RUNWAY 33
- RUNWAY 33 CLOSED BETWEEN RUNWAY 6-24 AND RUNWAY 33 APPROACH

**MAJOR ITEMS OF WORK IN PHASE 3 INCLUDE:**

- RE-ALIGN AND RECONSTRUCT A PORTION OF TAXIWAY C BETWEEN RUNWAY 15-33 AND TAXIWAY A
- REMOVE EXISTING TAXIWAY C BETWEEN RUNWAY 15-33 AND TAXIWAY A
- REPLACE EXISTING TAXIWAY A EDGE LIGHTS

**PHASE 4**

- 4 CALENDAR DAYS
- HOURS: MONDAY 7AM - FRIDAY 3PM (104 HOUR EXTENDED SHIFT)

**PHASE 4 AIRFIELD IMPACTS**

- TAXIWAY C CLOSED BETWEEN TAXIWAY A AND TAXIWAY D
- TAXIWAY D CLOSED BETWEEN RUNWAY 15-33 AND RUNWAY 6-24

**MAJOR ITEMS OF WORK IN PHASE 4 INCLUDE:**

- RE-ALIGN AND RECONSTRUCT A PORTION OF TAXIWAY C (WITHIN TAXIWAY D TSA)
- REMOVE EXISTING TAXIWAY C WITHIN TAXIWAY D TSA

**PHASE 5**

- 30 CALENDAR DAYS
- HOURS: MONDAY-FRIDAY, 7AM-3PM
- WINTER SHUTDOWN ANTICIPATED

**PHASE 5 AIRFIELD IMPACTS**

- TAXIWAY C CLOSED BETWEEN TAXIWAY D AND RUNWAY 15-33

**MAJOR ITEMS OF WORK IN PHASE 5 INCLUDE:**

- RE-ALIGN AND RECONSTRUCT A PORTION OF TAXIWAY C BETWEEN RUNWAY 15-33 AND TAXIWAY D
- REMOVE EXISTING TAXIWAY C BETWEEN RUNWAY 15-33 AND TAXIWAY D

**PHASE 6**

- 30 CALENDAR DAYS
- 15 CALENDAR DAYS (IF, ADD ALTERNATE #1 IS AWARDED)
- HOURS: MONDAY-FRIDAY, 7AM-3PM
- HOURS: MONDAY-FRIDAY, 3PM-11PM (IF ADD ALTERNATE #1 IS AWARDED)

**PHASE 6 AIRFIELD IMPACTS**

- TAXIWAY C CLOSED BETWEEN TAXIWAY A AND TAXIWAY D
- RUNWAY 15-33 CLOSED

**MAJOR ITEMS OF WORK IN PHASE 6 INCLUDE:**

- MILL AND OVERLAY A PORTION OF RUNWAY 15-33
- REMOVE EXISTING TAXIWAY C WITHIN RUNWAY 15-33 SAFETY AREA
- REALIGN AND CONSTRUCT A PORTION OF TAXIWAY C (WITHIN RUNWAY 15 RSA)
- INFIELD GRADING BETWEEN RUNWAY 15-33 AND TAXIWAY A

**PHASE 7**

- 18 CALENDAR DAYS
- 5 CALENDAR DAYS (IF, ADD ALTERNATE #1 IS AWARDED)
- HOURS: MONDAY-FRIDAY, 7AM-3PM
- HOURS: MONDAY-FRIDAY, 3PM-11PM (IF, ADD ALTERNATE #1 IS AWARDED)

**PHASE 7 AIRFIELD IMPACTS**

- RUNWAY 15-33 CLOSED
- TAXIWAY D CLOSED BETWEEN TAXIWAY A AND TAXIWAY C
- TAXIWAY A BETWEEN TAXIWAY RUNWAY 15 AND TAXIWAY D
- TAXIWAY A1
- TAXIWAY E

**MAJOR ITEMS OF WORK IN PHASE 7 INCLUDE:**

- MILL AND OVERLAY A PORTION OF RUNWAY 15-33

**PHASE 8**

- 45 CALENDAR DAYS
- 23 CALENDAR DAYS (IF, ADD ALTERNATE #1 IS AWARDED)
- HOURS: MONDAY-FRIDAY, 7AM-3PM
- HOURS: MONDAY-FRIDAY, 3PM-11PM (IF, ADD ALTERNATE #1 IS AWARDED)

**PHASE 8 AIRFIELD IMPACTS**

- TAXIWAY A BETWEEN TAXIWAY RUNWAY 15 AND TAXIWAY D
- RUNWAY 15-33 CLOSED
- TAXIWAY A1
- TAXIWAY E

**MAJOR ITEMS OF WORK IN PHASE 8 INCLUDE:**

- MILL AND OVERLAY A PORTION OF RUNWAY 15-33
- RECONSTRUCT TAXIWAY A AND A1 STUBS WITHIN RUNWAY 15-33 RSA
- INFIELD GRADING BETWEEN RUNWAY 15-33 AND TAXIWAY A

**PHASE 9**

- 30 CALENDAR DAYS
- HOURS: MONDAY-FRIDAY, 7AM-3PM (DAY WORK)
- HOURS: MONDAY-FRIDAY, 10PM-6AM (NIGHT WORK)

**PHASE 9 AIRFIELD IMPACTS**

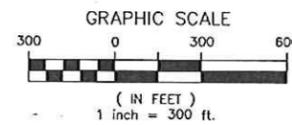
- MISCELLANEOUS CLOSURES (SEE DETAILED PHASING PLANS)

**MAJOR ITEMS OF WORK IN PHASE 9 INCLUDE:**

- GROVE AND PAINT RUNWAY 15-33 AND A PORTION OF RUNWAY 6
- INSTALL NEW BACK-UP GENERATOR INSIDE AIRFIELD VAULT
- P-608 APPLICATION
- SECOND APPLICATION OF PAVEMENT MARKINGS (45 DAYS)
- REPAINT RUNWAY 6-24 (FULL LENGTH)

**GENERAL PHASING NOTES**

- UNLESS OTHERWISE NOTED, ALL WORK SHOWN IN A DISTINCT PHASE SHALL BE 100% COMPLETED IN ITS ENTIRETY AND ALL WORK ACCEPTED BY THE ENGINEER BEFORE THE NEXT PHASE CAN BE STARTED. PHASES DESIGNATED TO BE WORKED ON CONCURRENTLY, AS INDICATED, SHALL BE COMPLETED AND ACCEPTED WITHIN THE ALLOCATED DURATION FOR THE PHASE PRIOR TO STARTING THE NEXT PHASE. PHASES 4 AND 5 CAN BE CONSTRUCTED CONCURRENTLY. PHASES 6 AND 8 CAN BE CONSTRUCTED CONCURRENTLY.
- PRIOR TO APPLYING PAVEMENT MARKINGS, THE MARKING LAYOUT SHALL BE APPROVED BY THE ENGINEER. REMOVAL OF TEMPORARY AND EXISTING MARKINGS DURING THE VARIOUS CONSTRUCTION PHASES SHALL BE AS APPROVED/DIRECTED BY THE ENGINEER.
- BARRICADES SHALL BE PLACED CONTINUOUSLY AROUND THE ENTIRE PERIMETER OF EACH ACTIVE CONSTRUCTION PHASE OR AS DIRECTED BY THE AIRPORT.



SUBMITTED BY:

JACOBS



**FIGURE 2**

TOWN OF BARNSTABLE  
 BARNSTABLE MUNICIPAL AIRPORT  
 HYANNIS, MASSACHUSETTS

**GENERAL PHASING PLAN AND NOTES**

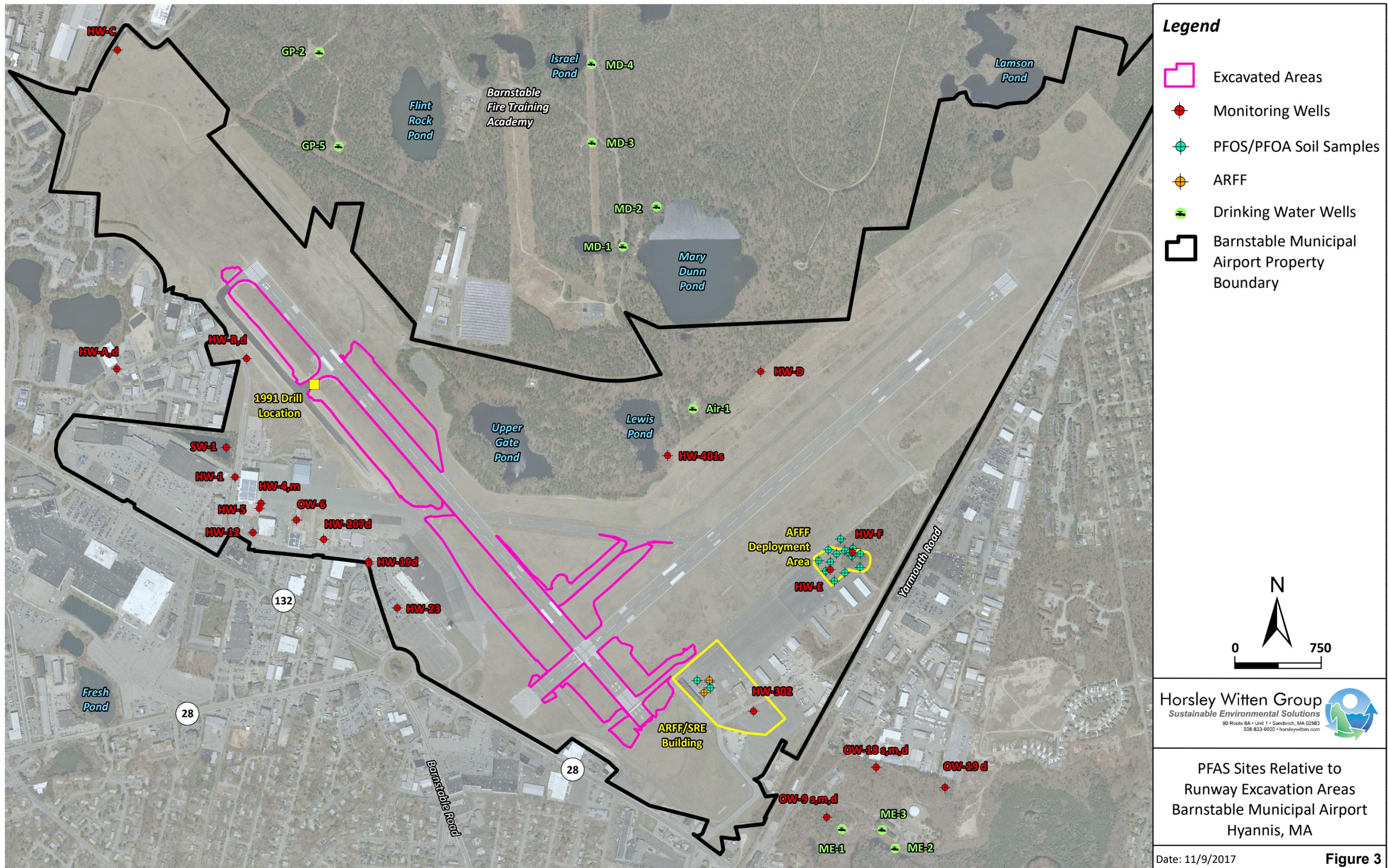
**JACOBS**

DES. BY: JRH  
 DWN. BY: CNP  
 CHKD. BY: SJF  
 SHEET NO. 4 of 120 SCALE: AS NOTED DATE: 4/16

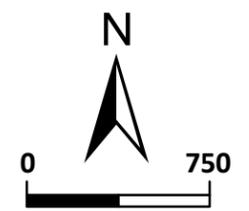
DWG. NO.:

G-003

| NO. | REVISIONS | BY | APP. | DATE |
|-----|-----------|----|------|------|
|     |           |    |      |      |
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|     |           |    |      |      |



- Legend**
- Excavated Areas
  - Monitoring Wells
  - PFOS/PFOA Soil Samples
  - ARFF
  - Drinking Water Wells
  - Barnstable Municipal Airport Property Boundary



Horsley Witten Group  
 Sustainable Environmental Solutions  
 90 Route 6A • Unit 1 • Sandwich, MA 02563  
 508-833-6600 • horsleywitten.com

PFAS Sites Relative to  
 Runway Excavation Areas  
 Barnstable Municipal Airport  
 Hyannis, MA

Date: 11/9/2017 Figure 3

\*Imagery - MassGIS 2014

ATTACHMENT A  
Lawrence Lynch Summary

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**ATTACHMENT A**

**ITEM 1.a.**

Lawrence Lynch Response:

Frank Trubiano, Project Manager – Lawrence Lynch Corp.

John Santos, Superintendent – Lawrence Lynch Corp

Christopher M. Lynch – Lawrence Lynch Corp.

## ATTACHMENT A

### ITEM 1.b.

#### Lawrence Lynch Response:

The date range for which all soil removal activities occurred was approximately March 7, 2017 to September 30, 2017. All excavation is completed. The only remaining surplus excavated material is stockpiled on site at the West Staging Area (3,000 CY's – 5,000 CY's). Date of removal of the remaining material is TBD.

**ATTACHMENT A**

**ITEM 1.c.**

Lawrence Lynch Response:

Attached is a drawing titled Typical Sections prepared by Jacobs showing the areas shaded in green where soil was excavated & removed as part of the Runway 15-33 Reconstruction Project.



**ATTACHMENT A**

**ITEM 1.d.**

Lawrence Lynch Response:

Lawrence Lynch Corp.'s best estimate for the Total Volume of Soil removed from the site (Sketch 1.c.) is approximately 100,000 – 110,000 CY's.

## ATTACHMENT A

### ITEM 1.e.

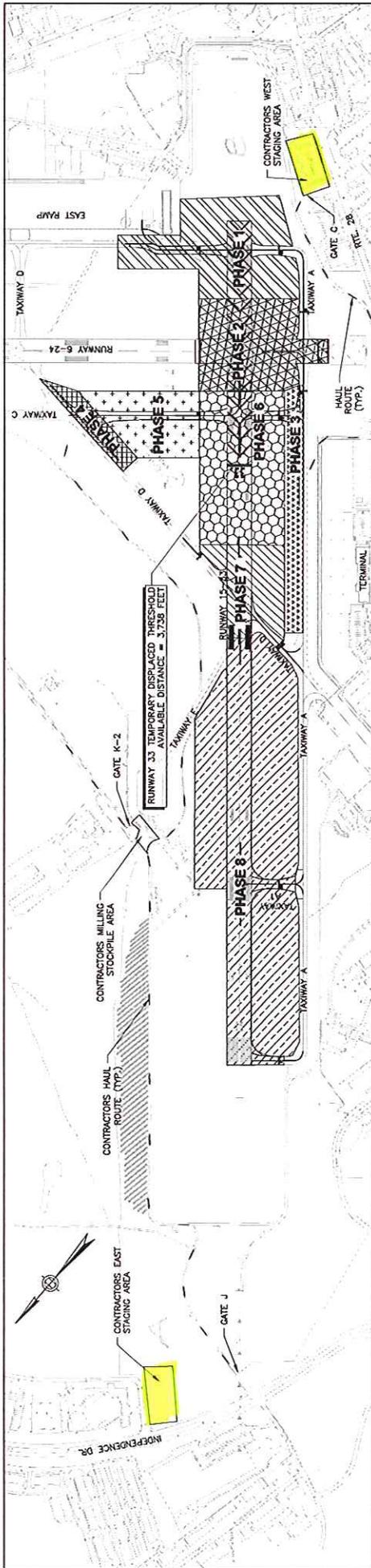
Lawrence Lynch Response:

Attached is a drawing showing the location of on-site stockpiles of excavated material prior to the removal from site. They are labeled as Contractor's East Staging Area located on Airport property in the vicinity of Gate J and Contractor's West Staging Area located on Airport property at Gate C.

The East Staging Area was used for Stockpiling surplus excavated materials prior to removal from site from approximately May 15, 2017 to September 30, 2017. Currently there is no material remaining at this location.

The West Staging Area was used beginning March 1, 2017 and currently there is approximately 3,000 to 5,000 CY's of surplus excavated material being stored at this location.

From approximately March 7, 2017 to May 15, 2017 most of the surplus soils were loaded directly onto vehicles for disposal off site. From May 15, 2017 to August 31, 2017 surplus soils were loaded directly onto vehicles for disposal off site as well as Stockpiled as needed to support excavation.



**GENERAL PHASING PLAN**

210 TOTAL CALENDAR DAYS (BASE BID AND ADD ALTERNATE 1)  
 160 TOTAL CALENDAR DAYS (BASE BID, ADD ALTERNATE 1 & ADD ALTERNATE 2)  
 ANTICIPATED NOTICE TO PROCEED OF SEPTEMBER 6, 2016

SCALE: 1"=300'

CONTRACTORS MILLING STOCKPILE AREA

CONTRACTORS EAST STAGING AREA

CONTRACTORS WEST STAGING AREA

CONTRACTORS HAIL ROUTE (TYP.)

CONTRACTORS MILLING STOCKPILE AREA

CONTRACTORS EAST STAGING AREA

CONTRACTORS WEST STAGING AREA

CONTRACTORS HAIL ROUTE (TYP.)

CONTRACTORS MILLING STOCKPILE AREA

CONTRACTORS EAST STAGING AREA

CONTRACTORS WEST STAGING AREA

CONTRACTORS HAIL ROUTE (TYP.)

CONTRACTORS MILLING STOCKPILE AREA

CONTRACTORS EAST STAGING AREA

CONTRACTORS WEST STAGING AREA

CONTRACTORS HAIL ROUTE (TYP.)

CONTRACTORS MILLING STOCKPILE AREA

CONTRACTORS EAST STAGING AREA

CONTRACTORS WEST STAGING AREA

CONTRACTORS HAIL ROUTE (TYP.)

CONTRACTORS MILLING STOCKPILE AREA

CONTRACTORS EAST STAGING AREA

CONTRACTORS WEST STAGING AREA

CONTRACTORS HAIL ROUTE (TYP.)

CONTRACTORS MILLING STOCKPILE AREA

CONTRACTORS EAST STAGING AREA

CONTRACTORS WEST STAGING AREA

CONTRACTORS HAIL ROUTE (TYP.)

CONTRACTORS MILLING STOCKPILE AREA

CONTRACTORS EAST STAGING AREA

CONTRACTORS WEST STAGING AREA

CONTRACTORS HAIL ROUTE (TYP.)

CONTRACTORS MILLING STOCKPILE AREA

**PHASE 1**

- 35 CALENDAR DAYS
- HOURS: MONDAY-FRIDAY, 7AM-3PM

**PHASE 2**

- 18 CALENDAR DAYS
- 5 CALENDAR DAYS (IF, ADD ALTERNATE #1 IS AWARDED)
- HOURS: MONDAY-FRIDAY, 7AM-3PM
- HOURS: MONDAY-FRIDAY, 3PM-11PM (IF, ADD ALTERNATE #1 IS AWARDED)

**PHASE 3**

- 30 CALENDAR DAYS
- HOURS: MONDAY-FRIDAY, 7AM-3PM (DAY WORK)
- HOURS: MONDAY-FRIDAY, 10PM-6AM (NIGHT WORK)

**PHASE 4**

- 15 CALENDAR DAYS (IF, ADD ALTERNATE #1 IS AWARDED)
- HOURS: MONDAY-FRIDAY, 7AM-3PM
- HOURS: MONDAY-FRIDAY, 3PM-11PM (IF, ADD ALTERNATE #1 IS AWARDED)

**PHASE 5**

- 30 CALENDAR DAYS
- HOURS: MONDAY-FRIDAY, 7AM-3PM
- HOURS: MONDAY-FRIDAY, 10PM-6AM

**PHASE 6**

- 30 CALENDAR DAYS
- HOURS: MONDAY-FRIDAY, 7AM-3PM (DAY WORK)
- HOURS: MONDAY-FRIDAY, 10PM-6AM (NIGHT WORK)

**PHASE 7**

- 18 CALENDAR DAYS
- 5 CALENDAR DAYS (IF, ADD ALTERNATE #1 IS AWARDED)
- HOURS: MONDAY-FRIDAY, 7AM-3PM
- HOURS: MONDAY-FRIDAY, 3PM-11PM (IF, ADD ALTERNATE #1 IS AWARDED)

**PHASE 8**

- 30 CALENDAR DAYS
- HOURS: MONDAY-FRIDAY, 7AM-3PM (DAY WORK)
- HOURS: MONDAY-FRIDAY, 10PM-6AM (NIGHT WORK)

**PHASE 9**

- 30 CALENDAR DAYS
- HOURS: MONDAY-FRIDAY, 7AM-3PM (DAY WORK)
- HOURS: MONDAY-FRIDAY, 10PM-6AM (NIGHT WORK)

**PHASE 10**

- 30 CALENDAR DAYS
- HOURS: MONDAY-FRIDAY, 7AM-3PM (DAY WORK)
- HOURS: MONDAY-FRIDAY, 10PM-6AM (NIGHT WORK)

**PHASE 11**

- 30 CALENDAR DAYS
- HOURS: MONDAY-FRIDAY, 7AM-3PM (DAY WORK)
- HOURS: MONDAY-FRIDAY, 10PM-6AM (NIGHT WORK)

**PHASE 12**

- 30 CALENDAR DAYS
- HOURS: MONDAY-FRIDAY, 7AM-3PM (DAY WORK)
- HOURS: MONDAY-FRIDAY, 10PM-6AM (NIGHT WORK)

**PHASE 13**

- 30 CALENDAR DAYS
- HOURS: MONDAY-FRIDAY, 7AM-3PM (DAY WORK)
- HOURS: MONDAY-FRIDAY, 10PM-6AM (NIGHT WORK)

**PHASE 14**

- 30 CALENDAR DAYS
- HOURS: MONDAY-FRIDAY, 7AM-3PM (DAY WORK)
- HOURS: MONDAY-FRIDAY, 10PM-6AM (NIGHT WORK)

**PHASE 15**

- 30 CALENDAR DAYS
- HOURS: MONDAY-FRIDAY, 7AM-3PM (DAY WORK)
- HOURS: MONDAY-FRIDAY, 10PM-6AM (NIGHT WORK)

**PHASE 16**

- 30 CALENDAR DAYS
- HOURS: MONDAY-FRIDAY, 7AM-3PM (DAY WORK)
- HOURS: MONDAY-FRIDAY, 10PM-6AM (NIGHT WORK)

**PHASE 17**

- 30 CALENDAR DAYS
- HOURS: MONDAY-FRIDAY, 7AM-3PM (DAY WORK)
- HOURS: MONDAY-FRIDAY, 10PM-6AM (NIGHT WORK)

**PHASE 18**

- 30 CALENDAR DAYS
- HOURS: MONDAY-FRIDAY, 7AM-3PM (DAY WORK)
- HOURS: MONDAY-FRIDAY, 10PM-6AM (NIGHT WORK)

**PHASE 19**

- 30 CALENDAR DAYS
- HOURS: MONDAY-FRIDAY, 7AM-3PM (DAY WORK)
- HOURS: MONDAY-FRIDAY, 10PM-6AM (NIGHT WORK)

**GENERAL PHASING NOTES**

- UNLESS OTHERWISE NOTED, ALL WORK SHOWN IN A DISTINCT PHASE SHALL BE 100% COMPLETED IN ITS ENTIRETY BEFORE THE NEXT PHASE BEGINS. ALL WORK TO BE WORKED ON CONCURRENTLY AS INDICATED, SHALL BE COMPLETED AND ACCEPTED WITHIN THE ALLOCATED DURATION OF EACH PHASE. PHASES 4 AND 5 CAN BE CONSTRUCTED CONCURRENTLY. PHASES 6 AND 8 CAN BE CONSTRUCTED CONCURRENTLY.
- PRIOR TO APPLYING PAVEMENT MARKINGS, THE ENGINEER, REMOVAL OF TEMPORARY AND EXISTING MARKINGS DURING THE VARIOUS CONSTRUCTION PHASES SHALL BE AS APPROVED/DIRECTED BY THE ENGINEER.
- BARRICADES SHALL BE PLACED CONTINUOUSLY AROUND THE ENTIRE PERIMETER OF EACH ACTIVE CONSTRUCTION PHASE OR AS DIRECTED BY THE AIRPORT.

GRAPHIC SCALE



TOWN OF BARNSTABLE  
 BARNSTABLE MUNICIPAL AIRPORT  
 HYANNIS, MASSACHUSETTS

GENERAL PHASING  
 PLAN AND NOTES

**JACOBS**

DATE: 07/14/16  
 DRAWN BY: JPM  
 CHECKED BY: JPM  
 SHEET NO.: 4-0138 SCALE AS NOTED (DATE: 4/16)

PROJECT NO.: 4-0138 SCALE AS NOTED (DATE: 4/16)

DATE: 07/14/16  
 DRAWN BY: JPM  
 CHECKED BY: JPM  
 SHEET NO.: 4-0138 SCALE AS NOTED (DATE: 4/16)

DATE: 07/14/16  
 DRAWN BY: JPM  
 CHECKED BY: JPM  
 SHEET NO.: 4-0138 SCALE AS NOTED (DATE: 4/16)

## ATTACHMENT A

### ITEM 1.f.

#### Lawrence Lynch Response:

The Stockpiled Soils at the East & West Staging Areas were stored on the existing ground surface. At the East Staging Area the surface was a grassed area at the West Staging Area the soil was stockpiled on an existing asphalt surface. No poly was used under or over the piles.

**ATTACHMENT A**

**ITEM g.h.**

**BARNSTABLE AIRPORT RW 15 – 33**

**SUMMARY OF DISPOSAL OF EXCESS EXCAVATED MATERIALS**

**DISPOSAL OF EXCESS EXCAVATED MATERIALS**

Approximately 100,000 to 110,000 CY's of surplus excavated material was removed from the Project Site. The majority of this material was disposed at Cape Cod Aggregates (CCA), 1550 Phinney's Lane, Hyannis, MA 02630. The dates of removal are from approximately March 7, 2017 to September 30, 2017. The Estimated Volume of material delivered to CCA during this period was approximately 85,000 to 95,000 CY's. Most if not all of the material delivered to CCA remains on the property and some of the material has been run thru a crusher and stockpiled.

An additional quantity of approximately 10,000 – 15,000 CY's of material went to various other locations in small amounts and approximately 3,000 to 5,000 CY's remains stockpiled at the West Staging at the Airport.

**ATTACHMENT A**

**ITEM 2.**

Lawrence Lynch Response:

There were no Bills of Lading or Manifests used for the Soil Transport.

**ATTACHMENT A**

**ITEM 3.**

Lawrence Lynch Response:

See attached Test Results.

ATTACHMENT B  
Jacobs Summary

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**From:** Homiak, Jason [mailto:Jason.Homiak@jacobs.com]  
**Sent:** Wednesday, November 8, 2017 4:13 PM  
**To:** Mark Nelson  
**Cc:** Breault, Roland; Chamberlain, Dave; Servis, Katie  
**Subject:** RE: Questions for RFI Response

Hello Mark,

Yes, there were breaks in the soil excavation. Generally grading and drainage installation created the majority of "surplus excavation" and the Contractor performed these activities towards the beginning of each phase of construction. The following is a general summary of the majority of soil excavation and removal based upon our observations. The date(s) when the Contractor removed the temporary stockpiles (i.e. from the Mildred Lot near Gate C and from Gate J) were not documented but appeared to be when trucking was available.

**Phase 1 work area:** Soil was excavated from the work area 3/20 through 4/7. We believe most of the excavated soil from this phase was taken off-site and/or stockpiled in the "Mildred" lot near Gate C.

**Phase 2 work area** (RWY Intersection): Soil was excavated from the work area 5/1 through 5/4. We believe most of the excavated soil from this phase was taken off-site and/or stockpiled in the "Mildred" lot near Gate C.

**Combined Phase work area:** Soil was excavated from the work area 5/10 through 7/20. We believe most of the excavated soil from this phase was taken off-site and/or stockpiled inside the fence near Gate J.

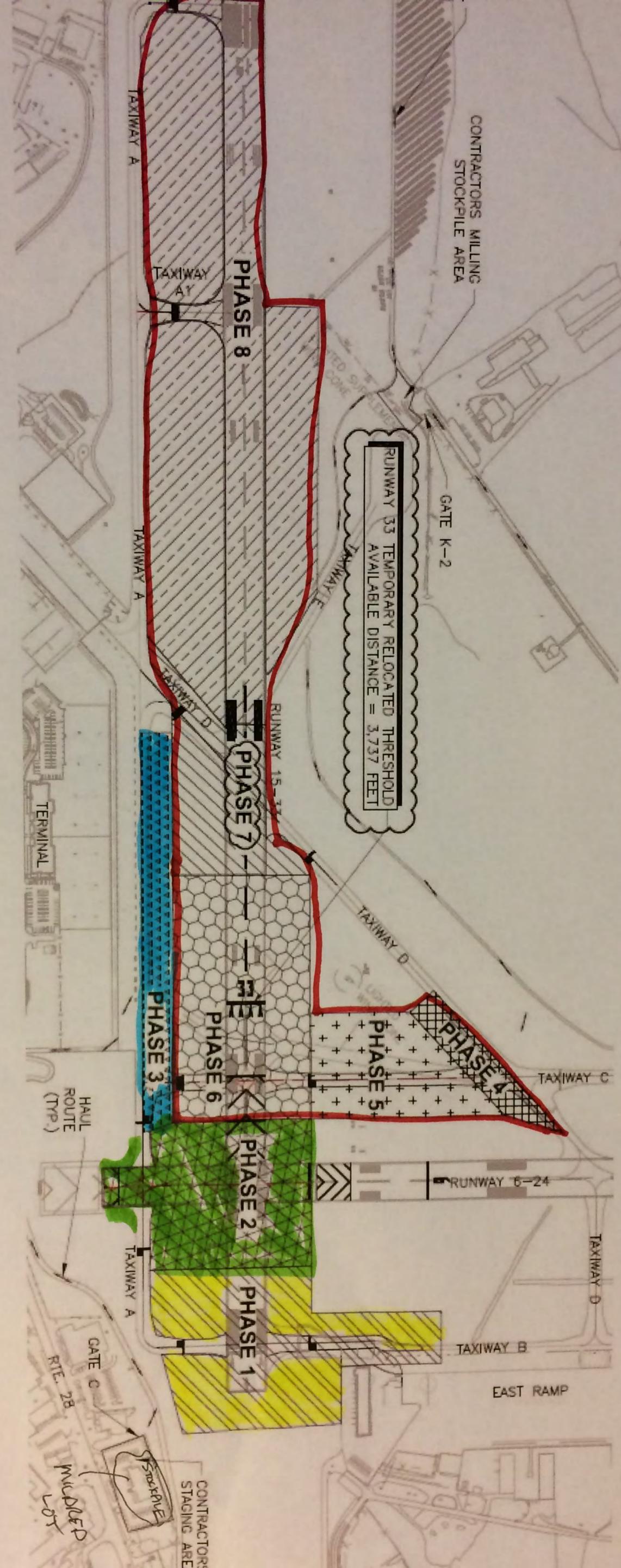
**Phase 3 work area** (Taxiway C/Taxiway A intersection): Soil was excavated from 8/31 through 9/1. We believe most of the excavation from this phase was taken off-site and/or stockpiled in the "Mildred" lot near Gate C.

Phase 9: No soil excavation.

The referenced phases are shown on the attached drawing. Outside of the dates presented above Construction activities consisted of paving, electrical work, paint markings, topsoil, seeding, etc. which generated little to no surplus excavation.

Regards,  
-Jason

**Jason Homiak | Jacobs** |Project Manager |Airports|603.518.1790 | [Jason.Homiak@jacobs.com](mailto:Jason.Homiak@jacobs.com) |  
Two Executive Park Drive, Suite 205, Bedford, NH 03110 USA [www.jacobs.com](http://www.jacobs.com)



RUNWAY 33 TEMPORARILY RELOCATED THRESHOLD AVAILABLE DISTANCE = 3,737 FEET

MULCH PILE  
CONTRACTOR STAGING AREA



ATTACHMENT C  
Green Seal Environmental Letter  
April 25, 2017

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April 25, 2017

Frank Trubiano  
Lawrence Lynch Corp.  
396 Gifford Street  
Falmouth, MA 02540

RE: Soil Characterization and LSP Opinion  
Barnstable Municipal Airport  
Project RW15-33

Dear Mr. Trubiano,

Green Seal Environmental Inc. (GSE) has prepared this summary letter to document soil sampling activities completed at the Barnstable Municipal Airport (BMA) in Hyannis, Massachusetts on March 30, 2017. Lawrence Lynch is in the process of constructing storm water drainage structures along the runway systems at the BMA and, as a result, is generating soil spoils that cannot be reused on-site. The purpose of the soil sampling program is to confirm the absence of oil and hazardous material impacts above the most stringent Massachusetts Contingency Plan (MCP) Reportable Concentrations (RCs) for category S-1 soils (RCS-1) in the soil spoils which are being transported from the BMA to Cape Cod Aggregate (CCA) in Hyannis, Massachusetts for reuse.

In an effort to characterize the soils to be removed from the property, GSE divided the soil stockpiles into eight smaller separate areas identified as Area-1 through Area-8. Each area measured approximately 75 feet long by 75 feet wide. GSE collected a total of five discrete soil samples from each area (a total of 40 samples) using a posthole digger and hand auger. Each discrete soil sample was examined for evidence of a release of oil and/or hazardous materials (OHM) and field-screened for total organic vapor (TOVs) using a photoionization detector (PID).

The soil encountered in all the areas appeared to be dry brownish-yellow with varying amounts of sand and gravel. The soil appeared to be native and free of debris. During sampling on March 30, 2017, GSE did not observe visual or olfactory evidence of a release of OHM in the material. Furthermore, no detectable concentrations of TOVs were observed in any of the 40 discrete soil samples collected from the proposed excavation area.

Following EPA composite sampling protocol, the five discrete soil samples from each area were composited together. The composite soil samples were labeled "COMP-1" through "COMP-8" which corresponds to the area they were collected from. The composite samples were submitted to R.I. Analytical of Warwick, Rhode Island for the following analyses:

- Volatile Organic Compounds (VOCs) by EPA Method 8260;
- Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270;
- Total Petroleum Hydrocarbons (TPHs) by EPA Method 8100M;



- Resource Conservation and Recovery Act (RCRA) 8 Metals (arsenic, barium, cadmium, chromium, lead, mercury selenium and silver); and
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

In an effort to minimize volatilization during the compositing process, the soil samples submitted for VOCs analysis were taken from equal amounts of soil from each discrete soil sample prior to compositing. The R.I. Analytical report (1703-06586) is attached.

The samples collected on March 30, 2017 showed maximum detectable concentrations of TPH at 59 milligrams per kilogram (mg/kg), methylene chloride at 0.014 mg/kg, barium at 13 mg/kg, chromium at 7.7 mg/kg, and lead at 6.5 mg/kg. As presented on Table 1 (attached), all the detectable concentrations were well below the MCP RCS-1 criteria. Based on the results of the analyses, Toxicity Characteristic Leachability Procedure (TCLP) analysis was not required for any of the analytes.

Based on my review of the attached data, it is my opinion as a Licensed Site Professional that the analyses performed are sufficient to adequately characterize the identity and concentrations of contaminants in the material proposed for reuse at CCA. Furthermore, it is my opinion that the soil characterized as part of this assessment is appropriate for reuse at CCA.

If you have any questions pertaining to the attached analytical data, please do not hesitate to contact me at 508-888-6034.

Sincerely,

**GREEN SEAL ENVIRONMENTAL, INC.**

Richard P. Geisler, P.G., L.S.P.  
V.P. of Environmental Services

ATTACHMENTS

**Table 1**  
**Summary of Soil Analytical Results**  
**Barnstable Municipal Airport Runway 15-33 Project**  
**Samples Collected on March 30, 2017**

| Parameter/Sample ID:                                   | COMP-1 | COMP-2 | COMP-3 | COMP-4 | COMP-5 | COMP-6 | COMP-7 | COMP-8 | MCP RCS-1 |
|--|--------|--------|--------|--------|--------|--------|--------|--------|-----------|
| <b>Total Petroleum Hydrocarbons (TPH) (mg/kg)</b>      |        |        |        |        |        |        |        |        |           |
| TPH GC/FID   | <10    | <10    | 55     | <10    | 17     | 14     | 22     | 59     | 1,000     |
| <b>Semi-Volatile Organic Compounds (SVOCs) (mg/kg)</b> |        |        |        |        |        |        |        |        |           |
| Acenaphthene   | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 4         |
| Acenaphthylene   | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 1         |
| Anthracene   | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 1,000     |
| Benzidine  | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 10        |
| Benzo(a)anthracene                                     | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 7         |
| Benzo(b)fluoranthene                                   | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 7         |
| Benzo(k)fluoranthene                                   | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 70        |
| Benzo(g,h,i)perylene                                   | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 1,000     |
| Benzo(a)pyrene   | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 2         |
| Bis(2-chloroethyl)ether                                | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 0.7       |
| Bis(2-Chloroethoxy)methane                             | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 500       |
| Bis(2-Chloroisopropyl)Ether                            | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 0.7       |
| Bis(2-ethylhexyl)phthalate                             | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 90        |
| 4-Bromophenyl phenyl ether                             | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 100       |
| Butylbenzyl phthalate                                  | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 100       |
| 2-Chloronaphthalene                                    | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 1,000     |
| 4-Chlorophenyl phenyl ether                            | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 1,000     |
| Chrysene   | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 70        |
| Dibenzo(a,h)anthracene                                 | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 0.7       |
| Di-n-butyl phthalate                                   | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 50        |
| 1,2-Dichlorobenzene                                    | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 9         |
| 1,3-Dichlorobenzene                                    | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 3         |
| 1,4-Dichlorobenzene                                    | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 0.7       |
| 3,3'-Dichlorobenzidine                                 | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 3         |
| Diethyl phthalate                                      | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 10        |
| Dimethyl phthalate                                     | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 0.7       |
| 2,4-Dinitrotoluene                                     | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 0.7       |
| 2,6-Dinitrotoluene                                     | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 100       |
| Di-n-octyl phthalate                                   | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 1,000     |
| 1,2-Diphenylhydrazine                                  | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 50        |
| Fluoranthene   | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 1,000     |
| Fluorene   | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 1,000     |
| Hexachlorobenzene                                      | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 0.7       |
| Hexachlorobutadiene                                    | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 30        |
| Hexachlorocyclopentadiene                              | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 50        |
| Hexachloroethane                                       | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 0.7       |
| Indeno(1,2,3-cd)pyrene                                 | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 7         |
| Isophorone   | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 100       |
| 2-Methylnaphthalene                                    | <0.35  | <0.36  | <0.36  | <0.36  | <0.35  | <0.36  | <0.36  | <0.36  | 0.7       |



**Table 1**  
**Summary of Soil Analytical Results**  
**Barnstable Municipal Airport Runway 15-33 Project**  
**Samples Collected on March 30, 2017**

| Parameter/Sample ID:                             | COMP-1  | COMP-2  | COMP-3  | COMP-4  | COMP-5  | COMP-6  | COMP-7  | COMP-8  | MCP RCS-1 |
|--|---------|---------|---------|---------|---------|---------|---------|---------|-----------|
| Aroclor-1254                                     | <0.1    | <0.1    | <0.1    | <0.1    | <0.1    | <0.1    | <0.1    | <0.1    | 1         |
| Aroclor-1260                                     | <0.1    | <0.1    | <0.1    | <0.1    | <0.1    | <0.1    | <0.1    | <0.1    | 1         |
| Aroclor-1262                                     | <0.1    | <0.1    | <0.1    | <0.1    | <0.1    | <0.1    | <0.1    | <0.1    | 1         |
| Aroclor-1268                                     | <0.1    | <0.1    | <0.1    | <0.1    | <0.1    | <0.1    | <0.1    | <0.1    | 1         |
| <b>Volatile Organic Compounds (VOCs) (mg/kg)</b> |         |         |         |         |         |         |         |         |           |
| Acetone  | <0.039  | <0.039  | <0.041  | <0.040  | <0.041  | <0.039  | <0.039  | <0.037  | 6         |
| Tertiary Amyl Methyl Ether                       | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | NE        |
| Benzene  | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 2         |
| Bromobenzene                                     | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 100       |
| Bromochloromethane                               | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | NE        |
| Bromodichloromethane                             | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 0.1       |
| Bromoform  | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 0.1       |
| Bromomethane                                     | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 0.5       |
| Sec-butylbenzene                                 | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | NE        |
| n-Butylbenzene                                   | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | NE        |
| tert-Butylbenzene                                | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 100       |
| Carbon Disulfide                                 | <0.0077 | <0.0079 | <0.0083 | <0.0079 | <0.0082 | <0.0078 | <0.0078 | <0.0075 | 100       |
| Carbon Tetrachloride                             | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 10        |
| Chlorobenzene                                    | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 1         |
| Dibromochloromethane                             | <0.0015 | <0.0016 | <0.0017 | <0.0016 | <0.0016 | <0.0016 | <0.0016 | <0.0015 | 0.005     |
| Chloroethane                                     | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 100       |
| Chloroform                                       | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 0.4       |
| Chloromethane                                    | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 100       |
| 2-Chlorotoluene                                  | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 100       |
| 4-Chlorotoluene                                  | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | NE        |
| 1,2-Dibromo-3-Chloropropane                      | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 10        |
| 1,2-Dibromoethane(EDB)                           | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 0.1       |
| Dibromomethane                                   | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 500       |
| 1,3-Dichlorobenzene                              | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 3         |
| 1,2-Dichlorobenzene                              | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 9         |
| 1,4-Dichlorobenzene                              | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 0.7       |
| n-Propylbenzene                                  | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 100       |
| Dichlorodifluoromethane                          | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 1,000     |
| 1,1-Dichloroethane                               | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 0.4       |
| 1,2-Dichloroethane                               | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 0.1       |
| 1,1-Dichloroethene                               | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 3         |
| cis-1,2-Dichloroethene                           | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 0.3       |
| trans-1,2-Dichloroethylene                       | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 1         |
| 1,2-Dichloropropane                              | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 0.1       |
| 1,3-Dichloropropane                              | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | 500       |
| 2,2-Dichloropropane                              | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | NE        |
| 1,1-Dichloropropene                              | <0.0039 | <0.0039 | <0.0041 | <0.0040 | <0.0041 | <0.0039 | <0.0039 | <0.0037 | NE        |

**Table 1**  
**Summary of Soil Analytical Results**  
**Barnstable Municipal Airport Runway 15-33 Project**  
**Samples Collected on March 30, 2017**

| Parameter/Sample ID:        | COMP-1  | COMP-2  | COMP-3      | COMP-4  | COMP-5       | COMP-6  | COMP-7  | COMP-8        | MCP RCS-1 |
|-----------------------------|---------|---------|-------------|---------|--------------|---------|---------|---------------|-----------|
| cis-1,3-Dichloropropene     | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | 0.01      |
| trans-1,3-Dichloropropylene | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | 0.01      |
| Diethyl ether               | <0.039  | <0.039  | <0.041      | <0.040  | <0.041       | <0.039  | <0.039  | <0.037        | 100       |
| Diisopropyl ether (DIPE)    | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | 100       |
| 1,4-Dioxane                 | <0.077  | <0.079  | <0.083      | <0.079  | <0.082       | <0.078  | <0.078  | <0.075        | 0.2       |
| Ethyl Tertiary Butyl Ether  | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | NE        |
| Ethylbenzene                | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | 40        |
| Hexachlorobutadiene         | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | 30        |
| 2-Hexanone                  | <0.039  | <0.039  | <0.041      | <0.040  | <0.041       | <0.039  | <0.039  | <0.037        | 100       |
| Isopropylbenzene            | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | 1,000     |
| p-Isopropyltoluene          | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | 100       |
| 2-Butanone(MEK)             | <0.039  | <0.039  | <0.041      | <0.040  | <0.041       | <0.039  | <0.039  | <0.037        | 4         |
| 4-Methyl-2-pentanone(MIBK)  | <0.039  | <0.039  | <0.041      | <0.040  | <0.041       | <0.039  | <0.039  | <0.037        | 0.4       |
| MTBE                        | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | 0.1       |
| Methylene Chloride          | <0.0077 | <0.0079 | <b>0.01</b> | <0.0079 | <b>0.014</b> | <0.0078 | <0.0078 | <b>0.0087</b> | 0.1       |
| Naphthalene                 | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | 4         |
| 1,1,2-Trichloroethane       | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | 0.1       |
| Styrene                     | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | 3         |
| 1,1,1,2-Tetrachloroethane   | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | 0.1       |
| 1,1,2,2-Tetrachloroethane   | <0.0015 | <0.0016 | <0.0017     | <0.0016 | <0.0016      | <0.0016 | <0.0016 | <0.0015       | 0.005     |
| Tetrachloroethene           | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | 1         |
| Tetrahydrofuran             | <0.039  | <0.039  | <0.041      | <0.040  | <0.041       | <0.039  | <0.039  | <0.037        | 500       |
| Toluene                     | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | 30        |
| 1,2,4-Trichlorobenzene      | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | 2         |
| 1,2,3-Trichlorobenzene      | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | NE        |
| 1,1,1-Trichloroethane       | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | 30        |
| Trichloroethene             | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | 0.3       |
| Trichlorofluoromethane      | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | 1,000     |
| 1,2,3-Trichloropropane      | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | 100       |
| 1,2,4-Trimethylbenzene      | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | 1,000     |
| 1,3,5-Trimethylbenzene      | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | 10        |
| Vinyl Chloride              | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | 0.9       |
| o-Xylene                    | <0.0039 | <0.0039 | <0.0041     | <0.0040 | <0.0041      | <0.0039 | <0.0039 | <0.0037       | 400       |
| m,p-Xylene                  | <0.0077 | <0.0079 | <0.0083     | <0.0079 | <0.0082      | <0.0078 | <0.0078 | <0.0075       | 400       |

**NOTES:**

mg/kg = milligrams per kilograms

&lt; = Compound was not detected above the laboratory reporting limits. The laboratory reporting limits are provided in the table.

MCP RCS-1 = The applicable Massachusetts Contingency Plan (MCP) Reportable Concentrations (RCs) for category S-1 soils (RCS-1).

## LABORATORY REPORT

Green Seal Environmental, Inc.  
Attn: Mr. Rich Geisler  
114 State Road - Unit B  
Sagamore Beach, MA 02562

**Date Received:** 3/31/17  
**Date Reported:** 4/7/17  
**P.O. #:**

**Work Order #:** 1703-06586

**DESCRIPTION:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

Enclosed are the analytical results and Chain of Custody for your project referenced above. The sample(s) were analyzed by our Warwick, RI laboratory. When applicable, subcontracted results are noted and reports are enclosed in their entirety.

All samples were analyzed within the established guidelines of US EPA and Massachusetts Contingency Plan (MCP) approved methods with all requirements met, unless otherwise noted at the end of a given sample's analytical results or in a case narrative.

The Detection Limit is defined as the lowest level that can be reliably achieved during routine laboratory conditions.

These results only pertain to the samples submitted for this Work Order # and this report shall not be reproduced except in its entirety.

We certify that the following results are true and accurate to the best of our knowledge. If you have questions or need further assistance, please contact our Customer Service Department.

Approved by:



Yihai Ding  
Technical Director

Laboratory Certification Numbers (as applicable to sample's origin state):  
RI LAI00033, MA M-RI015, CT PH-0508, ME RI00015, NH 2070, NY 11726

**Customer Name :** Green Seal Environmental, Inc.

**Work Order #:** 1703-06586

**MassDEP Analytical Protocol Certification Form**

Laboratory Name: R.I. Analytical Laboratories      Work Order #: 1703-06586  
 Project / Location: PROJECT #LAWL-1701-0001 BMA-RW 15-33      RTN :

This Form provides certifications for the following data set: list Laboratory Sample ID Number(s):  
 1703-06586-001 through 1703-06586-008

Matrices:     Groundwater/Surface Water     Soil / Sediment     Drinking Water     Air     Other

**CAM Protocol** (check all that apply below):

|   |   |   |                               |                                |                         |
|---|---|---|-------------------------------|--------------------------------|-------------------------|
| 8260 VOC<br>CAM II A <input checked="" type="checkbox"/>  | 7470/7471 Hg<br>CAM III B <input checked="" type="checkbox"/> | MassDEP VPH<br>CAM IV A                                 | 8081 Pesticides<br>CAM V B    | 7196 Hex Cr<br>CAM VI B        | MassDEP APH<br>CAM IX A |
| 8270 SVOC<br>CAM II B <input checked="" type="checkbox"/> | 7010 Metals<br>CAM III C                                      | Mass DEP EPH<br>CAM IV B                                | 8151<br>Herbicides<br>CAM V C | 8330<br>Explosives             | TO-15 VOC<br>CAM IX B   |
| 6010 Metals<br>CAM III A                                  | 6020 Metals<br>CAM III D                                      | 8082 PCB<br>CAM V A <input checked="" type="checkbox"/> | 9014 Total Cn                 | 6860 Perchlorate<br>CAM VIII B |                         |

**Affirmative responses to Questions A through F are required for "Presumptive Certainty" status**

|   |  |     |
|---|--|-----|
| A | Were all samples received in a condition consistent with those described on the Chain -of-Custody, properly preserved (including temperature) in the field or laboratory, and prepared/analyzed within method holding times? | Yes |
| B | Were the analytical method(s) and all associated QC requirements specified in the selected CAM protocol(s) followed?   | Yes |
| C | Were all required corrective actions and analytical response actions specified in the selected CAM protocol(s) implemented for all identified performance standard non-conformances?   | Yes |
| D | Does the laboratory report comply with all the reporting requirements specified in CAM VII A, "Quality Assurance and Quality Control Guidelines for Acquisition and Reporting of Analytical Data"?                           | Yes |
| E | a. VPH, EPH and APH methods only: Was each method conducted without significant modification(s)? (Refer to the individual method(s) for a list of significant modifications).  | N/A |
|   | b. APH and TO-15 Methods only: Was the complete analyte list reported for each method?   | N/A |
| F | Were all applicable CAM protocol QC and performance standard non-conformances identified and evaluated in a laboratory narrative (including all "No" responses to Questions A through E)?                                    | Yes |

**Responses to Questions G,H,I below are required for "Presumptive Certainty " status**

|   |  |    |   |
|---|--|----|---|
| G | Were the reporting limits at or below all CAM reporting limits specified in the selected CAM protocol(s)?<br>Data User Note: Data that achieve "Presumptive Certainty" status may not necessarily meet the data usability and representativeness requirements described in 310 CMR 40. 1056 (2)(k) and WSC-07-350. | No | 1 |
| H | Were <b>all</b> QC performance standards specified in the CAM protocol(s) achieved?  | No | 1 |
| I | Were results reported for the complete analyted list specified in the selected CAM protocol(s)?  | No | 1 |

<sup>1</sup> All negative responses must be addressed in an attached laboratory narrative.

**I, the undersigned, attest under the pains and penalties of perjury that, based upon my personal inquiry of those responsible for obtaining the information, the material contained in this analytical report is, to the best of my knowledge and belief, is accurate and complete.**

Signature \_\_\_\_\_

Position: \_\_\_\_\_

Printed Name:    Yihai Ding

Date:                    4/10/2017

# Case Narrative

Date: 4/7/2017

Green Seal Environmental, Inc.  
Attn: Mr. Rich Geisler

114 State Road - Unit B  
Sagamore Beach, MA 02562

Project: PROJECT #LAWL-1701-0001 BMA-RW 15-33

Work Order #: 1703-06586

The following exceptions were noted for this Work Order:

The method requested for TPH GC/FID is not listed in the table of contents for compendium of MCP analytical methods. Therefore, there is no guideline for presumptive certainty.

Volatile Organics by 8260

Question G - Not all MCP standard limits were met, however, the client requested S-1 limits were met.

Question H - MEK does not meet the 0.100 minimum response factor recommended in method 8260C. Compound quantifies adequately in the 10 ppb calibration point of curve. RF>0.05 allowing data to remain valid according to the QC requirements listed in table II A-1 of WSC-CAM-II A.

Question H - The Laboratory Control Sample / Laboratory Control Sample Duplicate (4/5/17) had analytes recover outside the 70%-130% QC acceptance limits. Up to 10% of the analytes are allowed to recover outside of QC limits. The specific outliers include Acetone(LCSD 140%), tert-Butylbenzene(LCSD 134%), 1,3-Dichlorobenzene(LCSD 132%), 1,2-Dichlorobenzene(LCSD 134%), 1,4-Dichlorobenzene(LCSD 134%), 2-Hexanone(LCSD 134%), Hexachlorobutadiene(LCSD 140%), Isopropylbenzene(LCSD 132%), p-Isopropyltoluene(LCSD 132%), 2-Butanone(MEK)(LCSD 154%), 4-Methyl-2-Pentanone(MIBK)(LCSD 142%), 1,1,1,2-Tetrachloroethane(LCSD 134%), Tetrachloroethene(134%,136%), 1,2,4-Trichlorobenzene(LCSD 132%), Trichlorofluoromethane(138%, 142%). These analytes were not detected in the associated samples.

Semi Volatile Organics by 8270

Question H - Laboratory Control Sample / Laboratory Control Sample duplicate (1/17) had analytes outside the 40%-140% for base-neutrals and 30%-130% for acid compounds QC acceptance limits. Up to 10% are allowed to exceed the criteria. The specific outliers include, Benzidine(36%, 22%), Aniline (LCSD 30%), 4-Chloroaniline(LCSD 39%). These analytes were not detected in the associated samples.

Question H - The RPD for Benzidine(47%), Aniline(62%), 4-Chloroaniline(38%) in the Laboratory Control

Sample / Laboratory Control Sample duplicate (4/7/17) recovered outside the 30% (soil) QC acceptance limits.

Total Metals by 6010

Question H - No Matrix Spike/Matrix Spike Duplicate was requested for the Soil/Sediment sample in this work order.

Question I - Per the client's request, only a subset of the MCP analyte list for SW-846 Method 6010 Total Metals is reported.

There were no additional exceptions or analytical issues to discuss concerning the testing requirements for the project.

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 001  
**Sample Description:** COMP-1  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD          | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|-----------|-----------------|---------------|---------|
| TPH                         |                |            |           |                 |               |         |
| TPH GC/FID                  | <10            | 11         | mg/kg dry | SW-846 8100M    | 4/5/17 23:46  | JEB     |
| Surrogate                   |                |            | RANGE     | SW-846 8100M    | 4/5/17 23:46  | JEB     |
| 2-Fluorobiphenyl            | 70             |            | 40-140%   | SW-846 8100M    | 4/5/17 23:46  | JEB     |
| Moisture                    | 5.1            |            | %         | SM2540G 18-21ed | 4/6/17 14:54  | NS      |
| Semi-Volatile Organic Comp. |                |            |           |                 |               |         |
| Acenaphthene                | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| Acenaphthylene              | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| Anthracene                  | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| Benzidine                   | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| Benzo(a)anthracene          | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| Benzo(b)fluoranthene        | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| Benzo(k)fluoranthene        | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| Benzo(g,h,i)perylene        | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| Benzo(a)pyrene              | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| Bis(2-chloroethyl)ether     | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| Bis(2-Chloroethoxy)methane  | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| Bis(2-Chloroisopropyl)Ether | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| Bis(2-ethylhexyl)phthalate  | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| 4-Bromophenyl phenyl ether  | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| Butylbenzyl phthalate       | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| 2-Chloronaphthalene         | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| 4-Chlorophenyl phenyl ether | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| Chrysene                    | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| Dibenzo(a,h)anthracene      | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| Di-n-butyl phthalate        | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| 1,2-Dichlorobenzene         | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| 1,3-Dichlorobenzene         | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| 1,4-Dichlorobenzene         | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| 3,3'-Dichlorobenzidine      | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| Diethyl phthalate           | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| Dimethyl phthalate          | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| 2,4-Dinitrotoluene          | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| 2,6-Dinitrotoluene          | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 001  
**Sample Description:** COMP-1  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                  | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE ANALYZED | ANALYST |
|----------------------------|----------------|------------|-----------|--------------|---------------|---------|
| Di-n-octyl phthalate       | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| 1,2-Diphenylhydrazine      | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| Fluoranthene               | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| Fluorene                   | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| Hexachlorobenzene          | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| Hexachlorobutadiene        | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| Hexachlorocyclopentadiene  | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| Hexachloroethane           | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| Indeno(1,2,3-cd)pyrene     | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| Isophorone                 | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| 2-Methylnaphthalene        | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| Naphthalene                | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| Nitrobenzene               | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| N-nitrosodimethylamine     | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| N-nitrosodiphenylamine     | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| N-nitrosodi-n-propylamine  | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| Phenanthrene               | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| Pyrene                     | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| 1,2,4-Trichlorobenzene     | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| 4-Chloro-3-methylphenol    | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| 2-Chlorophenol             | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| 2,4-Dichlorophenol         | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| 2,4-Dimethylphenol         | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| 2-Methyl-4,6-dinitrophenol | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| 2,4-Dinitrophenol          | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| 2-Nitrophenol              | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| 4-Nitrophenol              | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| Pentachlorophenol          | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| Phenol                     | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| 2,4,5-Trichlorophenol      | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| 2,4,6-Trichlorophenol      | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| 4-Chloroaniline            | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| Dibenzofuran               | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| 2-Methyl Phenol            | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |
| 3 & 4-Methylphenols        | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 0:01   | JEB     |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 001  
**Sample Description:** COMP-1  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER            | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD          | DATE ANALYZED | ANALYST |
|----------------------|----------------|------------|-----------|-----------------|---------------|---------|
| Aniline              | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| Acetophenone         | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| Azobenzene           | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| Surrogates           |                |            | RANGE     |                 |               |         |
| Phenol-d5            | 80             |            | 30-130%   | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| 2-Fluorophenol       | 77             |            | 30-130%   | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| 2,4,6-Tribromophenol | 84             |            | 30-130%   | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| Nitrobenzene-d5      | 75             |            | 30-130%   | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| 2-Fluorobiphenyl     | 75             |            | 30-130%   | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| P-Terphenyl-d14      | 83             |            | 30-130%   | SW-846 8270D    | 4/7/17 0:01   | JEB     |
| Semi Extraction Date |                |            |           | SW-846 3546     | 4/5/17 16:35  | SRM     |
| Total metals         |                |            |           |                 |               |         |
| Arsenic              | <2.6           | 2.6        | mg/kg dry | SW-846 6010C    | 4/7/17 13:41  | RBR     |
| Barium               | 7.8            | 0.53       | mg/kg dry | SW-846 6010C    | 4/7/17 13:41  | RBR     |
| Cadmium              | <0.26          | 0.26       | mg/kg dry | SW-846 6010C    | 4/7/17 13:41  | RBR     |
| Chromium             | 4.8            | 1.6        | mg/kg dry | SW-846 6010C    | 4/7/17 13:41  | RBR     |
| Lead                 | 3.7            | 2.1        | mg/kg dry | SW-846 6010C    | 4/7/17 13:41  | RBR     |
| Mercury              | <0.091         | 0.091      | mg/kg dry | SW-846 7471B    | 4/4/17 22:18  | AJD     |
| Selenium             | <5.3           | 5.3        | mg/kg dry | SW-846 6010C    | 4/7/17 13:41  | RBR     |
| Silver               | <1.0           | 1.0        | mg/kg dry | SW-846 6010C    | 4/7/17 13:41  | RBR     |
| ICP Digestion        |                |            |           | SW-846 3050B    | 4/5/17 9:00   | AGJ     |
| Mercury Digestion    |                |            |           | SW-846 7471B    | 4/4/17 21:30  | AGJ     |
| Percent Solids       | 94.9           |            | %         | SM2540G 18-21ed | 4/6/17 14:54  | NS      |
| Extraction Date      |                |            |           | SW-846 5035A    | 4/5/17 8:30   | *CS     |
| PCB                  |                |            |           |                 |               |         |
| Aroclor-1016         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 14:08  | JBW     |
| Aroclor-1221         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 14:08  | JBW     |
| Aroclor-1232         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 14:08  | JBW     |
| Aroclor-1242         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 14:08  | JBW     |
| Aroclor-1248         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 14:08  | JBW     |
| Aroclor-1254         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 14:08  | JBW     |
| Aroclor-1260         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 14:08  | JBW     |
| Aroclor-1262         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 14:08  | JBW     |
| Aroclor-1268         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 14:08  | JBW     |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 001  
**Sample Description:** COMP-1  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS RANGE | METHOD       | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|-------------|--------------|---------------|---------|
| Surrogate                   |                |            |             |              |               |         |
| Tetrachloro-m-xylene (TCMX) | 49             |            | 30-150%     | SW-846 8082A | 4/6/17 14:08  | JBW     |
| Decachlorobiphenyl          | 55             |            | 30-150%     | SW-846 8082A | 4/6/17 14:08  | JBW     |
| Extraction Date             |                |            |             | SW-846 3546  | 4/5/17 21:54  | SRM     |
| Volatile Organic Compounds  |                |            |             |              |               |         |
| Acetone                     | <0.039         | 0.039      | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| Tertiary Amyl Methyl Ether  | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| Benzene                     | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| Bromobenzene                | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| Bromochloromethane          | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| Bromodichloromethane        | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| Bromoform                   | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| Bromomethane                | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| Sec-butylbenzene            | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| n-Butylbenzene              | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| tert-Butylbenzene           | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| Carbon Disulfide            | <0.0077        | 0.0077     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| Carbon Tetrachloride        | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| Chlorobenzene               | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| Dibromochloromethane        | <0.0015        | 0.0015     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| Chloroethane                | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| Chloroform                  | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| Chloromethane               | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| 2-Chlorotoluene             | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| 4-Chlorotoluene             | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| 1,2-Dibromo-3-Chloropropane | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| 1,2-Dibromoethane(EDB)      | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| Dibromomethane              | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| 1,3-Dichlorobenzene         | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| 1,2-Dichlorobenzene         | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| 1,4-Dichlorobenzene         | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| n-Propylbenzene             | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| Dichlorodifluoromethane     | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |
| 1,1-Dichloroethane          | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 12:36  | WL      |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 001  
**Sample Description:** COMP-1  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE     |       | ANALYST |
|-----------------------------|----------------|------------|-----------|--------------|----------|-------|---------|
|                             |                |            |           |              | ANALYZED |       |         |
| 1,2-Dichloroethane          | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| 1,1-Dichloroethene          | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| cis-1,2-Dichloroethene      | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| trans-1,2-Dichloroethylene  | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| 1,2-Dichloropropane         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| 1,3-Dichloropropane         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| 2,2-Dichloropropane         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| 1,1-Dichloropropene         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| cis-1,3-Dichloropropene     | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| trans-1,3-Dichloropropylene | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| Diethyl ether               | <0.039         | 0.039      | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| Diisopropyl Ether (DIPE)    | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| 1,4-Dioxane                 | <0.077         | 0.077      | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| Ethyl Tertiary Butyl Ether  | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| Ethylbenzene                | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| Hexachlorobutadiene         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| 2-Hexanone                  | <0.039         | 0.039      | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| Isopropylbenzene            | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| p-Isopropyltoluene          | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| 2-Butanone(MEK)             | <0.039         | 0.039      | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| 4-Methyl-2-pentanone(MIBK)  | <0.039         | 0.039      | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| MTBE                        | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| Methylene Chloride          | <0.0077        | 0.0077     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| Naphthalene                 | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| 1,1,2-Trichloroethane       | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| Styrene                     | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| 1,1,1,2-Tetrachloroethane   | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| 1,1,2,2-Tetrachloroethane   | <0.0015        | 0.0015     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| Tetrachloroethene           | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| Tetrahydrofuran             | <0.039         | 0.039      | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| Toluene                     | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| 1,2,4-Trichlorobenzene      | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| 1,2,3-Trichlorobenzene      | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| 1,1,1-Trichloroethane       | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| Trichloroethene             | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 001  
**Sample Description:** COMP-1  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER              | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE     |       | ANALYST |
|------------------------|----------------|------------|-----------|--------------|----------|-------|---------|
|                        |                |            |           |              | ANALYZED |       |         |
| Trichlorofluoromethane | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| 1,2,3-Trichloropropane | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| 1,2,4-Trimethylbenzene | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| 1,3,5-Trimethylbenzene | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| Vinyl Chloride         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| o-Xylene               | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| m,p-Xylene             | <0.0077        | 0.0077     | mg/kg dry | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| Surrogates             |                |            | RANGE     | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| Dibromofluoromethane   | 109            |            | 70-130%   | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| Toluene-d8             | 93             |            | 70-130%   | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| 4-Bromofluorobenzene   | 93             |            | 70-130%   | SW-846 8260C | 4/5/17   | 12:36 | WL      |
| 1,2 Dichloroethane-d4  | 117            |            | 70-130%   | SW-846 8260C | 4/5/17   | 12:36 | WL      |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 002  
**Sample Description:** COMP-2  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD          | DATE ANALYZED | ANALYST   |
|-----------------------------|----------------|------------|-----------|-----------------|---------------|-----------|
| TPH                         |                |            |           |                 |               |           |
| TPH GC/FID                  | <10            | 11         | mg/kg dry | SW-846 8100M    | 4/6/17        | 0:23 JEB  |
| Surrogate                   |                |            | RANGE     | SW-846 8100M    | 4/6/17        | 0:23 JEB  |
| 2-Fluorobiphenyl            | 62             |            | 40-140%   | SW-846 8100M    | 4/6/17        | 0:23 JEB  |
| Moisture                    | 8.5            |            | %         | SM2540G 18-21ed | 4/6/17        | 14:54 NS  |
| Semi-Volatile Organic Comp. |                |            |           |                 |               |           |
| Acenaphthene                | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| Acenaphthylene              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| Anthracene                  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| Benzidine                   | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| Benzo(a)anthracene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| Benzo(b)fluoranthene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| Benzo(k)fluoranthene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| Benzo(g,h,i)perylene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| Benzo(a)pyrene              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| Bis(2-chloroethyl)ether     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| Bis(2-Chloroethoxy)methane  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| Bis(2-Chloroisopropyl)Ether | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| Bis(2-ethylhexyl)phthalate  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| 4-Bromophenyl phenyl ether  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| Butylbenzyl phthalate       | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| 2-Chloronaphthalene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| 4-Chlorophenyl phenyl ether | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| Chrysene                    | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| Dibenzo(a,h)anthracene      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| Di-n-butyl phthalate        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| 1,2-Dichlorobenzene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| 1,3-Dichlorobenzene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| 1,4-Dichlorobenzene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| 3,3'-Dichlorobenzidine      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| Diethyl phthalate           | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| Dimethyl phthalate          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| 2,4-Dinitrotoluene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |
| 2,6-Dinitrotoluene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17        | 23:31 JEB |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 002  
**Sample Description:** COMP-2  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                  | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE ANALYZED | ANALYST |
|----------------------------|----------------|------------|-----------|--------------|---------------|---------|
| Di-n-octyl phthalate       | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| 1,2-Diphenylhydrazine      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| Fluoranthene               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| Fluorene                   | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| Hexachlorobenzene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| Hexachlorobutadiene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| Hexachlorocyclopentadiene  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| Hexachloroethane           | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| Indeno(1,2,3-cd)pyrene     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| Isophorone                 | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| 2-Methylnaphthalene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| Naphthalene                | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| Nitrobenzene               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| N-nitrosodimethylamine     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| N-nitrosodiphenylamine     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| N-nitrosodi-n-propylamine  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| Phenanthrene               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| Pyrene                     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| 1,2,4-Trichlorobenzene     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| 4-Chloro-3-methylphenol    | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| 2-Chlorophenol             | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| 2,4-Dichlorophenol         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| 2,4-Dimethylphenol         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| 2-Methyl-4,6-dinitrophenol | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| 2,4-Dinitrophenol          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| 2-Nitrophenol              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| 4-Nitrophenol              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| Pentachlorophenol          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| Phenol                     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| 2,4,5-Trichlorophenol      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| 2,4,6-Trichlorophenol      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| 4-Chloroaniline            | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| Dibenzofuran               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| 2-Methyl Phenol            | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |
| 3 & 4-Methylphenols        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/6/17 23:31  | JEB     |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 002  
**Sample Description:** COMP-2  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER            | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD          | DATE ANALYZED | ANALYST |
|----------------------|----------------|------------|-----------|-----------------|---------------|---------|
| Aniline              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17 23:31  | JEB     |
| Acetophenone         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17 23:31  | JEB     |
| Azobenzene           | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/6/17 23:31  | JEB     |
| Surrogates           |                |            | RANGE     |                 |               |         |
| Phenol-d5            | 68             |            | 30-130%   | SW-846 8270D    | 4/6/17 23:31  | JEB     |
| 2-Fluorophenol       | 66             |            | 30-130%   | SW-846 8270D    | 4/6/17 23:31  | JEB     |
| 2,4,6-Tribromophenol | 76             |            | 30-130%   | SW-846 8270D    | 4/6/17 23:31  | JEB     |
| Nitrobenzene-d5      | 65             |            | 30-130%   | SW-846 8270D    | 4/6/17 23:31  | JEB     |
| 2-Fluorobiphenyl     | 65             |            | 30-130%   | SW-846 8270D    | 4/6/17 23:31  | JEB     |
| P-Terphenyl-d14      | 75             |            | 30-130%   | SW-846 8270D    | 4/6/17 23:31  | JEB     |
| Semi Extraction Date |                |            |           | SW-846 3546     | 4/5/17 16:35  | SRM     |
| Total metals         |                |            |           |                 |               |         |
| Arsenic              | <2.7           | 2.7        | mg/kg dry | SW-846 6010C    | 4/7/17 13:54  | RBR     |
| Barium               | 11             | 0.55       | mg/kg dry | SW-846 6010C    | 4/7/17 13:54  | RBR     |
| Cadmium              | <0.27          | 0.27       | mg/kg dry | SW-846 6010C    | 4/7/17 13:54  | RBR     |
| Chromium             | 6.9            | 1.6        | mg/kg dry | SW-846 6010C    | 4/7/17 13:54  | RBR     |
| Lead                 | 5.0            | 2.2        | mg/kg dry | SW-846 6010C    | 4/7/17 13:54  | RBR     |
| Mercury              | <0.098         | 0.098      | mg/kg dry | SW-846 7471B    | 4/4/17 22:25  | AJD     |
| Selenium             | <5.5           | 5.5        | mg/kg dry | SW-846 6010C    | 4/7/17 13:54  | RBR     |
| Silver               | <1.1           | 1.1        | mg/kg dry | SW-846 6010C    | 4/7/17 13:54  | RBR     |
| ICP Digestion        |                |            |           | SW-846 3050B    | 4/5/17 9:00   | AGJ     |
| Mercury Digestion    |                |            |           | SW-846 7471B    | 4/4/17 21:30  | AGJ     |
| Percent Solids       | 91.5           |            | %         | SM2540G 18-21ed | 4/6/17 14:54  | NS      |
| Extraction Date      |                |            |           | SW-846 5035A    | 4/5/17 8:30   | *CS     |
| PCB                  |                |            |           |                 |               |         |
| Aroclor-1016         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 15:05  | JBW     |
| Aroclor-1221         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 15:05  | JBW     |
| Aroclor-1232         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 15:05  | JBW     |
| Aroclor-1242         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 15:05  | JBW     |
| Aroclor-1248         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 15:05  | JBW     |
| Aroclor-1254         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 15:05  | JBW     |
| Aroclor-1260         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 15:05  | JBW     |
| Aroclor-1262         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 15:05  | JBW     |
| Aroclor-1268         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 15:05  | JBW     |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 002  
**Sample Description:** COMP-2  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|-----------|--------------|---------------|---------|
| Surrogate                   |                |            | RANGE     |              |               |         |
| Tetrachloro-m-xylene (TCMX) | 47             |            | 30-150%   | SW-846 8082A | 4/6/17 15:05  | JBW     |
| Decachlorobiphenyl          | 45             |            | 30-150%   | SW-846 8082A | 4/6/17 15:05  | JBW     |
| Extraction Date             |                |            |           | SW-846 3546  | 4/5/17 21:54  | SRM     |
| Volatile Organic Compounds  |                |            |           |              |               |         |
| Acetone                     | <0.039         | 0.039      | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| Tertiary Amyl Methyl Ether  | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| Benzene                     | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| Bromobenzene                | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| Bromochloromethane          | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| Bromodichloromethane        | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| Bromoform                   | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| Bromomethane                | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| Sec-butylbenzene            | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| n-Butylbenzene              | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| tert-Butylbenzene           | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| Carbon Disulfide            | <0.0079        | 0.0079     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| Carbon Tetrachloride        | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| Chlorobenzene               | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| Dibromochloromethane        | <0.0016        | 0.0016     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| Chloroethane                | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| Chloroform                  | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| Chloromethane               | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| 2-Chlorotoluene             | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| 4-Chlorotoluene             | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| 1,2-Dibromo-3-Chloropropane | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| 1,2-Dibromoethane(EDB)      | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| Dibromomethane              | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| 1,3-Dichlorobenzene         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| 1,2-Dichlorobenzene         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| 1,4-Dichlorobenzene         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| n-Propylbenzene             | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| Dichlorodifluoromethane     | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| 1,1-Dichloroethane          | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 002  
**Sample Description:** COMP-2  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE     |       | ANALYST |
|-----------------------------|----------------|------------|-----------|--------------|----------|-------|---------|
|                             |                |            |           |              | ANALYZED |       |         |
| 1,2-Dichloroethane          | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| 1,1-Dichloroethene          | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| cis-1,2-Dichloroethene      | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| trans-1,2-Dichloroethylene  | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| 1,2-Dichloropropane         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| 1,3-Dichloropropane         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| 2,2-Dichloropropane         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| 1,1-Dichloropropene         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| cis-1,3-Dichloropropene     | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| trans-1,3-Dichloropropylene | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| Diethyl ether               | <0.039         | 0.039      | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| Diisopropyl Ether (DIPE)    | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| 1,4-Dioxane                 | <0.079         | 0.079      | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| Ethyl Tertiary Butyl Ether  | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| Ethylbenzene                | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| Hexachlorobutadiene         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| 2-Hexanone                  | <0.039         | 0.039      | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| Isopropylbenzene            | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| p-Isopropyltoluene          | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| 2-Butanone(MEK)             | <0.039         | 0.039      | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| 4-Methyl-2-pentanone(MIBK)  | <0.039         | 0.039      | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| MTBE                        | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| Methylene Chloride          | <0.0079        | 0.0079     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| Naphthalene                 | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| 1,1,2-Trichloroethane       | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| Styrene                     | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| 1,1,1,2-Tetrachloroethane   | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| 1,1,2,2-Tetrachloroethane   | <0.0016        | 0.0016     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| Tetrachloroethene           | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| Tetrahydrofuran             | <0.039         | 0.039      | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| Toluene                     | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| 1,2,4-Trichlorobenzene      | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| 1,2,3-Trichlorobenzene      | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| 1,1,1-Trichloroethane       | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |
| Trichloroethene             | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17   | 13:03 | WL      |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 002  
**Sample Description:** COMP-2  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER              | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE ANALYZED | ANALYST |
|------------------------|----------------|------------|-----------|--------------|---------------|---------|
| Trichlorofluoromethane | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| 1,2,3-Trichloropropane | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| 1,2,4-Trimethylbenzene | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| 1,3,5-Trimethylbenzene | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| Vinyl Chloride         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| o-Xylene               | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| m,p-Xylene             | <0.0079        | 0.0079     | mg/kg dry | SW-846 8260C | 4/5/17 13:03  | WL      |
| Surrogates             |                |            | RANGE     | SW-846 8260C | 4/5/17 13:03  | WL      |
| Dibromofluoromethane   | 110            |            | 70-130%   | SW-846 8260C | 4/5/17 13:03  | WL      |
| Toluene-d8             | 94             |            | 70-130%   | SW-846 8260C | 4/5/17 13:03  | WL      |
| 4-Bromofluorobenzene   | 91             |            | 70-130%   | SW-846 8260C | 4/5/17 13:03  | WL      |
| 1,2 Dichloroethane-d4  | 117            |            | 70-130%   | SW-846 8260C | 4/5/17 13:03  | WL      |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 003  
**Sample Description:** COMP-3  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD          | DATE ANALYZED | ANALYST  |
|-----------------------------|----------------|------------|-----------|-----------------|---------------|----------|
| TPH                         |                |            |           |                 |               |          |
| TPH GC/FID                  | 55             | 11         | mg/kg dry | SW-846 8100M    | 4/6/17        | 6:29 JEB |
| Surrogate                   |                |            | RANGE     | SW-846 8100M    | 4/6/17        | 6:29 JEB |
| 2-Fluorobiphenyl            | 80             |            | 40-140%   | SW-846 8100M    | 4/6/17        | 6:29 JEB |
| Moisture                    | 7.0            |            | %         | SM2540G 18-21ed | 4/6/17        | 14:54 NS |
| Semi-Volatile Organic Comp. |                |            |           |                 |               |          |
| Acenaphthene                | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| Acenaphthylene              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| Anthracene                  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| Benzidine                   | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| Benzo(a)anthracene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| Benzo(b)fluoranthene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| Benzo(k)fluoranthene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| Benzo(g,h,i)perylene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| Benzo(a)pyrene              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| Bis(2-chloroethyl)ether     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| Bis(2-Chloroethoxy)methane  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| Bis(2-Chloroisopropyl)Ether | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| Bis(2-ethylhexyl)phthalate  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| 4-Bromophenyl phenyl ether  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| Butylbenzyl phthalate       | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| 2-Chloronaphthalene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| 4-Chlorophenyl phenyl ether | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| Chrysene                    | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| Dibenzo(a,h)anthracene      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| Di-n-butyl phthalate        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| 1,2-Dichlorobenzene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| 1,3-Dichlorobenzene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| 1,4-Dichlorobenzene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| 3,3'-Dichlorobenzidine      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| Diethyl phthalate           | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| Dimethyl phthalate          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| 2,4-Dinitrotoluene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |
| 2,6-Dinitrotoluene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:52 JEB |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 003  
**Sample Description:** COMP-3  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                  | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE ANALYZED | ANALYST |
|----------------------------|----------------|------------|-----------|--------------|---------------|---------|
| Di-n-octyl phthalate       | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| 1,2-Diphenylhydrazine      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| Fluoranthene               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| Fluorene                   | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| Hexachlorobenzene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| Hexachlorobutadiene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| Hexachlorocyclopentadiene  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| Hexachloroethane           | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| Indeno(1,2,3-cd)pyrene     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| Isophorone                 | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| 2-Methylnaphthalene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| Naphthalene                | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| Nitrobenzene               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| N-nitrosodimethylamine     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| N-nitrosodiphenylamine     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| N-nitrosodi-n-propylamine  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| Phenanthrene               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| Pyrene                     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| 1,2,4-Trichlorobenzene     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| 4-Chloro-3-methylphenol    | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| 2-Chlorophenol             | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| 2,4-Dichlorophenol         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| 2,4-Dimethylphenol         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| 2-Methyl-4,6-dinitrophenol | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| 2,4-Dinitrophenol          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| 2-Nitrophenol              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| 4-Nitrophenol              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| Pentachlorophenol          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| Phenol                     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| 2,4,5-Trichlorophenol      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| 2,4,6-Trichlorophenol      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| 4-Chloroaniline            | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| Dibenzofuran               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| 2-Methyl Phenol            | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |
| 3 & 4-Methylphenols        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:52   | JEB     |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 003  
**Sample Description:** COMP-3  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER            | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD          | DATE ANALYZED | ANALYST |
|----------------------|----------------|------------|-----------|-----------------|---------------|---------|
| Aniline              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17 2:52   | JEB     |
| Acetophenone         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17 2:52   | JEB     |
| Azobenzene           | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17 2:52   | JEB     |
| Surrogates           |                |            | RANGE     |                 |               |         |
| Phenol-d5            | 83             |            | 30-130%   | SW-846 8270D    | 4/7/17 2:52   | JEB     |
| 2-Fluorophenol       | 79             |            | 30-130%   | SW-846 8270D    | 4/7/17 2:52   | JEB     |
| 2,4,6-Tribromophenol | 88             |            | 30-130%   | SW-846 8270D    | 4/7/17 2:52   | JEB     |
| Nitrobenzene-d5      | 76             |            | 30-130%   | SW-846 8270D    | 4/7/17 2:52   | JEB     |
| 2-Fluorobiphenyl     | 80             |            | 30-130%   | SW-846 8270D    | 4/7/17 2:52   | JEB     |
| P-Terphenyl-d14      | 86             |            | 30-130%   | SW-846 8270D    | 4/7/17 2:52   | JEB     |
| Semi Extraction Date |                |            |           | SW-846 3546     | 4/5/17 16:35  | SRM     |
| Total metals         |                |            |           |                 |               |         |
| Arsenic              | <2.6           | 2.6        | mg/kg dry | SW-846 6010C    | 4/7/17 13:58  | RBR     |
| Barium               | 13             | 0.53       | mg/kg dry | SW-846 6010C    | 4/7/17 13:58  | RBR     |
| Cadmium              | <0.26          | 0.26       | mg/kg dry | SW-846 6010C    | 4/7/17 13:58  | RBR     |
| Chromium             | 7.7            | 1.6        | mg/kg dry | SW-846 6010C    | 4/7/17 13:58  | RBR     |
| Lead                 | 5.6            | 2.1        | mg/kg dry | SW-846 6010C    | 4/7/17 13:58  | RBR     |
| Mercury              | <0.10          | 0.10       | mg/kg dry | SW-846 7471B    | 4/4/17 22:26  | AJD     |
| Selenium             | <5.3           | 5.3        | mg/kg dry | SW-846 6010C    | 4/7/17 13:58  | RBR     |
| Silver               | <1.1           | 1.1        | mg/kg dry | SW-846 6010C    | 4/7/17 13:58  | RBR     |
| ICP Digestion        |                |            |           | SW-846 3050B    | 4/5/17 9:00   | AGJ     |
| Mercury Digestion    |                |            |           | SW-846 7471B    | 4/4/17 21:30  | AGJ     |
| Percent Solids       | 93.0           |            | %         | SM2540G 18-21ed | 4/6/17 14:54  | NS      |
| Extraction Date      |                |            |           | SW-846 5035A    | 4/5/17 8:30   | *CS     |
| PCB                  |                |            |           |                 |               |         |
| Aroclor-1016         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 15:33  | JBW     |
| Aroclor-1221         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 15:33  | JBW     |
| Aroclor-1232         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 15:33  | JBW     |
| Aroclor-1242         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 15:33  | JBW     |
| Aroclor-1248         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 15:33  | JBW     |
| Aroclor-1254         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 15:33  | JBW     |
| Aroclor-1260         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 15:33  | JBW     |
| Aroclor-1262         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 15:33  | JBW     |
| Aroclor-1268         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 15:33  | JBW     |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 003  
**Sample Description:** COMP-3  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS RANGE | METHOD       | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|-------------|--------------|---------------|---------|
| Surrogate                   |                |            |             |              |               |         |
| Tetrachloro-m-xylene (TCMX) | 43             |            | 30-150%     | SW-846 8082A | 4/6/17 15:33  | JBW     |
| Decachlorobiphenyl          | 50             |            | 30-150%     | SW-846 8082A | 4/6/17 15:33  | JBW     |
| Extraction Date             |                |            |             | SW-846 3546  | 4/5/17 21:54  | SRM     |
| Volatile Organic Compounds  |                |            |             |              |               |         |
| Acetone                     | <0.041         | 0.041      | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| Tertiary Amyl Methyl Ether  | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| Benzene                     | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| Bromobenzene                | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| Bromochloromethane          | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| Bromodichloromethane        | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| Bromoform                   | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| Bromomethane                | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| Sec-butylbenzene            | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| n-Butylbenzene              | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| tert-Butylbenzene           | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| Carbon Disulfide            | <0.0083        | 0.0083     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| Carbon Tetrachloride        | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| Chlorobenzene               | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| Dibromochloromethane        | <0.0017        | 0.0017     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| Chloroethane                | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| Chloroform                  | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| Chloromethane               | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| 2-Chlorotoluene             | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| 4-Chlorotoluene             | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| 1,2-Dibromo-3-Chloropropane | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| 1,2-Dibromoethane(EDB)      | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| Dibromomethane              | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| 1,3-Dichlorobenzene         | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| 1,2-Dichlorobenzene         | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| 1,4-Dichlorobenzene         | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| n-Propylbenzene             | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| Dichlorodifluoromethane     | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |
| 1,1-Dichloroethane          | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 13:31  | WL      |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 003  
**Sample Description:** COMP-3  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|-----------|--------------|---------------|---------|
| 1,2-Dichloroethane          | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| 1,1-Dichloroethene          | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| cis-1,2-Dichloroethene      | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| trans-1,2-Dichloroethylene  | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| 1,2-Dichloropropane         | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| 1,3-Dichloropropane         | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| 2,2-Dichloropropane         | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| 1,1-Dichloropropene         | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| cis-1,3-Dichloropropene     | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| trans-1,3-Dichloropropylene | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| Diethyl ether               | <0.041         | 0.041      | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| Diisopropyl Ether (DIPE)    | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| 1,4-Dioxane                 | <0.083         | 0.083      | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| Ethyl Tertiary Butyl Ether  | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| Ethylbenzene                | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| Hexachlorobutadiene         | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| 2-Hexanone                  | <0.041         | 0.041      | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| Isopropylbenzene            | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| p-Isopropyltoluene          | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| 2-Butanone(MEK)             | <0.041         | 0.041      | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| 4-Methyl-2-pentanone(MIBK)  | <0.041         | 0.041      | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| MTBE                        | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| Methylene Chloride          | 0.010          | 0.0083     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| Naphthalene                 | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| 1,1,2-Trichloroethane       | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| Styrene                     | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| 1,1,1,2-Tetrachloroethane   | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| 1,1,2,2-Tetrachloroethane   | <0.0017        | 0.0017     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| Tetrachloroethene           | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| Tetrahydrofuran             | <0.041         | 0.041      | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| Toluene                     | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| 1,2,4-Trichlorobenzene      | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| 1,2,3-Trichlorobenzene      | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| 1,1,1-Trichloroethane       | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| Trichloroethene             | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 003  
**Sample Description:** COMP-3  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER              | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE ANALYZED | ANALYST |
|------------------------|----------------|------------|-----------|--------------|---------------|---------|
| Trichlorofluoromethane | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| 1,2,3-Trichloropropane | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| 1,2,4-Trimethylbenzene | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| 1,3,5-Trimethylbenzene | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| Vinyl Chloride         | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| o-Xylene               | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| m,p-Xylene             | <0.0083        | 0.0083     | mg/kg dry | SW-846 8260C | 4/5/17 13:31  | WL      |
| Surrogates             |                |            | RANGE     | SW-846 8260C | 4/5/17 13:31  | WL      |
| Dibromofluoromethane   | 110            |            | 70-130%   | SW-846 8260C | 4/5/17 13:31  | WL      |
| Toluene-d8             | 93             |            | 70-130%   | SW-846 8260C | 4/5/17 13:31  | WL      |
| 4-Bromofluorobenzene   | 90             |            | 70-130%   | SW-846 8260C | 4/5/17 13:31  | WL      |
| 1,2 Dichloroethane-d4  | 117            |            | 70-130%   | SW-846 8260C | 4/5/17 13:31  | WL      |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 004  
**Sample Description:** COMP-4  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD          | DATE ANALYZED | ANALYST  |
|-----------------------------|----------------|------------|-----------|-----------------|---------------|----------|
| TPH                         |                |            |           |                 |               |          |
| TPH GC/FID                  | <10            | 11         | mg/kg dry | SW-846 8100M    | 4/6/17        | 0:59 JEB |
| Surrogate                   |                |            | RANGE     | SW-846 8100M    | 4/6/17        | 0:59 JEB |
| 2-Fluorobiphenyl            | 57             |            | 40-140%   | SW-846 8100M    | 4/6/17        | 0:59 JEB |
| Moisture                    | 8.6            |            | %         | SM2540G 18-21ed | 4/6/17        | 14:54 NS |
| Semi-Volatile Organic Comp. |                |            |           |                 |               |          |
| Acenaphthene                | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| Acenaphthylene              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| Anthracene                  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| Benzydine                   | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| Benzo(a)anthracene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| Benzo(b)fluoranthene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| Benzo(k)fluoranthene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| Benzo(g,h,i)perylene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| Benzo(a)pyrene              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| Bis(2-chloroethyl)ether     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| Bis(2-Chloroethoxy)methane  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| Bis(2-Chloroisopropyl)Ether | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| Bis(2-ethylhexyl)phthalate  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| 4-Bromophenyl phenyl ether  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| Butylbenzyl phthalate       | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| 2-Chloronaphthalene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| 4-Chlorophenyl phenyl ether | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| Chrysene                    | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| Dibenzo(a,h)anthracene      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| Di-n-butyl phthalate        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| 1,2-Dichlorobenzene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| 1,3-Dichlorobenzene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| 1,4-Dichlorobenzene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| 3,3'-Dichlorobenzidine      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| Diethyl phthalate           | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| Dimethyl phthalate          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| 2,4-Dinitrotoluene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |
| 2,6-Dinitrotoluene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 0:57 JEB |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 004  
**Sample Description:** COMP-4  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                  | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE ANALYZED | ANALYST |
|----------------------------|----------------|------------|-----------|--------------|---------------|---------|
| Di-n-octyl phthalate       | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| 1,2-Diphenylhydrazine      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| Fluoranthene               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| Fluorene                   | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| Hexachlorobenzene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| Hexachlorobutadiene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| Hexachlorocyclopentadiene  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| Hexachloroethane           | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| Indeno(1,2,3-cd)pyrene     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| Isophorone                 | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| 2-Methylnaphthalene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| Naphthalene                | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| Nitrobenzene               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| N-nitrosodimethylamine     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| N-nitrosodiphenylamine     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| N-nitrosodi-n-propylamine  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| Phenanthrene               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| Pyrene                     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| 1,2,4-Trichlorobenzene     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| 4-Chloro-3-methylphenol    | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| 2-Chlorophenol             | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| 2,4-Dichlorophenol         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| 2,4-Dimethylphenol         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| 2-Methyl-4,6-dinitrophenol | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| 2,4-Dinitrophenol          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| 2-Nitrophenol              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| 4-Nitrophenol              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| Pentachlorophenol          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| Phenol                     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| 2,4,5-Trichlorophenol      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| 2,4,6-Trichlorophenol      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| 4-Chloroaniline            | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| Dibenzofuran               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| 2-Methyl Phenol            | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |
| 3 & 4-Methylphenols        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 0:57   | JEB     |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 004  
**Sample Description:** COMP-4  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER            | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD          | DATE ANALYZED | ANALYST |
|----------------------|----------------|------------|-----------|-----------------|---------------|---------|
| Aniline              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17 0:57   | JEB     |
| Acetophenone         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17 0:57   | JEB     |
| Azobenzene           | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17 0:57   | JEB     |
| Surrogates           |                |            | RANGE     |                 |               |         |
| Phenol-d5            | 82             |            | 30-130%   | SW-846 8270D    | 4/7/17 0:57   | JEB     |
| 2-Fluorophenol       | 78             |            | 30-130%   | SW-846 8270D    | 4/7/17 0:57   | JEB     |
| 2,4,6-Tribromophenol | 84             |            | 30-130%   | SW-846 8270D    | 4/7/17 0:57   | JEB     |
| Nitrobenzene-d5      | 76             |            | 30-130%   | SW-846 8270D    | 4/7/17 0:57   | JEB     |
| 2-Fluorobiphenyl     | 77             |            | 30-130%   | SW-846 8270D    | 4/7/17 0:57   | JEB     |
| P-Terphenyl-d14      | 84             |            | 30-130%   | SW-846 8270D    | 4/7/17 0:57   | JEB     |
| Semi Extraction Date |                |            |           | SW-846 3546     | 4/5/17 16:35  | SRM     |
| Total metals         |                |            |           |                 |               |         |
| Arsenic              | <2.7           | 2.7        | mg/kg dry | SW-846 6010C    | 4/7/17 14:02  | RBR     |
| Barium               | 12             | 0.53       | mg/kg dry | SW-846 6010C    | 4/7/17 14:02  | RBR     |
| Cadmium              | <0.27          | 0.27       | mg/kg dry | SW-846 6010C    | 4/7/17 14:02  | RBR     |
| Chromium             | 6.7            | 1.6        | mg/kg dry | SW-846 6010C    | 4/7/17 14:02  | RBR     |
| Lead                 | 6.0            | 2.1        | mg/kg dry | SW-846 6010C    | 4/7/17 14:02  | RBR     |
| Mercury              | <0.094         | 0.094      | mg/kg dry | SW-846 7471B    | 4/4/17 22:27  | AJD     |
| Selenium             | <5.3           | 5.3        | mg/kg dry | SW-846 6010C    | 4/7/17 14:02  | RBR     |
| Silver               | <1.1           | 1.1        | mg/kg dry | SW-846 6010C    | 4/7/17 14:02  | RBR     |
| ICP Digestion        |                |            |           | SW-846 3050B    | 4/5/17 9:00   | AGJ     |
| Mercury Digestion    |                |            |           | SW-846 7471B    | 4/4/17 21:30  | AGJ     |
| Percent Solids       | 91.4           |            | %         | SM2540G 18-21ed | 4/6/17 14:54  | NS      |
| Extraction Date      |                |            |           | SW-846 5035A    | 4/5/17 8:30   | *CS     |
| PCB                  |                |            |           |                 |               |         |
| Aroclor-1016         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 16:01  | JBW     |
| Aroclor-1221         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 16:01  | JBW     |
| Aroclor-1232         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 16:01  | JBW     |
| Aroclor-1242         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 16:01  | JBW     |
| Aroclor-1248         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 16:01  | JBW     |
| Aroclor-1254         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 16:01  | JBW     |
| Aroclor-1260         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 16:01  | JBW     |
| Aroclor-1262         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 16:01  | JBW     |
| Aroclor-1268         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 16:01  | JBW     |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 004  
**Sample Description:** COMP-4  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS RANGE | METHOD       | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|-------------|--------------|---------------|---------|
| Surrogate                   |                |            |             |              |               |         |
| Tetrachloro-m-xylene (TCMX) | 69             |            | 30-150%     | SW-846 8082A | 4/6/17 16:01  | JBW     |
| Decachlorobiphenyl          | 78             |            | 30-150%     | SW-846 8082A | 4/6/17 16:01  | JBW     |
| Extraction Date             |                |            |             | SW-846 3546  | 4/5/17 21:54  | SRM     |
| Volatile Organic Compounds  |                |            |             |              |               |         |
| Acetone                     | <0.040         | 0.040      | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| Tertiary Amyl Methyl Ether  | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| Benzene                     | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| Bromobenzene                | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| Bromochloromethane          | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| Bromodichloromethane        | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| Bromoform                   | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| Bromomethane                | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| Sec-butylbenzene            | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| n-Butylbenzene              | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| tert-Butylbenzene           | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| Carbon Disulfide            | <0.0079        | 0.0079     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| Carbon Tetrachloride        | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| Chlorobenzene               | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| Dibromochloromethane        | <0.0016        | 0.0016     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| Chloroethane                | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| Chloroform                  | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| Chloromethane               | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| 2-Chlorotoluene             | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| 4-Chlorotoluene             | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| 1,2-Dibromo-3-Chloropropane | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| 1,2-Dibromoethane(EDB)      | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| Dibromomethane              | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| 1,3-Dichlorobenzene         | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| 1,2-Dichlorobenzene         | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| 1,4-Dichlorobenzene         | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| n-Propylbenzene             | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| Dichlorodifluoromethane     | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |
| 1,1-Dichloroethane          | <0.0040        | 0.0040     | mg/kg dry   | SW-846 8260C | 4/5/17 13:58  | WL      |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 004  
**Sample Description:** COMP-4  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|-----------|--------------|---------------|---------|
| 1,2-Dichloroethane          | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| 1,1-Dichloroethene          | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| cis-1,2-Dichloroethene      | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| trans-1,2-Dichloroethylene  | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| 1,2-Dichloropropane         | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| 1,3-Dichloropropane         | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| 2,2-Dichloropropane         | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| 1,1-Dichloropropene         | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| cis-1,3-Dichloropropene     | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| trans-1,3-Dichloropropylene | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| Diethyl ether               | <0.040         | 0.040      | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| Diisopropyl Ether (DIPE)    | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| 1,4-Dioxane                 | <0.079         | 0.079      | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| Ethyl Tertiary Butyl Ether  | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| Ethylbenzene                | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| Hexachlorobutadiene         | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| 2-Hexanone                  | <0.040         | 0.040      | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| Isopropylbenzene            | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| p-Isopropyltoluene          | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| 2-Butanone(MEK)             | <0.040         | 0.040      | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| 4-Methyl-2-pentanone(MIBK)  | <0.040         | 0.040      | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| MTBE                        | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| Methylene Chloride          | <0.0079        | 0.0079     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| Naphthalene                 | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| 1,1,2-Trichloroethane       | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| Styrene                     | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| 1,1,1,2-Tetrachloroethane   | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| 1,1,2,2-Tetrachloroethane   | <0.0016        | 0.0016     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| Tetrachloroethene           | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| Tetrahydrofuran             | <0.040         | 0.040      | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| Toluene                     | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| 1,2,4-Trichlorobenzene      | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| 1,2,3-Trichlorobenzene      | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| 1,1,1-Trichloroethane       | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| Trichloroethene             | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 004  
**Sample Description:** COMP-4  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER              | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE ANALYZED | ANALYST |
|------------------------|----------------|------------|-----------|--------------|---------------|---------|
| Trichlorofluoromethane | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| 1,2,3-Trichloropropane | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| 1,2,4-Trimethylbenzene | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| 1,3,5-Trimethylbenzene | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| Vinyl Chloride         | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| o-Xylene               | <0.0040        | 0.0040     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| m,p-Xylene             | <0.0079        | 0.0079     | mg/kg dry | SW-846 8260C | 4/5/17 13:58  | WL      |
| Surrogates             |                |            | RANGE     | SW-846 8260C | 4/5/17 13:58  | WL      |
| Dibromofluoromethane   | 111            |            | 70-130%   | SW-846 8260C | 4/5/17 13:58  | WL      |
| Toluene-d8             | 94             |            | 70-130%   | SW-846 8260C | 4/5/17 13:58  | WL      |
| 4-Bromofluorobenzene   | 89             |            | 70-130%   | SW-846 8260C | 4/5/17 13:58  | WL      |
| 1,2 Dichloroethane-d4  | 121            |            | 70-130%   | SW-846 8260C | 4/5/17 13:58  | WL      |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 005  
**Sample Description:** COMP-5  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD          | DATE ANALYZED | ANALYST  |
|-----------------------------|----------------|------------|-----------|-----------------|---------------|----------|
| TPH                         |                |            |           |                 |               |          |
| TPH GC/FID                  | 17             | 10         | mg/kg dry | SW-846 8100M    | 4/6/17        | 1:36 JEB |
| Surrogate                   |                |            | RANGE     | SW-846 8100M    | 4/6/17        | 1:36 JEB |
| 2-Fluorobiphenyl            | 74             |            | 40-140%   | SW-846 8100M    | 4/6/17        | 1:36 JEB |
| Moisture                    | 4.6            |            | %         | SM2540G 18-21ed | 4/6/17        | 14:54 NS |
| Semi-Volatile Organic Comp. |                |            |           |                 |               |          |
| Acenaphthene                | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| Acenaphthylene              | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| Anthracene                  | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| Benzidine                   | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| Benzo(a)anthracene          | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| Benzo(b)fluoranthene        | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| Benzo(k)fluoranthene        | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| Benzo(g,h,i)perylene        | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| Benzo(a)pyrene              | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| Bis(2-chloroethyl)ether     | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| Bis(2-Chloroethoxy)methane  | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| Bis(2-Chloroisopropyl)Ether | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| Bis(2-ethylhexyl)phthalate  | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| 4-Bromophenyl phenyl ether  | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| Butylbenzyl phthalate       | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| 2-Chloronaphthalene         | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| 4-Chlorophenyl phenyl ether | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| Chrysene                    | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| Dibenzo(a,h)anthracene      | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| Di-n-butyl phthalate        | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| 1,2-Dichlorobenzene         | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| 1,3-Dichlorobenzene         | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| 1,4-Dichlorobenzene         | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| 3,3'-Dichlorobenzidine      | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| Diethyl phthalate           | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| Dimethyl phthalate          | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| 2,4-Dinitrotoluene          | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |
| 2,6-Dinitrotoluene          | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17        | 4:18 JEB |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 005  
**Sample Description:** COMP-5  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                  | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE ANALYZED | ANALYST |
|----------------------------|----------------|------------|-----------|--------------|---------------|---------|
| Di-n-octyl phthalate       | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| 1,2-Diphenylhydrazine      | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| Fluoranthene               | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| Fluorene                   | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| Hexachlorobenzene          | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| Hexachlorobutadiene        | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| Hexachlorocyclopentadiene  | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| Hexachloroethane           | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| Indeno(1,2,3-cd)pyrene     | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| Isophorone                 | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| 2-Methylnaphthalene        | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| Naphthalene                | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| Nitrobenzene               | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| N-nitrosodimethylamine     | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| N-nitrosodiphenylamine     | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| N-nitrosodi-n-propylamine  | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| Phenanthrene               | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| Pyrene                     | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| 1,2,4-Trichlorobenzene     | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| 4-Chloro-3-methylphenol    | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| 2-Chlorophenol             | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| 2,4-Dichlorophenol         | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| 2,4-Dimethylphenol         | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| 2-Methyl-4,6-dinitrophenol | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| 2,4-Dinitrophenol          | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| 2-Nitrophenol              | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| 4-Nitrophenol              | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| Pentachlorophenol          | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| Phenol                     | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| 2,4,5-Trichlorophenol      | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| 2,4,6-Trichlorophenol      | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| 4-Chloroaniline            | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| Dibenzofuran               | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| 2-Methyl Phenol            | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |
| 3 & 4-Methylphenols        | <0.35          | 0.35       | mg/kg dry | SW-846 8270D | 4/7/17 4:18   | JEB     |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 005  
**Sample Description:** COMP-5  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER            | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD          | DATE ANALYZED | ANALYST |
|----------------------|----------------|------------|-----------|-----------------|---------------|---------|
| Aniline              | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 4:18   | JEB     |
| Acetophenone         | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 4:18   | JEB     |
| Azobenzene           | <0.35          | 0.35       | mg/kg dry | SW-846 8270D    | 4/7/17 4:18   | JEB     |
| Surrogates           |                |            | RANGE     |                 |               |         |
| Phenol-d5            | 85             |            | 30-130%   | SW-846 8270D    | 4/7/17 4:18   | JEB     |
| 2-Fluorophenol       | 82             |            | 30-130%   | SW-846 8270D    | 4/7/17 4:18   | JEB     |
| 2,4,6-Tribromophenol | 92             |            | 30-130%   | SW-846 8270D    | 4/7/17 4:18   | JEB     |
| Nitrobenzene-d5      | 79             |            | 30-130%   | SW-846 8270D    | 4/7/17 4:18   | JEB     |
| 2-Fluorobiphenyl     | 81             |            | 30-130%   | SW-846 8270D    | 4/7/17 4:18   | JEB     |
| P-Terphenyl-d14      | 89             |            | 30-130%   | SW-846 8270D    | 4/7/17 4:18   | JEB     |
| Semi Extraction Date |                |            |           | SW-846 3546     | 4/5/17 16:35  | SRM     |
| Total metals         |                |            |           |                 |               |         |
| Arsenic              | <2.6           | 2.6        | mg/kg dry | SW-846 6010C    | 4/7/17 14:12  | RBR     |
| Barium               | 6.5            | 0.52       | mg/kg dry | SW-846 6010C    | 4/7/17 14:12  | RBR     |
| Cadmium              | <0.26          | 0.26       | mg/kg dry | SW-846 6010C    | 4/7/17 14:12  | RBR     |
| Chromium             | 3.4            | 1.6        | mg/kg dry | SW-846 6010C    | 4/7/17 14:12  | RBR     |
| Lead                 | 3.0            | 2.1        | mg/kg dry | SW-846 6010C    | 4/7/17 14:12  | RBR     |
| Mercury              | <0.10          | 0.10       | mg/kg dry | SW-846 7471B    | 4/4/17 22:29  | AJD     |
| Selenium             | <5.2           | 5.2        | mg/kg dry | SW-846 6010C    | 4/7/17 14:12  | RBR     |
| Silver               | <1.0           | 1.0        | mg/kg dry | SW-846 6010C    | 4/7/17 14:12  | RBR     |
| ICP Digestion        |                |            |           | SW-846 3050B    | 4/5/17 9:00   | AGJ     |
| Mercury Digestion    |                |            |           | SW-846 7471B    | 4/4/17 21:30  | AGJ     |
| Percent Solids       | 95.4           |            | %         | SM2540G 18-21ed | 4/6/17 14:54  | NS      |
| Extraction Date      |                |            |           | SW-846 5035A    | 4/5/17 8:30   | *CS     |
| PCB                  |                |            |           |                 |               |         |
| Aroclor-1016         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 16:30  | JBW     |
| Aroclor-1221         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 16:30  | JBW     |
| Aroclor-1232         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 16:30  | JBW     |
| Aroclor-1242         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 16:30  | JBW     |
| Aroclor-1248         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 16:30  | JBW     |
| Aroclor-1254         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 16:30  | JBW     |
| Aroclor-1260         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 16:30  | JBW     |
| Aroclor-1262         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 16:30  | JBW     |
| Aroclor-1268         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 16:30  | JBW     |

## R.I. Analytical Laboratories, Inc.

## Laboratory Report

Green Seal Environmental, Inc.

Work Order #: 1703-06586

Project Name: PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 005  
**Sample Description:** COMP-5  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS RANGE | METHOD       | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|-------------|--------------|---------------|---------|
| Surrogate                   |                |            |             |              |               |         |
| Tetrachloro-m-xylene (TCMX) | 78             |            | 30-150%     | SW-846 8082A | 4/6/17 16:30  | JBW     |
| Decachlorobiphenyl          | 84             |            | 30-150%     | SW-846 8082A | 4/6/17 16:30  | JBW     |
| Extraction Date             |                |            |             | SW-846 3546  | 4/5/17 21:54  | SRM     |
| Volatile Organic Compounds  |                |            |             |              |               |         |
| Acetone                     | <0.041         | 0.041      | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| Tertiary Amyl Methyl Ether  | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| Benzene                     | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| Bromobenzene                | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| Bromochloromethane          | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| Bromodichloromethane        | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| Bromoform                   | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| Bromomethane                | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| Sec-butylbenzene            | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| n-Butylbenzene              | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| tert-Butylbenzene           | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| Carbon Disulfide            | <0.0082        | 0.0082     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| Carbon Tetrachloride        | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| Chlorobenzene               | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| Dibromochloromethane        | <0.0016        | 0.0016     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| Chloroethane                | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| Chloroform                  | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| Chloromethane               | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| 2-Chlorotoluene             | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| 4-Chlorotoluene             | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| 1,2-Dibromo-3-Chloropropane | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| 1,2-Dibromoethane(EDB)      | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| Dibromomethane              | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| 1,3-Dichlorobenzene         | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| 1,2-Dichlorobenzene         | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| 1,4-Dichlorobenzene         | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| n-Propylbenzene             | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| Dichlorodifluoromethane     | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |
| 1,1-Dichloroethane          | <0.0041        | 0.0041     | mg/kg dry   | SW-846 8260C | 4/5/17 14:26  | WL      |

## R.I. Analytical Laboratories, Inc.

## Laboratory Report

Green Seal Environmental, Inc.

Work Order #: 1703-06586

Project Name: PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 005  
**Sample Description:** COMP-5  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|-----------|--------------|---------------|---------|
| 1,2-Dichloroethane          | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| 1,1-Dichloroethene          | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| cis-1,2-Dichloroethene      | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| trans-1,2-Dichloroethylene  | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| 1,2-Dichloropropane         | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| 1,3-Dichloropropane         | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| 2,2-Dichloropropane         | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| 1,1-Dichloropropene         | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| cis-1,3-Dichloropropene     | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| trans-1,3-Dichloropropylene | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| Diethyl ether               | <0.041         | 0.041      | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| Diisopropyl Ether (DIPE)    | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| 1,4-Dioxane                 | <0.082         | 0.082      | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| Ethyl Tertiary Butyl Ether  | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| Ethylbenzene                | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| Hexachlorobutadiene         | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| 2-Hexanone                  | <0.041         | 0.041      | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| Isopropylbenzene            | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| p-Isopropyltoluene          | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| 2-Butanone(MEK)             | <0.041         | 0.041      | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| 4-Methyl-2-pentanone(MIBK)  | <0.041         | 0.041      | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| MTBE                        | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| Methylene Chloride          | 0.014          | 0.0082     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| Naphthalene                 | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| 1,1,2-Trichloroethane       | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| Styrene                     | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| 1,1,1,2-Tetrachloroethane   | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| 1,1,2,2-Tetrachloroethane   | <0.0016        | 0.0016     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| Tetrachloroethene           | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| Tetrahydrofuran             | <0.041         | 0.041      | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| Toluene                     | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| 1,2,4-Trichlorobenzene      | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| 1,2,3-Trichlorobenzene      | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| 1,1,1-Trichloroethane       | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| Trichloroethene             | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |

## R.I. Analytical Laboratories, Inc.

## Laboratory Report

Green Seal Environmental, Inc.

Work Order #: 1703-06586

Project Name: PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 005  
**Sample Description:** COMP-5  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER              | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE ANALYZED | ANALYST |
|------------------------|----------------|------------|-----------|--------------|---------------|---------|
| Trichlorofluoromethane | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| 1,2,3-Trichloropropane | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| 1,2,4-Trimethylbenzene | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| 1,3,5-Trimethylbenzene | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| Vinyl Chloride         | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| o-Xylene               | <0.0041        | 0.0041     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| m,p-Xylene             | <0.0082        | 0.0082     | mg/kg dry | SW-846 8260C | 4/5/17 14:26  | WL      |
| Surrogates             |                |            | RANGE     | SW-846 8260C | 4/5/17 14:26  | WL      |
| Dibromofluoromethane   | 113            |            | 70-130%   | SW-846 8260C | 4/5/17 14:26  | WL      |
| Toluene-d8             | 93             |            | 70-130%   | SW-846 8260C | 4/5/17 14:26  | WL      |
| 4-Bromofluorobenzene   | 91             |            | 70-130%   | SW-846 8260C | 4/5/17 14:26  | WL      |
| 1,2 Dichloroethane-d4  | 123            |            | 70-130%   | SW-846 8260C | 4/5/17 14:26  | WL      |

## R.I. Analytical Laboratories, Inc.

## Laboratory Report

Green Seal Environmental, Inc.

Work Order #: 1703-06586

Project Name: PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 006  
**Sample Description:** COMP-6  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD          | DATE ANALYZED | ANALYST  |
|-----------------------------|----------------|------------|-----------|-----------------|---------------|----------|
| TPH                         |                |            |           |                 |               |          |
| TPH GC/FID                  | 14             | 11         | mg/kg dry | SW-846 8100M    | 4/6/17        | 2:13 JEB |
| Surrogate                   |                |            | RANGE     | SW-846 8100M    | 4/6/17        | 2:13 JEB |
| 2-Fluorobiphenyl            | 74             |            | 40-140%   | SW-846 8100M    | 4/6/17        | 2:13 JEB |
| Moisture                    | 6.6            |            | %         | SM2540G 18-21ed | 4/6/17        | 14:54 NS |
| Semi-Volatile Organic Comp. |                |            |           |                 |               |          |
| Acenaphthene                | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| Acenaphthylene              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| Anthracene                  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| Benzidine                   | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| Benzo(a)anthracene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| Benzo(b)fluoranthene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| Benzo(k)fluoranthene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| Benzo(g,h,i)perylene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| Benzo(a)pyrene              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| Bis(2-chloroethyl)ether     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| Bis(2-Chloroethoxy)methane  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| Bis(2-Chloroisopropyl)Ether | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| Bis(2-ethylhexyl)phthalate  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| 4-Bromophenyl phenyl ether  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| Butylbenzyl phthalate       | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| 2-Chloronaphthalene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| 4-Chlorophenyl phenyl ether | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| Chrysene                    | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| Dibenzo(a,h)anthracene      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| Di-n-butyl phthalate        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| 1,2-Dichlorobenzene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| 1,3-Dichlorobenzene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| 1,4-Dichlorobenzene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| 3,3'-Dichlorobenzidine      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| Diethyl phthalate           | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| Dimethyl phthalate          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| 2,4-Dinitrotoluene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |
| 2,6-Dinitrotoluene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:26 JEB |

## R.I. Analytical Laboratories, Inc.

## Laboratory Report

Green Seal Environmental, Inc.

Work Order #: 1703-06586

Project Name: PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 006  
**Sample Description:** COMP-6  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                  | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE ANALYZED | ANALYST |
|----------------------------|----------------|------------|-----------|--------------|---------------|---------|
| Di-n-octyl phthalate       | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| 1,2-Diphenylhydrazine      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| Fluoranthene               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| Fluorene                   | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| Hexachlorobenzene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| Hexachlorobutadiene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| Hexachlorocyclopentadiene  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| Hexachloroethane           | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| Indeno(1,2,3-cd)pyrene     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| Isophorone                 | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| 2-Methylnaphthalene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| Naphthalene                | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| Nitrobenzene               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| N-nitrosodimethylamine     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| N-nitrosodiphenylamine     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| N-nitrosodi-n-propylamine  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| Phenanthrene               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| Pyrene                     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| 1,2,4-Trichlorobenzene     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| 4-Chloro-3-methylphenol    | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| 2-Chlorophenol             | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| 2,4-Dichlorophenol         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| 2,4-Dimethylphenol         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| 2-Methyl-4,6-dinitrophenol | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| 2,4-Dinitrophenol          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| 2-Nitrophenol              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| 4-Nitrophenol              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| Pentachlorophenol          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| Phenol                     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| 2,4,5-Trichlorophenol      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| 2,4,6-Trichlorophenol      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| 4-Chloroaniline            | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| Dibenzofuran               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| 2-Methyl Phenol            | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |
| 3 & 4-Methylphenols        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:26   | JEB     |

## R.I. Analytical Laboratories, Inc.

## Laboratory Report

Green Seal Environmental, Inc.

Work Order #: 1703-06586

Project Name: PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 006  
**Sample Description:** COMP-6  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER            | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD           | DATE ANALYZED | ANALYST |
|----------------------|----------------|------------|-----------|------------------|---------------|---------|
| Aniline              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D     | 4/7/17 1:26   | JEB     |
| Acetophenone         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D     | 4/7/17 1:26   | JEB     |
| Azobenzene           | <0.36          | 0.36       | mg/kg dry | SW-846 8270D     | 4/7/17 1:26   | JEB     |
| Surrogates           |                |            | RANGE     |                  |               |         |
| Phenol-d5            | 80             |            | 30-130%   | SW-846 8270D     | 4/7/17 1:26   | JEB     |
| 2-Fluorophenol       | 77             |            | 30-130%   | SW-846 8270D     | 4/7/17 1:26   | JEB     |
| 2,4,6-Tribromophenol | 85             |            | 30-130%   | SW-846 8270D     | 4/7/17 1:26   | JEB     |
| Nitrobenzene-d5      | 75             |            | 30-130%   | SW-846 8270D     | 4/7/17 1:26   | JEB     |
| 2-Fluorobiphenyl     | 76             |            | 30-130%   | SW-846 8270D     | 4/7/17 1:26   | JEB     |
| P-Terphenyl-d14      | 86             |            | 30-130%   | SW-846 8270D     | 4/7/17 1:26   | JEB     |
| Semi Extraction Date |                |            |           | SW-846 3546      | 4/5/17 16:35  | SRM     |
| Total metals         |                |            |           |                  |               |         |
| Arsenic              | <2.6           | 2.6        | mg/kg dry | SW-846 6010C     | 4/7/17 14:17  | RBR     |
| Barium               | 11             | 0.53       | mg/kg dry | SW-846 6010C     | 4/7/17 14:17  | RBR     |
| Cadmium              | <0.26          | 0.26       | mg/kg dry | SW-846 6010C     | 4/7/17 14:17  | RBR     |
| Chromium             | 6.0            | 1.6        | mg/kg dry | SW-846 6010C     | 4/7/17 14:17  | RBR     |
| Lead                 | 6.5            | 2.1        | mg/kg dry | SW-846 6010C     | 4/7/17 14:17  | RBR     |
| Mercury              | <0.092         | 0.092      | mg/kg dry | SW-846 7471B     | 4/4/17 22:32  | AJD     |
| Selenium             | <5.3           | 5.3        | mg/kg dry | SW-846 6010C     | 4/7/17 14:17  | RBR     |
| Silver               | <1.1           | 1.1        | mg/kg dry | SW-846 6010C     | 4/7/17 14:17  | RBR     |
| ICP Digestion        |                |            |           | SW-846 3050B     | 4/5/17 9:00   | AGJ     |
| Mercury Digestion    |                |            |           | SW-846 7471B     | 4/4/17 21:30  | AGJ     |
| Percent Solids       | 93.4           |            | %         | SM2540G 18-21 ed | 4/6/17 14:54  | NS      |
| Extraction Date      |                |            |           | SW-846 5035A     | 4/5/17 8:30   | *CS     |
| PCB                  |                |            |           |                  |               |         |
| Aroclor-1016         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A     | 4/7/17 10:14  | JBW     |
| Aroclor-1221         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A     | 4/7/17 10:14  | JBW     |
| Aroclor-1232         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A     | 4/7/17 10:14  | JBW     |
| Aroclor-1242         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A     | 4/7/17 10:14  | JBW     |
| Aroclor-1248         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A     | 4/7/17 10:14  | JBW     |
| Aroclor-1254         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A     | 4/7/17 10:14  | JBW     |
| Aroclor-1260         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A     | 4/7/17 10:14  | JBW     |
| Aroclor-1262         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A     | 4/7/17 10:14  | JBW     |
| Aroclor-1268         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A     | 4/7/17 10:14  | JBW     |

## R.I. Analytical Laboratories, Inc.

## Laboratory Report

Green Seal Environmental, Inc.

Work Order #: 1703-06586

Project Name: PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 006  
**Sample Description:** COMP-6  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS RANGE | METHOD       | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|-------------|--------------|---------------|---------|
| Surrogate                   |                |            |             |              |               |         |
| Tetrachloro-m-xylene (TCMX) | 91             |            | 30-150%     | SW-846 8082A | 4/7/17 10:14  | JBW     |
| Decachlorobiphenyl          | 92             |            | 30-150%     | SW-846 8082A | 4/7/17 10:14  | JBW     |
| Extraction Date             |                |            |             | SW-846 3546  | 4/5/17 21:54  | SRM     |
| Volatile Organic Compounds  |                |            |             |              |               |         |
| Acetone                     | <0.039         | 0.039      | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| Tertiary Amyl Methyl Ether  | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| Benzene                     | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| Bromobenzene                | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| Bromochloromethane          | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| Bromodichloromethane        | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| Bromoform                   | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| Bromomethane                | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| Sec-butylbenzene            | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| n-Butylbenzene              | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| tert-Butylbenzene           | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| Carbon Disulfide            | <0.0078        | 0.0078     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| Carbon Tetrachloride        | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| Chlorobenzene               | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| Dibromochloromethane        | <0.0016        | 0.0016     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| Chloroethane                | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| Chloroform                  | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| Chloromethane               | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| 2-Chlorotoluene             | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| 4-Chlorotoluene             | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| 1,2-Dibromo-3-Chloropropane | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| 1,2-Dibromoethane(EDB)      | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| Dibromomethane              | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| 1,3-Dichlorobenzene         | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| 1,2-Dichlorobenzene         | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| 1,4-Dichlorobenzene         | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| n-Propylbenzene             | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| Dichlorodifluoromethane     | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |
| 1,1-Dichloroethane          | <0.0039        | 0.0039     | mg/kg dry   | SW-846 8260C | 4/5/17 14:53  | WL      |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 006  
**Sample Description:** COMP-6  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|-----------|--------------|---------------|---------|
| 1,2-Dichloroethane          | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| 1,1-Dichloroethene          | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| cis-1,2-Dichloroethene      | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| trans-1,2-Dichloroethylene  | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| 1,2-Dichloropropane         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| 1,3-Dichloropropane         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| 2,2-Dichloropropane         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| 1,1-Dichloropropene         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| cis-1,3-Dichloropropene     | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| trans-1,3-Dichloropropylene | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| Diethyl ether               | <0.039         | 0.039      | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| Diisopropyl Ether (DIPE)    | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| 1,4-Dioxane                 | <0.078         | 0.078      | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| Ethyl Tertiary Butyl Ether  | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| Ethylbenzene                | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| Hexachlorobutadiene         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| 2-Hexanone                  | <0.039         | 0.039      | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| Isopropylbenzene            | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| p-Isopropyltoluene          | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| 2-Butanone(MEK)             | <0.039         | 0.039      | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| 4-Methyl-2-pentanone(MIBK)  | <0.039         | 0.039      | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| MTBE                        | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| Methylene Chloride          | <0.0078        | 0.0078     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| Naphthalene                 | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| 1,1,2-Trichloroethane       | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| Styrene                     | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| 1,1,1,2-Tetrachloroethane   | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| 1,1,2,2-Tetrachloroethane   | <0.0016        | 0.0016     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| Tetrachloroethene           | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| Tetrahydrofuran             | <0.039         | 0.039      | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| Toluene                     | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| 1,2,4-Trichlorobenzene      | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| 1,2,3-Trichlorobenzene      | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| 1,1,1-Trichloroethane       | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| Trichloroethene             | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 006  
**Sample Description:** COMP-6  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER              | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE ANALYZED | ANALYST |
|------------------------|----------------|------------|-----------|--------------|---------------|---------|
| Trichlorofluoromethane | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| 1,2,3-Trichloropropane | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| 1,2,4-Trimethylbenzene | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| 1,3,5-Trimethylbenzene | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| Vinyl Chloride         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| o-Xylene               | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| m,p-Xylene             | <0.0078        | 0.0078     | mg/kg dry | SW-846 8260C | 4/5/17 14:53  | WL      |
| Surrogates             |                |            | RANGE     | SW-846 8260C | 4/5/17 14:53  | WL      |
| Dibromofluoromethane   | 110            |            | 70-130%   | SW-846 8260C | 4/5/17 14:53  | WL      |
| Toluene-d8             | 89             |            | 70-130%   | SW-846 8260C | 4/5/17 14:53  | WL      |
| 4-Bromofluorobenzene   | 88             |            | 70-130%   | SW-846 8260C | 4/5/17 14:53  | WL      |
| 1,2 Dichloroethane-d4  | 123            |            | 70-130%   | SW-846 8260C | 4/5/17 14:53  | WL      |

## R.I. Analytical Laboratories, Inc.

## Laboratory Report

Green Seal Environmental, Inc.

Work Order #: 1703-06586

Project Name: PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 007  
**Sample Description:** COMP-7  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD          | DATE ANALYZED | ANALYST  |
|-----------------------------|----------------|------------|-----------|-----------------|---------------|----------|
| TPH                         |                |            |           |                 |               |          |
| TPH GC/FID                  | 22             | 11         | mg/kg dry | SW-846 8100M    | 4/6/17        | 2:49 JEB |
| Surrogate                   |                |            | RANGE     | SW-846 8100M    | 4/6/17        | 2:49 JEB |
| 2-Fluorobiphenyl            | 70             |            | 40-140%   | SW-846 8100M    | 4/6/17        | 2:49 JEB |
| Moisture                    | 7.8            |            | %         | SM2540G 18-21ed | 4/6/17        | 14:54 NS |
| Semi-Volatile Organic Comp. |                |            |           |                 |               |          |
| Acenaphthene                | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| Acenaphthylene              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| Anthracene                  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| Benzidine                   | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| Benzo(a)anthracene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| Benzo(b)fluoranthene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| Benzo(k)fluoranthene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| Benzo(g,h,i)perylene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| Benzo(a)pyrene              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| Bis(2-chloroethyl)ether     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| Bis(2-Chloroethoxy)methane  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| Bis(2-Chloroisopropyl)Ether | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| Bis(2-ethylhexyl)phthalate  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| 4-Bromophenyl phenyl ether  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| Butylbenzyl phthalate       | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| 2-Chloronaphthalene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| 4-Chlorophenyl phenyl ether | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| Chrysene                    | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| Dibenzo(a,h)anthracene      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| Di-n-butyl phthalate        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| 1,2-Dichlorobenzene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| 1,3-Dichlorobenzene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| 1,4-Dichlorobenzene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| 3,3'-Dichlorobenzidine      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| Diethyl phthalate           | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| Dimethyl phthalate          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| 2,4-Dinitrotoluene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |
| 2,6-Dinitrotoluene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 1:55 JEB |

## R.I. Analytical Laboratories, Inc.

## Laboratory Report

Green Seal Environmental, Inc.

Work Order #: 1703-06586

Project Name: PROJECT #LAWL-1701-0001 BMA-RW 15-33

Sample Number: 007  
 Sample Description: COMP-7  
 Sample Type : COMPOSITE  
 Sample Date / Time : 3/30/2017

| PARAMETER                  | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE ANALYZED | ANALYST |
|----------------------------|----------------|------------|-----------|--------------|---------------|---------|
| Di-n-octyl phthalate       | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| 1,2-Diphenylhydrazine      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| Fluoranthene               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| Fluorene                   | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| Hexachlorobenzene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| Hexachlorobutadiene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| Hexachlorocyclopentadiene  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| Hexachloroethane           | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| Indeno(1,2,3-cd)pyrene     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| Isophorone                 | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| 2-Methylnaphthalene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| Naphthalene                | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| Nitrobenzene               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| N-nitrosodimethylamine     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| N-nitrosodiphenylamine     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| N-nitrosodi-n-propylamine  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| Phenanthrene               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| Pyrene                     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| 1,2,4-Trichlorobenzene     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| 4-Chloro-3-methylphenol    | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| 2-Chlorophenol             | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| 2,4-Dichlorophenol         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| 2,4-Dimethylphenol         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| 2-Methyl-4,6-dinitrophenol | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| 2,4-Dinitrophenol          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| 2-Nitrophenol              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| 4-Nitrophenol              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| Pentachlorophenol          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| Phenol                     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| 2,4,5-Trichlorophenol      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| 2,4,6-Trichlorophenol      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| 4-Chloroaniline            | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| Dibenzofuran               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| 2-Methyl Phenol            | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |
| 3 & 4-Methylphenols        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 1:55   | JEB     |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 007  
**Sample Description:** COMP-7  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER            | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD          | DATE ANALYZED | ANALYST |
|----------------------|----------------|------------|-----------|-----------------|---------------|---------|
| Aniline              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17 1:55   | JEB     |
| Acetophenone         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17 1:55   | JEB     |
| Azobenzene           | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17 1:55   | JEB     |
| Surrogates           |                |            | RANGE     |                 |               |         |
| Phenol-d5            | 80             |            | 30-130%   | SW-846 8270D    | 4/7/17 1:55   | JEB     |
| 2-Fluorophenol       | 77             |            | 30-130%   | SW-846 8270D    | 4/7/17 1:55   | JEB     |
| 2,4,6-Tribromophenol | 87             |            | 30-130%   | SW-846 8270D    | 4/7/17 1:55   | JEB     |
| Nitrobenzene-d5      | 72             |            | 30-130%   | SW-846 8270D    | 4/7/17 1:55   | JEB     |
| 2-Fluorobiphenyl     | 76             |            | 30-130%   | SW-846 8270D    | 4/7/17 1:55   | JEB     |
| P-Terphenyl-d14      | 85             |            | 30-130%   | SW-846 8270D    | 4/7/17 1:55   | JEB     |
| Semi Extraction Date |                |            |           | SW-846 3546     | 4/5/17 16:35  | SRM     |
| Total metals         |                |            |           |                 |               |         |
| Arsenic              | <2.7           | 2.7        | mg/kg dry | SW-846 6010C    | 4/7/17 14:21  | RBR     |
| Barium               | 12             | 0.54       | mg/kg dry | SW-846 6010C    | 4/7/17 14:21  | RBR     |
| Cadmium              | <0.27          | 0.27       | mg/kg dry | SW-846 6010C    | 4/7/17 14:21  | RBR     |
| Chromium             | 7.4            | 1.6        | mg/kg dry | SW-846 6010C    | 4/7/17 14:21  | RBR     |
| Lead                 | 5.1            | 2.2        | mg/kg dry | SW-846 6010C    | 4/7/17 14:21  | RBR     |
| Mercury              | <0.10          | 0.10       | mg/kg dry | SW-846 7471B    | 4/4/17 22:33  | AJD     |
| Selenium             | <5.4           | 5.4        | mg/kg dry | SW-846 6010C    | 4/7/17 14:21  | RBR     |
| Silver               | <1.1           | 1.1        | mg/kg dry | SW-846 6010C    | 4/7/17 14:21  | RBR     |
| ICP Digestion        |                |            |           | SW-846 3050B    | 4/5/17 9:00   | AGJ     |
| Mercury Digestion    |                |            |           | SW-846 7471B    | 4/4/17 21:30  | AGJ     |
| Percent Solids       | 92.2           |            | %         | SM2540G 18-21ed | 4/6/17 14:54  | NS      |
| Extraction Date      |                |            |           | SW-846 5035A    | 4/5/17 8:30   | *CS     |
| PCB                  |                |            |           |                 |               |         |
| Aroclor-1016         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 17:26  | JBW     |
| Aroclor-1221         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 17:26  | JBW     |
| Aroclor-1232         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 17:26  | JBW     |
| Aroclor-1242         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 17:26  | JBW     |
| Aroclor-1248         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 17:26  | JBW     |
| Aroclor-1254         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 17:26  | JBW     |
| Aroclor-1260         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 17:26  | JBW     |
| Aroclor-1262         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 17:26  | JBW     |
| Aroclor-1268         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 17:26  | JBW     |

## R.I. Analytical Laboratories, Inc.

## Laboratory Report

Green Seal Environmental, Inc.

Work Order #: 1703-06586

Project Name: PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 007  
**Sample Description:** COMP-7  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|-----------|--------------|---------------|---------|
| Surrogate                   |                |            | RANGE     |              |               |         |
| Tetrachloro-m-xylene (TCMX) | 32             |            | 30-150%   | SW-846 8082A | 4/6/17 17:26  | JBW     |
| Decachlorobiphenyl          | 38             |            | 30-150%   | SW-846 8082A | 4/6/17 17:26  | JBW     |
| Extraction Date             |                |            |           | SW-846 3546  | 4/5/17 21:54  | SRM     |
| Volatile Organic Compounds  |                |            |           |              |               |         |
| Acetone                     | <0.039         | 0.039      | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Tertiary Amyl Methyl Ether  | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Benzene                     | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Bromobenzene                | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Bromochloromethane          | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Bromodichloromethane        | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Bromoform                   | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Bromomethane                | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Sec-butylbenzene            | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| n-Butylbenzene              | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| tert-Butylbenzene           | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Carbon Disulfide            | <0.0078        | 0.0078     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Carbon Tetrachloride        | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Chlorobenzene               | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Dibromochloromethane        | <0.0016        | 0.0016     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Chloroethane                | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Chloroform                  | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Chloromethane               | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 2-Chlorotoluene             | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 4-Chlorotoluene             | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 1,2-Dibromo-3-Chloropropane | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 1,2-Dibromoethane(EDB)      | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Dibromomethane              | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 1,3-Dichlorobenzene         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 1,2-Dichlorobenzene         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 1,4-Dichlorobenzene         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| n-Propylbenzene             | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Dichlorodifluoromethane     | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 1,1-Dichloroethane          | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |

## R.I. Analytical Laboratories, Inc.

## Laboratory Report

Green Seal Environmental, Inc.

Work Order #: 1703-06586

Project Name: PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 007  
**Sample Description:** COMP-7  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|-----------|--------------|---------------|---------|
| 1,2-Dichloroethane          | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 1,1-Dichloroethene          | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| cis-1,2-Dichloroethene      | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| trans-1,2-Dichloroethylene  | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 1,2-Dichloropropane         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 1,3-Dichloropropane         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 2,2-Dichloropropane         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 1,1-Dichloropropene         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| cis-1,3-Dichloropropene     | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| trans-1,3-Dichloropropylene | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Diethyl ether               | <0.039         | 0.039      | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Diisopropyl Ether (DIPE)    | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 1,4-Dioxane                 | <0.078         | 0.078      | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Ethyl Tertiary Butyl Ether  | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Ethylbenzene                | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Hexachlorobutadiene         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 2-Hexanone                  | <0.039         | 0.039      | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Isopropylbenzene            | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| p-Isopropyltoluene          | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 2-Butanone(MEK)             | <0.039         | 0.039      | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 4-Methyl-2-pentanone(MIBK)  | <0.039         | 0.039      | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| MTBE                        | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Methylene Chloride          | <0.0078        | 0.0078     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Naphthalene                 | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 1,1,2-Trichloroethane       | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Styrene                     | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 1,1,1,2-Tetrachloroethane   | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 1,1,2,2-Tetrachloroethane   | <0.0016        | 0.0016     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Tetrachloroethene           | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Tetrahydrofuran             | <0.039         | 0.039      | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Toluene                     | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 1,2,4-Trichlorobenzene      | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 1,2,3-Trichlorobenzene      | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 1,1,1-Trichloroethane       | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Trichloroethene             | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 007  
**Sample Description:** COMP-7  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER              | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE ANALYZED | ANALYST |
|------------------------|----------------|------------|-----------|--------------|---------------|---------|
| Trichlorofluoromethane | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 1,2,3-Trichloropropane | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 1,2,4-Trimethylbenzene | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| 1,3,5-Trimethylbenzene | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Vinyl Chloride         | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| o-Xylene               | <0.0039        | 0.0039     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| m,p-Xylene             | <0.0078        | 0.0078     | mg/kg dry | SW-846 8260C | 4/5/17 15:20  | WL      |
| Surrogates             |                |            | RANGE     | SW-846 8260C | 4/5/17 15:20  | WL      |
| Dibromofluoromethane   | 112            |            | 70-130%   | SW-846 8260C | 4/5/17 15:20  | WL      |
| Toluene-d8             | 93             |            | 70-130%   | SW-846 8260C | 4/5/17 15:20  | WL      |
| 4-Bromofluorobenzene   | 89             |            | 70-130%   | SW-846 8260C | 4/5/17 15:20  | WL      |
| 1,2 Dichloroethane-d4  | 117            |            | 70-130%   | SW-846 8260C | 4/5/17 15:20  | WL      |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 008  
**Sample Description:** COMP-8  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD          | DATE ANALYZED | ANALYST  |
|-----------------------------|----------------|------------|-----------|-----------------|---------------|----------|
| TPH                         |                |            |           |                 |               |          |
| TPH GC/FID                  | 59             | 11         | mg/kg dry | SW-846 8100M    | 4/6/17        | 3:26 JEB |
| Surrogate                   |                |            | RANGE     | SW-846 8100M    | 4/6/17        | 3:26 JEB |
| 2-Fluorobiphenyl            | 64             |            | 40-140%   | SW-846 8100M    | 4/6/17        | 3:26 JEB |
| Moisture                    | 7.4            |            | %         | SM2540G 18-21ed | 4/6/17        | 14:54 NS |
| Semi-Volatile Organic Comp. |                |            |           |                 |               |          |
| Acenaphthene                | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| Acenaphthylene              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| Anthracene                  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| Benzidine                   | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| Benzo(a)anthracene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| Benzo(b)fluoranthene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| Benzo(k)fluoranthene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| Benzo(g,h,i)perylene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| Benzo(a)pyrene              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| Bis(2-chloroethyl)ether     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| Bis(2-Chloroethoxy)methane  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| Bis(2-Chloroisopropyl)Ether | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| Bis(2-ethylhexyl)phthalate  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| 4-Bromophenyl phenyl ether  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| Butylbenzyl phthalate       | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| 2-Chloronaphthalene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| 4-Chlorophenyl phenyl ether | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| Chrysene                    | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| Dibenzo(a,h)anthracene      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| Di-n-butyl phthalate        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| 1,2-Dichlorobenzene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| 1,3-Dichlorobenzene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| 1,4-Dichlorobenzene         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| 3,3'-Dichlorobenzidine      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| Diethyl phthalate           | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| Dimethyl phthalate          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| 2,4-Dinitrotoluene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |
| 2,6-Dinitrotoluene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17        | 2:24 JEB |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 008  
**Sample Description:** COMP-8  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                  | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE ANALYZED | ANALYST |
|----------------------------|----------------|------------|-----------|--------------|---------------|---------|
| Di-n-octyl phthalate       | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| 1,2-Diphenylhydrazine      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| Fluoranthene               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| Fluorene                   | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| Hexachlorobenzene          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| Hexachlorobutadiene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| Hexachlorocyclopentadiene  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| Hexachloroethane           | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| Indeno(1,2,3-cd)pyrene     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| Isophorone                 | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| 2-Methylnaphthalene        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| Naphthalene                | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| Nitrobenzene               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| N-nitrosodimethylamine     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| N-nitrosodiphenylamine     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| N-nitrosodi-n-propylamine  | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| Phenanthrene               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| Pyrene                     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| 1,2,4-Trichlorobenzene     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| 4-Chloro-3-methylphenol    | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| 2-Chlorophenol             | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| 2,4-Dichlorophenol         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| 2,4-Dimethylphenol         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| 2-Methyl-4,6-dinitrophenol | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| 2,4-Dinitrophenol          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| 2-Nitrophenol              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| 4-Nitrophenol              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| Pentachlorophenol          | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| Phenol                     | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| 2,4,5-Trichlorophenol      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| 2,4,6-Trichlorophenol      | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| 4-Chloroaniline            | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| Dibenzofuran               | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| 2-Methyl Phenol            | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |
| 3 & 4-Methylphenols        | <0.36          | 0.36       | mg/kg dry | SW-846 8270D | 4/7/17 2:24   | JEB     |

## R.I. Analytical Laboratories, Inc.

## Laboratory Report

Green Seal Environmental, Inc.

Work Order #: 1703-06586

Project Name: PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 008  
**Sample Description:** COMP-8  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER            | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD          | DATE ANALYZED | ANALYST |
|----------------------|----------------|------------|-----------|-----------------|---------------|---------|
| Aniline              | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17 2:24   | JEB     |
| Acetophenone         | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17 2:24   | JEB     |
| Azobenzene           | <0.36          | 0.36       | mg/kg dry | SW-846 8270D    | 4/7/17 2:24   | JEB     |
| Surrogates           |                |            | RANGE     |                 |               |         |
| Phenol-d5            | 79             |            | 30-130%   | SW-846 8270D    | 4/7/17 2:24   | JEB     |
| 2-Fluorophenol       | 77             |            | 30-130%   | SW-846 8270D    | 4/7/17 2:24   | JEB     |
| 2,4,6-Tribromophenol | 82             |            | 30-130%   | SW-846 8270D    | 4/7/17 2:24   | JEB     |
| Nitrobenzene-d5      | 73             |            | 30-130%   | SW-846 8270D    | 4/7/17 2:24   | JEB     |
| 2-Fluorobiphenyl     | 74             |            | 30-130%   | SW-846 8270D    | 4/7/17 2:24   | JEB     |
| P-Terphenyl-d14      | 82             |            | 30-130%   | SW-846 8270D    | 4/7/17 2:24   | JEB     |
| Semi Extraction Date |                |            |           | SW-846 3546     | 4/5/17 16:35  | SRM     |
| Total metals         |                |            |           |                 |               |         |
| Arsenic              | <2.7           | 2.7        | mg/kg dry | SW-846 6010C    | 4/7/17 14:25  | RBR     |
| Barium               | 12             | 0.54       | mg/kg dry | SW-846 6010C    | 4/7/17 14:25  | RBR     |
| Cadmium              | <0.27          | 0.27       | mg/kg dry | SW-846 6010C    | 4/7/17 14:25  | RBR     |
| Chromium             | 7.1            | 1.6        | mg/kg dry | SW-846 6010C    | 4/7/17 14:25  | RBR     |
| Lead                 | 5.2            | 2.1        | mg/kg dry | SW-846 6010C    | 4/7/17 14:25  | RBR     |
| Mercury              | <0.10          | 0.10       | mg/kg dry | SW-846 7471B    | 4/4/17 22:34  | AJD     |
| Selenium             | <5.4           | 5.4        | mg/kg dry | SW-846 6010C    | 4/7/17 14:25  | RBR     |
| Silver               | <1.1           | 1.1        | mg/kg dry | SW-846 6010C    | 4/7/17 14:25  | RBR     |
| ICP Digestion        |                |            |           | SW-846 3050B    | 4/5/17 9:00   | AGJ     |
| Mercury Digestion    |                |            |           | SW-846 7471B    | 4/4/17 21:30  | AGJ     |
| Percent Solids       | 92.6           |            | %         | SM2540G 18-21ed | 4/6/17 14:54  | NS      |
| Extraction Date      |                |            |           | SW-846 5035A    | 4/5/17 8:30   | *CS     |
| PCB                  |                |            |           |                 |               |         |
| Aroclor-1016         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 17:55  | JBW     |
| Aroclor-1221         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 17:55  | JBW     |
| Aroclor-1232         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 17:55  | JBW     |
| Aroclor-1242         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 17:55  | JBW     |
| Aroclor-1248         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 17:55  | JBW     |
| Aroclor-1254         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 17:55  | JBW     |
| Aroclor-1260         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 17:55  | JBW     |
| Aroclor-1262         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 17:55  | JBW     |
| Aroclor-1268         | <0.1           | 0.1        | mg/kg dry | SW-846 8082A    | 4/6/17 17:55  | JBW     |

## R.I. Analytical Laboratories, Inc.

## Laboratory Report

Green Seal Environmental, Inc.

Work Order #: 1703-06586

Project Name: PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 008  
**Sample Description:** COMP-8  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS RANGE | METHOD       | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|-------------|--------------|---------------|---------|
| Surrogate                   |                |            |             |              |               |         |
| Tetrachloro-m-xylene (TCMX) | 56             |            | 30-150%     | SW-846 8082A | 4/6/17 17:55  | JBW     |
| Decachlorobiphenyl          | 71             |            | 30-150%     | SW-846 8082A | 4/6/17 17:55  | JBW     |
| Extraction Date             |                |            |             | SW-846 3546  | 4/5/17 21:54  | SRM     |
| Volatile Organic Compounds  |                |            |             |              |               |         |
| Acetone                     | <0.037         | 0.037      | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| Tertiary Amyl Methyl Ether  | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| Benzene                     | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| Bromobenzene                | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| Bromochloromethane          | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| Bromodichloromethane        | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| Bromoform                   | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| Bromomethane                | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| Sec-butylbenzene            | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| n-Butylbenzene              | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| tert-Butylbenzene           | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| Carbon Disulfide            | <0.0075        | 0.0075     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| Carbon Tetrachloride        | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| Chlorobenzene               | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| Dibromochloromethane        | <0.0015        | 0.0015     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| Chloroethane                | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| Chloroform                  | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| Chloromethane               | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| 2-Chlorotoluene             | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| 4-Chlorotoluene             | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| 1,2-Dibromo-3-Chloropropane | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| 1,2-Dibromoethane(EDB)      | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| Dibromomethane              | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| 1,3-Dichlorobenzene         | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| 1,2-Dichlorobenzene         | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| 1,4-Dichlorobenzene         | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| n-Propylbenzene             | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| Dichlorodifluoromethane     | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |
| 1,1-Dichloroethane          | <0.0037        | 0.0037     | mg/kg dry   | SW-846 8260C | 4/5/17 18:40  | WL      |

## R.I. Analytical Laboratories, Inc.

## Laboratory Report

Green Seal Environmental, Inc.

Work Order #: 1703-06586

Project Name: PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 008  
**Sample Description:** COMP-8  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER                   | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE ANALYZED | ANALYST |
|-----------------------------|----------------|------------|-----------|--------------|---------------|---------|
| 1,2-Dichloroethane          | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| 1,1-Dichloroethene          | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| cis-1,2-Dichloroethene      | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| trans-1,2-Dichloroethylene  | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| 1,2-Dichloropropane         | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| 1,3-Dichloropropane         | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| 2,2-Dichloropropane         | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| 1,1-Dichloropropene         | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| cis-1,3-Dichloropropene     | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| trans-1,3-Dichloropropylene | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| Diethyl ether               | <0.037         | 0.037      | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| Diisopropyl Ether (DIPE)    | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| 1,4-Dioxane                 | <0.075         | 0.075      | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| Ethyl Tertiary Butyl Ether  | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| Ethylbenzene                | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| Hexachlorobutadiene         | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| 2-Hexanone                  | <0.037         | 0.037      | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| Isopropylbenzene            | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| p-Isopropyltoluene          | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| 2-Butanone(MEK)             | <0.037         | 0.037      | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| 4-Methyl-2-pentanone(MIBK)  | <0.037         | 0.037      | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| MTBE                        | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| Methylene Chloride          | 0.0087         | 0.0075     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| Naphthalene                 | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| 1,1,2-Trichloroethane       | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| Styrene                     | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| 1,1,1,2-Tetrachloroethane   | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| 1,1,2,2-Tetrachloroethane   | <0.0015        | 0.0015     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| Tetrachloroethene           | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| Tetrahydrofuran             | <0.037         | 0.037      | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| Toluene                     | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| 1,2,4-Trichlorobenzene      | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| 1,2,3-Trichlorobenzene      | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| 1,1,1-Trichloroethane       | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| Trichloroethene             | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |

**R.I. Analytical Laboratories, Inc.**  
**Laboratory Report**

Green Seal Environmental, Inc.

Work Order #: 1703-06586

**Project Name:** PROJECT #LAWL-1701-0001 BMA-RW 15-33

**Sample Number:** 008  
**Sample Description:** COMP-8  
**Sample Type :** COMPOSITE  
**Sample Date / Time :** 3/30/2017

| PARAMETER              | SAMPLE RESULTS | DET. LIMIT | UNITS     | METHOD       | DATE ANALYZED | ANALYST |
|------------------------|----------------|------------|-----------|--------------|---------------|---------|
| Trichlorofluoromethane | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| 1,2,3-Trichloropropane | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| 1,2,4-Trimethylbenzene | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| 1,3,5-Trimethylbenzene | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| Vinyl Chloride         | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| o-Xylene               | <0.0037        | 0.0037     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| m,p-Xylene             | <0.0075        | 0.0075     | mg/kg dry | SW-846 8260C | 4/5/17 18:40  | WL      |
| Surrogates             |                |            | RANGE     | SW-846 8260C | 4/5/17 18:40  | WL      |
| Dibromofluoromethane   | 115            |            | 70-130%   | SW-846 8260C | 4/5/17 18:40  | WL      |
| Toluene-d8             | 89             |            | 70-130%   | SW-846 8260C | 4/5/17 18:40  | WL      |
| 4-Bromofluorobenzene   | 85             |            | 70-130%   | SW-846 8260C | 4/5/17 18:40  | WL      |
| 1,2 Dichloroethane-d4  | 126            |            | 70-130%   | SW-846 8260C | 4/5/17 18:40  | WL      |

## -Method Blanks Results-

| Parameter                               | Units     | Results | Date Analyzed |
|---|-----------|---------|---------------|
| <b>PK-RCRAS1</b>                        |           |         |               |
| <b>PK-RCRAS1</b>                        |           |         |               |
| Mercury                                 | mg/kg dry | <0.089  | 4/4/2017      |
| <b>Volatile Organics by Method 8260</b> |           |         |               |
| Acetone                                 | mg/kg dry | <0.050  | 4/5/2017      |
| Tertiary Amyl Methyl Ether              | mg/kg dry | <0.0050 | 4/5/2017      |
| Benzene                                 | mg/kg dry | <0.0050 | 4/5/2017      |
| Bromobenzene                            | mg/kg dry | <0.0050 | 4/5/2017      |
| Bromochloromethane                      | mg/kg dry | <0.0050 | 4/5/2017      |
| Bromodichloromethane                    | mg/kg dry | <0.0050 | 4/5/2017      |
| Bromoform                               | mg/kg dry | <0.0050 | 4/5/2017      |
| Bromomethane                            | mg/kg dry | <0.0050 | 4/5/2017      |
| Sec-butylbenzene                        | mg/kg dry | <0.0050 | 4/5/2017      |
| n-Butylbenzene                          | mg/kg dry | <0.0050 | 4/5/2017      |
| tert-Butylbenzene                       | mg/kg dry | <0.0050 | 4/5/2017      |
| Carbon Disulfide                        | mg/kg dry | <0.010  | 4/5/2017      |
| Carbon Tetrachloride                    | mg/kg dry | <0.0050 | 4/5/2017      |
| Chlorobenzene                           | mg/kg dry | <0.0050 | 4/5/2017      |
| Dibromochloromethane                    | mg/kg dry | <0.0020 | 4/5/2017      |
| Chloroethane                            | mg/kg dry | <0.0050 | 4/5/2017      |
| Chloroform                              | mg/kg dry | <0.0050 | 4/5/2017      |
| Chloromethane                           | mg/kg dry | <0.0050 | 4/5/2017      |
| 2-Chlorotoluene                         | mg/kg dry | <0.0050 | 4/5/2017      |
| 4-Chlorotoluene                         | mg/kg dry | <0.0050 | 4/5/2017      |
| 1,2-Dibromo-3-Chloropropane             | mg/kg dry | <0.0050 | 4/5/2017      |
| 1,2-Dibromoethane(EDB)                  | mg/kg dry | <0.0050 | 4/5/2017      |
| Dibromomethane                          | mg/kg dry | <0.0050 | 4/5/2017      |
| 1,3-Dichlorobenzene                     | mg/kg dry | <0.0050 | 4/5/2017      |
| 1,2-Dichlorobenzene                     | mg/kg dry | <0.0050 | 4/5/2017      |
| 1,4-Dichlorobenzene                     | mg/kg dry | <0.0050 | 4/5/2017      |
| n-Propylbenzene                         | mg/kg dry | <0.0050 | 4/5/2017      |
| Dichlorodifluoromethane                 | mg/kg dry | <0.0050 | 4/5/2017      |
| 1,1-Dichloroethane                      | mg/kg dry | <0.0050 | 4/5/2017      |
| 1,2-Dichloroethane                      | mg/kg dry | <0.0050 | 4/5/2017      |
| 1,1-Dichloroethene                      | mg/kg dry | <0.0050 | 4/5/2017      |
| cis-1,2-Dichloroethene                  | mg/kg dry | <0.0050 | 4/5/2017      |
| trans-1,2-Dichloroethylene              | mg/kg dry | <0.0050 | 4/5/2017      |
| 1,2-Dichloropropane                     | mg/kg dry | <0.0050 | 4/5/2017      |
| 1,3-Dichloropropane                     | mg/kg dry | <0.0050 | 4/5/2017      |
| 2,2-Dichloropropane                     | mg/kg dry | <0.0050 | 4/5/2017      |
| 1,1-Dichloropropene                     | mg/kg dry | <0.0050 | 4/5/2017      |
| cis-1,3-Dichloropropene                 | mg/kg dry | <0.0050 | 4/5/2017      |
| trans-1,3-Dichloropropylene             | mg/kg dry | <0.0050 | 4/5/2017      |
| Diethyl ether                           | mg/kg dry | <0.050  | 4/5/2017      |
| Diisopropyl ether (DIPE)                | mg/kg dry | <0.0050 | 4/5/2017      |
| 1,4-Dioxane                             | mg/kg dry | <0.10   | 4/5/2017      |
| Ethyl Tertiary Butyl Ether              | mg/kg dry | <0.0050 | 4/5/2017      |
| Ethylbenzene                            | mg/kg dry | <0.0050 | 4/5/2017      |

|  |           |         |          |
|--|-----------|---------|----------|
| Hexachlorobutadiene                                | mg/kg dry | <0.0050 | 4/5/2017 |
| 2-Hexanone   | mg/kg dry | <0.050  | 4/5/2017 |
| Isopropylbenzene                                   | mg/kg dry | <0.0050 | 4/5/2017 |
| p-Isopropyltoluene                                 | mg/kg dry | <0.0050 | 4/5/2017 |
| 2-Butanone(MEK)                                    | mg/kg dry | <0.050  | 4/5/2017 |
| 4-Methyl-2-pentanone(MIBK)                         | mg/kg dry | <0.050  | 4/5/2017 |
| MTBE   | mg/kg dry | <0.0050 | 4/5/2017 |
| Methylene Chloride                                 | mg/kg dry | <0.010  | 4/5/2017 |
| Naphthalene  | mg/kg dry | <0.0050 | 4/5/2017 |
| 1,1,2-Trichloroethane                              | mg/kg dry | <0.0050 | 4/5/2017 |
| Styrene  | mg/kg dry | <0.0050 | 4/5/2017 |
| 1,1,1,2-Tetrachloroethane                          | mg/kg dry | <0.0050 | 4/5/2017 |
| 1,1,2,2-Tetrachloroethane                          | mg/kg dry | <0.0020 | 4/5/2017 |
| Tetrachloroethene                                  | mg/kg dry | <0.0050 | 4/5/2017 |
| Tetrahydrofuran                                    | mg/kg dry | <0.050  | 4/5/2017 |
| Toluene  | mg/kg dry | <0.0050 | 4/5/2017 |
| 1,2,4-Trichlorobenzene                             | mg/kg dry | <0.0050 | 4/5/2017 |
| 1,2,3-Trichlorobenzene                             | mg/kg dry | <0.0050 | 4/5/2017 |
| 1,1,1-Trichloroethane                              | mg/kg dry | <0.0050 | 4/5/2017 |
| Trichloroethene                                    | mg/kg dry | <0.0050 | 4/5/2017 |
| Trichlorofluoromethane                             | mg/kg dry | <0.0050 | 4/5/2017 |
| 1,2,3-Trichloropropane                             | mg/kg dry | <0.0050 | 4/5/2017 |
| 1,2,4-Trimethylbenzene                             | mg/kg dry | <0.0050 | 4/5/2017 |
| 1,3,5-Trimethylbenzene                             | mg/kg dry | <0.0050 | 4/5/2017 |
| Vinyl Chloride                                     | mg/kg dry | <0.0050 | 4/5/2017 |
| o-Xylene   | mg/kg dry | <0.0050 | 4/5/2017 |
| m,p-Xylene   | mg/kg dry | <0.010  | 4/5/2017 |
| <b>Surrogates</b>                                  | RANGE     |         | 4/5/2017 |
| Dibromofluoromethane                               | 70-130%   | 104     | 4/5/2017 |
| Toluene-d8   | 70-130%   | 92      | 4/5/2017 |
| 4-Bromofluorobenzene                               | 70-130%   | 90      | 4/5/2017 |
| 1,2 Dichloroethane-d4                              | 70-130%   | 106     | 4/5/2017 |
| <b>Total Petroleum Hydrocarbons by Method 8100</b> |           |         |          |
| TPH GC/FID   | mg/kg dry | <10     | 4/5/2017 |
| <b>Surrogate</b>                                   | RANGE     |         | 4/5/2017 |
| 2-Fluorobiphenyl                                   | 40-140%   | 80      | 4/5/2017 |
| <b>Semi-Volatile Organics by Method 8270</b>       |           |         |          |
| Acenaphthene                                       | mg/kg dry | <0.33   | 4/6/2017 |
| Acenaphthylene                                     | mg/kg dry | <0.33   | 4/6/2017 |
| Anthracene   | mg/kg dry | <0.33   | 4/6/2017 |
| Benzidine  | mg/kg dry | <0.33   | 4/6/2017 |
| Benzo(a)anthracene                                 | mg/kg dry | <0.33   | 4/6/2017 |
| Benzo(b)fluoranthene                               | mg/kg dry | <0.33   | 4/6/2017 |
| Benzo(k)fluoranthene                               | mg/kg dry | <0.33   | 4/6/2017 |
| Benzo(g,h,i)perylene                               | mg/kg dry | <0.33   | 4/6/2017 |
| Benzo(a)pyrene                                     | mg/kg dry | <0.33   | 4/6/2017 |
| Bis(2-chloroethyl)ether                            | mg/kg dry | <0.33   | 4/6/2017 |
| Bis(2-Chloroethoxy)methane                         | mg/kg dry | <0.33   | 4/6/2017 |
| Bis(2-Chloroisopropyl)Ether                        | mg/kg dry | <0.33   | 4/6/2017 |
| Bis(2-ethylhexyl)phthalate                         | mg/kg dry | <0.33   | 4/6/2017 |
| 4-Bromophenyl phenyl ether                         | mg/kg dry | <0.33   | 4/6/2017 |
| Butylbenzyl phthalate                              | mg/kg dry | <0.33   | 4/6/2017 |
| 2-Chloronaphthalene                                | mg/kg dry | <0.33   | 4/6/2017 |
| 4-Chlorophenyl phenyl ether                        | mg/kg dry | <0.33   | 4/6/2017 |

|                            |              |       |          |
|----------------------------|--------------|-------|----------|
| Chrysene                   | mg/kg dry    | <0.33 | 4/6/2017 |
| Dibenzo(a,h)anthracene     | mg/kg dry    | <0.33 | 4/6/2017 |
| Di-n-butyl phthalate       | mg/kg dry    | <0.33 | 4/6/2017 |
| 1,2-Dichlorobenzene        | mg/kg dry    | <0.33 | 4/6/2017 |
| 1,3-Dichlorobenzene        | mg/kg dry    | <0.33 | 4/6/2017 |
| 1,4-Dichlorobenzene        | mg/kg dry    | <0.33 | 4/6/2017 |
| 3,3'-Dichlorobenzidine     | mg/kg dry    | <0.33 | 4/6/2017 |
| Diethyl phthalate          | mg/kg dry    | <0.33 | 4/6/2017 |
| Dimethyl phthalate         | mg/kg dry    | <0.33 | 4/6/2017 |
| 2,4-Dinitrotoluene         | mg/kg dry    | <0.33 | 4/6/2017 |
| 2,6-Dinitrotoluene         | mg/kg dry    | <0.33 | 4/6/2017 |
| Di-n-octyl phthalate       | mg/kg dry    | <0.33 | 4/6/2017 |
| 1,2-Diphenylhydrazine      | mg/kg dry    | <0.33 | 4/6/2017 |
| Fluoranthene               | mg/kg dry    | <0.33 | 4/6/2017 |
| Fluorene                   | mg/kg dry    | <0.33 | 4/6/2017 |
| Hexachlorobenzene          | mg/kg dry    | <0.33 | 4/6/2017 |
| Hexachlorobutadiene        | mg/kg dry    | <0.33 | 4/6/2017 |
| Hexachlorocyclopentadiene  | mg/kg dry    | <0.33 | 4/6/2017 |
| Hexachloroethane           | mg/kg dry    | <0.33 | 4/6/2017 |
| Indeno(1,2,3-cd)pyrene     | mg/kg dry    | <0.33 | 4/6/2017 |
| Isophorone                 | mg/kg dry    | <0.33 | 4/6/2017 |
| 2-Methylnaphthalene        | mg/kg dry    | <0.33 | 4/6/2017 |
| Naphthalene                | mg/kg dry    | <0.33 | 4/6/2017 |
| Nitrobenzene               | mg/kg dry    | <0.33 | 4/6/2017 |
| N-nitrosodimethylamine     | mg/kg dry    | <0.33 | 4/6/2017 |
| N-nitrosodiphenylamine     | mg/kg dry    | <0.33 | 4/6/2017 |
| N-nitrosodi-n-propylamine  | mg/kg dry    | <0.33 | 4/6/2017 |
| Phenanthrene               | mg/kg dry    | <0.33 | 4/6/2017 |
| Pyrene                     | mg/kg dry    | <0.33 | 4/6/2017 |
| 1,2,4-Trichlorobenzene     | mg/kg dry    | <0.33 | 4/6/2017 |
| 4-Chloro-3-methylphenol    | mg/kg dry    | <0.33 | 4/6/2017 |
| 2-Chlorophenol             | mg/kg dry    | <0.33 | 4/6/2017 |
| 2,4-Dichlorophenol         | mg/kg dry    | <0.33 | 4/6/2017 |
| 2,4-Dimethylphenol         | mg/kg dry    | <0.33 | 4/6/2017 |
| 2-Methyl-4,6-dinitrophenol | mg/kg dry    | <0.33 | 4/6/2017 |
| 2,4-Dinitrophenol          | mg/kg dry    | <0.33 | 4/6/2017 |
| 2-Nitrophenol              | mg/kg dry    | <0.33 | 4/6/2017 |
| 4-Nitrophenol              | mg/kg dry    | <0.33 | 4/6/2017 |
| Pentachlorophenol          | mg/kg dry    | <0.33 | 4/6/2017 |
| Phenol                     | mg/kg dry    | <0.33 | 4/6/2017 |
| 2,4,5-Trichlorophenol      | mg/kg dry    | <0.33 | 4/6/2017 |
| 2,4,6-Trichlorophenol      | mg/kg dry    | <0.33 | 4/6/2017 |
| 4-Chloroaniline            | mg/kg dry    | <0.33 | 4/6/2017 |
| Dibenzofuran               | mg/kg dry    | <0.33 | 4/6/2017 |
| 2-Methyl Phenol            | mg/kg dry    | <0.33 | 4/6/2017 |
| 3 & 4-Methylphenols        | mg/kg dry    | <0.33 | 4/6/2017 |
| Aniline                    | mg/kg dry    | <0.33 | 4/6/2017 |
| Acetophenone               | mg/kg dry    | <0.33 | 4/6/2017 |
| Azobenzene                 | mg/kg dry    | <0.33 | 4/6/2017 |
| <b>Surrogates</b>          | <b>RANGE</b> |       | 4/6/2017 |
| Phenol-d5                  | 30-130%      | 77    | 4/6/2017 |
| 2-Fluorophenol             | 30-130%      | 76    | 4/6/2017 |
| 2,4,6-Tribromophenol       | 30-130%      | 85    | 4/6/2017 |
| Nitrobenzene-d5            | 30-130%      | 75    | 4/6/2017 |
| 2-Fluorobiphenyl           | 30-130%      | 73    | 4/6/2017 |

|                             |              |      |          |
|-----------------------------|--------------|------|----------|
| P-Terphenyl-d14             | 30-130%      | 88   | 4/6/2017 |
| <b>PCB</b>                  |              |      |          |
| Aroclor-1016                | mg/kg dry    | <0.1 | 4/6/2017 |
| Aroclor-1221                | mg/kg dry    | <0.1 | 4/6/2017 |
| Aroclor-1232                | mg/kg dry    | <0.1 | 4/6/2017 |
| Aroclor-1242                | mg/kg dry    | <0.1 | 4/6/2017 |
| Aroclor-1248                | mg/kg dry    | <0.1 | 4/6/2017 |
| Aroclor-1254                | mg/kg dry    | <0.1 | 4/6/2017 |
| Aroclor-1260                | mg/kg dry    | <0.1 | 4/6/2017 |
| Aroclor-1262                | mg/kg dry    | <0.1 | 4/6/2017 |
| Aroclor-1268                | mg/kg dry    | <0.1 | 4/6/2017 |
| <b>Surrogate</b>            | <b>RANGE</b> |      | 4/6/2017 |
| Tetrachloro-m-xylene (TCMX) | 30-150%      | 99   | 4/6/2017 |
| Decachlorobiphenyl          | 30-150%      | 99   | 4/6/2017 |

**-LCS/LCS Duplicate Data Results-**

| Parameter   | CRM<br>Acceptance Limits | Spike<br>Conc | LCS<br>Conc | LCS<br>% Rec | LCS Dup<br>Conc | LCS DUP<br>% Rec | % RPD | Date Analyzed |
|---|--------------------------|---------------|-------------|--------------|-----------------|------------------|-------|---------------|
| <b>PCB - Solids</b>   |                          |               |             |              |                 |                  |       |               |
| Aroclor-1016  |                          | 0.33          | 0.316       | 96           | 0.311           | 94               | 2     | 4/6/2017      |
| Aroclor-1260  |                          | 0.33          | 0.371       | 112          | 0.338           | 102              | 9     | 4/6/2017      |
| <b>Surrogate</b>  |                          |               |             |              |                 |                  |       |               |
| Tetrachloro-m-xylene (TCMX)                                 |                          |               | 102         |              | 100             |                  |       |               |
| Decachlorobiphenyl  |                          |               | 118         |              | 104             |                  |       |               |
| <b>Total Petroleum Hydrocarbons by Method 8100 - Solids</b> |                          |               |             |              |                 |                  |       |               |
| TPH GC/FID  |                          | 66.7          | 49.9        | 75           | 50.9            | 76               | 2     | 4/6/2017      |
| <b>Surrogate</b>  |                          |               |             |              |                 |                  |       |               |
| 2-Fluorobiphenyl  |                          |               | 82          |              | 84              |                  |       | 4/6/2017      |
| <b>Volatile Organics by Method 8260</b>                     |                          |               |             |              |                 |                  |       |               |
| Acetone   |                          | 0.500         | 0.64        | 128          | 0.70            | 140              | 9     | 4/5/2017      |
| Tertiary Amyl Methyl Ether                                  |                          | 0.050         | 0.052       | 104          | 0.056           | 112              | 7     | 4/5/2017      |
| Benzene   |                          | 0.050         | 0.056       | 112          | 0.058           | 116              | 4     | 4/5/2017      |
| Bromobenzene  |                          | 0.050         | 0.050       | 100          | 0.054           | 108              | 8     | 4/5/2017      |
| Bromochloromethane  |                          | 0.050         | 0.049       | 98           | 0.053           | 106              | 8     | 4/5/2017      |
| Bromodichloromethane  |                          | 0.050         | 0.054       | 108          | 0.057           | 114              | 5     | 4/5/2017      |
| Bromoform   |                          | 0.050         | 0.060       | 120          | 0.066           | 132              | 10    | 4/5/2017      |
| Bromomethane  |                          | 0.050         | 0.064       | 128          | 0.066           | 132              | 3     | 4/5/2017      |
| Sec-butylbenzene  |                          | 0.050         | 0.062       | 124          | 0.066           | 132              | 6     | 4/5/2017      |
| n-Butylbenzene  |                          | 0.050         | 0.060       | 120          | 0.062           | 124              | 3     | 4/5/2017      |
| tert-Butylbenzene   |                          | 0.050         | 0.063       | 126          | 0.067           | 134              | 6     | 4/5/2017      |
| Carbon Disulfide  |                          | 0.050         | 0.058       | 116          | 0.058           | 116              | 0     | 4/5/2017      |
| Carbon Tetrachloride  |                          | 0.050         | 0.060       | 120          | 0.062           | 124              | 3     | 4/5/2017      |
| Chlorobenzene   |                          | 0.050         | 0.059       | 118          | 0.063           | 126              | 7     | 4/5/2017      |
| Dibromochloromethane  |                          | 0.050         | 0.055       | 110          | 0.060           | 120              | 9     | 4/5/2017      |
| Chloroethane  |                          | 0.050         | 0.054       | 108          | 0.056           | 112              | 4     | 4/5/2017      |
| Chloroform  |                          | 0.050         | 0.054       | 108          | 0.056           | 112              | 4     | 4/5/2017      |
| Chloromethane   |                          | 0.050         | 0.051       | 102          | 0.052           | 104              | 2     | 4/5/2017      |
| 2-Chlorotoluene   |                          | 0.050         | 0.058       | 116          | 0.062           | 124              | 7     | 4/5/2017      |
| 4-Chlorotoluene   |                          | 0.050         | 0.055       | 110          | 0.058           | 116              | 5     | 4/5/2017      |
| 1,2-Dibromo-3-Chloropropane                                 |                          | 0.050         | 0.048       | 96           | 0.053           | 106              | 10    | 4/5/2017      |
| 1,2-Dibromoethane(EDB)                                      |                          | 0.050         | 0.055       | 110          | 0.061           | 122              | 10    | 4/5/2017      |
| Dibromomethane  |                          | 0.050         | 0.055       | 110          | 0.060           | 120              | 9     | 4/5/2017      |
| 1,3-Dichlorobenzene   |                          | 0.050         | 0.062       | 124          | 0.066           | 132              | 6     | 4/5/2017      |
| 1,2-Dichlorobenzene   |                          | 0.050         | 0.062       | 124          | 0.067           | 134              | 8     | 4/5/2017      |
| 1,4-Dichlorobenzene   |                          | 0.050         | 0.062       | 124          | 0.066           | 132              | 6     | 4/5/2017      |
| n-Propylbenzene   |                          | 0.050         | 0.059       | 118          | 0.062           | 124              | 5     | 4/5/2017      |
| Dichlorodifluoromethane                                     |                          | 0.050         | 0.049       | 98           | 0.051           | 102              | 4     | 4/5/2017      |
| 1,1-Dichloroethane  |                          | 0.050         | 0.051       | 102          | 0.054           | 108              | 6     | 4/5/2017      |
| 1,2-Dichloroethane  |                          | 0.050         | 0.054       | 108          | 0.057           | 114              | 5     | 4/5/2017      |
| 1,1-Dichloroethene  |                          | 0.050         | 0.052       | 104          | 0.054           | 108              | 4     | 4/5/2017      |
| cis-1,2-Dichloroethene                                      |                          | 0.050         | 0.057       | 114          | 0.060           | 120              | 5     | 4/5/2017      |
| trans-1,2-Dichloroethylene                                  |                          | 0.050         | 0.053       | 106          | 0.055           | 110              | 4     | 4/5/2017      |
| 1,2-Dichloropropane   |                          | 0.050         | 0.050       | 100          | 0.053           | 106              | 6     | 4/5/2017      |
| 1,3-Dichloropropane   |                          | 0.050         | 0.052       | 104          | 0.057           | 114              | 9     | 4/5/2017      |
| 2,2-Dichloropropane   |                          | 0.050         | 0.054       | 108          | 0.056           | 112              | 4     | 4/5/2017      |
| 1,1-Dichloropropene   |                          | 0.050         | 0.057       | 114          | 0.058           | 116              | 2     | 4/5/2017      |
| cis-1,3-Dichloropropene                                     |                          | 0.050         | 0.052       | 104          | 0.055           | 110              | 6     | 4/5/2017      |
| trans-1,3-Dichloropropylene                                 |                          | 0.050         | 0.050       | 100          | 0.053           | 106              | 6     | 4/5/2017      |
| Diethyl ether   |                          | 0.500         | 0.56        | 112          | 0.60            | 120              | 7     | 4/5/2017      |

## QA/QC Report

WO #: 1703-06586

## -LCS/LCS Duplicate Data Results-

| Parameter | CRM<br>Acceptance Limits | Spike<br>Conc | LCS<br>Conc | LCS<br>% Rec | LCS Dup<br>Conc | LCS DUP<br>% Rec | % RPD | Date Analyzed |
|-----------|--------------------------|---------------|-------------|--------------|-----------------|------------------|-------|---------------|
|-----------|--------------------------|---------------|-------------|--------------|-----------------|------------------|-------|---------------|

**Volatile Organics by Method 8260 (cont'd)**

|                            |  |       |       |     |       |     |    |          |
|----------------------------|--|-------|-------|-----|-------|-----|----|----------|
| Diisopropyl ether (DIPE)   |  | 0.050 | 0.046 | 92  | 0.050 | 100 | 8  | 4/5/2017 |
| 1,4-Dioxane                |  | 1.00  | 1.2   | 120 | 1.4   | 140 | 15 | 4/5/2017 |
| Ethyl Tertiary Butyl Ether |  | 0.050 | 0.049 | 98  | 0.053 | 106 | 8  | 4/5/2017 |
| Ethylbenzene               |  | 0.050 | 0.058 | 116 | 0.061 | 122 | 5  | 4/5/2017 |
| Hexachlorobutadiene        |  | 0.050 | 0.065 | 130 | 0.070 | 140 | 7  | 4/5/2017 |
| 2-Hexanone                 |  | 0.500 | 0.61  | 122 | 0.67  | 134 | 9  | 4/5/2017 |
| Isopropylbenzene           |  | 0.050 | 0.063 | 126 | 0.066 | 132 | 5  | 4/5/2017 |
| p-Isopropyltoluene         |  | 0.050 | 0.061 | 122 | 0.066 | 132 | 8  | 4/5/2017 |
| 2-Butanone(MEK)            |  | 0.500 | 0.70  | 140 | 0.77  | 154 | 10 | 4/5/2017 |
| 4-Methyl-2-pentanone(MIBK) |  | 0.500 | 0.64  | 128 | 0.71  | 142 | 10 | 4/5/2017 |
| MTBE                       |  | 0.050 | 0.052 | 104 | 0.057 | 114 | 9  | 4/5/2017 |
| Methylene Chloride         |  | 0.050 | 0.046 | 92  | 0.049 | 98  | 6  | 4/5/2017 |
| Naphthalene                |  | 0.050 | 0.054 | 108 | 0.062 | 124 | 14 | 4/5/2017 |
| 1,1,2-Trichloroethane      |  | 0.050 | 0.053 | 106 | 0.058 | 116 | 9  | 4/5/2017 |
| Styrene                    |  | 0.050 | 0.057 | 114 | 0.061 | 122 | 7  | 4/5/2017 |
| 1,1,1,2-Tetrachloroethane  |  | 0.050 | 0.062 | 124 | 0.067 | 134 | 8  | 4/5/2017 |
| 1,1,2,2-Tetrachloroethane  |  | 0.050 | 0.056 | 112 | 0.062 | 124 | 10 | 4/5/2017 |
| Tetrachloroethene          |  | 0.050 | 0.067 | 134 | 0.068 | 136 | 1  | 4/5/2017 |
| Tetrahydrofuran            |  | 0.50  | 0.52  | 104 | 0.57  | 114 | 9  | 4/5/2017 |
| Toluene                    |  | 0.050 | 0.056 | 112 | 0.059 | 118 | 5  | 4/5/2017 |
| 1,2,4-Trichlorobenzene     |  | 0.050 | 0.059 | 118 | 0.066 | 132 | 11 | 4/5/2017 |
| 1,2,3-Trichlorobenzene     |  | 0.050 | 0.058 | 116 | 0.065 | 130 | 11 | 4/5/2017 |
| 1,1,1-Trichloroethane      |  | 0.050 | 0.059 | 118 | 0.062 | 124 | 5  | 4/5/2017 |
| Trichloroethene            |  | 0.050 | 0.057 | 114 | 0.058 | 116 | 2  | 4/5/2017 |
| Trichlorofluoromethane     |  | 0.050 | 0.069 | 138 | 0.071 | 142 | 3  | 4/5/2017 |
| 1,2,3-Trichloropropane     |  | 0.050 | 0.052 | 104 | 0.057 | 114 | 9  | 4/5/2017 |
| 1,2,4-Trimethylbenzene     |  | 0.050 | 0.057 | 114 | 0.062 | 124 | 8  | 4/5/2017 |
| 1,3,5-Trimethylbenzene     |  | 0.050 | 0.059 | 118 | 0.063 | 126 | 7  | 4/5/2017 |
| Vinyl Chloride             |  | 0.050 | 0.062 | 124 | 0.064 | 128 | 3  | 4/5/2017 |
| o-Xylene                   |  | 0.050 | 0.061 | 122 | 0.065 | 130 | 6  | 4/5/2017 |
| m,p-Xylene                 |  | 0.100 | 0.12  | 120 | 0.13  | 130 | 8  | 4/5/2017 |

**Surrogates**

|                       |  |  |     |  |     |  |  |          |
|-----------------------|--|--|-----|--|-----|--|--|----------|
| Dibromofluoromethane  |  |  | 102 |  | 103 |  |  | 4/5/2017 |
| Toluene-d8            |  |  | 93  |  | 95  |  |  | 4/5/2017 |
| 4-Bromofluorobenzene  |  |  | 87  |  | 89  |  |  | 4/5/2017 |
| 1,2 Dichloroethane-d4 |  |  | 106 |  | 111 |  |  | 4/5/2017 |

**Semi-Volatile Organics by Method 8270 - Solids**

|                      |     |     |    |      |    |    |          |
|----------------------|-----|-----|----|------|----|----|----------|
| Acenaphthene         | 3.3 | 2.7 | 82 | 2.7  | 82 | 0  | 4/7/2017 |
| Acenaphthylene       | 3.3 | 3.2 | 97 | 3.2  | 97 | 0  | 4/7/2017 |
| Anthracene           | 3.3 | 3.0 | 91 | 3.0  | 91 | 0  | 4/7/2017 |
| Benzidine            | 3.3 | 1.2 | 36 | 0.74 | 22 | 47 | 4/7/2017 |
| Benzo(a)anthracene   | 3.3 | 2.9 | 88 | 2.9  | 88 | 0  | 4/7/2017 |
| Benzo(b)fluoranthene | 3.3 | 2.9 | 88 | 2.9  | 88 | 0  | 4/7/2017 |
| Benzo(k)fluoranthene | 3.3 | 2.9 | 88 | 3.0  | 91 | 3  | 4/7/2017 |

## QA/QC Report

WO #: 1703-06586

## -LCS/LCS Duplicate Data Results-

| Parameter  | CRM<br>Acceptance Limits | Spike<br>Conc | LCS<br>Conc | LCS<br>% Rec | LCS Dup<br>Conc | LCS DUP<br>% Rec | % RPD | Date Analyzed |
|--|--------------------------|---------------|-------------|--------------|-----------------|------------------|-------|---------------|
| <b>Semi-Volatile Organics by Method 8270 - Solids (cont'd)</b> |                          |               |             |              |                 |                  |       |               |
| Benzo(g,h,i)perylene   |                          | 3.3           | 2.7         | 82           | 2.7             | 82               | 0     | 4/7/2017      |
| Benzo(a)pyrene   |                          | 3.3           | 2.9         | 88           | 3.0             | 91               | 3     | 4/7/2017      |
| Bis(2-chloroethyl)ether  |                          | 3.3           | 2.6         | 79           | 2.5             | 76               | 4     | 4/7/2017      |
| Bis(2-Chloroethoxy)methane                                     |                          | 3.3           | 2.7         | 82           | 2.7             | 82               | 0     | 4/7/2017      |
| Bis(2-Chloroisopropyl)Ether                                    |                          | 3.3           | 2.6         | 79           | 2.6             | 79               | 0     | 4/7/2017      |
| Bis(2-ethylhexyl)phthalate                                     |                          | 3.3           | 2.8         | 85           | 2.9             | 88               | 4     | 4/7/2017      |
| 4-Bromophenyl phenyl ether                                     |                          | 3.3           | 2.7         | 82           | 2.7             | 82               | 0     | 4/7/2017      |
| Butylbenzyl phthalate  |                          | 3.3           | 2.8         | 85           | 2.8             | 85               | 0     | 4/7/2017      |
| 2-Chloronaphthalene  |                          | 3.3           | 2.9         | 88           | 2.8             | 85               | 4     | 4/7/2017      |
| 4-Chlorophenyl phenyl ether                                    |                          | 3.3           | 2.6         | 79           | 2.6             | 79               | 0     | 4/7/2017      |
| Chrysene   |                          | 3.3           | 2.8         | 85           | 3.0             | 91               | 7     | 4/7/2017      |
| Dibenzo(a,h)anthracene   |                          | 3.3           | 2.9         | 88           | 2.9             | 88               | 0     | 4/7/2017      |
| Di-n-butyl phthalate   |                          | 3.3           | 2.8         | 85           | 2.8             | 85               | 0     | 4/7/2017      |
| 1,2-Dichlorobenzene  |                          | 3.3           | 2.5         | 76           | 2.5             | 76               | 0     | 4/7/2017      |
| 1,3-Dichlorobenzene  |                          | 3.3           | 2.5         | 76           | 2.4             | 73               | 4     | 4/7/2017      |
| 1,4-Dichlorobenzene  |                          | 3.3           | 2.5         | 76           | 2.5             | 76               | 0     | 4/7/2017      |
| 3,3'-Dichlorobenzidine   |                          | 3.3           | 1.9         | 58           | 1.7             | 52               | 11    | 4/7/2017      |
| Diethyl phthalate  |                          | 3.3           | 2.7         | 82           | 2.7             | 82               | 0     | 4/7/2017      |
| Dimethyl phthalate   |                          | 3.3           | 2.8         | 85           | 2.7             | 82               | 4     | 4/7/2017      |
| 2,4-Dinitrotoluene   |                          | 3.3           | 3.1         | 94           | 3.2             | 97               | 3     | 4/7/2017      |
| 2,6-Dinitrotoluene   |                          | 3.3           | 3.3         | 100          | 3.3             | 100              | 0     | 4/7/2017      |
| Di-n-octyl phthalate   |                          | 3.3           | 2.9         | 88           | 2.9             | 88               | 0     | 4/7/2017      |
| 1,2-Diphenylhydrazine  |                          | 3.3           | 3.0         | 91           | 3.0             | 91               | 0     | 4/7/2017      |
| Fluoranthene   |                          | 3.3           | 2.9         | 88           | 3.0             | 91               | 3     | 4/7/2017      |
| Fluorene   |                          | 3.3           | 2.8         | 85           | 2.8             | 85               | 0     | 4/7/2017      |
| Hexachlorobenzene  |                          | 3.3           | 2.8         | 85           | 2.8             | 85               | 0     | 4/7/2017      |
| Hexachlorobutadiene  |                          | 3.3           | 2.6         | 79           | 2.6             | 79               | 0     | 4/7/2017      |
| Hexachlorocyclopentadiene                                      |                          | 3.3           | 4.0         | 121          | 3.9             | 118              | 3     | 4/7/2017      |
| Hexachloroethane   |                          | 3.3           | 2.6         | 79           | 2.5             | 76               | 4     | 4/7/2017      |
| Indeno(1,2,3-cd)pyrene   |                          | 3.3           | 2.9         | 88           | 2.9             | 88               | 0     | 4/7/2017      |
| Isophorone   |                          | 3.3           | 2.9         | 88           | 2.8             | 85               | 4     | 4/7/2017      |
| 2-Methylnaphthalene  |                          | 3.3           | 3.0         | 91           | 3.0             | 91               | 0     | 4/7/2017      |
| Naphthalene  |                          | 3.3           | 2.5         | 76           | 2.6             | 79               | 4     | 4/7/2017      |
| Nitrobenzene   |                          | 3.3           | 2.8         | 85           | 2.8             | 85               | 0     | 4/7/2017      |
| N-nitrosodimethylamine   |                          | 3.3           | 2.6         | 79           | 2.6             | 79               | 0     | 4/7/2017      |
| N-nitrosodiphenylamine   |                          | 3.3           | 3.0         | 91           | 3.1             | 94               | 3     | 4/7/2017      |
| N-nitrosodi-n-propylamine                                      |                          | 3.3           | 2.7         | 82           | 2.7             | 82               | 0     | 4/7/2017      |
| Phenanthrene   |                          | 3.3           | 2.8         | 85           | 2.8             | 85               | 0     | 4/7/2017      |
| Pyrene   |                          | 3.3           | 2.9         | 88           | 3.0             | 91               | 3     | 4/7/2017      |
| 1,2,4-Trichlorobenzene   |                          | 3.3           | 2.6         | 79           | 2.6             | 79               | 0     | 4/7/2017      |
| 4-Chloro-3-methylphenol  |                          | 3.3           | 2.9         | 88           | 2.8             | 85               | 4     | 4/7/2017      |
| 2-Chlorophenol   |                          | 3.3           | 2.8         | 85           | 2.7             | 82               | 4     | 4/7/2017      |
| 2,4-Dichlorophenol   |                          | 3.3           | 2.8         | 85           | 2.8             | 85               | 0     | 4/7/2017      |
| 2,4-Dimethylphenol   |                          | 3.3           | 2.9         | 88           | 2.9             | 88               | 0     | 4/7/2017      |

## QA/QC Report

WO #: 1703-06586

## -LCS/LCS Duplicate Data Results-

| Parameter | CRM<br>Acceptance Limits | Spike<br>Conc | LCS<br>Conc | LCS<br>% Rec | LCS Dup<br>Conc | LCS DUP<br>% Rec | % RPD | Date Analyzed |
|-----------|--------------------------|---------------|-------------|--------------|-----------------|------------------|-------|---------------|
|-----------|--------------------------|---------------|-------------|--------------|-----------------|------------------|-------|---------------|

**Semi-Volatile Organics by Method 8270 - Solids (cont'd)**

|                            |  |     |     |    |     |    |    |          |
|----------------------------|--|-----|-----|----|-----|----|----|----------|
| 2-Methyl-4,6-dinitrophenol |  | 3.3 | 2.7 | 82 | 2.6 | 79 | 4  | 4/7/2017 |
| 2,4-Dinitrophenol          |  | 3.3 | 2.6 | 79 | 2.6 | 79 | 0  | 4/7/2017 |
| 2-Nitrophenol              |  | 3.3 | 2.8 | 85 | 2.9 | 88 | 4  | 4/7/2017 |
| 4-Nitrophenol              |  | 3.3 | 3.1 | 94 | 3.0 | 91 | 3  | 4/7/2017 |
| Pentachlorophenol          |  | 3.3 | 2.6 | 79 | 2.7 | 82 | 4  | 4/7/2017 |
| Phenol                     |  | 3.3 | 2.8 | 85 | 2.8 | 85 | 0  | 4/7/2017 |
| 2,4,6-Trichlorophenol      |  | 3.3 | 2.9 | 88 | 2.8 | 85 | 4  | 4/7/2017 |
| 2,4,5-Trichlorophenol      |  | 3.3 | 2.7 | 82 | 2.7 | 82 | 0  | 4/7/2017 |
| Dibenzofuran               |  | 3.3 | 2.9 | 88 | 2.8 | 85 | 4  | 4/7/2017 |
| 2-Methyl Phenol            |  | 3.3 | 2.8 | 85 | 2.8 | 85 | 0  | 4/7/2017 |
| 3 & 4-Methylphenols        |  | 3.3 | 2.6 | 79 | 2.5 | 76 | 4  | 4/7/2017 |
| Aniline                    |  | 3.3 | 1.9 | 58 | 1.0 | 30 | 62 | 4/7/2017 |
| Acetophenone               |  | 3.3 | 2.7 | 82 | 2.6 | 79 | 4  | 4/7/2017 |
| Azobenzene                 |  | 3.3 | 3.0 | 91 | 3.0 | 91 | 0  | 4/7/2017 |
| 4-Chloroaniline            |  | 3.3 | 1.9 | 58 | 1.3 | 39 | 38 | 4/7/2017 |

**Surrogates**

|                      |  |  |    |  |    |  |  |  |
|----------------------|--|--|----|--|----|--|--|--|
| Phenol-d5            |  |  | 87 |  | 85 |  |  |  |
| 2-Fluorophenol       |  |  | 84 |  | 82 |  |  |  |
| 2,4,6-Tribromophenol |  |  | 93 |  | 93 |  |  |  |
| Nitrobenzene-d5      |  |  | 83 |  | 82 |  |  |  |
| 2-Fluorobiphenyl     |  |  | 83 |  | 80 |  |  |  |
| P-Terphenyl-d14      |  |  | 87 |  | 88 |  |  |  |

**PK-RCRAS1**

|         |         |      |     |     |     |     |   |          |
|---------|---------|------|-----|-----|-----|-----|---|----------|
| Mercury | 52-149% | 4.59 | 4.7 | 102 | 4.7 | 102 | 0 | 4/4/2017 |
|---------|---------|------|-----|-----|-----|-----|---|----------|



# CHAIN OF CUSTODY RECORD

41 Illinois Avenue  
 Warwick, RI 02888-3007  
 800-937-2580 • Fax: 401-738-1970

131 Coolidge St., Suite 105  
 Hudson, MA 01749-1331  
 800-937-2580 • Fax: 978-568-0078

| Date Collected | Time Collected | Field Sample Identification | Grab or Composite | # of Containers & Type <sup>c</sup> | Preservation Code <sup>p</sup> | Matrix Code <sup>m</sup> | VOCs 8260 | RCRA-8 Metals Total | TPH 8100 | SVOCs 8270 | PCBs-8082 |
|----------------|----------------|-----------------------------|-------------------|-------------------------------------|--------------------------------|--------------------------|-----------|---------------------|----------|------------|-----------|
| 3/30/17        | 1425           | Comp-1                      | C                 | 3/16 NP S                           | S                              | ✓                        | ✓         | ✓                   | ✓        | ✓          | ✓         |
| 3/30/17        | 1425           | Comp-1                      | C                 | 4V ml S                             | S                              | ✓                        | ✓         | ✓                   | ✓        | ✓          | ✓         |
| 3/30/17        | 1430           | Comp-2                      | C                 | 3/16 NP S                           | S                              | ✓                        | ✓         | ✓                   | ✓        | ✓          | ✓         |
| 3/30/17        | 1430           | Comp-2                      | C                 | 4V m S                              | S                              | ✓                        | ✓         | ✓                   | ✓        | ✓          | ✓         |
| 3/30/17        | 1440           | Comp-3                      | C                 | 3/16 NP S                           | S                              | ✓                        | ✓         | ✓                   | ✓        | ✓          | ✓         |
| 3/30/17        | 1440           | Comp-3                      | C                 | 4V m S                              | S                              | ✓                        | ✓         | ✓                   | ✓        | ✓          | ✓         |
| 3/30/17        | 1445           | Comp-4                      | C                 | 3/16 NP S                           | S                              | ✓                        | ✓         | ✓                   | ✓        | ✓          | ✓         |
| 3/30/17        | 1445           | Comp-4                      | C                 | 4V m S                              | S                              | ✓                        | ✓         | ✓                   | ✓        | ✓          | ✓         |
| 3/30/17        | 1450           | Comp-5                      | C                 | 3/16 NP S                           | S                              | ✓                        | ✓         | ✓                   | ✓        | ✓          | ✓         |
| 3/30/17        | 1450           | Comp-5                      | C                 | 4V m S                              | S                              | ✓                        | ✓         | ✓                   | ✓        | ✓          | ✓         |
| 3/30/17        | 1515           | Comp-6                      | C                 | 3V NP S                             | S                              | ✓                        | ✓         | ✓                   | ✓        | ✓          | ✓         |
| 3/30/17        | 1515           | Comp-6                      | C                 | 4V m S                              | S                              | ✓                        | ✓         | ✓                   | ✓        | ✓          | ✓         |
| 3/30/17        | 1520           | Comp-7                      | C                 | 3/16 NP S                           | S                              | ✓                        | ✓         | ✓                   | ✓        | ✓          | ✓         |
| 3/30/17        | 1520           | Comp-7                      | C                 | 4V m S                              | S                              | ✓                        | ✓         | ✓                   | ✓        | ✓          | ✓         |

**Client Information**

Company Name: Green Seal Environmental  
 Address: 114 State Road  
 City / State / Zip: Sagamore Beach/MA/02562  
 Telephone: 508-888-6034  
 Contact Person:

**Project Information**

Project Name: BMA-RW 15-33  
 P.O. Number:  
 Report To: Rich Geisler  
 Sampled by: RRG/MS  
 Quote No:  
 Project Number: LAWE 1701-0001  
 Phone: 908-888-6034 fax  
 Email report to these addresses: rgeisler@gseenv.com

| Relinquished By Signatures | Date    | Time | Received By Signatures | Date    | Time |
|----------------------------|---------|------|------------------------|---------|------|
| <i>[Signature]</i>         | 3/31/17 | 1500 | <i>[Signature]</i>     | 3/31/17 | 1500 |
| <i>[Signature]</i>         | 3/31/17 | 1722 | <i>[Signature]</i>     | 3/31/17 | 1722 |

**Project Comments**

Circle if applicable: GW-1, GW-2, GW-3, S-1, S-2, S-3

MCP Data Enhancement QC Package? Yes No

Temp. Upon Receipt: 4.1 °C

**Lab Use Only**

Normal  EMAL Report  
 5 Business days. Possible surcharge  
 Rush - Date Due: / /

Sample Pick Up Only

RIAL sampled; attach field hours

Shipped on ice

Workorder No: 10308510

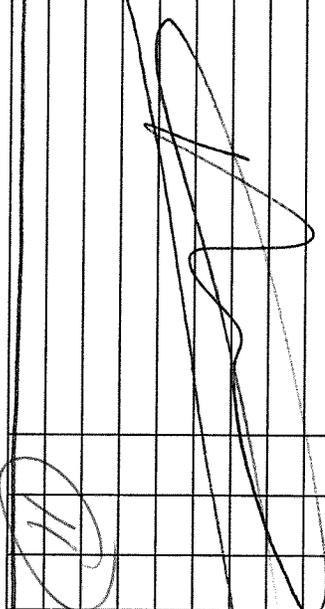
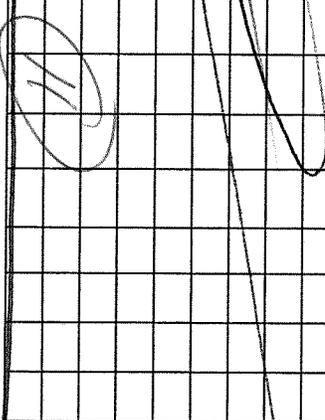
Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, S=Sterile Preservatives: A=Ascorbic Acid, NH4=NH4Cl, H=HCl, M=MeOH, N=HNO3, NP=None, S=H2SO4, SB=NaHSO4, SH=NaOH, T=Na2S2O3, Z=ZnOAc  
 Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SL=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=



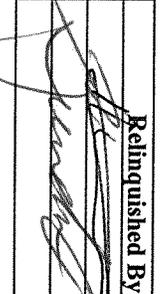
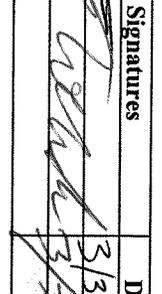
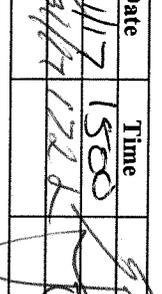
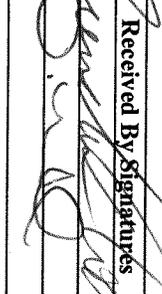
# CHAIN OF CUSTODY RECORD

41 Illinois Avenue  
 Warwick, RI 02888-3007  
 800-937-2580 • Fax: 401-738-1970  
 131 Coolidge St, Suite 105  
 Hudson, MA 01749-1331  
 800-937-2580 • Fax: 978-568-0078

08-10-16

| Collected   | Time | Field Sample Identification | Grab or Composite | # of Containers & Type <sup>C</sup> | Preservation Code <sup>P</sup> | Matrix Code <sup>M</sup> | VOCs 8260 | RCRA-8 Metals Total | TPH 8100 | SVOCs 8270 | PCBs-8082 |
|---|------|-----------------------------|-------------------|-------------------------------------|--------------------------------|--------------------------|-----------|---------------------|----------|------------|-----------|
| 3/30/17   | 1540 | Comp-8                      | C                 | 3pk NP                              | S                              | ✓                        | ✓         | ✓                   | ✓        | ✓          |           |
| 3/30/17   | 1540 | Comp-8                      | C                 | 4V M                                | S                              | ✓                        | ✓         | ✓                   | ✓        | ✓          |           |
| 3/30/17   | 1200 | TRIP Blank                  | G                 | 4V M                                | S                              | ✓                        |           |                     |          |            |           |
|  |      |                             |                   |                                     |                                |                          |           |                     |          |            |           |
|  |      |                             |                   |                                     |                                |                          |           |                     |          |            |           |

|  |                         |                            |   |
|--|-------------------------|----------------------------|---|
| Client Information                         |                         | Project Information        |   |
| Company Name: Green Seal Environmental     | Address: 114 State Road | Project Name: BMA-RW 15-33 | Project Number: LAWE 1701-0001                      |
| City/ State / Zip: Sagamore Beach/MA/02562 | Telephone: 508-888-6034 | P.O. Number:               | Report To: Rich Geisler                             |
| Contact Person:                            |                         | Reported by: RP6/MR        | Phone: 908-888-6034 fax                             |
|  |                         | Quote No:                  | Email report to these addresses: rgeisler@gsewv.com |

| Relinquished By Signatures  | Date    | Time | Received By Signatures   | Date    | Time |
|---|---------|------|--|---------|------|
|   | 3/31/17 | 1500 |   | 3/31/17 | 1500 |
|  | 3/31/17 | 1728 |  | 3/31/17 | 1722 |

Circle if applicable: GW-1, GW-2, GW-3, S-1, S-2, S-3

Project Comments: MCP Data Enhancement QC Package? Yes No

Temp. Upon Receipt: 41 °C

Lab Use Only

Sample Pick Up Only

RIAL sampled, attach field hours

Shipped on ice

Workorder No: 1003-00850

Containers: P=Poly, G=Glass, AG=Amber Glass, V=Vial, SI=Stierle Preservatives: A=Ascorbic Acid, NH4=NH4Cl, H=HCl, M=MeOH, N=HNO3, NP=None, S=H2SO4, SB=NaHSO4, SH=NaOH, T=Na2S2O3, Z=ZnOAc Matrix Codes: GW=Groundwater, SW=Surface Water, WW=Wastewater, DW=Drinking Water, S=Soil, SI=Sludge, A=Air, B=Bulk/Solid, WP=Wipe, O=



ATTACHMENT D  
Green Seal Environmental Letter  
November 8, 2017

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**Green Seal Environmental, Inc.**

114 State Road, Bldg. B, Sagamore Beach, MA 02562  
T: 508.888.6034 F: 508.888.1506  
www.gseenv.com

MA-SDO Certified D/WBE, D/MBE  
NH-Certified DBE  
SBA Certified EDWOSB  
MassDOT Certified | DCAMM Certified

November 8, 2017

**Lawrence Lynch Corp.**

Attn. Frank Trubiano  
396 Gifford Street  
Falmouth, MA 02540

Re: Response to MassDEP RFI #0003462  
Barnstable Municipal Airport  
MassDEP RTN 4-26347

Dear Mr. Trubiano,

At your request and at the request of the Barnstable Municipal Airport, Green Seal Environmental Inc. (GSE) has prepared this response to Question #5 of the Massachusetts Department of Environmental Protection (MassDEP) Request for Information (RFI) 0003462 dated October 27, 2017. Specifically, MassDEP was provided with a copy of an April 25, 2017 letter from GSE that described the results of soil stockpile sampling completed on March 30, 2017.

**Question #5:** - *MassDEP was provided with a copy of an April 25, 2017 letter from Green Seal Environmental to Lawrence Lynch Corporation which described soil stockpile sampling. The second paragraph of the letter states, "GSE divided the soil stockpiles into eight smaller areas identified as Area-1 through Area-8." MassDEP is requesting clarification of this statement and of the remainder of this letter.*

**Question #5a.** – *Does the information in this letter represent all the soil that has been or will be removed as part of the storm water construction activities along the runway systems or does the information in the letter represent a smaller subset of the soil that will be removed? If this letter represents a subset of the soil, please provide any subsequent soil analytical data generated from the soil removal activities.*

**Response to Question #5a. -**

GSE was retained by Lawrence Lynch in March 2017 to characterize approximately 5,000 cubic yards of soil spoils generated from ongoing construction activities at the Barnstable Municipal Airport. At that time, it was GSE's understanding that some of these soils had already been transported to the Cape Cod Aggregate Corp. (CCA) facility in Barnstable, Massachusetts for unrestricted re-use.

In an effort to confirm the sampling and analytical requirements for CCA, Richard Geisler of GSE spoke with Dave Peterson of CCA who agreed that one sample per 1,000 tons would be sufficient to adequately characterize the soil for re-use. It was agreed that the soil would be tested for a comprehensive list of industry standard analytical parameters including:

- Volatile Organic Compounds (VOCs) by EPA Method 8260;
- Semi-Volatile Organic Compounds (SVOCs) by EPA Method 8270;

- Total Petroleum Hydrocarbons (TPHs) by EPA Method 8100M;
- Resource Conservation and Recovery Act (RCRA) 8 Metals (arsenic, barium, cadmium, chromium, lead, mercury selenium and silver); and
- Polychlorinated Biphenyls (PCBs) by EPA Method 8082.

Upon arrival at the airport on March 30, 2017, GSE observed three soil stockpiles located along Runway 33 inside Gate C and one larger soil stockpile located outside Gate C in an area called Mildred's Staging Area. GSE was told by Lawrence Lynch staff that the soil piles were generated as a result of storm water drainage upgrades currently underway at the airport.

The three soil stockpiles located inside Gate C were each estimated to be less than 1,000 tons and were designated as Areas-1 through 3. The larger soil stockpile located outside Gate C was estimated to be approximately 2,000 tons and was divided into two areas (Areas 4 and 5). The location of these stockpiles/areas are shown on the attached site sketch (Figure 1). The Area designations correspond with the composite soil sample designations in the April 25, 2017 letter.

Subsequent to completing the sampling at the airport, GSE conducted a site visit of the CCA facility at 1550 Phinneys Lane in Barnstable. GSE was shown the soil stockpile that originated from the airport. Due to the size of the pile (estimated at 3,000 tons), The soil stockpile was divided into three areas (Areas-6 through 8) and sampled. The location of these stockpiles/areas are shown on the attached plan (Figure 2). The Area designations correspond with the composite soil sample designations in the April 25, 2017 letter.

Upon submittal of the April 25, 2017 letter, GSE received no additional requests for soil sampling at the airport.

**Question #5b.** – *Please provide a site plan labeling the area from where the soil referenced in this letter was removed. If these locations are the same as the locations as requested above, please reference such in your response.*

**Response to Question #5b.** -

Our response to Question #5b is provided above and presented in Figures 1 and 2.

If you have any questions pertaining to our response, please do not hesitate to contact me at 508-888-6034.

Sincerely,

**GREEN SEAL ENVIRONMENTAL, INC.**



Richard P. Geisler, P.G., L.S.P.  
V.P. of Environmental Services



## FIGURES

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Barnstable  
Municipal  
Airport

Area-1/COMP-1

Area-2/COMP-2

Area-3/COMP-3

Area-5/COMP-5

Area-4/COMP-4

Green Seal Environmental, Inc.  
114 State Road, Building B  
Sagamore Beach, MA 02562

Tel: (508) 888 – 6034  
Fax: (508) 888 – 1506  
www.gseenv.com

PROJECT NAME:

MassDEP RFI Response

DRAWING TITLE:

Figure 1: Site Sketch

DATE:

November 8, 2017

LOCATION:

Barnstable Muni Airport  
Gate C off Route 28  
Mildred's Staging Area  
Hyannis, Massachusetts

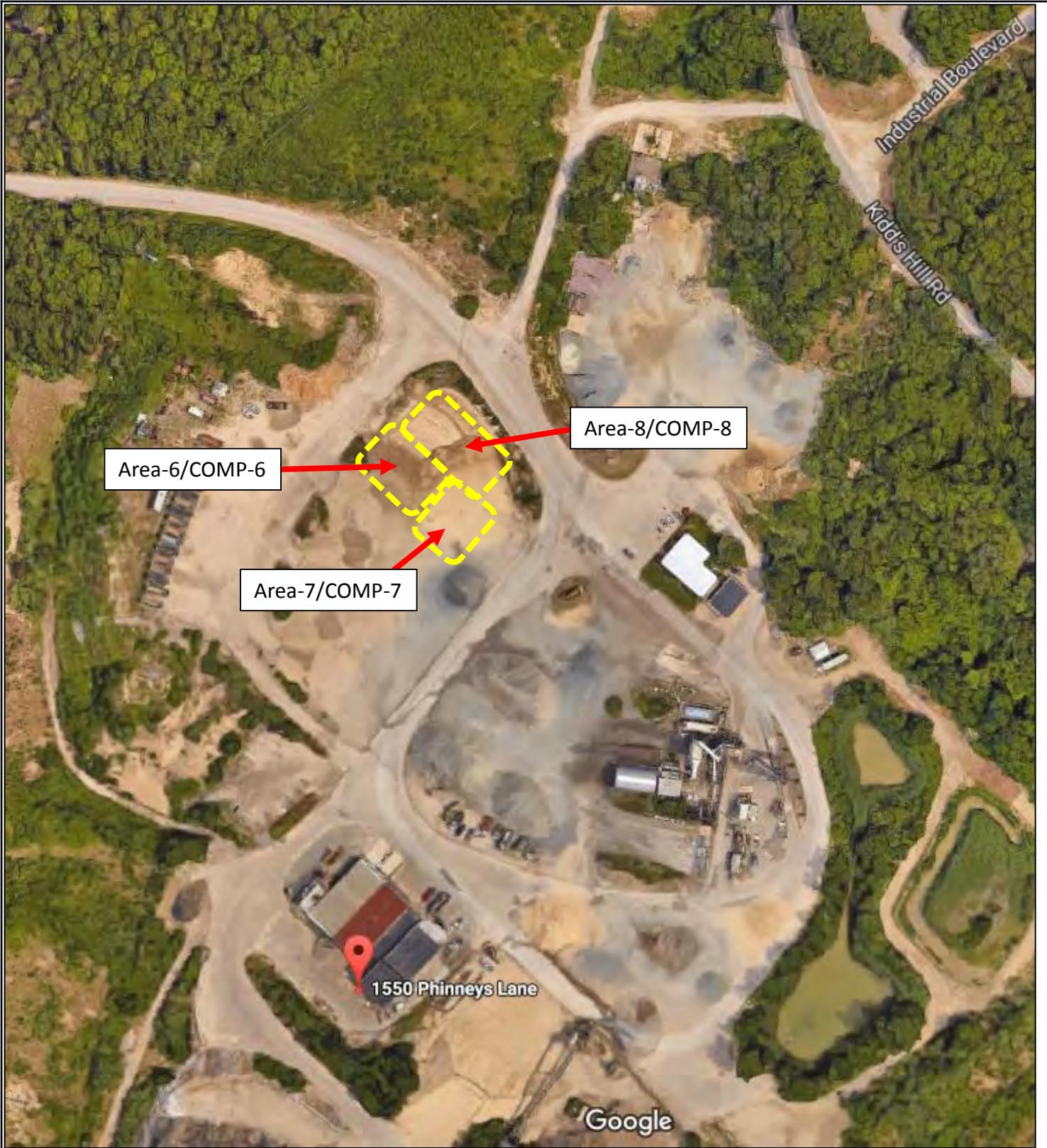
SITE COORDINATES:

Latitude: 41.664191  
Longitude: 70.280922

PROJECT ID:

RTN: 4-26347





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 114 State Road, Building B  
 Sagamore Beach, MA 02562

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 Fax: (508) 888 – 1506  
 www.gseenv.com



**PROJECT NAME:**

MassDEP RFI Response

**LOCATION:**

Cape Cod Aggregate  
 1550 Phinneys Lane  
 Barnstable, Massachusetts

**DRAWING TITLE:**

Figure 2: Site Sketch

**SITE COORDINATES:**

Latitude: 41.683508  
 Longitude: 70.305271

**DATE:**

November 8, 2017

**PROJECT ID:**

RTN: 4-26347