COPY

Enter your transmittal number → X224394
Transmittal Number

Your unique Transmittal Number can be accessed online: http://mass.gov/dep/service/online/trasmfrm.shtml or call MassDEP's InfoLine at 617-338-2255 or 800-462-0444 (from 508, 781, and 978 area codes).

Massachusetts Department of Environmental Protection

Transmittal Form for Permit Application and Payment

1. Please type or print. A separate Transmittal Form must be completed for each permit application.

2. Make your check payable to the Commonwealth of Massachusetts and mail it with a copy of this form to: DEP, P.O. Box 4062, Boston, MA 02211.

3. Three copies of this form will be needed.

Copy 1 - the original must accompany your permit application. **Copy 2** must accompany your fee payment. **Copy 3** should be retained for your records

4. Both fee-paying and exempt applicants must mail a copy of this transmittal form to:

MassDEP
P.O. Box 4062
Boston, MA
02211

*** Note:**
For BWSC Permits, enter the LSP.

A. Permit Information

BWP SW 40
1. Permit Code: 7 or 8 character code from permit instructions

Regulated Systems
2. Name of Permit Category

Application for Beneficial Use Determination
3. Type of Project or Activity

B. Applicant Information – Firm or Individual

City of Beverly
1. Name of Firm - Or, if party needing this approval is an individual enter name below:

2. **Last Name** of Individual
3. **First Name** of Individual
4. MI

191 Cabot Street
5. Street Address

6. City/Town	7. State	8. Zip Code	9. Telephone #	10. Ext. #
Beverly	MA	01915	978-921-6000	

Michael F. Geisser, PE, LSP
11. Contact Person

mgeisser@allianceenvironmentalgroup.com
12. e-mail address (optional)

C. Facility, Site or Individual Requiring Approval

Department of Public Works Yard
1. Name of Facility, Site Or Individual

148 Park Street
2. Street Address

3. City/Town	4. State	5. Zip Code	6. Telephone #	7. Ext. #
Beverly	MA	01915	978-921-6053	

8. DEP Facility Number (if Known)
9. Federal I.D. Number (if Known)
10. BWSC Tracking # (if Known)

D. Application Prepared by (if different from Section B)*

Alliance Environmental Group, Inc.

124 Mt. Auburn St., 200N
2. Address

3. City/Town	4. State	5. Zip Code	6. Telephone #	7. Ext. #
Cambridge	MA	02138	617-492-6500	16

Michael F. Geisser, PE, LSP
8. Contact Person

9. LSP Number (BWSC Permits only)

E. Permit - Project Coordination

1. Is this project subject to MEPA review? ☐ yes ☒ no
If yes, enter the project's EOEA file number - assigned when an Environmental Notification Form is submitted to the MEPA unit:

EOEA File Number

F. Amount Due

DEP Use Only

Permit No:

Rec'd Date:

Reviewer:

Special Provisions:

1. ☒ **Fee** Exempt (city, town or municipal housing authority)(state agency if fee is $100 or less).
There are no fee exemptions for BWSC permits, regardless of applicant status.
2. ☐ Hardship Request - payment extensions according to 310 CMR 4.04(3)(c).
3. ☐ Alternative Schedule Project (according to 310 CMR 4.05 and 4.10).
4. ☐ Homeowner (according to 310 CMR 4.02).

Check Number	Dollar Amount	Date
N/A	N/A	N/A

Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Solid Waste Management

Application for Beneficial Use Determination

BWP SW 39 Commercial Products - BWP SW 40 Regulated Systems
BWP SW 41 Restricted Applications - BWP SW 42 Unrestricted Applications
BWP SW 44 Modifications

224394
Transmittal Number

Facility ID# (if known)

Important: When filling out forms on the computer, use only the tab key to move your cursor - do not use the return key.

A. Applicant Information

City of Beverly
Name

191 Cabot Street
Street Address

Beverly — City/Town
MA — State
01915 — Zip Code

978-921-6000
Telephone

Michael F. Geisser, PE, LSP — Contact Person
617-492-6500 — Contact Telephone

Directions: Complete A and B, as well as the applicable section of C.

Specify the plan/report and page numbers where the information is located.

Enter "N/A" if information requested is not applicable.

B. Project Information

Which permit category are you applying for?

☐ BWP SW 39 ☒ BWP SW 40 ☐ BWP SW 41 ☐ BWP SW 42 ☐ BWP SW 44

	Plan/Report #	Page #	DEP Use Only
1. Summary of the secondary material's proposed use & handling	1	1	
2. Description of how the proposed utilization will result in a viable & beneficial substitution for a commercial product or commodity	1	1	
a. Description of the feedstock or product the secondary material is replacing	1	1	
b. Description of the proposed use of secondary material	1	1	
3. Detailed description of the proposed facility that stores, processes, or otherwise handles the secondary material proposed for use	1	1	
a. Source or origin of secondary material	1	2	
b. Processing methods used in the preparation of secondary material	1	2	

B. Project Information (continued)

	Plan/Report #	Page #	Page # DEP Use Only
c. Description of similar products currently & historically produced by facility	1	2	
d. Annual quantities, by weight and/or volume, of the secondary material proposed for beneficial use	1	2	
e. Storage requirements necessary for maintaining sufficient inventory to meet market demand	1	2	
4. Proposed location of use, if applicable, or types of locations where the secondary material will be used (e.g. highway rights-of-way, industrial zoned properties, etc.)	1	2	
5. Detailed physical & chemical characterization of both the secondary material proposed for beneficial use & the final product	1	3	
a. Physical properties: size, density, particle size and gradation, percent solids, organic fraction, moisture content/moisture capacity, etc.	1	3	
b. Biological properties: pathogens, etc.	1	3	
c. Chemical characterization	1	3	
i. Detailed list of chemical constituents found in the secondary material and the derived beneficial use product(s)	1	3	
ii. Identification of Critical Contaminants of Concern (CCCs)	1	3	
d. Description of sampling & analysis methods	1	4	
i. Quality assurance & quality control plan	1	4	

B. Project Information (continued)

	Plan/Report #	Page #	Page # DEP Use Only
6. Evaluation & control of potential adverse health, safety or environmental impacts	1	4	
a. Toxics Use Reduction Plan (TURP), if applicable	1	4	
b. Risk management techniques being used (e.g. deed/use limitations, location restrictions, engineering controls, etc.)	1	4	
c. Best Management Practices (BMPs) employed	1	4	

C. Category-Specific Information

Complete only the applicable section.	Plan/Report #	Page #	Page # DEP Use Only
1. BWP SW 39: Use in Commercial Products, 310 CMR 19.060(14)			
a. Physical characterization of the commercial product			
b. Constituents (including hazardous materials) contained in the product manufactured using traditional materials or products			
c. Comparative analysis of the product manufactured using the secondary material versus the traditionally used material it is replacing			
i. Hazardous materials, including CCCs (on a weight & concentration basis)			
ii. Processing required for use			
iii. Storage & handling before actual use			

C. Category-Specific Information (continued)

Complete only the applicable section.	Plan/Report #	Page #	Page # DEP Use Only
iv. Actual use			
v. Management or processing during its lifecycle, including, but not limited to, any destructive practices that reasonably may be expected to be employed in recycling or disposing of the material at the end of its useful life			
2. BWP SW 40: Use of Secondary Materials in Regulated Systems, 19.060(15)			
a. Operative DEP permit, order, or approval for the facility/site	1	4	
i. Terms and conditions of any such permit, order or approval relevant to the proposed use	1	5	
b. General description of the facility/site activities	1	5	
c. Appropriate numerical standards, risk management criteria and other applicable requirements as identified by DEP	1	5	
d. Identification, evaluation and control of potential significant risks from the storage, transfer, processing, treatment activities and use of the secondary material	1	5	
3. BWP SW 41: Use of Secondary Materials in Restricted Applications, 19.060(16)			
a. Concentrations of hazardous materials of concern in the material proposed for use			
b. Upper concentration limits (UCLs) for those hazardous materials			

C. Category-Specific Information (continued)

Complete only the applicable section.	Plan/Report #	Page #	Page # DEP Use Only
c. Background concentrations of those hazardous materials			
i. Statewide			
ii. Site-specific			
d. Release and exposure pathways			
e. Risk management techniques used to prevent adverse impact or significant risks to public health, safety & the environment, including nuisance conditions			
i. Engineering controls			
ii. Use limitations			
iii. Other techniques			
f. Hazardous materials concentrations above UCLs			
g. Hazardous materials concentrations not below background			
i. Demonstration that these are within acceptable limits through (a) Numerical Standards or (b) Total Waste Reuse Risk			
h. Evaluation and control of significant risks to public health and safety			
i. Evaluation and control of significant risks to the environment			
j. End of use management			
k. Deed notification			

Massachusetts Department of Environmental Protection
Bureau of Waste Prevention – Solid Waste Management

Application for Beneficial Use Determination

BWP SW 39 Commercial Products - BWP SW 40 Regulated Systems
BWP SW 41 Restricted Applications - BWP SW 42 Unrestricted Applications
BWP SW 44 Modifications

224394
Transmittal Number

Facility ID# (if known)

C. Category-Specific Information (continued)

Complete only the applicable section.	Plan/Report #	Page #	Page # DEP Use Only
4. BWP SW 42: Use of Secondary Material in Unrestricted Applications, 19.060(17)			
a. Description of proposed use			
b. Conservative, unrestricted general exposure assumptions			
c. Complete Section 3 (BWPSW41) on page 4 of this form			
5. BWP SW 44: Modification			
a. Description of Change			
b. Attach existing BUD			
c. Summation of data collection under existing BUD, if any			
d. Identification and submission of information needed to process requested modification			

D. Certification: 310 CMR 19.011

Any person, required by these regulations or any order issued by the Department, to submit papers shall identify themselves by name, profession, and relationship to the applicant and legal interest in the facility, and make the following certification: "I certify under penalty of law that I have personally examined and am familiar with the information submitted in this document and all attachments and that, based on my inquiry of those individuals immediately responsible for obtaining the information, I believe that the information is true, accurate and complete. I am aware that there are significant penalties both civil and criminal for submitting false information including possible fines and imprisonment."

Michael F. Geisser, PE, LSP
Print Name

Authorized Signature

Consultant for the City of Beverly
Position/Title

10-14-2008
Date

B. Project Information

1. Summary of the secondary material's proposed use and handling.

The subject material is a mixture of street sweepings and catch basin cleanings (hereinafter called "cleanings") that are presently being stored at the Beverly Department of Public Works Yard at 148 Park Street, Beverly, Massachusetts. It is proposed that this material be used for daily cover, intermediate cover, and/or pre-capping contouring at one or more permitted municipal solid waste landfills within the jurisdiction of the Southeast Region of the MADEP. Upon deposition at the landfill(s) from City of Beverly transporters, which will be loaded under a water mist to suppress dust and then covered with a tarp to suppress mobilization during transportation, the material will be spread as needed at the landfill(s) for daily cover, intermediate cover and/or pre-capping contour material as needed.

A strong effort was made to identify locations in the City of Beverly where the material could be beneficially used for grading and/or fill, but no such uses could be identified. As such, the use at the landfill(s) was chosen as a last alternative.

2. Description of how the proposed utilization will result in a viable & beneficial substitution for a commercial product or commodity.

a. Description of the feedstock or product the secondary material is replacing.

The use of the cleanings for daily cover, intermediate cover, and/or pre-capping contouring obviates the need and use of clean imported soil, which is both expensive and a poor use of such virgin/clean material.

b. Description of the proposed use of secondary material.

The secondary material will be used for daily cover, intermediate cover, and/or pre-capping contouring, as needed, at one or more active permitted municipal solid waste landfills within the jurisdiction of the Southeast Region of the MADEP.

3. Detailed description of the proposed facility that stores, processes, or otherwise handles the secondary material proposed for use.

a. Source or origin of secondary material.

The material is generated from sweeping the streets and cleaning the catch basins throughout the City of Beverly, and returning the materials to the DPW Yard.

b. Processing methods used in the preparation of secondary material.

The secondary materials are segregated in the DPW Yard from other materials stored at the yard by concrete block walls, creating stalls for storage of the material.

c. Description of similar products currently & historically produced by facility.

No other similar products are currently or have been historically produced by the facility.

d. Annual quantities by weight and/or volume of the secondary material proposed for beneficial use.

Historically, the facility has generated approximately 1000 cubic yards of the secondary material annually. At present, approximately that volume is being stored at the facility awaiting beneficial use.

e. Storage requirements necessary for maintaining sufficient inventory to meet market demand.

At present, the DPW Yard can store up to one year's generation of the material. However, as space is at a premium, use of this material at the landfill(s) would allow the required storage space to be reduced by approximately 90%.

4. Proposed location of use, if applicable, or types of locations where the secondary material will be used (e.g. highway rights-of-way, industrial zoned properties, etc.).

The secondary material will be used as daily cover, intermediate cover, and/or pre-capping contouring at one or more active permitted municipal solid waste landfills within the jurisdiction of the Southeast Region of the MADEP.

5. Detailed physical & chemical characterization of both the secondary material proposed for beneficial use & the final product.

a. Physical properties: size density, particle size and gradation, percent solids, organic fraction, moisture content/moisture capacity, etc.

The material is predominantly medium to fine sand, with a presumed characteristic loose density of approximately 100 pcf. An ASTM coarse gradation (ASTM D-422) was performed on one representative sample from the presently existing stockpiled material at the Beverly DPW Yard. Three samples were taken and submitted to the materials lab, but they only ran one, as all three samples appeared to be identical material. The results are appended hereto. In summary, according to the Unified Soil Classification System, the soil is considered to be SW (well-graded sand, fine to coarse sand), with 100% passing a 1.5 inch sieve, 88% passing a #4 sieve, and 6% passing a #200 sieve. The material exhibits a very low organic content (< 6%), and all free water has (and will have) been drained from the material prior to its delivery to the landfill(s). The percentage solids of the material as received by the chemical analytical laboratory ranged between 85 and 89.

b. Biological properties: pathogens, etc.

No biological or pathogenic organisms of interest are expected to exist in the material due to its source. As such, and due to the material's intended beneficial use, no special testing was conducted for pathogens or biologicals.

c. Chemical characterization.

i. Detailed list of chemical constituents found in the secondary material and the derived beneficial use product(s).

Three discrete grab samples were taken at random from representative areas of the stockpiled material and laboratory analyzed for total As, Cd, Cr, Pb and Hg; TPH by 8100M; total PCBs by 8080; total SVOCs by 8270; total VOCs by 8260; and conductivity. None of the target analytes were reported at levels of concern, pursuant to MADEP Policy #COMM-97-001. A full copy of the laboratory report is appended hereto.

ii. Identification of Critical Contaminants of Concern (CCCs).

No CCCs were identified.

d. Description of sampling & analysis methods.

i. Quality assurance & quality control plan.

All samples were taken with clean stainless steel tools and placed into sterile laboratory-prepared containers. After retrieval, all samples were put on ice and taken under appropriate Chain-of-Custody protocols to a Massachusetts-certified laboratory for the designated analyses.

The laboratory (ESS Laboratory) reported in its Project Narrative that, unless otherwise noted, all CAM requirements have been met.

6. Evaluation & control of potential adverse health, safety, or environmental impacts.

a. Toxics Use Reduction Plan (TURP), if applicable.

Not applicable.

b. Risk management techniques being used (e.g. deed/use limitations, location restrictions, engineering controls, etc.).

Not applicable.

c. Best Management Practices (BMPs) employed.

Dust suppression will be conducted during loading (water misting) and transportation (covering of loads).

C. Category-Specific Information

2. BWP SW 40: Use of Secondary Materials in Regulated Systems, 10.060(15)

a. Operative DEP permit, order, or approval for the facility/site.

The City of Beverly proposes to solicit bids for landfill services from among those active municipal solid waste landfills permitted to provide the required services within the jurisdiction of the Southeast Region of the MADEP.

i. Terms and conditions of any such permit, order, or approval relevant to the proposed use.

Once a vendor is selected by the City of Beverly, the particular terms and conditions of the permittee will be adhered to.

b. General description of the facility/site activities.

The chosen facility(ies) will be an active permitted municipal solid waste landfill within the jurisdiction of the Southeast Region of the MADEP.

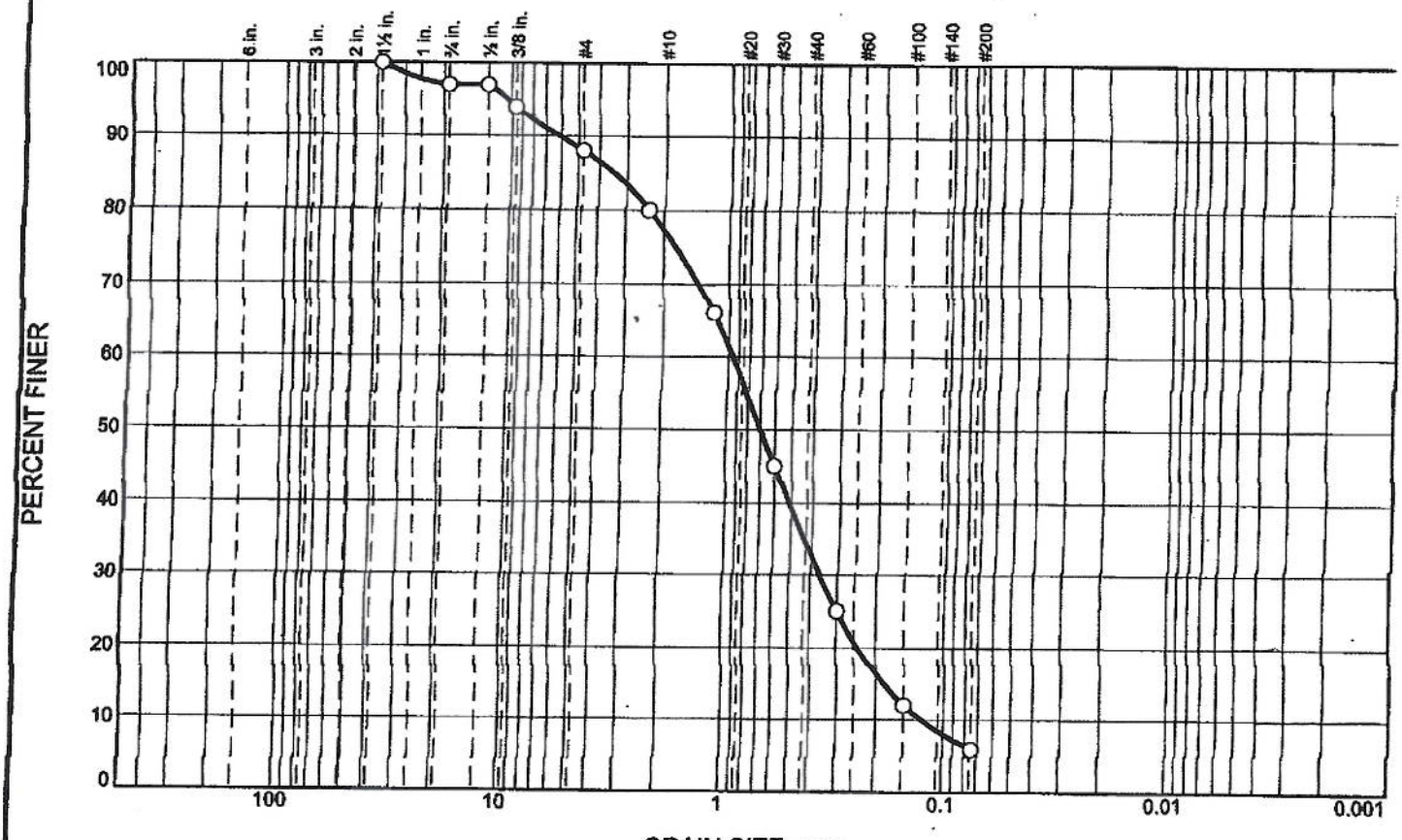
c. Appropriate numerical standards, risk management criteria and other applicable requirements as identified by DEP.

Contaminant Levels for Soil Reuse at Lined Landfills, Department of Environmental Protection, Policy #COMM-97-001.

d. Identification, evaluation, and control of potential significant risks from the storage, transfer, processing, treatment activities, and use of the secondary material.

The potential significant risk is to public health, welfare, and the environment from mobilization of soil particles (dust) during handling and transport of the material.

Particle Size Distribution Report



% +3"	% Gravel		% Sand			% Fines	
	Coarse	Fine	Coarse	Medium	Fine	Silt	Clay
0.0	3.0	9.0	10.6	43.0	28.4	6.0	

SIEVE SIZE	PERCENT FINER	SPEC.* PERCENT	PASS? (X=NO)
1.5	100.0		
.75	97.0		
.5	97.0		
.375	94.0		
#4	88.0		
#8	80.0		
#16	66.0		
#30	45.0		
#50	25.0		
#100	12.0		
#200	6.0		

* (no specification provided)

Material Description

SAMPLE A, ONSITE LOAM WITH ORGANIC, SAMPLED ON 9/18/08 BY CLIENT

Atterberg Limits

PL= LL= PI=

Coefficients

D_{90}= 6.1240 D_{85}= 3.4797 D_{60}= 0.9577
D_{50}= 0.6999 D_{30}= 0.3639 D_{15}= 0.1842
D_{10}= 0.1258 C_u= 7.61 C_c= 1.10

Classification

USCS= AASHTO=

Remarks

Location: BEVERLY, MA
Sample Number: A **Depth:** N/A **Date:**

Geisser Engineering Corporation

Riverside, Rhode Island

Client: ALLIANCE ENVIRONMENTAL GROUP
Project: BEVERLY DPW
Project No: W-492 **Figure**

Tested By: AB **Checked By:** GJGIII

GRAIN SIZE DISTRIBUTION TEST DATA

9/30/2008

Client: ALLIANCE ENVIRONMENTAL GROUP
Project: BEVERLY DPW
Project Number: W-492
Location: BEVERLY, MA
Depth: N/A **Sample Number:** A
Material Description: SAMPLE A, ONSITE LOAM WITH ORGANIC, SAMPLED ON 9/18/08 BY CLIENT
Tested by: AB **Checked by:** GJGIII

Sieve Test Data

Sieve Opening Size	Percent Finer
4	
3	
2	
1.5	100.0
.75	97.0
.5	97.0
.375	94.0
#4	88.0
#8	80.0
#16	66.0
#30	45.0
#50	25.0
#100	12.0
#200	6.0

Fractional Components

Cobbles	Gravel			Sand				Fines		
	Coarse	Fine	Total	Coarse	Medium	Fine	Total	Silt	Clay	Total
0.0	3.0	9.0	12.0	10.6	43.0	28.4	82.0			6.0

D_{10}	D_{15}	D_{20}	D_{30}	D_{50}	D_{60}	D_{80}	D_{85}	D_{90}	D_{95}
0.1258	0.1842	0.2407	0.3639	0.6999	0.9577	2.3600	3.4797	6.1240	10.3597

Fineness Modulus	C_u	C_c
2.93	7.61	1.10

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

PROJECT NARRATIVE

Jacob H. Butterworth
Alliance Environmental Group
100 Jefferson Boulevard
Warwick, RI 02888

RE: Beverly Sweepings
ESS Laboratory Work Order Number: 0809282

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

Laurel Stoddard
Laboratory Director

Date: September 26, 2008

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

ESS Laboratory certifies that the test results meet the requirements of NELAC, except where noted within this project narrative.

To achieve CAM compliance for MCP data, ESS laboratory has performed and reviewed all QA/QC Requirements and Performance Standards listed in each method. Holding times and preservation have also been reviewed. All CAM requirements have been achieved unless noted in the project narrative.

Each method has been set-up in the laboratory to reach required MCP standards. The methods for aqueous VOA and Soil Methanol VOA have known limitations for certain analytes. The regulatory standards may not be achieved due to these limitations. In addition, for all methods, matrix interferences, dilutions, and %Solids may elevate method reporting limits above regulatory standards. ESS Laboratory can provide, upon request, a Data Checker (regulatory standard comparison spreadsheet) electronic deliverable which will highlight these exceedances.

Sample Receipt
The following samples were received on September 19, 2008 for the analyses specified on the enclosed Chain of Custody Record.
Question F: All samples for Metals and EPHwere analyzed for a subset of the required MCP list per the client's request.

Laboratory ID	Matrix	Client Sample ID

0809282-01	Soil	S-101
0809282-02	Soil	S-102
0809282-03	Soil	S-103

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings

ESS Laboratory Work Order: 0809282

PROJECT NARRATIVE

311/6000/7000 TCLP Metals

309282-01	**Reduced weight used for TCLP Extraction.**
	Lead
309282-03	**Reduced weight used for TCLP Extraction.**
	Lead

350B/6000/7000 Total Metals

181923-MS1	**Matrix Spike recovery is below lower control limit.**
	Lead

335/8260B Volatile Organic Compounds / Methanol

RI0170-CCV1	**Continuing Calibration recovery is above upper control limit.**
	1,4-Dioxane - Screen

o other observations noted.

nd of Project Narrative.

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings

ESS Laboratory Work Order: 0809282

MADEP MCP Response Action Analytical Report Certification Form

MADEP RTN*:_____

ıis form provides certification for the following data set:
0809282-01 through 0809282-03

ımple Matricies:	( ) Ground Water	(X) Soil/Sediment	( ) Drinking Water	( ) Other:_____	
MCP SW-846	8260B (X)	8151A ( )	8330 ( )	6010B (X)	7470A/1A (X)
Methods Used	8270C (X)	8081A ( )	VPH ( )	6020 ( )	9014M** ( )
	8082 (X)	8021B ( )	EPH (X)	7000 S*** ( )	7196A ( )

s specified in MADEP ompendium of Analytical ethods (Check all that apply)

* List Release Tracking Number (RTN), if known.
** M-SW-846 9014 or MADEP Physiologically Available Cyanide (PAC) Method
*** S - SW - 846 Methods 7000 Series - List individual method and analyte

An affirmative response to questions A, B, C and D is required for "Presumptive Certainty" status

A Were all samples received by the laboratory in a condition consistent with that described on the Chain-of-Custody documentation for the data set? **Yes** No*

B Were all QA/QC procedures required for the specified analytical method(s) included in this report followed, including the requirement to note and discuss in a narrative QC data that did not meet appropriate performance standards or guidelines? **Yes** No*

C Does the data included in the report meet all the requirements for "Presumptive Certainty" as described in Section 2.0 (a), (b), (c) and (d) of the MADEP document CAM VII A, "Quality Assurance and Quality Control Guidelines for the Acquisition and Reporting of Analytical Data"? **Yes** No*

D ***VPH and EPH methods only:*** Was the VPH and EPH method conducted without significant modifications (see Section 11.3 of respective Methods)? **Yes** No*

A response to questions E and F below required for "Presumptive Certainty" status

E Were all QC performance standards and recommendations for the specific methods achieved? Yes **No***

F Were results for all analyte-list compounds/elements for the specified method(s) reported? Yes **No***

****All negative responses must be addressed in an attached Environmental Laboratory Case 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, accurate and complete.

Signature: Laurel Stoddard

Date: September 26, 2008

Printed Name: Laurel Stoddard

Position: Laboratory Director

185 Frances Avenue, Cranston, RI 02910-2211 Tel: 401-461-7181 Fax: 401-461-4486 http://www.ESSLaboratory.com

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-101
ate Sampled: 09/18/08 00:00
ercent Solids: 85

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-01
Sample Matrix: Soil

TCLP Date: 9/25/08

1311/6000/7000 TCLP Metals

nalyte		Results	Units	MRL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V
ead	RW	0.297	mg/L	0.020	1311/6010B	5	1	JP	09/26/08	50	50

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-101
ate Sampled: 09/18/08 00:00
ercent Solids: 85

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-01
Sample Matrix: Soil

3050B/6000/7000 Total Metals

MA - S1GW1

nalyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
senic	4.3	mg/kg dry	3.8	6010B	20	1	SVD	09/22/08	1.55	100
dmium	ND	mg/kg dry	0.76	6010B	2	1	SVD	09/22/08	1.55	100
romium	22.0	mg/kg dry	1.5	6010B	30	1	SVD	09/22/08	1.55	100
ad	124	mg/kg dry	38.0	6010B	300	5	SVD	09/23/08	1.55	100
ercury	0.041	mg/kg dry	0.039	7471A	20	1	JP	09/23/08	0.6	40

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-101
ate Sampled: 09/18/08 00:00
ercent Solids: 85
itial Volume: 9.5
nal Volume: 10
xtraction Method: 5035

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-01
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

nalyte	Results	Units	MRL	MA - S1GW1 Limit	DF	Analyzed
1,1,2-Tetrachloroethane	ND	mg/kg dry	0.141	0.1	1	09/22/08
1,1-Trichloroethane	ND	mg/kg dry	0.0707	30	1	09/22/08
1,2,2-Tetrachloroethane	ND	mg/kg dry	0.0707	0.005	1	09/22/08
1,2-Trichloroethane	ND	mg/kg dry	0.0707	0.1	1	09/22/08
1-Dichloroethane	ND	mg/kg dry	0.0707	0.4	1	09/22/08
1-Dichloroethene	ND	mg/kg dry	0.0707	3	1	09/22/08
1-Dichloropropene	ND	mg/kg dry	0.0707		1	09/22/08
2,3-Trichlorobenzene	**0.158**	mg/kg dry	0.0707		1	09/22/08
2,3-Trichloropropane	ND	mg/kg dry	0.0707		1	09/22/08
2,4-Trichlorobenzene	**0.0750**	mg/kg dry	0.0707	2	1	09/22/08
2,4-Trimethylbenzene	**0.0722**	mg/kg dry	0.0707	100	1	09/22/08
2-Dibromo-3-Chloropropane	ND	mg/kg dry	0.424		1	09/22/08
2-Dibromoethane	ND	mg/kg dry	0.0707	0.1	1	09/22/08
2-Dichlorobenzene	ND	mg/kg dry	0.0707	9	1	09/22/08
2-Dichloroethane	ND	mg/kg dry	0.0707	0.1	1	09/22/08
2-Dichloropropane	ND	mg/kg dry	0.0707	0.1	1	09/22/08
3,5-Trimethylbenzene	ND	mg/kg dry	0.0707	100	1	09/22/08
3-Dichlorobenzene	ND	mg/kg dry	0.0707	1	1	09/22/08
3-Dichloropropane	ND	mg/kg dry	0.0707		1	09/22/08
4-Dichlorobenzene	ND	mg/kg dry	0.0707	0.7	1	09/22/08
4-Dioxane - Screen	**15.5**	mg/kg dry	7.07	0.2	1	09/22/08
2-Dichloropropane	ND	mg/kg dry	0.141		1	09/22/08
Butanone	ND	mg/kg dry	1.77	4	1	09/22/08
Chlorotoluene	ND	mg/kg dry	0.0707		1	09/22/08
Hexanone	ND	mg/kg dry	0.707		1	09/22/08
Chlorotoluene	ND	mg/kg dry	0.0707		1	09/22/08
Isopropyltoluene	ND	mg/kg dry	0.0707	100	1	09/22/08
Methyl-2-Pentanone	ND	mg/kg dry	0.707	0.4	1	09/22/08
etone	ND	mg/kg dry	1.77	6	1	09/22/08
enzene	ND	mg/kg dry	0.0707	2	1	09/22/08
omobenzene	ND	mg/kg dry	0.0707		1	09/22/08
omochloromethane	ND	mg/kg dry	0.0707		1	09/22/08
omodichloromethane	ND	mg/kg dry	0.0707	0.1	1	09/22/08
omoform	ND	mg/kg dry	0.0707	0.1	1	09/22/08
omomethane	ND	mg/kg dry	0.141	0.5	1	09/22/08

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-101
ate Sampled: 09/18/08 00:00
ercent Solids: 85
itial Volume: 9.5
nal Volume: 10
xtraction Method: 5035

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-01
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

rbon Disulfide	ND	mg/kg dry	0.0707		1	09/22/08
rbon Tetrachloride	ND	mg/kg dry	0.0707	10	1	09/22/08
lorobenzene	ND	mg/kg dry	0.0707	1	1	09/22/08
loroethane	ND	mg/kg dry	0.141		1	09/22/08
loroform	ND	mg/kg dry	0.0707	0.4	1	09/22/08
loromethane	ND	mg/kg dry	0.141		1	09/22/08
-1,2-Dichloroethene	ND	mg/kg dry	0.0707	0.3	1	09/22/08
-1,3-Dichloropropene	ND	mg/kg dry	0.0707	0.01	1	09/22/08
bromochloromethane	ND	mg/kg dry	0.0707	0.005	1	09/22/08
bromomethane	ND	mg/kg dry	0.0707		1	09/22/08
chlorodifluoromethane	ND	mg/kg dry	0.0707		1	09/22/08
ethyl Ether	ND	mg/kg dry	0.0707		1	09/22/08
-isopropyl ether	ND	mg/kg dry	0.0707		1	09/22/08
hyl tertiary-butyl ether	ND	mg/kg dry	0.0707		1	09/22/08
hylbenzene	ND	mg/kg dry	0.0707	40	1	09/22/08
xachlorobutadiene	ND	mg/kg dry	0.0707	6	1	09/22/08
opropylbenzene	ND	mg/kg dry	0.0707	100	1	09/22/08
ethyl tert-Butyl Ether	ND	mg/kg dry	0.0707	0.1	1	09/22/08
ethylene Chloride	ND	mg/kg dry	0.354	0.1	1	09/22/08
aphthalene	**0.273**	mg/kg dry	0.0707	4	1	09/22/08
Butylbenzene	ND	mg/kg dry	0.0707	100	1	09/22/08
Propylbenzene	ND	mg/kg dry	0.0707	100	1	09/22/08
c-Butylbenzene	ND	mg/kg dry	0.0707	100	1	09/22/08
yrene	ND	mg/kg dry	0.0707	3	1	09/22/08
rt-Butylbenzene	ND	mg/kg dry	0.0707	100	1	09/22/08
rtiary-amyl methyl ether	ND	mg/kg dry	0.0707		1	09/22/08
trachloroethene	ND	mg/kg dry	0.0707	1	1	09/22/08
trahydrofuran	ND	mg/kg dry	0.707		1	09/22/08
oluene	**0.218**	mg/kg dry	0.0707	30	1	09/22/08
ns-1,2-Dichloroethene	ND	mg/kg dry	0.0707	1	1	09/22/08
ns-1,3-Dichloropropene	ND	mg/kg dry	0.0707	0.01	1	09/22/08
ichloroethene	ND	mg/kg dry	0.0707	0.3	1	09/22/08
ichlorofluoromethane	ND	mg/kg dry	0.0707		1	09/22/08
inyl Chloride	ND	mg/kg dry	0.0707	0.6	1	09/22/08
ylene O	ND	mg/kg dry	0.0707	400	1	09/22/08
ylene P,M	ND	mg/kg dry	0.141	400	1	09/22/08

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

.ient Name: Alliance Environmental Group
.ient Project ID: Beverly Sweepings
.ient Sample ID: S-101
ate Sampled: 09/18/08 00:00
rcent Solids: 85
itial Volume: 1
nal Volume: 1
ctraction Method: [CALC]

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-01
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

lenes (Total)	ND	mg/kg dry	0.212	400	1	09/22/08

	%Recovery	Qualifier	Limits
rogate: 1,2-Dichloroethane-d4	114 %		70-130
rogate: 4-Bromofluorobenzene	114 %		70-130
rogate: Dibromofluoromethane	123 %		70-130
rogate: Toluene-d8	116 %		70-130

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-101
ate Sampled: 09/18/08 00:00
ercent Solids: 85
itial Volume: 20.8
nal Volume: 10
xtraction Method: 3541

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-01
Sample Matrix: Soil
Analyst: SEP
Prepared: 09/22/08

8082 Polychlorinated Biphenyls (PCB)

nalyte	Results	Units	MRL	MA - S1GW1 Limit	DF	Analyzed
oclor 1016	ND	mg/kg dry	0.0566	2	1	09/23/08
oclor 1221	ND	mg/kg dry	0.0566	2	1	09/23/08
oclor 1232	ND	mg/kg dry	0.0566	2	1	09/23/08
oclor 1242	ND	mg/kg dry	0.0566	2	1	09/23/08
oclor 1248	ND	mg/kg dry	0.0566	2	1	09/23/08
oclor 1254	ND	mg/kg dry	0.0566	2	1	09/23/08
oclor 1260	ND	mg/kg dry	0.0566	2	1	09/23/08
oclor 1262	ND	mg/kg dry	0.0566	2	1	09/23/08
oclor 1268	ND	mg/kg dry	0.0566	2	1	09/23/08

	%Recovery	Qualifier	Limits
rrogate: Decachlorobiphenyl	73 %		30-150
rrogate: Decachlorobiphenyl [2C]	116 %		30-150
rrogate: Tetrachloro-m-xylene	91 %		30-150
rrogate: Tetrachloro-m-xylene [2C]	91 %		30-150

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-101
ate Sampled: 09/18/08 00:00
ercent Solids: 85
itial Volume: 20.3
nal Volume: 1
xtraction Method: 3546

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-01
Sample Matrix: Soil
Analyst: SEP
Prepared: 09/24/08

8100M Total Petroleum Hydrocarbons

MA - S1GW1

nalyte	Results	Units	MRL	Limit	DF	Analyzed
tal Petroleum Hydrocarbons	1170	mg/kg dry	435	1000	10	09/25/08

	%Recovery	Qualifier	Limits
rrogate: O-Terphenyl	78 %		40-140

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-101
ate Sampled: 09/18/08 00:00
ercent Solids: 85
itial Volume: 15.2
nal Volume: 1
xtraction Method: 3546

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-01
Sample Matrix: Soil
Analyst: VSC
Prepared: 09/22/08

8270C Semi-Volatile Organic Compounds

nalyte	Results	Units	MRL	MA - S1GW1 Limit	DF	Analyzed
l-Biphenyl	ND	mg/kg dry	3.87	0.05	5	09/23/08
2,4-Trichlorobenzene	ND	mg/kg dry	3.87	2	5	09/23/08
2-Dichlorobenzene	ND	mg/kg dry	3.87	9	5	09/23/08
3-Dichlorobenzene	ND	mg/kg dry	3.87	1	5	09/23/08
4-Dichlorobenzene	ND	mg/kg dry	3.87	0.7	5	09/23/08
4,5-Trichlorophenol	ND	mg/kg dry	3.87	4	5	09/23/08
4,6-Trichlorophenol	ND	mg/kg dry	3.87	0.7	5	09/23/08
4-Dichlorophenol	ND	mg/kg dry	3.87	0.7	5	09/23/08
4-Dimethylphenol	ND	mg/kg dry	3.87	0.7	5	09/23/08
4-Dinitrophenol	ND	mg/kg dry	19.4	3	5	09/23/08
4-Dinitrotoluene	ND	mg/kg dry	3.87	0.7	5	09/23/08
5-Dinitrotoluene	ND	mg/kg dry	3.87		5	09/23/08
Chloronaphthalene	ND	mg/kg dry	3.87		5	09/23/08
Chlorophenol	ND	mg/kg dry	3.87	0.7	5	09/23/08
Methylnaphthalene	ND	mg/kg dry	3.87	0.7	5	09/23/08
Methylphenol	ND	mg/kg dry	3.87		5	09/23/08
Nitrophenol	ND	mg/kg dry	3.87		5	09/23/08
3'-Dichlorobenzidine	ND	mg/kg dry	7.74	1	5	09/23/08
4-Methylphenol	ND	mg/kg dry	7.74		5	09/23/08
Bromophenyl-phenylether	ND	mg/kg dry	3.87		5	09/23/08
Chloroaniline	ND	mg/kg dry	7.74	1	5	09/23/08
Nitrophenol	ND	mg/kg dry	19.4		5	09/23/08
enaphthene	ND	mg/kg dry	3.87	4	5	09/23/08
enaphthylene	ND	mg/kg dry	3.87	1	5	09/23/08
etophenone	ND	mg/kg dry	7.74		5	09/23/08
iline	ND	mg/kg dry	19.4		5	09/23/08
ithracene	ND	mg/kg dry	3.87	1000	5	09/23/08
obenzene	ND	mg/kg dry	3.87		5	09/23/08
nzo(a)anthracene	ND	mg/kg dry	3.87	7	5	09/23/08
nzo(a)pyrene	**2.44**	mg/kg dry	1.94	2	5	09/23/08
nzo(b)fluoranthene	ND	mg/kg dry	3.87	7	5	09/23/08
nzo(g,h,i)perylene	ND	mg/kg dry	3.87	1000	5	09/23/08
nzo(k)fluoranthene	ND	mg/kg dry	3.87	70	5	09/23/08
s(2-Chloroethoxy)methane	ND	mg/kg dry	3.87		5	09/23/08
s(2-Chloroethyl)ether	ND	mg/kg dry	3.87	0.7	5	09/23/08

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-101
ate Sampled: 09/18/08 00:00
ercent Solids: 85
itial Volume: 15.2
inal Volume: 1
xtraction Method: 3546

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-01
Sample Matrix: Soil
Analyst: VSC
Prepared: 09/22/08

8270C Semi-Volatile Organic Compounds

s(2-chloroisopropyl)Ether	ND	mg/kg dry	3.87	0.7	5	09/23/08
s(2-Ethylhexyl)phthalate	**12.7**	mg/kg dry	3.87	200	5	09/23/08
ıtylbenzylphthalate	ND	mg/kg dry	3.87		5	09/23/08
ırysene	**3.12**	mg/kg dry	1.94	70	5	09/23/08
.benzo(a,h)Anthracene	ND	mg/kg dry	1.94	0.7	5	09/23/08
.benzofuran	ND	mg/kg dry	3.87		5	09/23/08
.ethylphthalate	ND	mg/kg dry	3.87	10	5	09/23/08
ımethylphthalate	ND	mg/kg dry	3.87	30	5	09/23/08
.-n-butylphthalate	ND	mg/kg dry	3.87		5	09/23/08
-n-octylphthalate	ND	mg/kg dry	3.87		5	09/23/08
uoranthene	**5.64**	mg/kg dry	3.87	1000	5	09/23/08
uorene	ND	mg/kg dry	3.87	1000	5	09/23/08
exachlorobenzene	ND	mg/kg dry	3.87	0.7	5	09/23/08
exachlorobutadiene	ND	mg/kg dry	3.87	6	5	09/23/08
exachloroethane	ND	mg/kg dry	3.87	0.7	5	09/23/08
deno(1,2,3-cd)Pyrene	ND	mg/kg dry	3.87	7	5	09/23/08
ɔphorone	ND	mg/kg dry	3.87		5	09/23/08
aphthalene	ND	mg/kg dry	3.87	4	5	09/23/08
.trobenzene	ND	mg/kg dry	3.87		5	09/23/08
-Nitrosodimethylamine	ND	mg/kg dry	3.87		5	09/23/08
ntachlorophenol	ND	mg/kg dry	19.4	3	5	09/23/08
ıenanthrene	ND	mg/kg dry	3.87	10	5	09/23/08
ıenol	ND	mg/kg dry	3.87	1	5	09/23/08
rene	**4.83**	mg/kg dry	3.87	1000	5	09/23/08

	%Recovery	Qualifier	Limits
rrogate: 1,2-Dichlorobenzene-d4	*63 %*		*30-130*
rrogate: 2,4,6-Tribromophenol	*70 %*		*30-130*
rrogate: 2-Chlorophenol-d4	*57 %*		*30-130*
rrogate: 2-Fluorobiphenyl	*69 %*		*30-130*
rrogate: 2-Fluorophenol	*49 %*		*30-130*
rrogate: Nitrobenzene-d5	*63 %*		*30-130*
rrogate: Phenol-d6	*64 %*		*30-130*
rrogate: p-Terphenyl-d14	*80 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-101
ate Sampled: 09/18/08 00:00
ercent Solids: 85

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-01
Sample Matrix: Soil

Classical Chemistry

MA - S1GW1

nalyte		Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed
onductivity	WL	2840	umhos/cm	5	9050A		1	EEM	09/19/08

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-102
ate Sampled: 09/18/08 00:00
ercent Solids: 87

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-02
Sample Matrix: Soil

3050B/6000/7000 Total Metals

MA - S1GW1

nalyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
senic	4.3	mg/kg dry	3.8	6010B	20	1	SVD	09/22/08	1.51	100
dmium	ND	mg/kg dry	0.77	6010B	2	1	SVD	09/22/08	1.51	100
romium	23.0	mg/kg dry	1.5	6010B	30	1	SVD	09/22/08	1.51	100
ad	95.4	mg/kg dry	38.1	6010B	300	5	SVD	09/23/08	1.51	100
ercury	0.058	mg/kg dry	0.036	7471A	20	1	JP	09/23/08	0.63	40

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

:ient Name: Alliance Environmental Group
:ient Project ID: Beverly Sweepings
'ient Sample ID: S-102
ate Sampled: 09/18/08 00:00
:rcent Solids: 87
itial Volume: 10.3
nal Volume: 10
ctraction Method: 5035

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-02
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

nalyte	Results	Units	MRL	MA - S1GW1 Limit	DF	Analyzed
l,1,2-Tetrachloroethane	ND	mg/kg dry	0.127	0.1	1	09/22/08
l,1-Trichloroethane	ND	mg/kg dry	0.0633	30	1	09/22/08
l,2,2-Tetrachloroethane	ND	mg/kg dry	0.0633	0.005	1	09/22/08
l,2-Trichloroethane	ND	mg/kg dry	0.0633	0.1	1	09/22/08
l-Dichloroethane	ND	mg/kg dry	0.0633	0.4	1	09/22/08
l-Dichloroethene	ND	mg/kg dry	0.0633	3	1	09/22/08
l-Dichloropropene	ND	mg/kg dry	0.0633		1	09/22/08
2,3-Trichlorobenzene	ND	mg/kg dry	0.0633		1	09/22/08
2,3-Trichloropropane	ND	mg/kg dry	0.0633		1	09/22/08
2,4-Trichlorobenzene	ND	mg/kg dry	0.0633	2	1	09/22/08
2,4-Trimethylbenzene	ND	mg/kg dry	0.0633	100	1	09/22/08
2-Dibromo-3-Chloropropane	ND	mg/kg dry	0.380		1	09/22/08
2-Dibromoethane	ND	mg/kg dry	0.0633	0.1	1	09/22/08
2-Dichlorobenzene	ND	mg/kg dry	0.0633	9	1	09/22/08
2-Dichloroethane	ND	mg/kg dry	0.0633	0.1	1	09/22/08
2-Dichloropropane	ND	mg/kg dry	0.0633	0.1	1	09/22/08
3,5-Trimethylbenzene	ND	mg/kg dry	0.0633	100	1	09/22/08
3-Dichlorobenzene	ND	mg/kg dry	0.0633	1	1	09/22/08
3-Dichloropropane	ND	mg/kg dry	0.0633		1	09/22/08
4-Dichlorobenzene	ND	mg/kg dry	0.0633	0.7	1	09/22/08
4-Dioxane - Screen	ND	mg/kg dry	6.33	0.2	1	09/22/08
2-Dichloropropane	ND	mg/kg dry	0.127		1	09/22/08
Butanone	ND	mg/kg dry	1.58	4	1	09/22/08
Chlorotoluene	ND	mg/kg dry	0.0633		1	09/22/08
Hexanone	ND	mg/kg dry	0.633		1	09/22/08
Chlorotoluene	ND	mg/kg dry	0.0633		1	09/22/08
Isopropyltoluene	ND	mg/kg dry	0.0633	100	1	09/22/08
Methyl-2-Pentanone	ND	mg/kg dry	0.633	0.4	1	09/22/08
:etone	1.60	mg/kg dry	1.58	6	1	09/22/08
:nzene	ND	mg/kg dry	0.0633	2	1	09/22/08
:omobenzene	ND	mg/kg dry	0.0633		1	09/22/08
:omochloromethane	ND	mg/kg dry	0.0633		1	09/22/08
:omodichloromethane	ND	mg/kg dry	0.0633	0.1	1	09/22/08
:omoform	ND	mg/kg dry	0.0633	0.1	1	09/22/08
:omomethane	ND	mg/kg dry	0.127	0.5	1	09/22/08

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

:ient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-102
ate Sampled: 09/18/08 00:00
:rcent Solids: 87
itial Volume: 10.3
nal Volume: 10
ctraction Method: 5035

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-02
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

ırbon Disulfide	ND	mg/kg dry	0.0633		1	09/22/08
ırbon Tetrachloride	ND	mg/kg dry	0.0633	10	1	09/22/08
ılorobenzene	ND	mg/kg dry	0.0633	1	1	09/22/08
ıloroethane	ND	mg/kg dry	0.127		1	09/22/08
ıloroform	ND	mg/kg dry	0.0633	0.4	1	09/22/08
ıloromethane	ND	mg/kg dry	0.127		1	09/22/08
:-1,2-Dichloroethene	ND	mg/kg dry	0.0633	0.3	1	09/22/08
:-1,3-Dichloropropene	ND	mg/kg dry	0.0633	0.01	1	09/22/08
bromochloromethane	ND	mg/kg dry	0.0633	0.005	1	09/22/08
bromomethane	ND	mg/kg dry	0.0633		1	09/22/08
chlorodifluoromethane	ND	mg/kg dry	0.0633		1	09/22/08
ethyl Ether	ND	mg/kg dry	0.0633		1	09/22/08
-isopropyl ether	ND	mg/kg dry	0.0633		1	09/22/08
hyl tertiary-butyl ether	ND	mg/kg dry	0.0633		1	09/22/08
hylbenzene	ND	mg/kg dry	0.0633	40	1	09/22/08
:xachlorobutadiene	ND	mg/kg dry	0.0633	6	1	09/22/08
›propylbenzene	ND	mg/kg dry	0.0633	100	1	09/22/08
ethyl tert-Butyl Ether	ND	mg/kg dry	0.0633	0.1	1	09/22/08
ethylene Chloride	ND	mg/kg dry	0.316	0.1	1	09/22/08
ıphthalene	**0.208**	mg/kg dry	0.0633	4	1	09/22/08
Butylbenzene	ND	mg/kg dry	0.0633	100	1	09/22/08
Propylbenzene	ND	mg/kg dry	0.0633	100	1	09/22/08
:-Butylbenzene	ND	mg/kg dry	0.0633	100	1	09/22/08
yrene	ND	mg/kg dry	0.0633	3	1	09/22/08
t-Butylbenzene	ND	mg/kg dry	0.0633	100	1	09/22/08
:rtiary-amyl methyl ether	ND	mg/kg dry	0.0633		1	09/22/08
:trachloroethene	ND	mg/kg dry	0.0633	1	1	09/22/08
:trahydrofuran	ND	mg/kg dry	0.633		1	09/22/08
ıluene	**0.295**	mg/kg dry	0.0633	30	1	09/22/08
ıns-1,2-Dichloroethene	ND	mg/kg dry	0.0633	1	1	09/22/08
:ns-1,3-Dichloropropene	ND	mg/kg dry	0.0633	0.01	1	09/22/08
ichloroethene	ND	mg/kg dry	0.0633	0.3	1	09/22/08
ichlorofluoromethane	ND	mg/kg dry	0.0633		1	09/22/08
nyl Chloride	ND	mg/kg dry	0.0633	0.6	1	09/22/08
ylene O	ND	mg/kg dry	0.0633	400	1	09/22/08
ylene P,M	ND	mg/kg dry	0.127	400	1	09/22/08

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-102
ate Sampled: 09/18/08 00:00
ercent Solids: 87
itial Volume: 1
nal Volume: 1
xtraction Method: [CALC]

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-02
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

/lenes (Total)	ND	mg/kg dry	0.190	400	1	09/22/08

	%Recovery	Qualifier	Limits
rrogate: 1,2-Dichloroethane-d4	107 %		70-130
rrogate: 4-Bromofluorobenzene	104 %		70-130
rrogate: Dibromofluoromethane	111 %		70-130
rrogate: Toluene-d8	106 %		70-130

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-102
ate Sampled: 09/18/08 00:00
ercent Solids: 87
itial Volume: 20.3
nal Volume: 10
xtraction Method: 3541

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-02
Sample Matrix: Soil
Analyst: SEP
Prepared: 09/22/08

8082 Polychlorinated Biphenyls (PCB)

nalyte	Results	Units	MRL	MA - S1GW1 Limit	DF	Analyzed
oclor 1016	ND	mg/kg dry	0.0566	2	1	09/23/08
oclor 1221	ND	mg/kg dry	0.0566	2	1	09/23/08
oclor 1232	ND	mg/kg dry	0.0566	2	1	09/23/08
oclor 1242	ND	mg/kg dry	0.0566	2	1	09/23/08
oclor 1248	ND	mg/kg dry	0.0566	2	1	09/23/08
oclor 1254	ND	mg/kg dry	0.0566	2	1	09/23/08
oclor 1260	ND	mg/kg dry	0.0566	2	1	09/23/08
oclor 1262	ND	mg/kg dry	0.0566	2	1	09/23/08
oclor 1268	ND	mg/kg dry	0.0566	2	1	09/23/08

	%Recovery	Qualifier	Limits
rrogate: Decachlorobiphenyl	76 %		30-150
rrogate: Decachlorobiphenyl [2C]	107 %		30-150
rrogate: Tetrachloro-m-xylene	97 %		30-150
rrogate: Tetrachloro-m-xylene [2C]	100 %		30-150

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-102
ate Sampled: 09/18/08 00:00
ercent Solids: 87
itial Volume: 20.1
nal Volume: 1
xtraction Method: 3546

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-02
Sample Matrix: Soil
Analyst: SEP
Prepared: 09/24/08

8100M Total Petroleum Hydrocarbons

MA - S1GW1

nalyte	Results	Units	MRL	Limit	DF	Analyzed
otal Petroleum Hydrocarbons	1270	mg/kg dry	429	1000	10	09/25/08

	%Recovery	Qualifier	Limits
rrogate: O-Terphenyl	75 %		40-140

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-102
ate Sampled: 09/18/08 00:00
ercent Solids: 87
itial Volume: 15.3
nal Volume: 1
xtraction Method: 3546

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-02
Sample Matrix: Soil
Analyst: VSC
Prepared: 09/22/08

8270C Semi-Volatile Organic Compounds

nalyte	Results	Units	MRL	MA - S1GW1 Limit	DF	Analyzed
l-Biphenyl	ND	mg/kg dry	3.75	0.05	5	09/23/08
2,4-Trichlorobenzene	ND	mg/kg dry	3.75	2	5	09/23/08
2-Dichlorobenzene	ND	mg/kg dry	3.75	9	5	09/23/08
3-Dichlorobenzene	ND	mg/kg dry	3.75	1	5	09/23/08
4-Dichlorobenzene	ND	mg/kg dry	3.75	0.7	5	09/23/08
4,5-Trichlorophenol	ND	mg/kg dry	3.75	4	5	09/23/08
4,6-Trichlorophenol	ND	mg/kg dry	3.75	0.7	5	09/23/08
4-Dichlorophenol	ND	mg/kg dry	3.75	0.7	5	09/23/08
4-Dimethylphenol	ND	mg/kg dry	3.75	0.7	5	09/23/08
4-Dinitrophenol	ND	mg/kg dry	18.8	3	5	09/23/08
4-Dinitrotoluene	ND	mg/kg dry	3.75	0.7	5	09/23/08
5-Dinitrotoluene	ND	mg/kg dry	3.75		5	09/23/08
Chloronaphthalene	ND	mg/kg dry	3.75		5	09/23/08
Chlorophenol	ND	mg/kg dry	3.75	0.7	5	09/23/08
Methylnaphthalene	ND	mg/kg dry	3.75	0.7	5	09/23/08
Methylphenol	ND	mg/kg dry	3.75		5	09/23/08
Nitrophenol	ND	mg/kg dry	3.75		5	09/23/08
3'-Dichlorobenzidine	ND	mg/kg dry	7.52	1	5	09/23/08
-4-Methylphenol	ND	mg/kg dry	7.52		5	09/23/08
Bromophenyl-phenylether	ND	mg/kg dry	3.75		5	09/23/08
Chloroaniline	ND	mg/kg dry	7.52	1	5	09/23/08
Nitrophenol	ND	mg/kg dry	18.8		5	09/23/08
enaphthene	ND	mg/kg dry	3.75	4	5	09/23/08
enaphthylene	ND	mg/kg dry	3.75	1	5	09/23/08
etophenone	ND	mg/kg dry	7.52		5	09/23/08
iline	ND	mg/kg dry	18.8		5	09/23/08
thracene	ND	mg/kg dry	3.75	1000	5	09/23/08
zobenzene	ND	mg/kg dry	3.75		5	09/23/08
nzo(a)anthracene	ND	mg/kg dry	3.75	7	5	09/23/08
nzo(a)pyrene	ND	mg/kg dry	1.88	2	5	09/23/08
nzo(b)fluoranthene	ND	mg/kg dry	3.75	7	5	09/23/08
nzo(g,h,i)perylene	ND	mg/kg dry	3.75	1000	5	09/23/08
nzo(k)fluoranthene	ND	mg/kg dry	3.75	70	5	09/23/08
s(2-Chloroethoxy)methane	ND	mg/kg dry	3.75		5	09/23/08
s(2-Chloroethyl)ether	ND	mg/kg dry	3.75	0.7	5	09/23/08

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-102
ate Sampled: 09/18/08 00:00
ercent Solids: 87
itial Volume: 15.3
nal Volume: 1
xtraction Method: 3546

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-02
Sample Matrix: Soil
Analyst: VSC
Prepared: 09/22/08

8270C Semi-Volatile Organic Compounds

s(2-chloroisopropyl)Ether	ND	mg/kg dry	3.75	0.7	5	09/23/08
s(2-Ethylhexyl)phthalate	ND	mg/kg dry	3.75	200	5	09/23/08
ıtylbenzylphthalate	ND	mg/kg dry	3.75		5	09/23/08
ırysene	**2.14**	mg/kg dry	1.88	70	5	09/23/08
benzo(a,h)Anthracene	ND	mg/kg dry	1.88	0.7	5	09/23/08
benzofuran	ND	mg/kg dry	3.75		5	09/23/08
ethylphthalate	ND	mg/kg dry	3.75	10	5	09/23/08
methylphthalate	ND	mg/kg dry	3.75	30	5	09/23/08
-n-butylphthalate	ND	mg/kg dry	3.75		5	09/23/08
-n-octylphthalate	ND	mg/kg dry	3.75		5	09/23/08
uoranthene	**4.38**	mg/kg dry	3.75	1000	5	09/23/08
uorene	ND	mg/kg dry	3.75	1000	5	09/23/08
exachlorobenzene	ND	mg/kg dry	3.75	0.7	5	09/23/08
exachlorobutadiene	ND	mg/kg dry	3.75	6	5	09/23/08
exachloroethane	ND	mg/kg dry	3.75	0.7	5	09/23/08
deno(1,2,3-cd)Pyrene	ND	mg/kg dry	3.75	7	5	09/23/08
ophorone	ND	mg/kg dry	3.75		5	09/23/08
aphthalene	ND	mg/kg dry	3.75	4	5	09/23/08
trobenzene	ND	mg/kg dry	3.75		5	09/23/08
-Nitrosodimethylamine	ND	mg/kg dry	3.75		5	09/23/08
ntachlorophenol	ND	mg/kg dry	18.8	3	5	09/23/08
ienanthrene	ND	mg/kg dry	3.75	10	5	09/23/08
ienol	ND	mg/kg dry	3.75	1	5	09/23/08
rene	ND	mg/kg dry	3.75	1000	5	09/23/08

	%Recovery	*Qualifier*	*Limits*
rrogate: 1,2-Dichlorobenzene-d4	*56 %*		*30-130*
rrogate: 2,4,6-Tribromophenol	*64 %*		*30-130*
rrogate: 2-Chlorophenol-d4	*49 %*		*30-130*
rrogate: 2-Fluorobiphenyl	*55 %*		*30-130*
rrogate: 2-Fluorophenol	*42 %*		*30-130*
rrogate: Nitrobenzene-d5	*53 %*		*30-130*
rrogate: Phenol-d6	*54 %*		*30-130*
rrogate: p-Terphenyl-d14	*73 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-102
ate Sampled: 09/18/08 00:00
ercent Solids: 87

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-02
Sample Matrix: Soil

Classical Chemistry

MA - S1GW1

nalyte		Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed
onductivity	WL	3690	umhos/cm	5	9050A		1	EEM	09/19/08

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-103
ate Sampled: 09/18/08 00:00
ercent Solids: 89

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-03
Sample Matrix: Soil

TCLP Date: 9/25/08

1311/6000/7000 TCLP Metals

nalyte		Results	Units	MRL	Method	TCLP Limit	DF	Analyst	Analyzed	I/V	F/V
ead	RW	**0.295**	mg/L	0.020	1311/6010B	5	1	JP	09/26/08	50	50

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-103
ate Sampled: 09/18/08 00:00
ercent Solids: 89

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-03
Sample Matrix: Soil

3050B/6000/7000 Total Metals

MA - S1GW1

nalyte	Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed	I/V	F/V
senic	4.4	mg/kg dry	3.7	6010B	20	1	SVD	09/22/08	1.51	100
dmium	ND	mg/kg dry	0.75	6010B	2	1	SVD	09/22/08	1.51	100
romium	29.0	mg/kg dry	1.5	6010B	30	1	SVD	09/22/08	1.51	100
ad	155	mg/kg dry	37.2	6010B	300	5	SVD	09/23/08	1.51	100
ercury	0.054	mg/kg dry	0.037	7471A	20	1	JP	09/23/08	0.6	40

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-103
ate Sampled: 09/18/08 00:00
ercent Solids: 89
itial Volume: 10.7
nal Volume: 10
xtraction Method: 5035

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-03
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

nalyte	Results	Units	MRL	MA - S1GW1 Limit	DF	Analyzed
1,1,2-Tetrachloroethane	ND	mg/kg dry	0.117	0.1	1	09/22/08
1,1-Trichloroethane	ND	mg/kg dry	0.0587	30	1	09/22/08
1,2,2-Tetrachloroethane	ND	mg/kg dry	0.0587	0.005	1	09/22/08
1,2-Trichloroethane	ND	mg/kg dry	0.0587	0.1	1	09/22/08
1-Dichloroethane	ND	mg/kg dry	0.0587	0.4	1	09/22/08
1-Dichloroethene	ND	mg/kg dry	0.0587	3	1	09/22/08
1-Dichloropropene	ND	mg/kg dry	0.0587		1	09/22/08
2,3-Trichlorobenzene	ND	mg/kg dry	0.0587		1	09/22/08
2,3-Trichloropropane	ND	mg/kg dry	0.0587		1	09/22/08
2,4-Trichlorobenzene	ND	mg/kg dry	0.0587	2	1	09/22/08
2,4-Trimethylbenzene	ND	mg/kg dry	0.0587	100	1	09/22/08
2-Dibromo-3-Chloropropane	ND	mg/kg dry	0.352		1	09/22/08
2-Dibromoethane	ND	mg/kg dry	0.0587	0.1	1	09/22/08
2-Dichlorobenzene	ND	mg/kg dry	0.0587	9	1	09/22/08
2-Dichloroethane	ND	mg/kg dry	0.0587	0.1	1	09/22/08
2-Dichloropropane	ND	mg/kg dry	0.0587	0.1	1	09/22/08
3,5-Trimethylbenzene	ND	mg/kg dry	0.0587	100	1	09/22/08
3-Dichlorobenzene	ND	mg/kg dry	0.0587	1	1	09/22/08
3-Dichloropropane	ND	mg/kg dry	0.0587		1	09/22/08
4-Dichlorobenzene	ND	mg/kg dry	0.0587	0.7	1	09/22/08
4-Dioxane - Screen	ND	mg/kg dry	5.87	0.2	1	09/22/08
2-Dichloropropane	ND	mg/kg dry	0.117		1	09/22/08
Butanone	ND	mg/kg dry	1.47	4	1	09/22/08
Chlorotoluene	ND	mg/kg dry	0.0587		1	09/22/08
Hexanone	ND	mg/kg dry	0.587		1	09/22/08
Chlorotoluene	ND	mg/kg dry	0.0587		1	09/22/08
Isopropyltoluene	**0.0634**	mg/kg dry	0.0587	100	1	09/22/08
Methyl-2-Pentanone	ND	mg/kg dry	0.587	0.4	1	09/22/08
etone	**1.56**	mg/kg dry	1.47	6	1	09/22/08
nzene	ND	mg/kg dry	0.0587	2	1	09/22/08
omobenzene	ND	mg/kg dry	0.0587		1	09/22/08
omochloromethane	ND	mg/kg dry	0.0587		1	09/22/08
omodichloromethane	ND	mg/kg dry	0.0587	0.1	1	09/22/08
omoform	ND	mg/kg dry	0.0587	0.1	1	09/22/08
omomethane	ND	mg/kg dry	0.117	0.5	1	09/22/08

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-103
ate Sampled: 09/18/08 00:00
:rcent Solids: 89
itial Volume: 10.7
nal Volume: 10
ctraction Method: 5035

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-03
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

rbon Disulfide	ND	mg/kg dry	0.0587		1	09/22/08
rbon Tetrachloride	ND	mg/kg dry	0.0587	10	1	09/22/08
lorobenzene	ND	mg/kg dry	0.0587	1	1	09/22/08
loroethane	ND	mg/kg dry	0.117		1	09/22/08
loroform	ND	mg/kg dry	0.0587	0.4	1	09/22/08
loromethane	ND	mg/kg dry	0.117		1	09/22/08
-1,2-Dichloroethene	ND	mg/kg dry	0.0587	0.3	1	09/22/08
-1,3-Dichloropropene	ND	mg/kg dry	0.0587	0.01	1	09/22/08
bromochloromethane	ND	mg/kg dry	0.0587	0.005	1	09/22/08
bromomethane	ND	mg/kg dry	0.0587		1	09/22/08
chlorodifluoromethane	ND	mg/kg dry	0.0587		1	09/22/08
ethyl Ether	ND	mg/kg dry	0.0587		1	09/22/08
-isopropyl ether	ND	mg/kg dry	0.0587		1	09/22/08
hyl tertiary-butyl ether	ND	mg/kg dry	0.0587		1	09/22/08
hylbenzene	ND	mg/kg dry	0.0587	40	1	09/22/08
exachlorobutadiene	ND	mg/kg dry	0.0587	6	1	09/22/08
opropylbenzene	ND	mg/kg dry	0.0587	100	1	09/22/08
ethyl tert-Butyl Ether	ND	mg/kg dry	0.0587	0.1	1	09/22/08
ethylene Chloride	ND	mg/kg dry	0.293	0.1	1	09/22/08
aphthalene	**0.138**	mg/kg dry	0.0587	4	1	09/22/08
Butylbenzene	ND	mg/kg dry	0.0587	100	1	09/22/08
Propylbenzene	ND	mg/kg dry	0.0587	100	1	09/22/08
c-Butylbenzene	ND	mg/kg dry	0.0587	100	1	09/22/08
yrene	ND	mg/kg dry	0.0587	3	1	09/22/08
t-Butylbenzene	ND	mg/kg dry	0.0587	100	1	09/22/08
rtiary-amyl methyl ether	ND	mg/kg dry	0.0587		1	09/22/08
trachloroethene	ND	mg/kg dry	0.0587	1	1	09/22/08
trahydrofuran	ND	mg/kg dry	0.587		1	09/22/08
oluene	**0.189**	mg/kg dry	0.0587	30	1	09/22/08
ans-1,2-Dichloroethene	ND	mg/kg dry	0.0587	1	1	09/22/08
ans-1,3-Dichloropropene	ND	mg/kg dry	0.0587	0.01	1	09/22/08
ichloroethene	ND	mg/kg dry	0.0587	0.3	1	09/22/08
ichlorofluoromethane	ND	mg/kg dry	0.0587		1	09/22/08
inyl Chloride	ND	mg/kg dry	0.0587	0.6	1	09/22/08
ylene O	ND	mg/kg dry	0.0587	400	1	09/22/08
ylene P,M	ND	mg/kg dry	0.117	400	1	09/22/08

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-103
ate Sampled: 09/18/08 00:00
ercent Solids: 89
itial Volume: 1
nal Volume: 1
xtraction Method: [CALC]

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-03
Sample Matrix: Soil
Analyst: RES

5035/8260B Volatile Organic Compounds / Methanol

/lenes (Total)	ND	mg/kg dry	0.176	400	1	09/22/08

	%Recovery	Qualifier	Limits
rrogate: 1,2-Dichloroethane-d4	89 %		70-130
rrogate: 4-Bromofluorobenzene	91 %		70-130
rrogate: Dibromofluoromethane	96 %		70-130
rrogate: Toluene-d8	92 %		70-130

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

.ient Name: Alliance Environmental Group
.ient Project ID: Beverly Sweepings
ıient Sample ID: S-103
ate Sampled: 09/18/08 00:00
ercent Solids: 89
itial Volume: 20.3
nal Volume: 10
ctraction Method: 3541

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-03
Sample Matrix: Soil
Analyst: SEP
Prepared: 09/22/08

8082 Polychlorinated Biphenyls (PCB)

nalyte	Results	Units	MRL	MA - S1GW1 Limit	DF	Analyzed
oclor 1016	ND	mg/kg dry	0.0553	2	1	09/23/08
oclor 1221	ND	mg/kg dry	0.0553	2	1	09/23/08
oclor 1232	ND	mg/kg dry	0.0553	2	1	09/23/08
oclor 1242	ND	mg/kg dry	0.0553	2	1	09/23/08
oclor 1248	ND	mg/kg dry	0.0553	2	1	09/23/08
oclor 1254	ND	mg/kg dry	0.0553	2	1	09/23/08
oclor 1260	ND	mg/kg dry	0.0553	2	1	09/23/08
oclor 1262	ND	mg/kg dry	0.0553	2	1	09/23/08
oclor 1268	ND	mg/kg dry	0.0553	2	1	09/23/08

	%Recovery	Qualifier	Limits
rogate: Decachlorobiphenyl	*70 %*		*30-150*
rogate: Decachlorobiphenyl [2C]	*96 %*		*30-150*
rogate: Tetrachloro-m-xylene	*82 %*		*30-150*
rogate: Tetrachloro-m-xylene [2C]	*83 %*		*30-150*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-103
ate Sampled: 09/18/08 00:00
ercent Solids: 89
itial Volume: 19.4
nal Volume: 1.
ctraction Method: 3546

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-03
Sample Matrix: Soil
Analyst: SEP
Prepared: 09/24/08

8100M Total Petroleum Hydrocarbons

nalyte	Results	Units	MRL	MA - S1GW1 Limit	DF	Analyzed
tal Petroleum Hydrocarbons	1030	mg/kg dry	434	1000	10	09/25/08

	%Recovery	Qualifier	Limits
rogate: O-Terphenyl	70 %		40-140

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-103
ate Sampled: 09/18/08 00:00
ercent Solids: 89
itial Volume: 15.5
nal Volume: 1
xtraction Method: 3546

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-03
Sample Matrix: Soil
Analyst: VSC
Prepared: 09/22/08

8270C Semi-Volatile Organic Compounds

nalyte	Results	Units	MRL	MA - S1GW1 Limit	DF	Analyzed
l-Biphenyl	ND	mg/kg dry	3.62	0.05	5	09/23/08
2,4-Trichlorobenzene	ND	mg/kg dry	3.62	2	5	09/23/08
2-Dichlorobenzene	ND	mg/kg dry	3.62	9	5	09/23/08
3-Dichlorobenzene	ND	mg/kg dry	3.62	1	5	09/23/08
4-Dichlorobenzene	ND	mg/kg dry	3.62	0.7	5	09/23/08
4,5-Trichlorophenol	ND	mg/kg dry	3.62	4	5	09/23/08
4,6-Trichlorophenol	ND	mg/kg dry	3.62	0.7	5	09/23/08
4-Dichlorophenol	ND	mg/kg dry	3.62	0.7	5	09/23/08
4-Dimethylphenol	ND	mg/kg dry	3.62	0.7	5	09/23/08
4-Dinitrophenol	ND	mg/kg dry	18.2	3	5	09/23/08
4-Dinitrotoluene	ND	mg/kg dry	3.62	0.7	5	09/23/08
5-Dinitrotoluene	ND	mg/kg dry	3.62		5	09/23/08
Chloronaphthalene	ND	mg/kg dry	3.62		5	09/23/08
Chlorophenol	ND	mg/kg dry	3.62	0.7	5	09/23/08
Methylnaphthalene	**4.14**	mg/kg dry	3.62	0.7	5	09/23/08
Methylphenol	ND	mg/kg dry	3.62		5	09/23/08
Nitrophenol	ND	mg/kg dry	3.62		5	09/23/08
3'-Dichlorobenzidine	ND	mg/kg dry	7.25	1	5	09/23/08
4-Methylphenol	ND	mg/kg dry	7.25		5	09/23/08
Bromophenyl-phenylether	ND	mg/kg dry	3.62		5	09/23/08
Chloroaniline	ND	mg/kg dry	7.25	1	5	09/23/08
Nitrophenol	ND	mg/kg dry	18.2		5	09/23/08
enaphthene	ND	mg/kg dry	3.62	4	5	09/23/08
enaphthylene	ND	mg/kg dry	3.62	1	5	09/23/08
etophenone	ND	mg/kg dry	7.25		5	09/23/08
iline	ND	mg/kg dry	18.2		5	09/23/08
thracene	ND	mg/kg dry	3.62	1000	5	09/23/08
zobenzene	ND	mg/kg dry	3.62		5	09/23/08
nzo(a)anthracene	ND	mg/kg dry	3.62	7	5	09/23/08
nzo(a)pyrene	**2.93**	mg/kg dry	1.82	2	5	09/23/08
nzo(b)fluoranthene	ND	mg/kg dry	3.62	7	5	09/23/08
nzo(g,h,i)perylene	ND	mg/kg dry	3.62	1000	5	09/23/08
nzo(k)fluoranthene	ND	mg/kg dry	3.62	70	5	09/23/08
s(2-Chloroethoxy)methane	ND	mg/kg dry	3.62		5	09/23/08
s(2-Chloroethyl)ether	ND	mg/kg dry	3.62	0.7	5	09/23/08

ESS Laboratory

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CERTIFICATE OF ANALYSIS

.ient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-103
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ercent Solids: 89
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ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-03
Sample Matrix: Soil
Analyst: VSC
Prepared: 09/22/08

8270C Semi-Volatile Organic Compounds

;(2-chloroisopropyl)Ether	ND	mg/kg dry	3.62	0.7	5	09/23/08
;(2-Ethylhexyl)phthalate	**15.4**	mg/kg dry	3.62	200	5	09/23/08
ıtylbenzylphthalate	ND	mg/kg dry	3.62		5	09/23/08
ırysene	**3.88**	mg/kg dry	1.82	70	5	09/23/08
benzo(a,h)Anthracene	ND	mg/kg dry	1.82	0.7	5	09/23/08
benzofuran	ND	mg/kg dry	3.62		5	09/23/08
ethylphthalate	ND	mg/kg dry	3.62	10	5	09/23/08
methylphthalate	ND	mg/kg dry	3.62	30	5	09/23/08
-n-butylphthalate	ND	mg/kg dry	3.62		5	09/23/08
-n-octylphthalate	ND	mg/kg dry	3.62		5	09/23/08
uoranthene	**8.33**	mg/kg dry	3.62	1000	5	09/23/08
ıorene	ND	mg/kg dry	3.62	1000	5	09/23/08
:xachlorobenzene	ND	mg/kg dry	3.62	0.7	5	09/23/08
:xachlorobutadiene	ND	mg/kg dry	3.62	6	5	09/23/08
:xachloroethane	ND	mg/kg dry	3.62	0.7	5	09/23/08
deno(1,2,3-cd)Pyrene	ND	mg/kg dry	3.62	7	5	09/23/08
›phorone	ND	mg/kg dry	3.62		5	09/23/08
ıphthalene	**20.7**	mg/kg dry	3.62	4	5	09/23/08
trobenzene	ND	mg/kg dry	3.62		5	09/23/08
-Nitrosodimethylamine	ND	mg/kg dry	3.62		5	09/23/08
ntachlorophenol	ND	mg/kg dry	18.2	3	5	09/23/08
ıenanthrene	**8.58**	mg/kg dry	3.62	10	5	09/23/08
ıenol	ND	mg/kg dry	3.62	1	5	09/23/08
'rene	**7.37**	mg/kg dry	3.62	1000	5	09/23/08

	%Recovery	Qualifier	Limits
rrogate: 1,2-Dichlorobenzene-d4	*58 %*		*30-130*
rrogate: 2,4,6-Tribromophenol	*70 %*		*30-130*
rrogate: 2-Chlorophenol-d4	*54 %*		*30-130*
rrogate: 2-Fluorobiphenyl	*70 %*		*30-130*
rrogate: 2-Fluorophenol	*48 %*		*30-130*
rrogate: Nitrobenzene-d5	*66 %*		*30-130*
rrogate: Phenol-d6	*60 %*		*30-130*
rrogate: p-Terphenyl-d14	*81 %*		*30-130*

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings
lient Sample ID: S-103
ate Sampled: 09/18/08 00:00
ercent Solids: 89

ESS Laboratory Work Order: 0809282
ESS Laboratory Sample ID: 0809282-03
Sample Matrix: Soil

Classical Chemistry

MA - S1GW1

nalyte		Results	Units	MRL	Method	Limit	DF	Analyst	Analyzed
onductivity	WL	3350	umhos/cm	5	9050A		1	EEM	09/19/08

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings

ESS Laboratory Work Order: 0809282

Quality Control Data

nalyte		Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
1311/6000/7000 TCLP Metals											
tch BI82602 - 3005A											
ınk											
ad		ND	0.020	mg/L							
ınk											
ad		ND	0.020	mg/L							
S											
ad		0.522	0.020	mg/L	0.5000		104	80-120			
S Dup											
ad		0.527	0.020	mg/L	0.5000		105	80-120	0.8	20	
plicate	**Source: 0809282-01**										
ad		0.283	0.020	mg/L		0.297			5	20	
trix Spike	**Source: 0809282-01**										
ad		0.805	0.020	mg/L	0.5000	0.297	102	75-125			
3050B/6000/7000 Total Metals											
tch BI81923 - 3050B											
ank											
senic		ND	3.3	mg/kg wet							
dmium		ND	0.67	mg/kg wet							
romium		ND	1.3	mg/kg wet							
ad		ND	6.7	mg/kg wet							
S											
senic		32.6	3.3	mg/kg wet	33.33		98	80-120			
dmium		16.0	0.67	mg/kg wet	16.67		96	80-120			
romium		34.2	1.3	mg/kg wet	33.33		103	80-120			
ad		34.0	6.7	mg/kg wet	33.33		102	80-120			
S Dup											
senic		32.1	3.3	mg/kg wet	33.33		96	80-120	1	20	
dmium		15.6	0.67	mg/kg wet	16.67		94	80-120	3	20	
romium		33.1	1.3	mg/kg wet	33.33		99	80-120	3	20	
ad		33.3	6.7	mg/kg wet	33.33		100	80-120	2	20	
plicate	**Source: 0809282-03**										
senic		4.88	3.7	mg/kg dry		4.42			10	35	
dmium		0.100	0.75	mg/kg dry		0.104			4	35	
romium		25.4	1.5	mg/kg dry		29.0			13	35	
ad		152	37.5	mg/kg dry		155			2	35	
trix Spike	**Source: 0809282-03**										
senic		37.9	3.6	mg/kg dry	36.48	4.42	92	75-125			
dmium		16.4	0.73	mg/kg dry	18.24	0.104	89	75-125			
romium		57.7	1.5	mg/kg dry	36.48	29.0	79	75-125			
ad		169	36.5	mg/kg dry	36.48	155	38	75-125			M-
ference											
senic		265	5.0	mg/kg wet	280.0		95	81-119			
dmium		173	1.00	mg/kg wet	182.0		95	82-118			

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings

ESS Laboratory Work Order: 0809282

Quality Control Data

nalyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
3050B/6000/7000 Total Metals										
tch BI81923 - 3050B										
romium	136	2.0	mg/kg wet	142.0		96	81-120			
ad	71.5	10.0	mg/kg wet	72.20		99	82-118			
tch BI81924 - 7471A										
ank										
rcury	ND	0.033	mg/kg wet							
S										
rcury	0.211	0.033	mg/kg wet	0.2000		106	80-120			
S Dup										
rcury	0.212	0.033	mg/kg wet	0.2000		106	80-120	0.4	20	
plicate Source: 0809282-03										
rcury	0.0613	0.036	mg/kg dry		0.0540			13	35	
trix Spike Source: 0809282-03										
rcury	0.305	0.036	mg/kg dry	0.2210	0.0540	114	75-125			
trix Spike Dup Source: 0809282-03										
rcury	0.317	0.037	mg/kg dry	0.2247	0.0540	117	75-125	3	35	
ference										
rcury	8.43	0.660	mg/kg wet	8.480		99	66-132			
5035/8260B Volatile Organic Compounds / Methanol										
tch BI82223 - 5035										
ank										
,1,2-Tetrachloroethane	ND	0.100	mg/kg wet							
,1-Trichloroethane	ND	0.0500	mg/kg wet							
,2,2-Tetrachloroethane	ND	0.0500	mg/kg wet							
,2-Trichloroethane	ND	0.0500	mg/kg wet							
-Dichloroethane	ND	0.0500	mg/kg wet							
-Dichloroethene	ND	0.0500	mg/kg wet							
-Dichloropropene	ND	0.0500	mg/kg wet							
,3-Trichlorobenzene	ND	0.0500	mg/kg wet							
,3-Trichloropropane	ND	0.0500	mg/kg wet							
,4-Trichlorobenzene	ND	0.0500	mg/kg wet							
,4-Trimethylbenzene	ND	0.0500	mg/kg wet							
-Dibromo-3-Chloropropane	ND	0.300	mg/kg wet							
-Dibromoethane	ND	0.0500	mg/kg wet							
-Dichlorobenzene	ND	0.0500	mg/kg wet							
-Dichloroethane	ND	0.0500	mg/kg wet							
-Dichloropropane	ND	0.0500	mg/kg wet							
,5-Trimethylbenzene	ND	0.0500	mg/kg wet							
-Dichlorobenzene	ND	0.0500	mg/kg wet							
-Dichloropropane	ND	0.0500	mg/kg wet							
-Dichlorobenzene	ND	0.0500	mg/kg wet							
-Dioxane - Screen	ND	5.00	mg/kg wet							
-Dichloropropane	ND	0.100	mg/kg wet							

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings

ESS Laboratory Work Order: 0809282

Quality Control Data

nalyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
tch BI82223 - 5035										
lutanone	ND	1.25	mg/kg wet							
Chlorotoluene	ND	0.0500	mg/kg wet							
lexanone	ND	0.500	mg/kg wet							
Chlorotoluene	ND	0.0500	mg/kg wet							
sopropyltoluene	ND	0.0500	mg/kg wet							
Methyl-2-Pentanone	ND	0.500	mg/kg wet							
etone	ND	1.25	mg/kg wet							
nzene	ND	0.0500	mg/kg wet							
omobenzene	ND	0.0500	mg/kg wet							
omochloromethane	ND	0.0500	mg/kg wet							
omodichloromethane	ND	0.0500	mg/kg wet							
omoform	ND	0.0500	mg/kg wet							
omomethane	ND	0.100	mg/kg wet							
rbon Disulfide	ND	0.0500	mg/kg wet							
rbon Tetrachloride	ND	0.0500	mg/kg wet							
lorobenzene	ND	0.0500	mg/kg wet							
loroethane	ND	0.100	mg/kg wet							
loroform	ND	0.0500	mg/kg wet							
loromethane	ND	0.100	mg/kg wet							
-1,2-Dichloroethene	ND	0.0500	mg/kg wet							
-1,3-Dichloropropene	ND	0.0500	mg/kg wet							
romochloromethane	ND	0.0500	mg/kg wet							
romomethane	ND	0.0500	mg/kg wet							
hlorodifluoromethane	ND	0.0500	mg/kg wet							
thyl Ether	ND	0.0500	mg/kg wet							
Isopropyl ether	ND	0.0500	mg/kg wet							
yl tertiary-butyl ether	ND	0.0500	mg/kg wet							
ylbenzene	ND	0.0500	mg/kg wet							
xachlorobutadiene	ND	0.0500	mg/kg wet							
propylbenzene	ND	0.0500	mg/kg wet							
thyl tert-Butyl Ether	ND	0.0500	mg/kg wet							
thylene Chloride	ND	0.250	mg/kg wet							
phthalene	ND	0.0500	mg/kg wet							
Butylbenzene	ND	0.0500	mg/kg wet							
Propylbenzene	ND	0.0500	mg/kg wet							
-Butylbenzene	ND	0.0500	mg/kg wet							
rene	ND	0.0500	mg/kg wet							
t-Butylbenzene	ND	0.0500	mg/kg wet							
rtiary-amyl methyl ether	ND	0.0500	mg/kg wet							
trachloroethene	ND	0.0500	mg/kg wet							
trahydrofuran	ND	0.500	mg/kg wet							
luene	ND	0.0500	mg/kg wet							
ns-1,2-Dichloroethene	ND	0.0500	mg/kg wet							
ns-1,3-Dichloropropene	ND	0.0500	mg/kg wet							
chloroethene	ND	0.0500	mg/kg wet							
chlorofluoromethane	ND	0.0500	mg/kg wet							

ESS Laboratory

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CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings

ESS Laboratory Work Order: 0809282

Quality Control Data

nalyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
tch BI82223 - 5035										
yl Chloride	ND	0.0500	mg/kg wet							
ene O	ND	0.0500	mg/kg wet							
ene P,M	ND	0.100	mg/kg wet							
rrogate: 1,2-Dichloroethane-d4	*2.25*		mg/kg wet	*2.500*		*90*	*70-130*			
rrogate: 4-Bromofluorobenzene	*2.23*		mg/kg wet	*2.500*		*89*	*70-130*			
rrogate: Dibromofluoromethane	*2.36*		mg/kg wet	*2.500*		*94*	*70-130*			
rrogate: Toluene-d8	*2.25*		mg/kg wet	*2.500*		*90*	*70-130*			
S										
.,1,2-Tetrachloroethane	2.19	0.100	mg/kg wet	2.500		87	70-130			
.,1-Trichloroethane	2.20	0.0500	mg/kg wet	2.500		88	70-130			
.,2,2-Tetrachloroethane	2.12	0.0500	mg/kg wet	2.500		85	70-130			
.,2-Trichloroethane	2.23	0.0500	mg/kg wet	2.500		89	70-130			
.-Dichloroethane	2.13	0.0500	mg/kg wet	2.500		85	70-130			
.-Dichloroethene	2.08	0.0500	mg/kg wet	2.500		83	70-130			
.-Dichloropropene	2.13	0.0500	mg/kg wet	2.500		85	70-130			
:,3-Trichlorobenzene	1.93	0.0500	mg/kg wet	2.500		77	70-130			
:,3-Trichloropropane	2.07	0.0500	mg/kg wet	2.500		83	70-130			
:,4-Trichlorobenzene	2.19	0.0500	mg/kg wet	2.500		88	70-130			
:,4-Trimethylbenzene	2.28	0.0500	mg/kg wet	2.500		91	70-130			
:-Dibromo-3-Chloropropane	2.18	0.300	mg/kg wet	2.500		87	70-130			
:-Dibromoethane	2.17	0.0500	mg/kg wet	2.500		87	70-130			
:-Dichlorobenzene	2.18	0.0500	mg/kg wet	2.500		87	70-130			
:-Dichloroethane	2.24	0.0500	mg/kg wet	2.500		90	70-130			
:-Dichloropropane	2.23	0.0500	mg/kg wet	2.500		89	70-130			
;,5-Trimethylbenzene	2.16	0.0500	mg/kg wet	2.500		86	70-130			
-Dichlorobenzene	2.18	0.0500	mg/kg wet	2.500		87	70-130			
-Dichloropropane	2.20	0.0500	mg/kg wet	2.500		88	70-130			
-Dichlorobenzene	2.11	0.0500	mg/kg wet	2.500		84	70-130			
-Dioxane - Screen	62.1	5.00	mg/kg wet	50.00		124	44-241			
:-Dichloropropane	2.52	0.100	mg/kg wet	2.500		101	70-130			
Butanone	12.7	1.25	mg/kg wet	12.50		102	70-130			
Chlorotoluene	2.13	0.0500	mg/kg wet	2.500		85	70-130			
Hexanone	12.0	0.500	mg/kg wet	12.50		96	70-130			
Chlorotoluene	2.08	0.0500	mg/kg wet	2.500		83	70-130			
Isopropyltoluene	2.06	0.0500	mg/kg wet	2.500		83	70-130			
Methyl-2-Pentanone	11.6	0.500	mg/kg wet	12.50		93	70-130			
etone	13.2	1.25	mg/kg wet	12.50		105	70-130			
nzene	2.11	0.0500	mg/kg wet	2.500		84	70-130			
omobenzene	2.20	0.0500	mg/kg wet	2.500		88	70-130			
omochloromethane	2.18	0.0500	mg/kg wet	2.500		87	70-130			
omodichloromethane	2.33	0.0500	mg/kg wet	2.500		93	70-130			
omoform	2.26	0.0500	mg/kg wet	2.500		90	70-130			
omomethane	2.45	0.100	mg/kg wet	2.500		98	70-130			
rbon Disulfide	2.54	0.0500	mg/kg wet	2.500		102	70-130			
rbon Tetrachloride	2.38	0.0500	mg/kg wet	2.500		95	70-130			
lorobenzene	2.15	0.0500	mg/kg wet	2.500		86	70-130			

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

!ient Name: Alliance Environmental Group
.ient Project ID: Beverly Sweepings

ESS Laboratory Work Order: 0809282

Quality Control Data

ıalyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
tch BI82223 - 5035										
oroethane	2.22	0.100	mg/kg wet	2.500		89	70-130			
oroform	2.21	0.0500	mg/kg wet	2.500		89	70-130			
oromethane	2.04	0.100	mg/kg wet	2.500		82	70-130			
-1,2-Dichloroethene	2.24	0.0500	mg/kg wet	2.500		90	70-130			
-1,3-Dichloropropene	2.19	0.0500	mg/kg wet	2.500		88	70-130			
ıromochloromethane	2.26	0.0500	mg/kg wet	2.500		90	70-130			
ıromomethane	2.26	0.0500	mg/kg wet	2.500		90	70-130			
hlorodifluoromethane	1.75	0.0500	mg/kg wet	2.500		70	70-130			
thyl Ether	2.33	0.0500	mg/kg wet	2.500		93	70-130			
Isopropyl ether	2.30	0.0500	mg/kg wet	2.500		92	70-130			
ıyl tertiary-butyl ether	2.18	0.0500	mg/kg wet	2.500		87	70-130			
ıylbenzene	2.19	0.0500	mg/kg wet	2.500		88	70-130			
xachlorobutadiene	2.35	0.0500	mg/kg wet	2.500		94	70-130			
propylbenzene	1.92	0.0500	mg/kg wet	2.500		77	70-130			
thyl tert-Butyl Ether	2.28	0.0500	mg/kg wet	2.500		91	70-130			
thylene Chloride	2.23	0.250	mg/kg wet	2.500		89	70-130			
phthalene	2.16	0.0500	mg/kg wet	2.500		86	70-130			
lutylbenzene	2.20	0.0500	mg/kg wet	2.500		88	70-130			
ropylbenzene	2.20	0.0500	mg/kg wet	2.500		88	70-130			
:-Butylbenzene	2.12	0.0500	mg/kg wet	2.500		85	70-130			
rene	2.18	0.0500	mg/kg wet	2.500		87	70-130			
t-Butylbenzene	2.20	0.0500	mg/kg wet	2.500		88	70-130			
tiary-amyl methyl ether	2.24	0.0500	mg/kg wet	2.500		89	70-130			
rachloroethene	2.07	0.0500	mg/kg wet	2.500		83	70-130			
rahydrofuran	2.54	0.500	mg/kg wet	2.500		102	70-130			
uene	2.20	0.0500	mg/kg wet	2.500		88	70-130			
ns-1,2-Dichloroethene	2.35	0.0500	mg/kg wet	2.500		94	70-130			
ns-1,3-Dichloropropene	2.04	0.0500	mg/kg wet	2.500		81	70-130			
chloroethene	2.18	0.0500	mg/kg wet	2.500		87	70-130			
chlorofluoromethane	1.89	0.0500	mg/kg wet	2.500		75	70-130			
yl Chloride	2.36	0.0500	mg/kg wet	2.500		95	70-130			
'ene O	2.06	0.0500	mg/kg wet	2.500		82	70-130			
ene P,M	4.13	0.100	mg/kg wet	5.000		83	70-130			
rrogate: 1,2-Dichloroethane-d4	*2.30*		mg/kg wet	*2.500*		*92*	*70-130*			
rrogate: 4-Bromofluorobenzene	*2.26*		mg/kg wet	*2.500*		*91*	*70-130*			
rrogate: Dibromofluoromethane	*2.36*		mg/kg wet	*2.500*		*94*	*70-130*			
rrogate: Toluene-d8	*2.28*		mg/kg wet	*2.500*		*91*	*70-130*			
S Dup										
.,1,2-Tetrachloroethane	2.32	0.100	mg/kg wet	2.500		93	70-130	6	20	
.,1-Trichloroethane	2.38	0.0500	mg/kg wet	2.500		95	70-130	8	20	
.,2,2-Tetrachloroethane	2.24	0.0500	mg/kg wet	2.500		89	70-130	6	20	
.,2-Trichloroethane	2.37	0.0500	mg/kg wet	2.500		95	70-130	6	20	
.-Dichloroethane	2.27	0.0500	mg/kg wet	2.500		91	70-130	6	20	
.-Dichloroethene	2.33	0.0500	mg/kg wet	2.500		93	70-130	11	20	
.-Dichloropropene	2.33	0.0500	mg/kg wet	2.500		93	70-130	9	20	
!,3-Trichlorobenzene	2.06	0.0500	mg/kg wet	2.500		83	70-130	7	20	

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

ıient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings

ESS Laboratory Work Order: 0809282

Quality Control Data

ıalyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
tch BI82223 - 5035										
,3-Trichloropropane	2.20	0.0500	mg/kg wet	2.500		88	70-130	6	20	
;,4-Trichlorobenzene	2.31	0.0500	mg/kg wet	2.500		92	70-130	5	20	
,4-Trimethylbenzene	2.41	0.0500	mg/kg wet	2.500		96	70-130	5	20	
.-Dibromo-3-Chloropropane	2.37	0.300	mg/kg wet	2.500		95	70-130	9	20	
.-Dibromoethane	2.29	0.0500	mg/kg wet	2.500		92	70-130	6	20	
.-Dichlorobenzene	2.29	0.0500	mg/kg wet	2.500		91	70-130	5	20	
.-Dichloroethane	2.36	0.0500	mg/kg wet	2.500		95	70-130	5	20	
-Dichloropropane	2.36	0.0500	mg/kg wet	2.500		94	70-130	6	20	
;,5-Trimethylbenzene	2.28	0.0500	mg/kg wet	2.500		91	70-130	5	20	
-Dichlorobenzene	2.28	0.0500	mg/kg wet	2.500		91	70-130	4	20	
-Dichloropropane	2.34	0.0500	mg/kg wet	2.500		93	70-130	6	20	
-Dichlorobenzene	2.22	0.0500	mg/kg wet	2.500		89	70-130	5	20	
-Dioxane - Screen	73.1	5.00	mg/kg wet	50.00		146	44-241	16	200	
.-Dichloropropane	2.65	0.100	mg/kg wet	2.500		106	70-130	5	20	
lutanone	13.9	1.25	mg/kg wet	12.50		112	70-130	9	20	
:hlorotoluene	2.26	0.0500	mg/kg wet	2.500		91	70-130	6	20	
lexanone	12.7	0.500	mg/kg wet	12.50		102	70-130	6	20	
:hlorotoluene	2.21	0.0500	mg/kg wet	2.500		88	70-130	6	20	
sopropyltoluene	2.18	0.0500	mg/kg wet	2.500		87	70-130	6	20	
4ethyl-2-Pentanone	12.4	0.500	mg/kg wet	12.50		99	70-130	7	20	
etone	14.5	1.25	mg/kg wet	12.50		116	70-130	9	20	
ızene	2.25	0.0500	mg/kg wet	2.500		90	70-130	7	20	
ɔmobenzene	2.32	0.0500	mg/kg wet	2.500		93	70-130	5	20	
ɔmochloromethane	2.28	0.0500	mg/kg wet	2.500		91	70-130	5	20	
ɔmodichloromethane	2.46	0.0500	mg/kg wet	2.500		99	70-130	5	20	
ɔmoform	2.40	0.0500	mg/kg wet	2.500		96	70-130	6	20	
ɔmomethane	2.59	0.100	mg/kg wet	2.500		104	70-130	6	20	
bon Disulfide	2.76	0.0500	mg/kg wet	2.500		110	70-130	8	20	
bon Tetrachloride	2.52	0.0500	mg/kg wet	2.500		101	70-130	6	20	
lorobenzene	2.28	0.0500	mg/kg wet	2.500		91	70-130	6	20	
loroethane	2.44	0.100	mg/kg wet	2.500		97	70-130	9	20	
loroform	2.36	0.0500	mg/kg wet	2.500		94	70-130	6	20	
oromethane	2.24	0.100	mg/kg wet	2.500		89	70-130	9	20	
-1,2-Dichloroethene	2.38	0.0500	mg/kg wet	2.500		95	70-130	6	20	
-1,3-Dichloropropene	2.33	0.0500	mg/kg wet	2.500		93	70-130	6	20	
romochloromethane	2.39	0.0500	mg/kg wet	2.500		96	70-130	6	20	
romomethane	2.40	0.0500	mg/kg wet	2.500		96	70-130	6	20	
hlorodifluoromethane	1.97	0.0500	mg/kg wet	2.500		79	70-130	11	20	
thyl Ether	2.44	0.0500	mg/kg wet	2.500		98	70-130	5	20	
Isopropyl ether	2.44	0.0500	mg/kg wet	2.500		97	70-130	6	20	
yl tertiary-butyl ether	2.32	0.0500	mg/kg wet	2.500		93	70-130	6	20	
ylbenzene	2.33	0.0500	mg/kg wet	2.500		93	70-130	6	20	
xachlorobutadiene	2.57	0.0500	mg/kg wet	2.500		103	70-130	9	20	
propylbenzene	2.02	0.0500	mg/kg wet	2.500		81	70-130	5	20	
thyl tert-Butyl Ether	2.44	0.0500	mg/kg wet	2.500		98	70-130	7	20	
thylene Chloride	2.39	0.250	mg/kg wet	2.500		96	70-130	7	20	

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

.ient Name: Alliance Environmental Group
.ient Project ID: Beverly Sweepings

ESS Laboratory Work Order: 0809282

Quality Control Data

ıalyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
5035/8260B Volatile Organic Compounds / Methanol										
tch BI82223 - 5035										
ɔhthalene	2.28	0.0500	mg/kg wet	2.500		91	70-130	6	20	
ıutylbenzene	2.32	0.0500	mg/kg wet	2.500		93	70-130	5	20	
'ropylbenzene	2.33	0.0500	mg/kg wet	2.500		93	70-130	6	20	
:-Butylbenzene	2.27	0.0500	mg/kg wet	2.500		91	70-130	7	20	
rene	2.32	0.0500	mg/kg wet	2.500		93	70-130	6	20	
t-Butylbenzene	2.32	0.0500	mg/kg wet	2.500		93	70-130	5	20	
'tiary-amyl methyl ether	2.38	0.0500	mg/kg wet	2.500		95	70-130	6	20	
rachloroethene	2.25	0.0500	mg/kg wet	2.500		90	70-130	8	20	
rahydrofuran	2.70	0.500	mg/kg wet	2.500		108	70-130	6	20	
uene	2.35	0.0500	mg/kg wet	2.500		94	70-130	7	20	
ıs-1,2-Dichloroethene	2.52	0.0500	mg/kg wet	2.500		101	70-130	7	20	
ns-1,3-Dichloropropene	2.16	0.0500	mg/kg wet	2.500		86	70-130	6	20	
chloroethene	2.33	0.0500	mg/kg wet	2.500		93	70-130	6	20	
chlorofluoromethane	2.12	0.0500	mg/kg wet	2.500		85	70-130	12	20	
yl Chloride	2.57	0.0500	mg/kg wet	2.500		103	70-130	8	20	
ene O	2.19	0.0500	mg/kg wet	2.500		88	70-130	6	20	
ene P,M	4.38	0.100	mg/kg wet	5.000		88	70-130	6	20	
rrogate: 1,2-Dichloroethane-d4	*2.30*		mg/kg wet	*2.500*		*92*	*70-130*			
rrogate: 4-Bromofluorobenzene	*2.29*		mg/kg wet	*2.500*		*91*	*70-130*			
rrogate: Dibromofluoromethane	*2.37*		mg/kg wet	*2.500*		*95*	*70-130*			
rrogate: Toluene-d8	*2.32*		mg/kg wet	*2.500*		*93*	*70-130*			
8082 Polychlorinated Biphenyls (PCB)										
tch BI82401 - 3541										
ınk										
ɔclor 1016	ND	0.0500	mg/kg wet							
ɔclor 1016 (1)	ND	0.0500	mg/kg wet							
ɔclor 1016 (1) [2C]	ND	0.0500	mg/kg wet							
ɔclor 1016 (2)	ND	0.0500	mg/kg wet							
ɔclor 1016 (2) [2C]	ND	0.0500	mg/kg wet							
ɔclor 1016 (3)	ND	0.0500	mg/kg wet							
ɔclor 1016 (3) [2C]	ND	0.0500	mg/kg wet							
ɔclor 1016 (4)	ND	0.0500	mg/kg wet							
ɔclor 1016 (4) [2C]	ND	0.0500	mg/kg wet							
ɔclor 1016 (5)	ND	0.0500	mg/kg wet							
ɔclor 1016 (5) [2C]	ND	0.0500	mg/kg wet							
ɔclor 1221	ND	0.0500	mg/kg wet							
ɔclor 1221 (1)	ND	0.0500	mg/kg wet							
ɔclor 1221 (1) [2C]	ND	0.0500	mg/kg wet							
ɔclor 1221 (2)	ND	0.0500	mg/kg wet							
ɔclor 1221 (2) [2C]	ND	0.0500	mg/kg wet							
ɔclor 1221 (3)	ND	0.0500	mg/kg wet							
ɔclor 1221 (3) [2C]	ND	0.0500	mg/kg wet							
ɔclor 1221 (4)	ND	0.0500	mg/kg wet							
ɔclor 1221 (4) [2C]	ND	0.0500	mg/kg wet							

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings

ESS Laboratory Work Order: 0809282

Quality Control Data

nalyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
tch BI82401 - 3541										
xclor 1221 (5)	ND	0.0500	mg/kg wet							
xclor 1221 (5) [2C]	ND	0.0500	mg/kg wet							
xclor 1232	ND	0.0500	mg/kg wet							
xclor 1232 (1)	ND	0.0500	mg/kg wet							
xclor 1232 (1) [2C]	ND	0.0500	mg/kg wet							
xclor 1232 (2)	ND	0.0500	mg/kg wet							
xclor 1232 (2) [2C]	ND	0.0500	mg/kg wet							
xclor 1232 (3)	ND	0.0500	mg/kg wet							
xclor 1232 (3) [2C]	ND	0.0500	mg/kg wet							
xclor 1232 (4)	ND	0.0500	mg/kg wet							
xclor 1232 (4) [2C]	ND	0.0500	mg/kg wet							
xclor 1232 (5)	ND	0.0500	mg/kg wet							
xclor 1232 (5) [2C]	ND	0.0500	mg/kg wet							
xclor 1242	ND	0.0500	mg/kg wet							
xclor 1242 (1)	ND	0.0500	mg/kg wet							
xclor 1242 (1) [2C]	ND	0.0500	mg/kg wet							
xclor 1242 (2)	ND	0.0500	mg/kg wet							
xclor 1242 (2) [2C]	ND	0.0500	mg/kg wet							
xclor 1242 (3)	ND	0.0500	mg/kg wet							
xclor 1242 (3) [2C]	ND	0.0500	mg/kg wet							
xclor 1242 (4)	ND	0.0500	mg/kg wet							
xclor 1242 (4) [2C]	ND	0.0500	mg/kg wet							
xclor 1242 (5)	ND	0.0500	mg/kg wet							
xclor 1242 (5) [2C]	ND	0.0500	mg/kg wet							
xclor 1248	ND	0.0500	mg/kg wet							
xclor 1248 (1)	ND	0.0500	mg/kg wet							
xclor 1248 (1) [2C]	ND	0.0500	mg/kg wet							
xclor 1248 (2)	ND	0.0500	mg/kg wet							
xclor 1248 (2) [2C]	ND	0.0500	mg/kg wet							
xclor 1248 (3)	ND	0.0500	mg/kg wet							
xclor 1248 (3) [2C]	ND	0.0500	mg/kg wet							
xclor 1248 (4)	ND	0.0500	mg/kg wet							
xclor 1248 (4) [2C]	ND	0.0500	mg/kg wet							
xclor 1248 (5)	ND	0.0500	mg/kg wet							
xclor 1248 (5) [2C]	ND	0.0500	mg/kg wet							
xclor 1254	ND	0.0500	mg/kg wet							
xclor 1254 (1)	ND	0.0500	mg/kg wet							
xclor 1254 (1) [2C]	ND	0.0500	mg/kg wet							
xclor 1254 (2)	ND	0.0500	mg/kg wet							
xclor 1254 (2) [2C]	ND	0.0500	mg/kg wet							
xclor 1254 (3)	ND	0.0500	mg/kg wet							
xclor 1254 (3) [2C]	ND	0.0500	mg/kg wet							
xclor 1254 (4)	ND	0.0500	mg/kg wet							
xclor 1254 (4) [2C]	ND	0.0500	mg/kg wet							
xclor 1254 (5)	ND	0.0500	mg/kg wet							
xclor 1254 (5) [2C]	ND	0.0500	mg/kg wet							

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CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
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Quality Control Data

nalyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
tch BI82401 - 3541										
xlor 1260	ND	0.0500	mg/kg wet							
xlor 1260 (1)	ND	0.0500	mg/kg wet							
xlor 1260 (1) [2C]	ND	0.0500	mg/kg wet							
xlor 1260 (2)	ND	0.0500	mg/kg wet							
xlor 1260 (2) [2C]	ND	0.0500	mg/kg wet							
xlor 1260 (3)	ND	0.0500	mg/kg wet							
xlor 1260 (3) [2C]	ND	0.0500	mg/kg wet							
xlor 1260 (4)	ND	0.0500	mg/kg wet							
xlor 1260 (4) [2C]	ND	0.0500	mg/kg wet							
xlor 1260 (5)	ND	0.0500	mg/kg wet							
xlor 1260 (5) [2C]	ND	0.0500	mg/kg wet							
xlor 1262	ND	0.0500	mg/kg wet							
xlor 1262 (1)	ND	0.0500	mg/kg wet							
xlor 1262 (1) [2C]	ND	0.0500	mg/kg wet							
xlor 1262 (2)	ND	0.0500	mg/kg wet							
xlor 1262 (2) [2C]	ND	0.0500	mg/kg wet							
xlor 1262 (3)	ND	0.0500	mg/kg wet							
xlor 1262 (3) [2C]	ND	0.0500	mg/kg wet							
xlor 1262 (4)	ND	0.0500	mg/kg wet							
xlor 1262 (4) [2C]	ND	0.0500	mg/kg wet							
xlor 1262 (5)	ND	0.0500	mg/kg wet							
xlor 1262 (5) [2C]	ND	0.0500	mg/kg wet							
xlor 1268	ND	0.0500	mg/kg wet							
xlor 1268 (1)	ND	0.0500	mg/kg wet							
xlor 1268 (1) [2C]	ND	0.0500	mg/kg wet							
xlor 1268 (2)	ND	0.0500	mg/kg wet							
xlor 1268 (2) [2C]	ND	0.0500	mg/kg wet							
xlor 1268 (3)	ND	0.0500	mg/kg wet							
xlor 1268 (3) [2C]	ND	0.0500	mg/kg wet							
xlor 1268 (4)	ND	0.0500	mg/kg wet							
xlor 1268 (4) [2C]	ND	0.0500	mg/kg wet							
xlor 1268 (5)	ND	0.0500	mg/kg wet							
xlor 1268 (5) [2C]	ND	0.0500	mg/kg wet							
rrogate: Decachlorobiphenyl	*0.0255*		mg/kg wet	*0.02500*		*102*	*30-150*			
rrogate: Decachlorobiphenyl [2C]	*0.0292*		mg/kg wet	*0.02500*		*117*	*30-150*			
rrogate: Tetrachloro-m-xylene	*0.0244*		mg/kg wet	*0.02500*		*98*	*30-150*			
rrogate: Tetrachloro-m-xylene [2C]	*0.0259*		mg/kg wet	*0.02500*		*103*	*30-150*			
S										
xlor 1016	0.521	0.0500	mg/kg wet	0.5000		104	40-140			
xlor 1260	0.497	0.0500	mg/kg wet	0.5000		99	40-140			
rrogate: Decachlorobiphenyl	*0.0235*		mg/kg wet	*0.02500*		*94*	*30-150*			
rrogate: Decachlorobiphenyl [2C]	*0.0270*		mg/kg wet	*0.02500*		*108*	*30-150*			
rrogate: Tetrachloro-m-xylene	*0.0221*		mg/kg wet	*0.02500*		*88*	*30-150*			
rrogate: Tetrachloro-m-xylene [2C]	*0.0223*		mg/kg wet	*0.02500*		*89*	*30-150*			

ESS Laboratory

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CERTIFICATE OF ANALYSIS

:ient Name: Alliance Environmental Group
.ient Project ID: Beverly Sweepings

ESS Laboratory Work Order: 0809282

Quality Control Data

ıalyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8082 Polychlorinated Biphenyls (PCB)										
tch BI82401 - 3541										
S Dup										
ɔclor 1016	0.546	0.0500	mg/kg wet	0.5000		109	40-140	5	50	
ɔclor 1260	0.512	0.0500	mg/kg wet	0.5000		102	40-140	3	50	
rrogate: Decachlorobiphenyl	*0.0243*		mg/kg wet	*0.02500*		*97*	*30-150*			
rrogate: Decachlorobiphenyl [2C]	*0.0275*		mg/kg wet	*0.02500*		*110*	*30-150*			
rrogate: Tetrachloro-m-xylene	*0.0237*		mg/kg wet	*0.02500*		*95*	*30-150*			
rrogate: Tetrachloro-m-xylene [2C]	*0.0241*		mg/kg wet	*0.02500*		*96*	*30-150*			
ıtrix Spike Source: 0809282-03										
ɔclor 1016	0.673	0.0559	mg/kg dry	0.5590	ND	120	40-140			
ɔclor 1260	0.458	0.0559	mg/kg dry	0.5590	ND	82	40-140			
rrogate: Decachlorobiphenyl	*0.0217*		mg/kg dry	*0.02795*		*77*	*30-150*			
rrogate: Decachlorobiphenyl [2C]	*0.0288*		mg/kg dry	*0.02795*		*103*	*30-150*			
rrogate: Tetrachloro-m-xylene	*0.0273*		mg/kg dry	*0.02795*		*98*	*30-150*			
rrogate: Tetrachloro-m-xylene [2C]	*0.0266*		mg/kg dry	*0.02795*		*95*	*30-150*			
ıtrix Spike Dup Source: 0809282-03										
ɔclor 1016	0.658	0.0545	mg/kg dry	0.5454	ND	121	40-140	2	50	
ɔclor 1260	0.446	0.0545	mg/kg dry	0.5454	ND	82	40-140	3	50	
rrogate: Decachlorobiphenyl	*0.0197*		mg/kg dry	*0.02727*		*72*	*30-150*			
rrogate: Decachlorobiphenyl [2C]	*0.0304*		mg/kg dry	*0.02727*		*111*	*30-150*			
rrogate: Tetrachloro-m-xylene	*0.0276*		mg/kg dry	*0.02727*		*101*	*30-150*			
rrogate: Tetrachloro-m-xylene [2C]	*0.0259*		mg/kg dry	*0.02727*		*95*	*30-150*			
8100M Total Petroleum Hydrocarbons										
tch BI82411 - 3546										
ınk										
cane (C10)	ND	0.25	mg/kg wet							
cosane (C22)	ND	0.25	mg/kg wet							
decane (C12)	ND	0.25	mg/kg wet							
osane (C20)	ND	0.25	mg/kg wet							
xacosane (C26)	ND	0.25	mg/kg wet							
xadecane (C16)	ND	0.25	mg/kg wet							
nadecane (C19)	ND	0.25	mg/kg wet							
nane (C9)	ND	0.25	mg/kg wet							
tacosane (C28)	ND	0.25	mg/kg wet							
tadecane (C18)	ND	0.25	mg/kg wet							
tracosane (C24)	ND	0.25	mg/kg wet							
tradecane (C14)	ND	0.25	mg/kg wet							
tal Petroleum Hydrocarbons	ND	37.5	mg/kg wet							
acontane (C30)	ND	0.25	mg/kg wet							
rrogate: O-Terphenyl	*4.52*		mg/kg wet	*5.000*		*90*	*40-140*			
S										
cane (C10)	1.83	0.25	mg/kg wet	2.500		73	40-140			

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

ient Name: Alliance Environmental Group
ient Project ID: Beverly Sweepings

ESS Laboratory Work Order: 0809282

Quality Control Data

nalyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8100M Total Petroleum Hydrocarbons										
tch BI82411 - 3546										
cosane (C22)	2.22	0.25	mg/kg wet	2.500		89	40-140			
decane (C12)	2.04	0.25	mg/kg wet	2.500		82	40-140			
osane (C20)	2.23	0.25	mg/kg wet	2.500		89	40-140			
xacosane (C26)	2.18	0.25	mg/kg wet	2.500		87	40-140			
xadecane (C16)	2.14	0.25	mg/kg wet	2.500		85	40-140			
xatriacontane (C36)	1.80	0.25	mg/kg wet	2.500		72	40-140			
nadecane (C19)	2.22	0.25	mg/kg wet	2.500		89	40-140			
nane (C9)	1.59	0.25	mg/kg wet	2.500		64	30-140			
tacosane (C28)	2.21	0.25	mg/kg wet	2.500		88	40-140			
tadecane (C18)	2.18	0.25	mg/kg wet	2.500		87	40-140			
racosane (C24)	2.24	0.25	mg/kg wet	2.500		90	40-140			
radecane (C14)	2.12	0.25	mg/kg wet	2.500		85	40-140			
acontane (C30)	2.22	0.25	mg/kg wet	2.500		89	40-140			
rrogate: O-Terphenyl	*4.26*		mg/kg wet	*5.000*		*85*	*40-140*			
S Dup										
cane (C10)	1.97	0.25	mg/kg wet	2.500		79	40-140	7	50	
cosane (C22)	2.40	0.25	mg/kg wet	2.500		96	40-140	8	50	
decane (C12)	2.17	0.25	mg/kg wet	2.500		87	40-140	6	50	
osane (C20)	2.40	0.25	mg/kg wet	2.500		96	40-140	7	50	
xacosane (C26)	2.35	0.25	mg/kg wet	2.500		94	40-140	8	50	
xadecane (C16)	2.27	0.25	mg/kg wet	2.500		91	40-140	6	50	
nadecane (C19)	2.37	0.25	mg/kg wet	2.500		95	40-140	7	50	
nane (C9)	1.79	0.25	mg/kg wet	2.500		72	30-140	12	50	
tacosane (C28)	2.39	0.25	mg/kg wet	2.500		95	40-140	8	50	
tadecane (C18)	2.31	0.25	mg/kg wet	2.500		92	40-140	6	50	
tracosane (C24)	2.43	0.25	mg/kg wet	2.500		97	40-140	8	50	
tradecane (C14)	2.25	0.25	mg/kg wet	2.500		90	40-140	6	50	
acontane (C30)	2.40	0.25	mg/kg wet	2.500		96	40-140	8	50	
rrogate: O-Terphenyl	*4.58*		mg/kg wet	*5.000*		*92*	*40-140*			
8270C Semi-Volatile Organic Compounds										
tch BI82212 - 3546										
ank										
.-Biphenyl	ND	0.333	mg/kg wet							
!,4-Trichlorobenzene	ND	0.333	mg/kg wet							
!-Dichlorobenzene	ND	0.333	mg/kg wet							
l-Dichlorobenzene	ND	0.333	mg/kg wet							
l-Dichlorobenzene	ND	0.333	mg/kg wet							
l,5-Trichlorophenol	ND	0.333	mg/kg wet							
l,6-Trichlorophenol	ND	0.333	mg/kg wet							
l-Dichlorophenol	ND	0.333	mg/kg wet							
l-Dimethylphenol	ND	0.333	mg/kg wet							
l-Dinitrophenol	ND	1.67	mg/kg wet							
l-Dinitrotoluene	ND	0.333	mg/kg wet							

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

.ient Name: Alliance Environmental Group
:ient Project ID: Beverly Sweepings

ESS Laboratory Work Order: 0809282

Quality Control Data

ıalyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
tch BI82212 - 3546										
-Dinitrotoluene	ND	0.333	mg/kg wet							
:hloronaphthalene	ND	0.333	mg/kg wet							
:hlorophenol	ND	0.333	mg/kg wet							
1ethylnaphthalene	ND	0.333	mg/kg wet							
1ethylphenol	ND	0.333	mg/kg wet							
ilitrophenol	ND	0.333	mg/kg wet							
:'-Dichlorobenzidine	ND	0.667	mg/kg wet							
4-Methylphenol	ND	0.667	mg/kg wet							
lromophenyl-phenylether	ND	0.333	mg/kg wet							
:hloroaniline	ND	0.667	mg/kg wet							
iitrophenol	ND	1.67	mg/kg wet							
ɜnaphthene	ND	0.333	mg/kg wet							
ɜnaphthylene	ND	0.333	mg/kg wet							
ɜtophenone	ND	0.667	mg/kg wet							
line	ND	1.67	mg/kg wet							
thracene	ND	0.333	mg/kg wet							
ɔbenzene	ND	0.333	mg/kg wet							
ızo(a)anthracene	ND	0.333	mg/kg wet							
ızo(a)pyrene	ND	0.167	mg/kg wet							
ızo(b)fluoranthene	ND	0.333	mg/kg wet							
nzo(g,h,l)perylene	ND	0.333	mg/kg wet							
nzo(k)fluoranthene	ND	0.333	mg/kg wet							
(2-Chloroethoxy)methane	ND	0.333	mg/kg wet							
(2-Chloroethyl)ether	ND	0.333	mg/kg wet							
(2-chloroisopropyl)Ether	ND	0.333	mg/kg wet							
(2-Ethylhexyl)phthalate	ND	0.333	mg/kg wet							
tylbenzylphthalate	ND	0.333	mg/kg wet							
rysene	ND	0.167	mg/kg wet							
ɔenzo(a,h)Anthracene	ND	0.167	mg/kg wet							
ɔenzofuran	ND	0.333	mg/kg wet							
ɜthylphthalate	ND	0.333	mg/kg wet							
nethylphthalate	ND	0.333	mg/kg wet							
n-butylphthalate	ND	0.333	mg/kg wet							
n-octylphthalate	ND	0.333	mg/kg wet							
ıoranthene	ND	0.333	mg/kg wet							
ıorene	ND	0.333	mg/kg wet							
xachlorobenzene	ND	0.333	mg/kg wet							
xachlorobutadiene	ND	0.333	mg/kg wet							
xachloroethane	ND	0.333	mg/kg wet							
ɜno(1,2,3-cd)Pyrene	ND	0.333	mg/kg wet							
ɔphorone	ND	0.333	mg/kg wet							
phthalene	ND	0.333	mg/kg wet							
robenzene	ND	0.333	mg/kg wet							
Nitrosodimethylamine	ND	0.333	mg/kg wet							
ntachlorophenol	ND	1.67	mg/kg wet							
enanthrene	ND	0.333	mg/kg wet							

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

ient Name: Alliance Environmental Group
ient Project ID: Beverly Sweepings

ESS Laboratory Work Order: 0809282

Quality Control Data

nalyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
tch BI82212 - 3546										
enol	ND	0.333	mg/kg wet							
ene	ND	0.333	mg/kg wet							
rogate: 1,2-Dichlorobenzene-d4	*2.22*		mg/kg wet	*3.333*		*67*	*30-130*			
rogate: 2,4,6-Tribromophenol	*4.81*		mg/kg wet	*5.000*		*96*	*30-130*			
rogate: 2-Chlorophenol-d4	*3.11*		mg/kg wet	*5.000*		*62*	*30-130*			
rogate: 2-Fluorobiphenyl	*2.26*		mg/kg wet	*3.333*		*68*	*30-130*			
rogate: 2-Fluorophenol	*3.16*		mg/kg wet	*5.000*		*63*	*30-130*			
rogate: Nitrobenzene-d5	*2.48*		mg/kg wet	*3.333*		*74*	*30-130*			
rogate: Phenol-d6	*3.57*		mg/kg wet	*5.000*		*71*	*30-130*			
rogate: p-Terphenyl-d14	*2.94*		mg/kg wet	*3.333*		*88*	*30-130*			
S										
-Biphenyl	2.83	0.333	mg/kg wet	3.333		85	40-140			
,4-Trichlorobenzene	2.24	0.333	mg/kg wet	3.333		67	40-140			
-Dichlorobenzene	2.17	0.333	mg/kg wet	3.333		65	40-140			
-Dichlorobenzene	2.22	0.333	mg/kg wet	3.333		67	40-140			
-Dichlorobenzene	2.16	0.333	mg/kg wet	3.333		65	40-140			
,5-Trichlorophenol	2.69	0.333	mg/kg wet	3.333		81	30-130			
,6-Trichlorophenol	2.52	0.333	mg/kg wet	3.333		75	30-130			
-Dichlorophenol	2.58	0.333	mg/kg wet	3.333		77	30-130			
-Dimethylphenol	2.38	0.333	mg/kg wet	3.333		71	30-130			
-Dinitrophenol	3.07	1.67	mg/kg wet	3.333		92	30-130			
-Dinitrotoluene	3.04	0.333	mg/kg wet	3.333		91	40-140			
-Dinitrotoluene	2.97	0.333	mg/kg wet	3.333		89	40-140			
hloronaphthalene	2.00	0.333	mg/kg wet	3.333		60	40-140			
hlorophenol	2.18	0.333	mg/kg wet	3.333		65	30-130			
lethylnaphthalene	2.31	0.333	mg/kg wet	3.333		69	40-140			
lethylphenol	2.38	0.333	mg/kg wet	3.333		71	30-130			
litrophenol	2.68	0.333	mg/kg wet	3.333		81	30-130			
′-Dichlorobenzidine	2.76	0.667	mg/kg wet	3.333		83	40-140			
4-Methylphenol	4.23	0.667	mg/kg wet	6.667		63	30-130			
romophenyl-phenylether	2.38	0.333	mg/kg wet	3.333		71	40-140			
hloroaniline	1.90	0.667	mg/kg wet	3.333		57	40-140			
litrophenol	3.38	1.67	mg/kg wet	3.333		101	30-130			
enaphthene	2.50	0.333	mg/kg wet	3.333		75	40-140			
enaphthylene	2.57	0.333	mg/kg wet	3.333		77	40-140			
etophenone	2.58	0.667	mg/kg wet	3.333		78	40-140			
iline	1.92	1.67	mg/kg wet	3.333		58	40-140			
thracene	2.51	0.333	mg/kg wet	3.333		75	40-140			
obenzene	2.52	0.333	mg/kg wet	3.333		76	40-140			
nzo(a)anthracene	2.87	0.333	mg/kg wet	3.333		86	40-140			
nzo(a)pyrene	2.72	0.167	mg/kg wet	3.333		82	40-140			
nzo(b)fluoranthene	3.08	0.333	mg/kg wet	3.333		92	40-140			
nzo(g,h,i)perylene	2.86	0.333	mg/kg wet	3.333		86	40-140			
nzo(k)fluoranthene	2.52	0.333	mg/kg wet	3.333		76	40-140			
(2-Chloroethoxy)methane	2.43	0.333	mg/kg wet	3.333		73	40-140			
(2-Chloroethyl)ether	2.72	0.333	mg/kg wet	3.333		81	40-140			

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

ient Name: Alliance Environmental Group
ient Project ID: Beverly Sweepings

ESS Laboratory Work Order: 0809282

Quality Control Data

nalyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
tch BI82212 - 3546										
(2-chloroisopropyl)Ether	2.16	0.333	mg/kg wet	3.333		65	40-140			
(2-Ethylhexyl)phthalate	3.27	0.333	mg/kg wet	3.333		98	40-140			
ylbenzylphthalate	3.13	0.333	mg/kg wet	3.333		94	40-140			
ysene	2.76	0.167	mg/kg wet	3.333		83	40-140			
enzo(a,h)Anthracene	2.72	0.167	mg/kg wet	3.333		82	40-140			
enzofuran	2.46	0.333	mg/kg wet	3.333		74	40-140			
thylphthalate	2.84	0.333	mg/kg wet	3.333		85	40-140			
nethylphthalate	2.73	0.333	mg/kg wet	3.333		82	40-140			
n-butylphthalate	2.56	0.333	mg/kg wet	3.333		77	40-140			
n-octylphthalate	3.17	0.333	mg/kg wet	3.333		95	40-140			
oranthene	2.45	0.333	mg/kg wet	3.333		73	40-140			
orene	2.25	0.333	mg/kg wet	3.333		68	40-140			
xachlorobenzene	2.53	0.333	mg/kg wet	3.333		76	40-140			
xachlorobutadiene	2.15	0.333	mg/kg wet	3.333		65	40-140			
xachloroethane	2.38	0.333	mg/kg wet	3.333		71	40-140			
leno(1,2,3-cd)Pyrene	2.90	0.333	mg/kg wet	3.333		87	40-140			
phorone	2.27	0.333	mg/kg wet	3.333		68	40-140			
phthalene	2.21	0.333	mg/kg wet	3.333		66	40-140			
robenzene	2.32	0.333	mg/kg wet	3.333		70	40-140			
Nitrosodimethylamine	2.17	0.333	mg/kg wet	3.333		65	40-140			
ntachlorophenol	3.05	1.67	mg/kg wet	3.333		91	30-130			
enanthrene	2.29	0.333	mg/kg wet	3.333		69	40-140			
enol	2.47	0.333	mg/kg wet	3.333		74	30-130			
ene	2.98	0.333	mg/kg wet	3.333		89	40-140			
rrogate: 1,2-Dichlorobenzene-d4	*2.16*		mg/kg wet	*3.333*		*65*	*30-130*			
rrogate: 2,4,6-Tribromophenol	*4.64*		mg/kg wet	*5.000*		*93*	*30-130*			
rrogate: 2-Chlorophenol-d4	*3.50*		mg/kg wet	*5.000*		*70*	*30-130*			
rrogate: 2-Fluorobiphenyl	*2.27*		mg/kg wet	*3.333*		*68*	*30-130*			
rrogate: 2-Fluorophenol	*3.54*		mg/kg wet	*5.000*		*71*	*30-130*			
rrogate: Nitrobenzene-d5	*2.70*		mg/kg wet	*3.333*		*81*	*30-130*			
rrogate: Phenol-d6	*3.24*		mg/kg wet	*5.000*		*65*	*30-130*			
rrogate: p-Terphenyl-d14	*3.04*		mg/kg wet	*3.333*		*91*	*30-130*			
S Dup										
-Biphenyl	2.34	0.333	mg/kg wet	3.333		70	40-140	19	30	
,4-Trichlorobenzene	1.88	0.333	mg/kg wet	3.333		57	40-140	17	30	
-Dichlorobenzene	1.83	0.333	mg/kg wet	3.333		55	40-140	17	30	
-Dichlorobenzene	1.84	0.333	mg/kg wet	3.333		55	40-140	19	30	
-Dichlorobenzene	1.79	0.333	mg/kg wet	3.333		54	40-140	18	30	
,5-Trichlorophenol	2.51	0.333	mg/kg wet	3.333		75	30-130	7	30	
,6-Trichlorophenol	2.30	0.333	mg/kg wet	3.333		69	30-130	9	30	
-Dichlorophenol	2.10	0.333	mg/kg wet	3.333		63	30-130	20	30	
-Dimethylphenol	1.93	0.333	mg/kg wet	3.333		58	30-130	21	30	
-Dinitrophenol	2.79	1.67	mg/kg wet	3.333		84	30-130	10	30	
-Dinitrotoluene	2.82	0.333	mg/kg wet	3.333		85	40-140	7	30	
-Dinitrotoluene	2.77	0.333	mg/kg wet	3.333		83	40-140	7	30	
hloronaphthalene	1.67	0.333	mg/kg wet	3.333		50	40-140	18	30	

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

ient Name: Alliance Environmental Group
ient Project ID: Beverly Sweepings

ESS Laboratory Work Order: 0809282

Quality Control Data

ıalyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
tch BI82212 - 3546										
hlorophenol	1.88	0.333	mg/kg wet	3.333		56	30-130	15	30	
lethylnaphthalene	1.93	0.333	mg/kg wet	3.333		58	40-140	18	30	
lethylphenol	2.13	0.333	mg/kg wet	3.333		64	30-130	11	30	
litrophenol	2.16	0.333	mg/kg wet	3.333		65	30-130	22	30	
'-Dichlorobenzidine	2.79	0.667	mg/kg wet	3.333		84	40-140	0.9	30	
4-Methylphenol	3.55	0.667	mg/kg wet	6.667		53	30-130	17	30	
ıromophenyl-phenylether	2.31	0.333	mg/kg wet	3.333		69	40-140	3	30	
hloroaniline	1.71	0.667	mg/kg wet	3.333		51	40-140	11	30	
litrophenol	3.11	1.67	mg/kg wet	3.333		93	30-130	8	30	
ınaphthene	2.20	0.333	mg/kg wet	3.333		66	40-140	13	30	
ınaphthylene	2.30	0.333	mg/kg wet	3.333		69	40-140	11	30	
ıtophenone	2.04	0.667	mg/kg wet	3.333		61	40-140	24	30	
line	1.64	1.67	mg/kg wet	3.333		49	40-140	15	30	
hracene	2.41	0.333	mg/kg wet	3.333		72	40-140	4	30	
ıbenzene	2.47	0.333	mg/kg wet	3.333		74	40-140	2	30	
ızo(a)anthracene	2.78	0.333	mg/kg wet	3.333		83	40-140	3	30	
ızo(a)pyrene	2.71	0.167	mg/kg wet	3.333		81	40-140	0.5	30	
ızo(b)fluoranthene	3.02	0.333	mg/kg wet	3.333		91	40-140	2	30	
izo(g,h,i)perylene	2.79	0.333	mg/kg wet	3.333		84	40-140	2	30	
ızo(k)fluoranthene	2.06	0.333	mg/kg wet	3.333		62	40-140	20	30	
(2-Chloroethoxy)methane	1.97	0.333	mg/kg wet	3.333		59	40-140	21	30	
(2-Chloroethyl)ether	2.31	0.333	mg/kg wet	3.333		69	40-140	16	30	
(2-chloroisopropyl)Ether	1.92	0.333	mg/kg wet	3.333		57	40-140	12	30	
(2-Ethylhexyl)phthalate	3.09	0.333	mg/kg wet	3.333		93	40-140	6	30	
;ylbenzylphthalate	3.17	0.333	mg/kg wet	3.333		95	40-140	1	30	
rysene	2.74	0.167	mg/kg wet	3.333		82	40-140	0.8	30	
ıenzo(a,h)Anthracene	2.65	0.167	mg/kg wet	3.333		79	40-140	3	30	
ıenzofuran	2.25	0.333	mg/kg wet	3.333		68	40-140	9	30	
ıthylphthalate	2.67	0.333	mg/kg wet	3.333		80	40-140	6	30	
nethylphthalate	2.54	0.333	mg/kg wet	3.333		76	40-140	7	30	
n-butylphthalate	2.47	0.333	mg/kg wet	3.333		74	40-140	4	30	
n-octylphthalate	2.95	0.333	mg/kg wet	3.333		88	40-140	7	30	
oranthene	2.46	0.333	mg/kg wet	3.333		74	40-140	0.6	30	
orene	2.14	0.333	mg/kg wet	3.333		64	40-140	5	30	
xachlorobenzene	2.40	0.333	mg/kg wet	3.333		72	40-140	5	30	
xachlorobutadiene	1.81	0.333	mg/kg wet	3.333		54	40-140	17	30	
xachloroethane	1.93	0.333	mg/kg wet	3.333		58	40-140	21	30	
leno(1,2,3-cd)Pyrene	2.77	0.333	mg/kg wet	3.333		83	40-140	5	30	
ıphorone	1.97	0.333	mg/kg wet	3.333		59	40-140	14	30	
phthalene	2.05	0.333	mg/kg wet	3.333		61	40-140	7	30	
robenzene	1.91	0.333	mg/kg wet	3.333		57	40-140	20	30	
Nitrosodimethylamine	1.84	0.333	mg/kg wet	3.333		55	40-140	17	30	
ntachlorophenol	3.03	1.67	mg/kg wet	3.333		91	30-130	0.4	30	
enanthrene	2.27	0.333	mg/kg wet	3.333		68	40-140	0.9	30	
enol	2.02	0.333	mg/kg wet	3.333		61	30-130	20	30	
rene	2.95	0.333	mg/kg wet	3.333		89	40-140	0.8	30	

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

ient Name: Alliance Environmental Group
ient Project ID: Beverly Sweepings

ESS Laboratory Work Order: 0809282

Quality Control Data

nalyte	Result	MRL	Units	Spike Level	Source Result	%REC	%REC Limits	RPD	RPD Limit	Qualifier
8270C Semi-Volatile Organic Compounds										
tch BI82212 - 3546										
rogate: 1,2-Dichlorobenzene-d4	*1.84*		mg/kg wet	*3.333*		*55*	*30-130*			
rogate: 2,4,6-Tribromophenol	*4.56*		mg/kg wet	*5.000*		*91*	*30-130*			
rogate: 2-Chlorophenol-d4	*3.05*		mg/kg wet	*5.000*		*61*	*30-130*			
rogate: 2-Fluorobiphenyl	*2.16*		mg/kg wet	*3.333*		*65*	*30-130*			
rogate: 2-Fluorophenol	*2.98*		mg/kg wet	*5.000*		*60*	*30-130*			
rogate: Nitrobenzene-d5	*2.18*		mg/kg wet	*3.333*		*65*	*30-130*			
rogate: Phenol-d6	*2.87*		mg/kg wet	*5.000*		*57*	*30-130*			
rogate: p-Terphenyl-d14	*2.98*		mg/kg wet	*3.333*		*90*	*30-130*			
Classical Chemistry										
tch BI81911 - General Preparation										
ank										
nductivity	ND	5	umhos/cm							
S										
nductivity	1350		umhos/cm	1411		96	90-110			
plicate **Source: 0809282-03**										
nductivity	3330	5	umhos/cm		3350			0.6	10	

ESS Laboratory

Division of Thielsch Engineering, Inc.

CERTIFICATE OF ANALYSIS

lient Name: Alliance Environmental Group
lient Project ID: Beverly Sweepings

ESS Laboratory Work Order: 0809282

Notes and Definitions

VL	Results obtained from a deionized water leach of the sample.
J	Analyte included in the analysis, but not detected
RW	Reduced weight used for TCLP Extraction.
M-	Matrix Spike recovery is below lower control limit.
D	Diluted.
C+	Continuing Calibration recovery is above upper control limit.
ND	Analyte NOT DETECTED above the detection limit
lry	Sample results reported on a dry weight basis
RPD	Relative Percent Difference
MDL	Method Detection Limit
MRL	Method Reporting Limit
IV	Initial Volume
FV	Final Volume
S	Subcontracted analysis; see attached report
.	Range result excludes concentrations of surrogates and/or internal standards eluting in that range.
:	Range result excludes concentrations of target analytes eluting in that range.
;	Range result excludes the concentration of the C9-C10 aromatic range.
Avg	Results reported as a mathematical average.

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ESS LABORATORY CERTIFICATIONS

U.S. Army Corps of Engineers
Soil and Water

Navy Installation Restoration QA Program
Soil and Water

Rhode Island: A-179

Connecticut: PH-0750

Maine: RI002

Massachusetts: M-RI002

New Hampshire (NELAP accredited): 242405
Potable Water
Non Potable Water

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

United States Department of Agriculture
Soil Permit: S-54210

New Jersey (NELAP accredited): RI002
Potable Water
Non Potable Water
Soil and Hazardous Waste

Maryland: 301
Potable Water

ESS Laboratory

Division of Thielsch Engineering, Inc.

185 Frances Avenue, Cranston, RI 02910-2211
Tel. (401) 461-7181 Fax (401) 461-4486
www.essLaboratory.com

CHAIN OF CUSTODY

ESS Lab # 0809282

Turn Time: ✓ Standard Other

Reporting Limits - S-1 Soil

Regulatory Status: MA RI CT NH NJ NY ME Other

Is this project for any of the following (please circle): MA MCP Navy USACE CT DEP Other

Electronic Deliverables: Excel Access (PDF)

Co. Name: Alliance Environmental Group

Project #:

Project Name: Beverly Sweepings

Contact Person: Jacob H. Butterworth

Address: [illegible] Boulevard

City: Warwick | State: RI | Zip: 02888 | PO #:

Tel: (401) 732-7600 | Fax: (401) [illegible] | Email:

ESS Lab ID	Date	Collection Time	Grab-G Composite-C	Matrix	Sample ID	Preservative Code	# of Containers	Type of Container	Vol of Container	total Arsenic	total Cadmium	total Chromium	total Lead	total Mercury	TPH 8100M	total PCB 8080	total SVOC 8270	total VOC 8260	Conductivity
1	9/18/08	—	G	S	S-101	16	2	GV	8oz/VOA	x	x	x	x	x	x	x	x	x	x
2	9/18/08	—	G	S	S-102	16	2	GV	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓
3	9/18/08	—	G	S	S-103	16	2	GV	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓	↓

Cooler Present: ✓ Yes No | Intact: Yes No

Cooler Temperature: 2.4°C

Jacob H. Butterworth

Please run TCLP for any metal or organic compound which fails the 20x rule

Jacob H. Butterworth 9/19/08 10:33 | Carl Strong 9/19/08 10:33 | Carl Strong 9/19/08 10:58 | John Pawlak 9/19/08 10:50