



**Microbac Laboratories, Inc.**  
Central Pennsylvania Division  
4359 Linglestown Road • Harrisburg, PA 17112

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**COVER LETTER**

Paul Miller  
Geological Services, Inc.  
PO Box 578  
Rock Hall, MD 21661  
RE: GSI/West Lebanon

December 09, 2011  
Report No.: 1128702

The report of analyses contains test results for samples received at Microbac Laboratories, Inc., Central Pennsylvania Division on 11/28/2011 16:45.

The enclosed results were obtained from and applicable to the sample(s) as received at the laboratory. All sample results are reported on an "as received" basis unless otherwise noted.

All data included in this report has been reviewed and meet the applicable project and certification specific requirements, unless otherwise noted.

This report has been paginated in its entirety and shall not be reproduced except in full, without the written approval of Microbac Laboratories, Inc.

We appreciate the opportunity to service your analytical needs. If you have any questions, please feel free to contact us.

This Data Package contains the following:

- This Cover Page
- Sample Summary
- Test Results
- Notes and Definitions
- Cooler Receipt Log
- Chain of Custody

A handwritten signature in cursive script that reads "Cherie Gudzy".

Final report reviewed by:

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Cherie Gudzy, Division Manager

12/9/2011

Report issue date

For any feedback, please contact Cherie Gudzy, Division Manager. You may also contact Sean Hyde, Chief Operating Officer at sean.hyde@microbac.com or James Nokes, President at james.nokes@microbac.com.



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## CERTIFICATE OF ANALYSIS

Geological Services, Inc. PO Box 578 Rock Hall, MD 21661	Project: GSI/West Lebanon Project Number: GSI/West Lebanon Project Manager: Paul Miller	Report: 1128702 Reported: 12/09/2011 16:08
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### SAMPLE SUMMARY

Sample ID	Laboratory ID	Matrix	Type	Date Sampled	Date Received
White Garage 1	1128702-01	Soil	Grab	11/23/2011 11:00	11/28/2011 16:45
White Garage 2	1128702-02	Soil	Grab	11/23/2011 11:10	11/28/2011 16:45
White Garage 3	1128702-03	Soil	Grab	11/23/2011 11:20	11/28/2011 16:45
White Garage 4	1128702-04	Soil	Grab	11/23/2011 11:30	11/28/2011 16:45
White Garage 5	1128702-05	Soil	Grab	11/23/2011 11:45	11/28/2011 16:45
Trees	1128702-06	Soil	Grab	11/23/2011 12:00	11/28/2011 16:45
Burn	1128702-07	Soil	Grab	11/23/2011 12:15	11/28/2011 16:45

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### White Garage 1

1128702-01 (Soil) Sampled: 11/23/2011 11:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
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### Microbac Laboratories, Inc., Central Pennsylvania Division (PA 22-00578)

#### WET CHEMISTRY

% Solids	81.57	0.10	% by Weight	120111 1123	120111 1200	SES	SM 2540G	A-8
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#### VOLATILE ORGANIC COMPOUNDS

Benzene	ND	0.177	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
Chloroform	ND	0.177	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
Chloromethane	ND	0.354	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
1,1-Dichloroethane	ND	0.177	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
1,2-Dichloroethane	ND	0.177	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
1,1-Dichloroethene	ND	0.177	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.177	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.177	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
<b>Ethylbenzene</b>	<b>0.323</b>	0.177	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
Isopropylbenzene (Cumene)	ND	0.177	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
Methylene Chloride	ND	0.177	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
Methyl-tert-Butyl Ether	ND	0.177	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
<b>Naphthalene</b>	<b>2.92</b>	1.33	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.177	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.177	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
<b>Tetrachloroethene</b>	<b>28.7</b>	0.886	mg/kg dry	120711 2032	120711 2032	JMS	EPA 8260B	
<b>Toluene</b>	<b>0.255</b>	0.177	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
1,1,1-Trichloroethane	ND	0.177	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
1,1,2-Trichloroethane	ND	0.177	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
Trichloroethene	ND	0.177	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
<b>1,2,4-Trimethylbenzene</b>	<b>2.08</b>	0.177	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
<b>1,3,5-Trimethylbenzene</b>	<b>1.81</b>	0.177	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
Vinyl chloride	ND	0.0886	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
<b>m,p-Xylenes</b>	<b>1.30</b>	0.354	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
<b>o-Xylene</b>	<b>2.16</b>	0.177	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	

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**CERTIFICATE OF ANALYSIS**

Geological Services, Inc. PO Box 578 Rock Hall, MD 21661	Project: GSI/West Lebanon Project Number: GSI/West Lebanon Project Manager: Paul Miller	Report: 1128702 Reported: 12/09/2011 16:08
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**White Garage 1**

**1128702-01 (Soil) Sampled: 11/23/2011 11:00; Type: Grab**

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
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**Microbac Laboratories, Inc., Central Pennsylvania Division (PA 22-00578)**

**VOLATILE ORGANIC COMPOUNDS**

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
<b>Total Xylenes</b>	<b>3.46</b>	0.532	mg/kg dry	120711 2032	120111 0526	JMS	EPA 8260B	
<i>Surrogate: Toluene-d8</i>		89.3%	83.3-118.6	120711 2032	120111 0526		EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>		114%	74.1-131.5	120711 2032	120111 0526		EPA 8260B	
<i>Surrogate: 4-Bromofluorobenzene</i>		130%	70.4-128	120711 2032	120111 0526		EPA 8260B	S-04

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Geological Services, Inc. PO Box 578 Rock Hall, MD 21661	Project: GSI/West Lebanon Project Number: GSI/West Lebanon Project Manager: Paul Miller	Report: 1128702 Reported: 12/09/2011 16:08
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### White Garage 2

1128702-02 (Soil) Sampled: 11/23/2011 11:10; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
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### Microbac Laboratories, Inc., Central Pennsylvania Division (PA 22-00578)

#### WET CHEMISTRY

% Solids	71.65	0.10	% by Weight	120111 1123	120111 1200	SES	SM 2540G	A-8
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#### VOLATILE ORGANIC COMPOUNDS

Benzene	ND	0.236	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
Chloroform	ND	0.236	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
Chloromethane	ND	0.472	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
1,1-Dichloroethane	ND	0.236	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
1,2-Dichloroethane	ND	0.236	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
1,1-Dichloroethene	ND	0.236	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.236	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.236	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
Ethylbenzene	ND	0.236	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
Isopropylbenzene (Cumene)	ND	0.236	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
Methylene Chloride	ND	0.236	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
Methyl-tert-Butyl Ether	ND	0.236	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
Naphthalene	ND	1.77	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.236	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
1,1,1,2,2-Tetrachloroethane	ND	0.236	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
<b>Tetrachloroethene</b>	<b>16.6</b>	1.18	mg/kg dry	120711 2100	120711 2100	JMS	EPA 8260B	
Toluene	ND	0.236	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
1,1,1-Trichloroethane	ND	0.236	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
1,1,2-Trichloroethane	ND	0.236	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
Trichloroethene	ND	0.236	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.236	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
<b>1,3,5-Trimethylbenzene</b>	<b>0.282</b>	0.236	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
Vinyl chloride	ND	0.118	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
m,p-Xylenes	ND	0.472	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
o-Xylene	ND	0.236	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	
Total Xylenes	ND	0.709	mg/kg dry	120711 2100	120111 0554	JMS	EPA 8260B	

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**White Garage 2**

**1128702-02 (Soil) Sampled: 11/23/2011 11:10; Type: Grab**

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
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**Microbac Laboratories, Inc., Central Pennsylvania Division (PA 22-00578)**

**VOLATILE ORGANIC COMPOUNDS**

<i>Surrogate: Toluene-d8</i>	87.8%	83.3-118.6		120711 2100	120111 0554		EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	129%	74.1-131.5		120711 2100	120111 0554		EPA 8260B	
<i>Surrogate: 4-Bromofluorobenzene</i>	105%	70.4-128		120711 2100	120111 0554		EPA 8260B	

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## CERTIFICATE OF ANALYSIS

Geological Services, Inc.  
PO Box 578  
Rock Hall, MD 21661

Project: GSI/West Lebanon  
Project Number: GSI/West Lebanon  
Project Manager: Paul Miller

Report: 1128702  
Reported: 12/09/2011 16:08

### White Garage 3

1128702-03 (Soil) Sampled: 11/23/2011 11:20; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
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### Microbac Laboratories, Inc., Central Pennsylvania Division (PA 22-00578)

#### WET CHEMISTRY

<b>% Solids</b>	<b>78.99</b>	0.10	% by Weight	120111 1123	120111 1200	SES	SM 2540G	A-8
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#### VOLATILE ORGANIC COMPOUNDS

Benzene	ND	0.193	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
Chloroform	ND	0.193	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
Chloromethane	ND	0.386	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
1,1-Dichloroethane	ND	0.193	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
1,2-Dichloroethane	ND	0.193	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
1,1-Dichloroethene	ND	0.193	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.193	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.193	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
Ethylbenzene	ND	0.193	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
Isopropylbenzene (Cumene)	ND	0.193	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
Methylene Chloride	ND	0.193	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
Methyl-tert-Butyl Ether	ND	0.193	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
Naphthalene	ND	1.45	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.193	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
1,1,1,2,2-Tetrachloroethane	ND	0.193	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
<b>Tetrachloroethene</b>	<b>26.7</b>	0.966	mg/kg dry	120711 2127	120711 2127	JMS	EPA 8260B	
Toluene	ND	0.193	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
1,1,1-Trichloroethane	ND	0.193	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
1,1,2-Trichloroethane	ND	0.193	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
Trichloroethene	ND	0.193	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.193	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
<b>1,3,5-Trimethylbenzene</b>	<b>1.03</b>	0.193	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
Vinyl chloride	ND	0.0966	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
m,p-Xylenes	ND	0.386	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
<b>o-Xylene</b>	<b>1.30</b>	0.193	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	
<b>Total Xylenes</b>	<b>1.30</b>	0.580	mg/kg dry	120711 2127	120111 0622	JMS	EPA 8260B	

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**White Garage 3**

**1128702-03 (Soil) Sampled: 11/23/2011 11:20; Type: Grab**

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
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**Microbac Laboratories, Inc., Central Pennsylvania Division (PA 22-00578)**

**VOLATILE ORGANIC COMPOUNDS**

Surrogate: Toluene-d8	91.6%	83.3-118.6		120711 2127	120111 0622		EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4	121%	74.1-131.5		120711 2127	120111 0622		EPA 8260B	
Surrogate: 4-Bromofluorobenzene	121%	70.4-128		120711 2127	120111 0622		EPA 8260B	

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**White Garage 4**

**1128702-04 (Soil) Sampled: 11/23/2011 11:30; Type: Grab**

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
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**Microbac Laboratories, Inc., Central Pennsylvania Division (PA 22-00578)**

**WET CHEMISTRY**

<b>% Solids</b>	<b>69.75</b>	0.10	% by Weight	120111 1123	120111 1200	SES	SM 2540G	A-8
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**VOLATILE ORGANIC COMPOUNDS**

Benzene	ND	0.230	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
Chloroform	ND	0.230	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
Chloromethane	ND	0.460	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
1,1-Dichloroethane	ND	0.230	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
1,2-Dichloroethane	ND	0.230	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
1,1-Dichloroethene	ND	0.230	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.230	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.230	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
Ethylbenzene	ND	0.230	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
Isopropylbenzene (Cumene)	ND	0.230	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
Methylene Chloride	ND	0.230	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
Methyl-tert-Butyl Ether	ND	0.230	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
Naphthalene	ND	1.73	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.230	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
1,1,1,2,2-Tetrachloroethane	ND	0.230	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
Tetrachloroethene	ND	0.230	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
Toluene	ND	0.230	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
1,1,1-Trichloroethane	ND	0.230	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
1,1,2-Trichloroethane	ND	0.230	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
Trichloroethene	ND	0.230	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.230	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.230	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
Vinyl chloride	ND	0.115	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
m,p-Xylenes	ND	0.460	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
o-Xylene	ND	0.230	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	
Total Xylenes	ND	0.690	mg/kg dry	120111 0650	120111 0650	JMS	EPA 8260B	

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www.microbac.com

**CERTIFICATE OF ANALYSIS**

Geological Services, Inc. PO Box 578 Rock Hall, MD 21661	Project: GSI/West Lebanon Project Number: GSI/West Lebanon Project Manager: Paul Miller	Report: 1128702 Reported: 12/09/2011 16:08
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**White Garage 4**

**1128702-04 (Soil) Sampled: 11/23/2011 11:30; Type: Grab**

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
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**Microbac Laboratories, Inc., Central Pennsylvania Division (PA 22-00578)**

**VOLATILE ORGANIC COMPOUNDS**

<i>Surrogate: 4-Bromofluorobenzene</i>	121%	70.4-128		120111 0650	120111 0650		EPA 8260B	
<i>Surrogate: 1,2-Dichloroethane-d4</i>	127%	74.1-131.5		120111 0650	120111 0650		EPA 8260B	
<i>Surrogate: Toluene-d8</i>	93.1%	83.3-118.6		120111 0650	120111 0650		EPA 8260B	

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**CERTIFICATE OF ANALYSIS**

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**White Garage 5**

**1128702-05 (Soil) Sampled: 11/23/2011 11:45; Type: Grab**

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
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**Microbac Laboratories, Inc., Central Pennsylvania Division (PA 22-00578)**

**WET CHEMISTRY**

<b>% Solids</b>	<b>71.51</b>	0.10	% by Weight	120111 1123	120111 1200	SES	SM 2540G	A-8
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**VOLATILE ORGANIC COMPOUNDS**

Benzene	ND	0.228	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
Chloroform	ND	0.228	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
Chloromethane	ND	0.456	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
1,1-Dichloroethane	ND	0.228	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
1,2-Dichloroethane	ND	0.228	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
1,1-Dichloroethene	ND	0.228	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.228	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.228	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
Ethylbenzene	ND	0.228	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
Isopropylbenzene (Cumene)	ND	0.228	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
Methylene Chloride	ND	0.228	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
Methyl-tert-Butyl Ether	ND	0.228	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
Naphthalene	ND	1.71	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.228	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.228	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
Tetrachloroethene	ND	0.228	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
Toluene	ND	0.228	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
1,1,1-Trichloroethane	ND	0.228	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
1,1,2-Trichloroethane	ND	0.228	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
Trichloroethene	ND	0.228	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.228	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.228	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
Vinyl chloride	ND	0.114	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
m,p-Xylenes	ND	0.456	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
o-Xylene	ND	0.228	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	
Total Xylenes	ND	0.684	mg/kg dry	120111 0717	120111 0717	JMS	EPA 8260B	

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**CERTIFICATE OF ANALYSIS**

Geological Services, Inc. PO Box 578 Rock Hall, MD 21661	Project: GSI/West Lebanon Project Number: GSI/West Lebanon Project Manager: Paul Miller	Report: 1128702 Reported: 12/09/2011 16:08
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**White Garage 5**

**1128702-05 (Soil) Sampled: 11/23/2011 11:45; Type: Grab**

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
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**Microbac Laboratories, Inc., Central Pennsylvania Division (PA 22-00578)**

**VOLATILE ORGANIC COMPOUNDS**

Surrogate: Toluene-d8	95.7%	83.3-118.6		120111 0717	120111 0717		EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4	119%	74.1-131.5		120111 0717	120111 0717		EPA 8260B	
Surrogate: 4-Bromofluorobenzene	109%	70.4-128		120111 0717	120111 0717		EPA 8260B	

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## CERTIFICATE OF ANALYSIS

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### Trees

1128702-06 (Soil) Sampled: 11/23/2011 12:00; Type: Grab

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
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### Microbac Laboratories, Inc., Central Pennsylvania Division (PA 22-00578)

#### WET CHEMISTRY

% Solids	77.01	0.10	% by Weight	120111 1123	120111 1200	SES	SM 2540G	A-8
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#### VOLATILE ORGANIC COMPOUNDS

Benzene	ND	0.188	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
Chloroform	ND	0.188	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
Chloromethane	ND	0.376	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
1,1-Dichloroethane	ND	0.188	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
1,2-Dichloroethane	ND	0.188	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
1,1-Dichloroethene	ND	0.188	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.188	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.188	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
Ethylbenzene	ND	0.188	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
<b>Isopropylbenzene (Cumene)</b>	<b>1.90</b>	0.188	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
Methylene Chloride	ND	0.188	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
Methyl-tert-Butyl Ether	ND	0.188	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
Naphthalene	ND	1.41	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.188	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
1,1,1,2,2-Tetrachloroethane	ND	0.188	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
Tetrachloroethene	ND	0.188	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
Toluene	ND	0.188	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
1,1,1-Trichloroethane	ND	0.188	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
1,1,2-Trichloroethane	ND	0.188	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
Trichloroethene	ND	0.188	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.188	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.188	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
Vinyl chloride	ND	0.0939	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
m,p-Xylenes	ND	0.376	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
o-Xylene	ND	0.188	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	
Total Xylenes	ND	0.564	mg/kg dry	120111 0745	120111 0745	JMS	EPA 8260B	

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**CERTIFICATE OF ANALYSIS**

Geological Services, Inc. PO Box 578 Rock Hall, MD 21661	Project: GSI/West Lebanon Project Number: GSI/West Lebanon Project Manager: Paul Miller	Report: 1128702 Reported: 12/09/2011 16:08
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**Trees**

**1128702-06 (Soil) Sampled: 11/23/2011 12:00; Type: Grab**

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
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**Microbac Laboratories, Inc., Central Pennsylvania Division (PA 22-00578)**

**VOLATILE ORGANIC COMPOUNDS**

Surrogate: Toluene-d8	100%	83.3-118.6		120111 0745	120111 0745		EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4	110%	74.1-131.5		120111 0745	120111 0745		EPA 8260B	
Surrogate: 4-Bromofluorobenzene	128%	70.4-128		120111 0745	120111 0745		EPA 8260B	

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--	---	---

**Burn**

**1128702-07 (Soil) Sampled: 11/23/2011 12:15; Type: Grab**

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
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**Microbac Laboratories, Inc., Central Pennsylvania Division (PA 22-00578)**

**WET CHEMISTRY**

<b>% Solids</b>	<b>80.19</b>	0.10	% by Weight	120111 1123	120111 1200	SES	SM 2540G	A-8
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**VOLATILE ORGANIC COMPOUNDS**

Benzene	ND	0.181	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
Chloroform	ND	0.181	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
Chloromethane	ND	0.362	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
1,1-Dichloroethane	ND	0.181	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
1,2-Dichloroethane	ND	0.181	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
1,1-Dichloroethene	ND	0.181	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
cis-1,2-Dichloroethene	ND	0.181	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
trans-1,2-Dichloroethene	ND	0.181	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
Ethylbenzene	ND	0.181	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
Isopropylbenzene (Cumene)	ND	0.181	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
Methylene Chloride	ND	0.181	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
Methyl-tert-Butyl Ether	ND	0.181	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
Naphthalene	ND	1.36	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
1,1,1,2-Tetrachloroethane	ND	0.181	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
1,1,2,2-Tetrachloroethane	ND	0.181	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
Tetrachloroethene	ND	0.181	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
Toluene	ND	0.181	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
1,1,1-Trichloroethane	ND	0.181	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
1,1,2-Trichloroethane	ND	0.181	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
Trichloroethene	ND	0.181	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
1,2,4-Trimethylbenzene	ND	0.181	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
1,3,5-Trimethylbenzene	ND	0.181	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
Vinyl chloride	ND	0.0905	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
m,p-Xylenes	ND	0.362	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
o-Xylene	ND	0.181	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	
Total Xylenes	ND	0.543	mg/kg dry	120111 0813	120111 0813	JMS	EPA 8260B	

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**CERTIFICATE OF ANALYSIS**

Geological Services, Inc. PO Box 578 Rock Hall, MD 21661	Project: GSI/West Lebanon Project Number: GSI/West Lebanon Project Manager: Paul Miller	Report: 1128702 Reported: 12/09/2011 16:08
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**Burn**

**1128702-07 (Soil) Sampled: 11/23/2011 12:15; Type: Grab**

Analyte	Result	Reporting Limit	Units	Prepared	Analyzed	Analyst	Method	Notes
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**Microbac Laboratories, Inc., Central Pennsylvania Division (PA 22-00578)**

**VOLATILE ORGANIC COMPOUNDS**

Surrogate: Toluene-d8	97.7%	83.3-118.6		120111 0813	120111 0813		EPA 8260B	
Surrogate: 4-Bromofluorobenzene	106%	70.4-128		120111 0813	120111 0813		EPA 8260B	
Surrogate: 1,2-Dichloroethane-d4	114%	74.1-131.5		120111 0813	120111 0813		EPA 8260B	

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## CERTIFICATE OF ANALYSIS

Geological Services, Inc. PO Box 578 Rock Hall, MD 21661	Project: GSI/West Lebanon Project Number: GSI/West Lebanon Project Manager: Paul Miller	Report: 1128702 Reported: 12/09/2011 16:08
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### Notes and Definitions

- S-04 The surrogate recovery for this sample is outside of established control limits due to a sample matrix effect.
- A-8 Sample analyzed past maximum recommended holding time.
- ND Analyte NOT DETECTED at or above the reporting limit
- dry Sample results reported on a dry weight basis

### Certifications

*Below is a list of certifications maintained by Microbac Laboratories, Inc. All data included in this report has been reviewed for and meets all project specific and quality control requirements of the applicable accreditation, unless otherwise noted. A complete list of individual analytes pursuant to each certification below is available upon request.*

- NELAP (PA): 22-00578
- NELAP (NJ): PA019
- Delaware: DE-PA
- Indiana: C-PA09
- Kentucky: 90143
- Massachusetts: M-PA1401
- New York: 11650
- North Carolina: 42708
- Tennessee: TN02865
- Virginia: 00433

## Cooler Receipt Log

**Cooler ID:** Default Cooler

**Cooler Temp:** 6.00 °C

Custody Seals Intact: No

Containers Intact: Yes

Received On Ice: Yes

COC Present: Yes

**Comments:**



**Microbac Laboratories, Inc. - Central Pennsylvania Division**  
**Chain of Custody Form**

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 NELAP accredited by PADEP. See www.microbac.com or contact laboratory for other accreditations.



**SUBMIT LAB REPORT TO:**

Company: *Geological Services Inc*  
 Contact: *Paul T Miller PG*  
 Address: *PO Box 578*  
 City: *Recht Hill* State: *MD* Zip: *21661*  
 Phone: *410 689 4175* Fax: \_\_\_\_\_  
 Report Delivery:  Mail  Fax  Email (enter address below)  
*Geo Serve @ Earthlink.net*

**SUBMIT INVOICETO:**

Company: *- Same -*  
 Contact: \_\_\_\_\_  
 Address: \_\_\_\_\_  
 City: \_\_\_\_\_ State: \_\_\_\_\_ Zip: \_\_\_\_\_  
 Phone: \_\_\_\_\_ Fax: \_\_\_\_\_  
 Invoice Delivery:  Mail  Email (enter address below)  
 MICROBAC Field Services Used?  NO  YES (See Field Log)

**KEY**

C = HCL N = HNO3  
 S = H2SO4 E = EDTA  
 O = NaOH M = MeOH  
 NA = None X = Other  
 B = Sodium Bisulfate  
 A = Ascorbic Acid  
 T = Sodium ThioSulfate  
 Z = Zn-Acetate/NaOH  
 P = Plastic  
 CG = Clear Glass  
 AG = Amber Glass  
 X = Other

**LABORATORY USE ONLY**

Samples received on ice? Temp: *6* °C *Y* N NA  
 Cooler temp. within acceptable limits? *Y* N NA  
 Correct bottles/enough volume for analysis? *Y* N NA  
 Sample bottles in good condition (unbroken)? *Y* N NA  
 Samples within required holding time? *Y* N NA  
 Zero headspace samples collected correctly? *Y* N NA  
 Samples preserved to pH <2 and/or pH >12? *Y* N NA  
 Delivery Method:  Drop Off  Microbac Pickup  Courier

**CLIENT PROJECT INFORMATION**

Project Name: *West Lebanon*  
 Project/PO Number: \_\_\_\_\_  
 Project Location/State:  PA  Other: \_\_\_\_\_  
 Purpose:  Regulatory  Informational  PWSID:  
 Results TAT Requested:  6-10 Day (Standard) OR  RUSH\* (INDICATE DUE DATE):  
 NOTES: \*RUSH TATs will include surcharge unless otherwise agreed to in writing and must be pre-arranged to ensure the due date can be met.

**MICROBAC QUOTE/MSA No:**

Data Deliverables/Report Type:  Level I (Standard) OR  
 Additional Fee Deliverables:  Level II  Level III  Level IV  
 State Monitoring Period:  Monthly  Quarterly  Annual

**ANALYSIS REQUESTED**

SS = Solid/Sludge	CG = Clear Glass	AG = Amber Glass	X = Other
GW = Groundwater	SS = Solid/Sludge	OL = Oil	A = Air O = Other
WW = Wastewater	SS = Solid/Sludge	OL = Oil	A = Air O = Other
DW = Drinking Water	SS = Solid/Sludge	OL = Oil	A = Air O = Other
SW = Storm/Surface	SS = Solid/Sludge	OL = Oil	A = Air O = Other

**LAB ID SAMPLE IDENTIFICATION / LOCATION DESCRIPTION**

LAB ID	SAMPLE IDENTIFICATION / LOCATION DESCRIPTION	SAMPLE DATE	SAMPLE TIME	SAMPLED BY
01	White Garage 1	11/23/11	11:00	
02	" 2	"	11:10	
03	" 3	"	11:20	
04	" 4	"	11:30	
05	" 5	"	11:45	
06	TREES	"	12:00	
07	BURN	"	12:15	
08				
09				
10				

**CONTAINERS**

Total # of Containers	Sample Type	Grab G or Composite C
4	Soil G	
4	S	
4	S	
4	S	
4	S	
4	S	
4	S	

**BOTTLEWARE: SIZE / TYPE / PRESERVE**


**CUSTODY CHAIN**

PRINT NAME	SIGNATURE	DATE	TIME
Relinquished by:	<i>Paul T Miller</i>	11/23/11	13:20
Accepted by:	<i>John Brauner</i>	11/23/11	13:22
Relinquished by:			
Accepted by:			
Relinquished by:	<i>Bob Harris</i>	11/28/11	10:50
Accepted by:	<i>Bob Harris</i>	11/28/11	10:50

**COMMENTS, NOTES, OR SPECIAL INSTRUCTIONS**

8 USE GSI Fillings List



1128702

*Chlorinated Hydrocarbons*