

US EPA ARCHIVE DOCUMENT

**APPENDIX B-5**  
**OCTOBER 2009 FIELD FORMS**

# SOIL VAPOR FIELD FORM



Well ID VW 93(S)

Sub-slab Probe  Nested Probe

Date: <u>Sept 29/09</u> <u>10/1/09</u>	PID (make/model/serial number): <u>MiniRac 200 110-00718</u>
Project Name: <u>Clifton Cincinnati</u>	Landtech (model/serial number): <u>500 E1365105</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>M60 2002 4528262</u>
Site Location: <u>HOOPER VI</u>	Manometer (make/model/serial number): <u>—</u>
Field Personnel: <u>Matt Mitchell/Ryan Grohman</u>	Weather: <u>Overcast</u>
Recorded by: <u>Matt Mitchell</u>	Air Temperature (°C/°F): <u>40°</u>
Atmospheric Pressure (in. Hg):	

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>0.0</u>	Time: <u>0905</u>	Start Time of Pneumatic Testing: <u>0905</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>0905</u>	<u>1</u>	<u>0.1</u>	<u>-0.04</u>
Prior to Purge	OK <input type="checkbox"/> @	<u>1</u>	<u>0.2</u>	<u>-0.06</u>
Prior to Sample Collection	OK <input type="checkbox"/> @	<u>1</u>	<u>0.5</u>	<u>-0.17</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
<u>10/1/09</u>		<u>Pneumatic</u>				<u>0</u>	<u>2.0</u>	<u>17.5</u>	<u>1.3</u>			<u>0</u>
<u>10/1/09</u>	<u>0931</u>	<u>0936</u>	<u>5</u>	<u>1</u>	<u>0.2</u>	<u>0</u>	<u>1.7</u>	<u>18.3</u>	<u>1.0</u>	<u>27.0</u>	<u>37.2</u>	<u>0</u>
<u>10/1/09</u>	<u>0936</u>	<u>0941</u>	<u>5</u>	<u>1</u>	<u>0.2</u>	<u>0</u>	<u>1.3</u>	<u>18.9</u>	<u>0.8</u>	<u>21.66</u>	<u>34.5</u>	<u>0</u>
<u>10/1/09</u>	<u>0941</u>	<u>0946</u>	<u>5</u>	<u>1</u>	<u>0.2</u>	<u>0</u>	<u>1.9</u>	<u>18.2</u>	<u>0.8</u>	<u>8.2</u>	<u>18.0</u>	<u>0</u>

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>10/1/09</u>	<u>0950</u>	<u>VW-93(S), 100109</u>	<u>35633</u>	<u>FC 00185</u>	<u>—</u>	<u>29.74</u>	<u>2.44</u>	<u>10.3</u>	<u>28.3</u>

Comments:

# SOIL VAPOR FIELD FORM



Well ID UV 93 (10)

Sub-slab Probe  Nested Probe

Date: <u>Sept 29/09</u>	PID (make/model/serial number): <u>MIRA 2000 110-007718</u>
Project Name: <u>Cherwon Cincinnati</u>	Landtech (model/serial number): <u>500 E1365/05</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MCP 2002 452926X</u>
Site Location: <u>Hoover VI</u>	Manometer (make/model/serial number): <u>                    </u>
Field Personnel: <u>Matt Mitchell/Ryan Stronmiller</u>	Weather: <u>overcast</u>
Recorded by: <u>msm</u>	Air Temperature (°C/°F): <u>50</u>
Atmospheric Pressure (in. Hg): <u>                    </u>	

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>-0.82</u>	Time: <u>1645</u>	Start Time of Pneumatic Testing:		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1645</u>	1	100	-0.01
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>0945</u>	1	200	-0.08
Prior to Sample Collection	OK <input type="checkbox"/> @ <u>          </u>	1	500	-0.30

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
9/29/09		Pneumatic				0	2.6	17.6	0	16.4	29.8	0
9/30/09	0949	0954	5	1	0.2	0	2.1	17.8	2.7	↓	↓	0
09/30/09	0954	0959	5	1	0.2	0	2.4	17.8	0.7	6.9	32.8	0
09/30/09	0959	1004	5	1	0.2	0	3.0	17.2	0.5	18.8	32.8	0
9/30/09	1004	1009	5	1	0.2	0	2.9	17.3	0.4	12.6	22.1	0
9/30/09	1009	1014	5	1	0.2	0	2.5	17.8	0.5	10.4	23.1	0

*residual in bag from lower interval*

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
9/30/09	1020	VW-93(10), 093009	2174	FC00527	—	-28.9	<del>32.0</del> -4.42	24.5	32.0

Comments:

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# SOIL VAPOR FIELD FORM



Well ID WV 93 (15)

Sub-slab Probe  Nested Probe

Date: <u>Sept 29/09</u>	PID (make/model/serial number): <u>MiniRaE 2000 110-007718</u>
Project Name: <u>Clemon Cincinnati</u>	Landtech (model/serial number): <u>500 E 13 65105</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>M60 2002 452826x</u>
Site Location: <u>HOOPER VAPOR</u>	Manometer (make/model/serial number): <u>---</u>
Field Personnel: <u>Matt Mitchell/Ryan Strohmaier</u>	Weather: <u>Overcast</u>
Recorded by: <u>Matt Mitchell</u>	Air Temperature (°C/°F): <u>50</u>
	Atmospheric Pressure (in. Hg): <u>---</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>-0.1</u>	Time: <u>1645</u>	Start Time of Pneumatic Testing:		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1645</u>	<u>1</u>	<u>0.1</u>	<u>-0.05</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1032</u>	<u>1</u>	<u>0.2</u>	<u>-0.11</u>
Prior to Sample Collection	OK <input type="checkbox"/> @	<u>1</u>	<u>0.5</u>	<u>-0.35</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
						0	3.0	16.0	0			0
<u>9/30/09</u>	<u>1033</u>	<u>1038</u>	<u>5</u>	<u>1</u>	<u>0.2</u>	<u>0</u>	<u>2.8</u>	<u>17.2</u>	<u>1.2</u>	<u>40.1</u>	<u>46.1</u>	<u>0</u>
<u>9/30/09</u>	<u>1038</u>	<u>1043</u>	<u>5</u>	<u>1</u>	<u>0.2</u>	<u>0</u>	<u>3.3</u>	<u>16.5</u>	<u>0.8</u>	<u>30.5</u>	<u>38.1</u>	<u>0</u>
<u>9/30/09</u>	<u>1043</u>	<u>1048</u>	<u>5</u>	<u>1</u>	<u>0.2</u>	<u>0</u>	<u>3.2</u>	<u>16.7</u>	<u>0.8</u>	<u>20.3</u>	<u>30.5</u>	<u>0</u>

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>9/30/09</u>	<u>1052</u>	<u>WV-93(15)093009</u>	<u>2205</u>	<u>FC 00434</u>	<u>---</u>	<u>-29.07</u>	<u>-2.21</u>	<u>26.1</u>	<u>37.4</u>

Comments:

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# SOIL VAPOR FIELD FORM



Well ID VW 93(20)

Sub-slab Probe  Nested Probe

Date: <u>Sept 29/09</u>	PID (make/model/serial number): <u>Mini Rae 2000 110-007718</u>
Project Name: <u>Hooven VI</u>	Landtech (model/serial number): <u>500 E1365/05</u>
Project Number: <u>500-016-01d</u>	Helium Detector (make/model/serial number): <u>M60 2002 USA826X</u>
Site Location: <u>Hooven OH</u>	Manometer (make/model/serial number): _____
Field Personnel: <u>Matt Mitchell, Ryan Strohmeyer</u>	Weather: <u>overcast</u>
Recorded by: <u>RS</u>	Air Temperature (°C/°F): <u>70</u>
	Atmospheric Pressure (in. Hg): _____

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>-0.02</u>	Time: <u>1647</u>	Start Time of Pneumatic Testing: _____		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1647</u>		100	-0.06
Prior to Purge	OK <input type="checkbox"/> @ <u>1102</u>		200	-0.12
Prior to Sample Collection	OK <input type="checkbox"/> @ _____		500	-0.42

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
9/30/09	1104	1109	5	1	0.2	0	3.1	16.6	0	12.1	19.1	0
9/30/09	1109	1114	5	1	0.2	0	3.4	15.9	0.7	14.2	28.9	0
9/30/09	1114	1119	5	1	0.2	0	3.3	16.2	0.7	16.7	18.7	0
9/30/09	1119	1124	5	1	0.2	0	3.2	16.2	0.6	14.8	23.5	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
9/30/09	1132	VW 93(20) 093009	35660	FC00233	_____	29.24	8.83	14.1	21.7

Comments:

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# SOIL VAPOR FIELD FORM



Well ID UV 93 (25)

Sub-slab Probe  Nested Probe

Date: <u>Sept 29/09</u>	PID (make/model/serial number): <u>Mini Rae 2000 110-007718</u>
Project Name: <u>Hooven UI</u>	Landtech (model/serial number): <u>500 E1365/05</u>
Project Number: <u>500-016-01d</u>	Helium Detector (make/model/serial number): <u>HGD 2002 US8896X</u>
Site Location: <u>Hooven OH</u>	Manometer (make/model/serial number): _____
Field Personnel: <u>Hatt Mitchell, Ryan Stralman</u>	Weather: <u>overcast</u>
Recorded by: <u>RS</u>	Air Temperature (°C/°F): <u>70</u>
	Atmospheric Pressure (in. Hg): _____

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>+0.03</u>	Time: <u>1648</u>	Start Time of Pneumatic Testing:		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1648</u>	1	100	0.0
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1144</u>	1	200	-0.04
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1210</u>	1	500	-0.29

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
						0	3.2	16.4	0			0
9/30/09	1145	1150	5	1	0.2	0	2.9	16.7	1.4	17.1	22.1	0
9/30/09	1150	1155	5	1	0.2	0	2.7	17.1	0.7	12.7	23.2	0
9/30/09	1155	1200	5	1	0.2	0	3.2	16.5	1.0	18.6	22.9	0
										<del>16.7</del>		

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
9/30/09	1212	UV-93(25)093009	2107	FC00839	—	29.13	3.80	24.3	29.2

Comments:

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# SOIL VAPOR FIELD FORM



Well ID UW 93 (30)

Sub-slab Probe  Nested Probe

Date: <u>Sept 29/09</u>	PID (make/model/serial number): <u>Mini Rae 2000 110-007718</u>
Project Name: <u>Hooven UI</u>	Landtech (model/serial number): <u>500 E1365/05</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>HGD 2002 US 2006x</u>
Site Location: <u>Hooven OH</u>	Manometer (make/model/serial number):
Field Personnel: <u>Matt Mitchell, Ryan Strahman</u>	Weather: <u>overcast</u>
Recorded by: <u>RS</u>	Air Temperature (°C/°F): <u>70</u>
	Atmospheric Pressure (in. Hg):

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>+ 0.25</u>	Time: <u>1648</u>	Start Time of Pneumatic Testing:		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1648</u>	1	100	-0.01
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1220</u>	1	200	-0.14
Prior to Sample Collection	OK <input type="checkbox"/> @	1	500	-0.50

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
						0	3.4	15.4	0			0
9/30/09	1221	1226	5	1	0.2	0	3.5	14.6	1.1	16.2	22.2	0
9/30/09	1226	1231	5	1	0.2	0	2.0	17.2	0.7	11.3	28.1	0
9/30/09	1231	1236	5	1	0.2	0	4.1	13.8	0.8	21.7	27.7	0
9/30/09	1236	1241	5	1	0.2	0	3.7	14.2	0.8	17.7	24.5	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
9/30/09	1250	VW-93(30), 093009	93109	FC00724	—	-28.59	-4.96		31.3

Comments:



# SOIL VAPOR FIELD FORM



Well ID VW 93 (35)

Sub-slab Probe  Nested Probe

Date: <u>Sept 29/09</u>	PID (make/model/serial number): <u>Mini Rae 2000 .110-007718</u>
Project Name: <u>Hooven VI</u>	Landtech (model/serial number): <u>500 EB65705</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MGD 2002 US0826X</u>
Site Location: <u>Hooven, OH</u>	Manometer (make/model/serial number): <u>—</u>
Field Personnel: <u>Matt Mitchell, Ryan Strohmayer</u>	Weather: <u>overcast</u>
Recorded by: <u>RS</u>	Air Temperature (°C/F): <u>70</u>
	Atmospheric Pressure (in. Hg):

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>-1.73</u>	Time: <u>1649</u>	Start Time of Pneumatic Testing:		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input type="checkbox"/> @		100	-0.13
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1358</u>		200	-0.23
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @		500	-0.68

*water in line*

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
9/30/09	1400	1405	5	1	0.2	0	4.2	11.8	1.2	18.9	39.1	0
9/30/09	1405	1410	5	1	0.2	0	3.7	13.3	0.6	15.1	22.3	0
9/30/09	1410	1415	5	1	0.2	0	4.6	11.8	0.7	13.4	28.4	0
9/30/09	1415	1420	5	1	0.2	0	4.1	12.5	0.6	13.6	32.5	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
9/30/09	1424	VW-93(35)093009	35549	00006673	—	-29.01	-4.63	18.4	24.0

Comments:

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# SOIL VAPOR FIELD FORM



Well ID VW 93(40)

Sub-slab Probe  Nested Probe

Date: <u>Sept 29 / 09</u>	PID (make/model/serial number): <u>MiniRac 2900 110-007718</u>
Project Name: <u>Chertron Cincinnati</u>	Landtech (model/serial number): <u>500 E1365105</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>M6D 2002 452826X</u>
Site Location: <u>HOVEN VI</u>	Manometer (make/model/serial number): <u>—</u>
Field Personnel: <u>Matt Mitchell / Ryan Strahman</u>	Weather: <u>Overcast</u>
Recorded by: <u>Matt Mitchell</u>	Air Temperature (°C/°F): <u>58°</u>
Atmospheric Pressure (in. Hg):	

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>-0.04</u>	Time: <u>1650</u>	Start Time of Pneumatic Testing:		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1650</u>	<u>1</u>	<u>100</u>	<u>-0.20</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1435</u>	<u>1</u>	<u>200</u>	<u>-0.26</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1455</u>	<u>1</u>	<u>500</u>	<u>-0.80</u>

*boiling*

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
						<u>0</u>	<u>3.7</u>	<u>12.2</u>	<u>0.9</u>			<u>0</u>
<u>9/30/09</u>	<u>1440</u>	<u>1445</u>	<u>5</u>	<u>1</u>	<u>0.2</u>	<u>0</u>	<u>4.9</u>	<u>9.6</u>	<u>1.1</u>	<u>14.2</u>	<u>22.6</u>	<u>0</u>
<u>9/30/09</u>	<u>1445</u>	<u>1450</u>	<u>5</u>	<u>1</u>	<u>0.2</u>	<u>0</u>	<u>4.6</u>	<u>9.7</u>	<u>1.7</u>	<u>16.8</u>	<u>30.3</u>	<u>0</u>
<u>9/30/09</u>	<u>1450</u>	<u>1455</u>	<u>5</u>	<u>1</u>	<u>0.2</u>	<u>0</u>	<u>4.9</u>	<u>9.8</u>	<u>1.0</u>	<u>16.5</u>	<u>22.9</u>	<u>0</u>
										<u>14.9</u>		

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>9/30/09</u>	<u>1500</u>	<u>VW-93(40) 093009</u>	<u>2120</u>	<u>FC00843</u>	<u>—</u>	<u>-29.11</u>	<u>-3.78</u>	<u>15.4</u>	<u>34.9</u>

Comments:

# SOIL VAPOR FIELD FORM



Well ID VW-93(45)  Sub-slab Probe  Nested Probe

Date: <u>Sept 29/09</u>	PID (make/model/serial number): <u>MiniRac 2000 110-007718</u>
Project Name: <u>Hoover VE</u>	Landtech (model/serial number): <u>500 F1365105</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>M60 2002 452926x</u>
Site Location: <u>Hoover, OH</u>	Manometer (make/model/serial number):
Field Personnel: <u>Matt Mitchell / Ryan Strohmayer</u>	Weather: <u>Overcast</u>
Recorded by: <u>Matt Mitchell</u>	Air Temperature (°C/°F): <u>58°</u>
	Atmospheric Pressure (in. Hg):

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>+0.05</u>	Time: <u>1651</u>	Start Time of Pneumatic Testing:		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input type="checkbox"/> @	1	100	-0.12
Prior to Purge	OK <input type="checkbox"/> @	1	200	-0.25
Prior to Sample Collection	OK <input type="checkbox"/> @	1	500	-0.77

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
		<u>Pneumatic</u>				0.0	4.3	12.3	0		<del>30.4</del>	0
9/30/09	1512	1517	5	1	0.2	0.0	6.2	6.1	6.2	15.7	30.4	0
9/30/09	1517	1522	5	1	0.2	0.0	6.3	6.4	1.6	11.2	28.9	0
9/30/09	1522	1527	5	1	0.2	0.0	6.3	6.4	1.1	21.8	24.8	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
9/30/09	1530	VW-93(45), 093009	9331	FC00825	—	-29.08	-4.52	22.1	27.8

Comments:

# SOIL VAPOR FIELD FORM



Well ID UW 93 (50)

Sub-slab Probe  Nested Probe

Date: <u>Sept 29/09</u>	PID (make/model/serial number): <u>MiniRAE 2000 110-007718</u>
Project Name: <u>HOOVER VE</u>	Landtech (model/serial number): <u>500 E 136105</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MGD 2002 452824X</u>
Site Location: <u>HOOVER, OH</u>	Manometer (make/model/serial number):
Field Personnel: <u>MATT MITCHELL / RYAN STOKMAIER</u>	Weather: <u>overcast</u>
Recorded by: <u>MATT MITCHELL</u>	Air Temperature (°C/°F): <u>65°</u>
	Atmospheric Pressure (in. Hg):

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>40.00</u>	Time: <u>1652</u>	Start Time of Pneumatic Testing:		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1652</u>	1	100	-0.01
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1540</u>	1	0.200	-0.09
Prior to Sample Collection	OK <input type="checkbox"/> @ <u>1645</u>	1	0.500	-0.47

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
				<u>pneumatic</u>		0	3.3	13.8	0.0	<del>24.2</del>	<del>28.2</del>	0
<u>9/30/09</u>	<u>1540</u>	<u>1545</u>	<u>5</u>	<u>1</u>	<u>0.2</u>	<u>0</u>	<u>3.3</u>	<u>15.6</u>	<u>0.9</u>	<u>20.2</u>	<u>28.2</u>	<u>0</u>
<u>9/30/09</u>	<u>1545</u>	<u>1550</u>	<u>5</u>	<u>1</u>	<u>0.2</u>	<u>0</u>	<u>3.1</u>	<u>16.2</u>	<u>1.1</u>	<u>16.8</u>	<u>20.2</u>	<u>0</u>
<u>9/30/09</u>	<u>1550</u>	<u>1555</u>	<u>5</u>	<u>1</u>	<u>0.2</u>	<u>0</u>	<u>3.0</u>	<u>16.6</u>	<u>0.8</u>	<u>15.4</u>	<u>18.2</u>	<u>0</u>

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>9/30/09</u>	<u>1600</u>	<u>VW 93(50)093009</u>	<u>94917</u>	<u>FC00866</u>	<u>-</u>	<u>26.86</u>	<u>3.22</u>	<u>11.8</u>	<u>23.2</u>
	<u>1646</u>	<u>UW 93(50)093009</u>	<u>25291</u>	<u>FC 00 578</u>	<u>-</u>	<u>29.00</u>	<u>4.92</u>	<u>10.2</u>	<u>19.6</u>
		<u>BDA-093009</u>	<u>21021</u>	<u>FC 00 578</u>	<u>-</u>	<u>29.10</u>	<u>5.12</u>	<u>10.2</u>	<u>19.6</u>

Comments:

# SOIL VAPOR FIELD FORM



Well ID UW 93 (55)

Sub-slab Probe  Nested Probe

Date: <u>Sept 29/09</u>	PID (make/model/serial number): <u>Mini Rae 2000 110-007718</u>
Project Name: <u>Heaven UP</u>	Landtech (model/serial number): <u>500 E1365105</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MGD 2002 452826X</u>
Site Location: <u>Heaven, OH</u>	Manometer (make/model/serial number): _____
Field Personnel: <u>Matt Mitchell, Ryan Stronman</u>	Weather: <u>Overcast</u>
Recorded by: <u>RS</u>	Air Temperature (°C/°F): <u>70</u>
	Atmospheric Pressure (in. Hg): _____

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>0</u>	Time: <u>1653</u>	Start Time of Pneumatic Testing:		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1652</u>		<u>100</u>	<u>-0.15</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1608</u>		<u>200</u>	<u>-0.32</u>
Prior to Sample Collection	OK <input type="checkbox"/> @ _____		<u>500</u>	<u>-0.90</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
						<u>0</u>	<u>4.5</u>	<u>13.3</u>	<u>1.5</u>			<u>0</u>
<u>Sept 29/09</u>	<u>1608</u>	<u>1617</u>	<u>1618-5</u>	<u>1</u>	<u>0.2</u>	<u>0</u>	<u>6.9</u>	<u>4.8</u>	<u>1.2</u>	<u>14.2</u>	<u>34.2</u>	<u>0</u>
	<u>1618</u>	<u>1623</u>	<u>5</u>	<u>1</u>	<u>0.2</u>	<u>0</u>	<u>7.0</u>	<u>4.4</u>	<u>1.1</u>	<u>10.6</u>	<u>24.8</u>	<u>0</u>
	<u>1623</u>	<u>1628</u>	<u>5</u>	<u>1</u>	<u>0.2</u>	<u>0</u>	<u>7.5</u>	<u>3.9</u>	<u>0.9</u>	<u>12.8</u>	<u>23.2</u>	<u>0</u>

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>Sept 30</u>	<u>1635</u>	<u>UW 93(55)093009</u>	<u>97108</u>	<u>40826</u>	<u>-</u>	<u>28.54</u>	<u>4.57</u>	<u>10.5</u>	<u>14.8</u>

Comments:

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# SOIL VAPOR FIELD FORM

Well ID VW 93 (60)  Sub-slab Probe

Date: <u>Sept 29 / 09</u>	PID (make/model/serial number): <u>mini Rae 300 110-007718</u>
Project Name: <u>Hooven UT</u>	Landtech (model/serial number): <u>500 F1365105</u>
Project Number: <u>520-016-012</u>	Helium Detector (make/model/serial number): <u>AGD 2002 452826x</u>
Site Location: <u>Hooven 10H</u>	Manometer (make/model/serial number): _____
Field Personnel: <u>Ryan Strickmaier</u>	Weather: <u>overcast</u>
Recorded by: <u>RS</u>	Air Temperature (°C/°F): <u>70</u>
	Atmospheric Pressure (in. Hg): _____

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>-0.29</u>	Time: <u>1653</u>	Start Time of Pneumatic Testing: _____		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (i)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1653</u>	1	100	-0.16
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1659</u>	1	200	-0.33
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1721</u>	1	500	-0.97

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Hel P Int
										Min	Max	
			<u>Pneumatic</u>			0.0	4.6	12.1	3.7			
Sept 30	1700	1705	5	1	0.2	0.0	6.5	4.8	1.7	13.2	22.6	
	1705	1710	5	1	0.2	0.0	5.7	7.3	1.2	10.3	32.2	
	1710	1715	5	1	0.2	0.0	7.5	2.3	1.1	18.7	21.3	
	1715	1720	5	1	0.2	0.0	7.6	2.3	1.1	15.7	18.5	

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium be Shroud
								Min
Sept 30	1722	VW 93(60)093009	9443 <del>84</del>	FC00593	—	29.05	4.75	11.7

Comments:

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# SOIL VAPOR FIELD FORM



Well ID UW 96(05)

Sub-slab Probe  Nested Probe

Date: <u>Oct 2/09</u>	PID (make/model/serial number): <u>Mini Rae 2000 110-007718</u>
Project Name: <u>Hoover UF</u>	Landtech (model/serial number): <u>500 - E1365105</u>
Project Number: <u>500-016-01A</u>	Helium Detector (make/model/serial number): <u>1160 2002 452826X</u>
Site Location: <u>Hoover, OH</u>	Manometer (make/model/serial number): _____
Field Personnel: <u>Matt Mitchell, Ryan Strickman</u>	Weather: <u>sunny</u>
Recorded by: <u>RS</u>	Air Temperature (°C/°F): <u>74</u>
	Atmospheric Pressure (in. Hg): _____

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>0.01</u>	Time: <u>1256</u>	Start Time of Pneumatic Testing: <u>1256</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1256</u>		<u>100</u>	<u>0.03</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1307</u>		<u>200</u>	<u>0.05</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1332</u>		<u>500</u>	<u>0.19</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
<u>10/2/09</u>		<u>Pneumatic</u>				<u>18.7</u>	<u>9.4</u>	<u>3.4</u>	<u>247</u>	—	—	<u>0.03</u>
	<u>1308</u>	<u>1315</u>	<u>7</u>	<u>1.4</u>	<u>0.2</u>	<u>9.2</u>	<u>10.0</u>	<u>2.2</u>	<u>167</u>	<u>10</u>	<u>16</u>	<u>0</u>
	<u>1305</u>	<u>1322</u>	<u>7</u>	<u>2.814</u>	<u>0.2</u>	<u>9.5</u>	<u>10.6</u>	<u>6.3</u>	<u>165</u>	<u>11</u>	<u>24</u>	<u>0</u>
	<u>1322</u>	<u>1329</u>	<u>7</u>	<u>1.4</u>	<u>0.2</u>	<u>9.1</u>	<u>10.6</u>	<u>1.0</u>	<u>148</u>	<u>12.3</u>	<u>16.7</u>	<u>0</u>

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>02/09</u>	<u>1333</u>	<u>UW 96(05)100201</u>	<u>34084</u>	<u>FC00674</u>	—	<u>-28.5</u>	<u>-1.25</u>	<u>10.0</u>	<u>21.0</u>

Comments:

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# SOIL VAPOR FIELD FORM



Well ID 96(10)

Sub-slab Probe  Nested Probe

Date: <u>10/01/09</u>	PID (make/model/serial number): <u>Mini Rae 200 110-007218</u>
Project Name: <u>Hoover UI</u>	Landtech (model/serial number): <u>500 E1365105</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>HL60 2002 452806X</u>
Site Location: <u>Hoover, OH</u>	Manometer (make/model/serial number): _____
Field Personnel: <u>Matt Mitchell, Ryan Strahman</u>	Weather: <u>Overcast</u>
Recorded by: <u>RS</u>	Air Temperature (°C/°F): <u>70</u>
	Atmospheric Pressure (in. Hg): _____

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>0.38</u>	Time: <u>1050</u>	Start Time of Pneumatic Testing: <u>1051</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1050</u>	<u>1</u>	<u>100</u>	<u>0.42</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1257</u>	<u>1</u>	<u>200</u>	<u>0.51</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1330</u>	<u>1</u>	<u>500</u>	<u>0.80</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
<u>10/01/09</u>	<u>pneumatic</u>					<u>10.1</u>	<u>7.8</u>	<u>7.5</u>	<u>100</u>			<u>70.5</u>
<u>10/1/09</u>	<u>1258</u>	<u>1305</u>	<u>7</u>	<u>1.46</u>	<u>0.2</u>	<u>38.4</u>	<u>9.9</u>	<u>1.9</u>	<u>196</u>	<u>17.1</u>	<u>21.0</u>	<u>0.12</u>
<u>10/1/09</u>	<u>1305</u>	<u>1312</u>	<u>7</u>	<u>2.8</u>	<u>0.2</u>	<u>18.0</u>	<u>9.9</u>	<u>1.4</u>	<u>124</u>	<u>13.0</u>	<u>21.3</u>	<u>0.05</u>
<u>10/1/09</u>	<u>1312</u>	<u>1319</u>	<u>7</u>	<u>4.2</u>	<u>0.2</u>	<u>22.4</u>	<u>10.8</u>	<u>0.2</u>	<u>141</u>	<u>18.2</u>	<u>20.8</u>	<u>0.09</u>
<u>10/1/09</u>	<u>1311</u>	<u>1326</u>	<u>7</u>	<u>5.6</u>	<u>0.2</u>	<u>19.4</u>	<u>10.8</u>	<u>0.2</u>	<u>120</u>	<u>14.7</u>	<u>19.8</u>	<u>0.01</u>

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>10/1/09</u>	<u>1330</u>	<u>vw-96(10)100109</u>	<u>24403</u>	<u>FC00364</u>	<u>—</u>	<u>-27.32</u>	<u>-2.71</u>	<u>&gt;10</u>	<u>&lt;20</u>

Comments: \* not enough volume

He never died during sampling



# SOIL VAPOR FIELD FORM



Well ID 96(15)

Sub-slab Probe  Nested Probe

Date: <u>10/11/09</u>	PID (make/model/serial number): <u>Mini Rae 700 110-007718</u>
Project Name: <u>Aspen VF</u>	Landtech (model/serial number): <u>500 EI36505</u>
Project Number: <u>500-016-010</u>	Helium Detector (make/model/serial number): <u>MGD 2002 457826X</u>
Site Location: <u>Aspen OH</u>	Manometer (make/model/serial number): _____
Field Personnel: <u>Matt Mitchell, Ryan Strahmeyer</u>	Weather: <u>overcast</u>
Recorded by: <u>RS</u>	Air Temperature (°C/°F): <u>70</u>
	Atmospheric Pressure (in. Hg): _____

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>-0.34</u>	Time: <u>1100</u>	Start Time of Pneumatic Testing: <u>1100</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1100</u>		<u>100</u>	<u>0.54</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1340</u>		<u>200</u>	<u>0.90</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1404</u>		<u>500</u>	<u>2.64</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
<u>10/11/09</u>						<u>8.4</u>	<u>10.0</u>	<u>3.1</u>	<u>82.6</u>			<u>0.25 ppmv</u>
<u>10/11/09</u>	<u>1340</u>	<u>1347</u>	<u>7</u>	<u>1.4</u>	<u>0.2</u>	<u>12.8</u>	<u>10.1</u>	<u>0.8</u>	<u>94.3</u>	<u>18.3</u>	<u>22.5</u>	<u>0.04</u>
<u>10/11/09</u>	<u>1347</u>	<u>1354</u>	<u>7</u>	<u>1.4</u>	<u>0.2</u>	<u>10.6</u>	<u>10.0</u>	<u>0.5</u>	<u>79.7</u>	<u>12.3</u>	<u>18.3</u>	<u>0.04</u>
<u>10/11/09</u>	<u>1354</u>	<u>1401</u>	<u>7</u>	<u>1.4</u>	<u>0.2</u>	<u>10.6</u>	<u>10.1</u>	<u>0.4</u>	<u>79.7</u>	<u>28.0</u>	<u>30.6</u>	<u>0</u>

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>10/11/09</u>	<u>1405</u>	<u>Vm-96(15);00109</u>	<u>94918</u>	<u>6841</u>	<u>-</u>	<u>-29.78</u>	<u>-4.18</u>	<u>13.1</u>	<u>22.2</u>

Comments: He never Binary did used for test<sup>only</sup> after 2nd reading

# SOIL VAPOR FIELD FORM



Well ID 96(20)

Sub-slab Probe  Nested Probe

Date: <u>10/01/09</u>	PID (make/model/serial number): <u>Mini Rae 3000 110-007718</u>
Project Name: <u>Hoover UT</u>	Landtech (model/serial number): <u>500 E1365105</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>HGD 2002 452726X</u>
Site Location: <u>Hoover, OH</u>	Manometer (make/model/serial number): _____
Field Personnel: <u>Matt Mitchell, Ryan Stohmaier</u>	Weather: <u>overcast</u>
Recorded by: <u>RS</u>	Air Temperature (°C/F): <u>70</u>
	Atmospheric Pressure (in. Hg): _____

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial  Pressure  Vacuum (in. H<sub>2</sub>O): 1109 Time: 1109 Start Time of Pneumatic Testing: 1110

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1109</u>	<u>100</u>	<u>100</u>	<u>0.54</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1414</u>	<u>200</u>	<u>200</u>	<u>0.71</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1436</u>	<u>500</u>	<u>500</u>	<u>1.32</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
<u>10/01/09</u>	<u>pneumatic test</u>			—	—	<u>9.2</u>	<u>9.9</u>	<u>2.3</u>	<u>81.7</u>	—		<u>3000 ppm</u>
<u>10/01/09</u>	<u>1414</u>	<u>1421</u>	<u>7</u>	<u>1.4</u>	<u>0.2</u>	<u>11.8</u>	<u>9.3</u>	<u>1.1</u>	<u>76.9</u>	<u>43.5</u>	<u>49.1</u>	<u>0.09</u>
<u>10/1/09</u>	<u>1421</u>	<u>1426</u>	<u>5</u>	<u>2.4</u>	<u>0.2</u>	<u>13.1</u>	<u>10.1</u>	<u>0.0</u>	<u>76.9</u>	<u>0</u>	<u>0</u>	<u>#</u>
<u>10/1/09</u>	<u>1427</u>	<u>1432</u>	<u>5</u>	<u>3.4</u>	<u>0.2</u>	<u>13.1</u>	<u>10.0</u>	<u>0.1</u>	<u>76.9</u>	<u>0</u>	<u>0</u>	<u>#</u>

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>10/1/09</u>	<u>1437</u>	<u>VW-96(20), 10000</u>	<u>2-2959</u>	<u>FC00165</u>		<u>-28.55</u>	<u>-3.33</u>	<u>21.9</u>	<u>27.2</u>

Comments: The new battery died after 1st reading used for sampling only

# SOIL VAPOR FIELD FORM



Well ID 96(25)

Sub-slab Probe  Nested Probe

Date: <u>10/01/09</u>	PID (make/model/serial number): <u>Mini Rae 3000 110-007718</u>
Project Name: <u>Hooven VI</u>	Landtech (model/serial number): <u>S20 F1365105</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>M60 2002 452826X</u>
Site Location: <u>Hooven, OH</u>	Manometer (make/model/serial number): _____
Field Personnel: <u>Matt Mitchell, Ryan Strubmer</u>	Weather: <u>Overcast</u>
Recorded by: <u>MS</u>	Air Temperature (°C/F): <u>70</u>
Atmospheric Pressure (in. Hg): _____	

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>0.44</u>	Time: <u>1117</u>	Start Time of Pneumatic Testing: <u>1118</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1117</u>		<u>100</u>	<u>0.61</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1450</u>		<u>200</u>	<u>0.88</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1525</u>		<u>500</u>	<u>2.62</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
<u>10/01/09</u>	<u>pneumatic test</u>					<u>19.0</u>	<u>8.4</u>	<u>2.8</u>	<u>52.6</u>	<u>—</u>		<u>13.0</u>
<u>10/1/09</u>	<u>1450</u>	<u>1457</u>	<u>7</u>	<u>1.4</u>	<u>0.2</u>	<u>24.8</u>	<u>8.7</u>	<u>0.8</u>	<u>60.8</u>	<u>41.2</u>	<u>53.3</u>	<u>2.1</u>
<u>10/1/09</u>	<u>1457</u>	<u>1502</u>	<u>5</u>	<u>2.4</u>	<u>0.2</u>	<u>22.8</u>	<u>7.0</u>	<u>3.4</u>	<u>52.8</u>	<u>0</u>	<u>0</u>	<u>2.1</u>
<u>10/1/09</u>	<u>1502</u>	<u>1507</u>	<u>5</u>	<u>3.4</u>	<u>0.2</u>	<u>27.1</u>	<u>8.5</u>	<u>0.5</u>	<u>83.9</u>	<u>0</u>	<u>0</u>	<u>2.1</u>
<u>10/1/09</u>	<u>1507</u>	<u>1512</u>	<u>5</u>	<u>4.4</u>	<u>0.2</u>	<u>26.4</u>	<u>8.0</u>	<u>1.9</u>	<u>63.9</u>	<u>0</u>	<u>0</u>	<u>2.1</u>
<u>10/1/09</u>	<u>1512</u>	<u>1517</u>	<u>5</u>	<u>5.4</u>	<u>0.2</u>	<u>31.0</u>	<u>9.0</u>	<u>0.0</u>	<u>69.9</u>	<u>0</u>	<u>0</u>	<u>2.1</u>
<u>10/1/09</u>	<u>1517</u>	<u>1522</u>	<u>5</u>	<u>6.4</u>	<u>0.2</u>	<u>30.9</u>	<u>8.8</u>	<u>0.2</u>	<u>65.1</u>	<u>0</u>	<u>0</u>	<u>2.1</u>

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>10/1/09</u>	<u>1525</u>	<u>vw-96(25)-000109</u>	<u>2167</u>	<u>FC00077</u>	<u>—</u>	<u>-28.61</u>	<u>-8.04</u>	<u>20.2</u>	<u>35.8</u>

Comments: He never dead used for sampling only after 2nd reading

# SOIL VAPOR FIELD FORM



Well ID 96(30)

Sub-slab Probe  Nested Probe

Date: <u>10/01/09</u>	PID (make/model/serial number): <u>Mini Rae 2000 (10-00778)</u>
Project Name: <u>Hooven UT</u>	Landtech (model/serial number): <u>500 E1365705</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MGA 2002 452826x</u>
Site Location: <u>Hooven, OH</u>	Manometer (make/model/serial number): _____
Field Personnel: <u>Matt Mitchell, Ryan Strubmeister</u>	Weather: <u>overcast</u>
Recorded by: <u>RS</u>	Air Temperature (°C/°F): <u>70</u>
Atmospheric Pressure (in. Hg): _____	

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>0.02</u>	Time: <u>1129</u>	Start Time of Pneumatic Testing: _____		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1129</u>	<u>1</u>	<u>0.1</u>	<u>-0.12</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1541</u>	<u>1</u>	<u>0.2</u>	<u>-0.21</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1611</u>	<u>1</u>	<u>0.5</u>	<u>-0.58</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
<u>10/01/09</u>		<u>Pneumatic</u>	<u>7</u>	<u>test</u>	<u>-</u>	<u>26.0</u>	<u>6.7</u>	<u>6.7</u>	<u>92</u>	<u>-</u>	<u>-</u>	<u>29.0 @ 1611</u>
<u>10/1/09</u>	<u>1542</u>	<u>1549</u>	<u>7</u>	<u>1.4</u>	<u>0.2</u>	<u>43.6</u>	<u>9.0</u>	<u>1.3</u>	<u>91.6</u>	<u>20.2</u>	<u>38.1</u>	<u>2.3</u>
<u>10/1/09</u>	<u>1549</u>	<u>1556</u>	<u>7</u>	<u>3.4</u>	<u>0.2</u>	<u>43.6</u>	<u>8.6</u>	<u>2.0</u>	<u>92</u>	<u>*</u>	<u>-</u>	<u>2.4</u>
	<del><u>1556</u></del>	<del><u>1603</u></del>	<del><u>7</u></del>	<del><u>8.5</u></del>	<del><u>0.2</u></del>	<del><u>43.4</u></del>	<del><u>8.8</u></del>	<del><u>1.3</u></del>	<del><u>91</u></del>	<del><u>-</u></del>	<del><u>-</u></del>	<del><u>-</u></del>
	<u>1556</u>	<u>1603</u>	<u>7</u>	<u>8.5</u>	<u>0.2</u>	<u>43.4</u>	<u>8.8</u>	<u>1.3</u>	<u>91</u>	<u>-</u>	<u>-</u>	<u>-</u>
	<u>1603</u>	<u>1610</u>	<u>7</u>	<u>5.9</u>	<u>0.2</u>	<u>42.8</u>	<u>8.5</u>	<u>2.3</u>	<u>89</u>	<u>-</u>	<u>-</u>	<u>-</u>

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>10/1/09</u>	<u>1612</u>	<u>UV96(30)100109</u>	<u>33733</u>	<u>EC00349</u>	<u>-</u>	<u>29.01</u>	<u>2.72</u>	<u>10.3</u>	<u>18</u>

Comments: \* He Meter battery dead, ~~was~~ charging + using for first bag reading + during sampling

# SOIL VAPOR FIELD FORM



Well ID 96 (35)

Sub-slab Probe  Nested Probe

Date: <u>10/01/09</u>	PID (make/model/serial number): <u>Mini Rae 3000 (10-007718)</u>
Project Name: <u>Hansen UE</u>	Landtech (model/serial number): <u>500 E1365705</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MGD 3000 452826x</u>
Site Location: <u>Hansen OH</u>	Manometer (make/model/serial number):
Field Personnel: <u>Matt Mitchell, Ryan Strohmeyer</u>	Weather: <u>overcast</u>
Recorded by: <u>RS</u>	Air Temperature (°C/°F): <u>70</u>
	Atmospheric Pressure (in. Hg):

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input type="checkbox"/> Pressure <input checked="" type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>-0.02</u>	Time: <u>1137</u>	Start Time of Pneumatic Testing:		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input type="checkbox"/> @ <u>1137</u>	1	0.1	0.12
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1620</u>	1	0.2	0.25
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1654</u>	1	0.5	0.63

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
10/01/09						30.0	7.0	6.2	98.1	—	—	2.3
	1623	1630	7	1.4	0.2	54.4	9.1	1.7	90.0	28.2	30.7	2.5
	1630	1637	7	2.8	0.2	48.0	8.1	3.7	89.0	—	—	2.5
x	1637	1644	7	4.2	0.2	61.6	9.9	0.2	7.0	—	—	—
*	1645	1652	7	5.8	0.2	62.0	10.0	0	4.5	—	—	—

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
10/01/09	1654	UW 96(35)100109	34601	FC00398	—	-28.34	-1.96	18.6	42.7
		BD-2-100109	34600	FC00398	—	-29.21	-2.01	"	"

Comments: \* potential PID error

# SOIL VAPOR FIELD FORM



Well ID 96(40)

Sub-slab Probe  Nested Probe

Date: <u>10/01/09</u>	PID (make/model/serial number): <u>Mini Rae 200 110-007718</u>
Project Name: <u>Hooven UI</u>	Landtech (model/serial number): <u>500 E1365705</u>
Project Number: <u>500-016-010</u>	Helium Detector (make/model/serial number): <u>MCD 2002 452826x</u>
Site Location: <u>Hooven off</u>	Manometer (make/model/serial number): _____
Field Personnel: <u>Matt Mitchell, Ryan Stohmanier</u>	Weather: <u>overcast</u>
Recorded by: <u>RS</u>	Air Temperature (°C/°F): <u>70</u>
	Atmospheric Pressure (in. Hg): _____

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>0.74</u>	Time: <u>1145</u>	Start Time of Pneumatic Testing: <u>1146</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1145</u>		<u>100</u>	<u>0.12</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1708</u>		<u>300</u>	<u>0.28</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1739</u>		<u>500</u>	<u>0.74</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
<u>10/01/09</u>	<u>pneumatic test</u>					<u>34.0</u>	<u>6.9</u>	<u>7.4</u>	<u>120</u>			<u>2.1</u>
	<u>1708</u>	<u>1715</u>	<u>7</u>	<u>1.4</u>	<u>0.2</u>	<u>68.1</u>	<u>9.7</u>	<u>1.3</u>	<u>116</u>	<u>22.7</u>	<u>60.0</u>	<u>2.6</u>
	<u>1715</u>	<u>1722</u>	<u>7</u>	<u>2.8</u>	<u>0.2</u>	<u>64.3</u>	<u>9.2</u>	<u>2.3</u>	<u>6.2</u>			<u>2.8</u>
	<u>1722</u>	<u>1729</u>	<u>7</u>	<u>9.2</u>	<u>0.2</u>	<u>76.9</u>	<u>10.6</u>	<u>0.1</u>	<u>4.3</u>			
	<u>1729</u>	<u>1736</u>	<u>7</u>	<u>5.4</u>	<u>0.2</u>	<u>75.4</u>	<u>10.3</u>	<u>0.3</u>	<u>115</u>			

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>10/01/09</u>	<u>1740</u>	<u>UV 96(40)00101</u>	<u>24395</u>	<u>FC00145</u>		<u>28.76</u>	<u>-1.23</u>	<u>17.1</u>	<u>22.4</u>

Comments: - no helium, no shroud  
& potential PFD error

# SOIL VAPOR FIELD FORM



Well ID 96(45)

Sub-slab Probe  Nested Probe

Date: <u>10/1/09</u>	PID (make/model/serial number): <u>Mini-Rad 2000 110-00718</u>
Project Name: <u>Hoover VI</u>	Landtech (model/serial number): <u>500 E1365105</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MCD 2002 452825X</u>
Site Location: <u>HOOVER OF</u>	Manometer (make/model/serial number): <u>—</u>
Field Personnel: <u>Matt Mitchell / Ryan Strohmaier</u>	Weather: <u>Sunny</u>
Recorded by: <u>Matt Mitchell</u>	Air Temperature (°C/°F): <u>70</u>
Atmospheric Pressure (in. Hg): <u>—</u>	

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>0.13</u>	Time: <u>1153</u>	Start Time of Pneumatic Testing: <u>1153</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1153</u>	1	0.1	-0.14
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>0952</u>	1	0.2	-0.29
Prior to Sample Collection	OK <input type="checkbox"/> @ <u>—</u>	1	0.5	-0.78

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)	
										Min	Max		
						<u>Pneumatic</u>	<u>58.5</u>	<u>9.4</u>	<u>2.3</u>	<u>115</u>			<u>2.1</u>
<u>Oct 2/09</u>	<u>0952</u>	<u>0959</u>	<u>7</u>	<u>1.4</u>	<u>0.2</u>	<u>70.1</u>	<u>9.0</u>	<u>4.1</u>	<u>122</u>	<u>12.9</u>	<u>24.6</u>	<u>3</u>	
	<u>0959</u>	<u>1006</u>	<u>7</u>	<u>2.8</u>	<u>0.2</u>	<u>88.8</u>	<u>9.0</u>	<u>2.3</u>	<u>133</u>	<u>—</u>	<u>—</u>	<u>3.3</u>	
	<u>1006</u>	<u>1015</u>	<u>9</u>	<u>4.4</u>	<u>0.2</u>	<u>99.9</u>	<u>0</u>	<u>0</u>	<u>130</u>	<u>—</u>	<u>—</u>	<u>3.5</u>	
	<u>1019</u>	<u>1024</u>	<u>5</u>	<u>5.6</u>	<u>0.2</u>	<u>99.9</u>	<u>0</u>	<u>0.5</u>	<u>140</u>	<u>—</u>	<u>—</u>	<u>—</u>	
	<u>1028</u>	<u>1032</u>	<u>5</u>	<u>6.6</u>	<u>0.2</u>	<u>99.3</u>	<u>0.4</u>	<u>0.5</u>	<u>146</u>	<u>—</u>	<u>—</u>	<u>—</u>	

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>10/2/09</u>	<u>1035</u>	<u>VW-96(45), 100209</u>	<u>36472</u>	<u>FC00160</u>	<u>—</u>	<u>-29.03</u>	<u>-2.08</u>	<u>11.8</u>	<u>29.1</u>

Comments: \* methane interference, comparing "He" reading without shroud and He injection.





# SOIL VAPOR FIELD FORM



Well ID 96(SS)

Sub-slab Probe  Nested Probe

Date: <u>10/1/09</u>	PID (make/model/serial number): <u>Mini/AE 2000 110-002718</u>
Project Name: <u>Hoover VI</u>	Landtech (model/serial number): <u>500 E136s 10s</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MGD 2002 45282EX</u>
Site Location: <u>Hoover, OH</u>	Manometer (make/model/serial number): _____
Field Personnel: <u>Matt Mirdell</u>	Weather: <u>Sunny</u>
Recorded by: <u>Matt Mirdell</u>	Air Temperature (°C/°F): <u>75°</u>
	Atmospheric Pressure (in. Hg): _____

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>0.35</u>	Time: <u>1203</u>	Start Time of Pneumatic Testing:		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1203</u>	1	0.1	-0.18
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1035</u>	1	0.2	-0.33
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1105</u>	1	0.5	-0.89

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
						54.4	7.8	4.7	132			2.5
10/2/09	1045	1052	7	1.4	0.2	99.0	0	1.4	146	16.3	30.2	4.3
10/2/09	1052	1059	7	1.4	0.2	99.0	0	1.7	160	0	0	4.1
10/2/09	1059	1104	5	1.0	0.2	99.0	0	0.3	161			

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
10/2/09	1105	VW-96(SS)100209	2176	FC00820		28.99	3.56	10.8	30.2
			<del>2268</del>	<del>FC00303</del>		<del>28.94</del>			

Comments:

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# SOIL VAPOR FIELD FORM



Well ID W96(60)

Sub-slab Probe  Nested Probe

Date: <u>10/1/09</u>	PID (make/model/serial number): <u>Metric 2000 110-007718</u>
Project Name: <u>Hoover VI</u>	Landtech (model/serial number): <u>500-E1365105</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>M60 2002 452826X</u>
Site Location: <u>Hoover, OH</u>	Manometer (make/model/serial number):
Field Personnel: <u>MATT MITCHELL</u>	Weather: <u>Sunny</u>
Recorded by: <u>MATT MITCHELL</u>	Air Temperature (°C/°F): <u>74°</u>
	Atmospheric Pressure (in. Hg):

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>0.12</u>	Time: <u>1209</u>	Start Time of Pneumatic Testing:		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1209</u>	1	0.1	-0.15
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1223</u>	1	0.2	-0.35
Prior to Sample Collection	OK <input type="checkbox"/> @	1	0.5	-1.03

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
						99.9	0.0	3.9	235			3.0
10/2/09	1223	1230	7	1.4	0.2	>100	9.8	3.6	215	11.7	22.0	3.3
10/2/09	1230	1237	7	1.4	0.2	>100	11.9	0.2	236	0	0	3.8
10/2/09	1237	1242	5	1.0	0.2	>100	11.9	0.5	236	0	0	

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
10/2/09	1248	W96(60)100204	3393	FC00838	—	28.41	9.10	15.4	20.2

Comments:

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# SOIL VAPOR FIELD FORM



Well ID UW 99(5A)

Sub-slab Probe  Nested Probe

Date: <u>Oct 2/09</u>	PID (make/model/serial number): <u>minic 2000 110-007718</u>
Project Name: <u>Hoover VA</u>	Landtech (model/serial number): <u>500-51365105</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MC2002 452826X</u>
Site Location: <u>Hoover, OH</u>	Manometer (make/model/serial number): <u>_____</u>
Field Personnel: <u>Matt Mitchell Rym Strohmaier</u>	Weather: <u>Sunny</u>
Recorded by: <u>Matt Mitchell</u>	Air Temperature (°C/°F): <u>70°</u>
Atmospheric Pressure (in. Hg): <u>_____</u>	

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>-0.91</u>	Time: <u>1403</u>	Start Time of Pneumatic Testing:		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1410</u>	<u>1</u>	<u>100</u>	<u>0.0</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1420</u>	<u>1</u>	<u>200</u>	<u>0.02</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1444</u>	<u>1</u>	<u>500</u>	<u>0.17</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
<u>10/2/09</u>			<u>pneumatic</u>			<u>1.5</u>	<u>5.1</u>	<u>5.6</u>	<u>135</u>	<u>_____</u>	<u>_____</u>	<u>0</u>
<u>10/2/09</u>	<u>1420</u>	<u>1425</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>1.3</u>	<u>4.7</u>	<u>6.3</u>	<u>131</u>	<u>13.2</u>	<u>28.2</u>	<u>0</u>
	<u>1425</u>	<u>1430</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>1.3</u>	<u>5.3</u>	<u>4.5</u>	<u>10.5</u>	<u>16.5</u>	<u>28.5</u>	<u>0</u>
	<u>1430</u>	<u>1435</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>1.3</u>	<u>5.0</u>	<u>5.4</u>	<u>10.8</u>	<u>13.6</u>	<u>30.0</u>	<u>0</u>
	<u>1436</u>	<u>1441</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>1.3</u>	<u>5.2</u>	<u>4.5</u>	<u>10.3</u>	<u>16.2</u>	<u>28.3</u>	<u>0</u>

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>Oct 2/09</u>	<u>1445</u>	<u>UW 99(5A)106109</u>	<u>33388</u>	<u>FC00159</u>	<u>—</u>	<u>24.12</u>	<u>3.63</u>	<u>13.5</u>	<u>30.1</u>

Comments:

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# SOIL VAPOR FIELD FORM



Well ID VW-99(10)

Sub-slab Probe  Nested Probe

Date: <u>10/02/09</u>	PID (make/model/serial number): <u>MINI RAE 2000 110-008693</u>
Project Name: <u>HOOPER VI</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>M&amp;D 2002 US3096X</u>
Site Location: <u>HOOPER, OH</u>	Manometer (make/model/serial number): <u>HEISE</u>
Field Personnel: <u>AS, PM</u>	Weather: <u>CLOUDY</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>60°</u>
	Atmospheric Pressure (in. Hg): <u>29.01</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial Pressure/Vacuum (in. H <sub>2</sub> O): <u>0.0</u>	Time: <u>0953</u>	Field Tubing blank reading (ppm): <u>—</u>	Time: <u>—</u>
<b>Shut-in Testing</b>		Start of Pneumatic Testing: <u>0953</u>	
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>0953</u>	Elapsed Time (min)	Pump Flow Rate (LPM)
Prior to Purge	OK <input type="checkbox"/> @	<u>0.5</u>	<u>0.1</u>
Prior to Sample Collection	OK <input type="checkbox"/> @	<u>1.0</u>	<u>0.2</u>
		<u>1.5</u>	<u>0.5</u>
			Well Head Vacuum (in. H <sub>2</sub> O)
			<u>-0.09</u>
			<u>-0.14</u>
			<u>-0.39</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
<u>10/2/09</u>	<u>PNEUMATIC</u>		<u>—</u>	<u>~1.5</u>	<u>—</u>	<u>0.0</u>	<u>0.4</u>	<u>19.7</u>	<u>0</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>10/2/09</u>	<u>1602</u>	<u>1607</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>2.5</u>	<u>7.0</u>	<u>4.1</u>	<u>76.8</u>	<u>12.4</u>	<u>31.8</u>	<u>0</u>
<u>10/2/09</u>	<u>1607</u>	<u>1612</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>2.6</u>	<u>6.9</u>	<u>4.8</u>	<u>6.6</u>	<u>15.1</u>	<u>27.8</u>	<u>0</u>
<u>10/2/09</u>	<u>1612</u>	<u>1617</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>2.4</u>	<u>6.7</u>	<u>4.3</u>	<u>47.6</u>	<u>18.9</u>	<u>29.1</u>	<u>0</u>

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>10/2/09</u>	<u>1625</u>	<u>VW-99(10), 1002<sup>09</sup></u>	<u>2083</u>	<u>FL00793</u>	<u>1029357</u>	<u>29.02</u>	<u>2.5</u>	<u>25.0</u>	<u>40.1</u>

Comments:

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# SOIL VAPOR FIELD FORM



Well ID VW-99(15)

Sub-slab Probe  Nested Probe

Date: <u>10/2/09</u>	PID (make/model/serial number): <u>MINI RAE 2000 110-008693</u>
Project Name: <u>9 HOOVER UI</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>S00-016-012</u>	Helium Detector (make/model/serial number): <u>MWD2000-11530968</u>
Site Location: <u>HOOVER OIL</u>	Manometer (make/model/serial number): <u>H6156</u>
Field Personnel: <u>AS PM</u>	Weather: <u>SUNNY</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>60°</u>
	Atmospheric Pressure (in. Hg): <u>29.01</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial Pressure/Vacuum (in. H <sub>2</sub> O): <u>0.0</u>	Time: <u>0956</u>	Field Tubing blank reading (ppm): <u>—</u>	Time: <u>—</u>
<b>Shut-in Testing</b>		Start of Pneumatic Testing: <u>0956</u>	
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>0956</u>	Elapsed Time (min)	Pump Flow Rate (LPM)
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1533</u>	<u>0.5</u>	<u>0.1</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>—</u>	<u>1.0</u>	<u>0.2</u>
		<u>1.5</u>	<u>0.5</u>
			Well Head Vacuum (in. H <sub>2</sub> O)
			<u>-0.08</u>
			<u>-0.15</u>
			<u>-0.41</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
2009												
10/2	PNEUMATIC		—	~1.5	—	2.1	6.2	6.3	0.0	—	—	—
10/2	1534	1539	5	1.0	0.2	3.4	2.6	14.5	71.5	13.0	25.1	10,300
10/2	1539	1544	5	1.0	0.2	3.2	3.2	13.6	8.3	18.1	28.2	0
10/2	1544	1549	5	1.0	0.2	15.9	9.2	2.2	7.4	NO HELIUM		2325

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
10/2/09	1557	VW-99(15), 100269	2199	6744	1029357	29.03	3.67	17.9	39.2

Comments:



# SOIL VAPOR FIELD FORM



Well ID VW-99(20)

Sub-slab Probe  Nested Probe

Date: <u>10/2/09</u>	PID (make/model/serial number): <u>MWRATE 2000 110-0084693</u>
Project Name: <u>HOOPER HI</u>	Landtech (model/serial number): <u>12029</u>
Project Number: <u>SDD-016-012</u>	Helium Detector (make/model/serial number): <u>MGD 2002 US3096X</u>
Site Location: <u>HOOPER OIL</u>	Manometer (make/model/serial number): <u>HEISE</u>
Field Personnel: <u>AS PM</u>	Weather: <u>CLOUDY</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>60°</u>
	Atmospheric Pressure (in. Hg): <u>29.01</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial Pressure/Vacuum (in. H <sub>2</sub> O): <u>40.0</u>	Time: <u>1003</u>	Field Tubing blank reading (ppm): <u>—</u>	Time: <u>—</u>
<b>Shut-in Testing</b>		Start of Pneumatic Testing: <u>1004</u>	
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1003</u>	Elapsed Time (min)	Pump Flow Rate (LPM)
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1500</u>	<u>0.5</u>	<u>0.1</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1500</u>	<u>1.0</u>	<u>0.2</u>
		<u>1.5</u>	<u>0.5</u>
			Well Head Vacuum (in. H <sub>2</sub> O)
			<u>-0.1</u>
			<u>-0.18</u>
			<u>-0.47</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
10/2	PNEUMATIC	—	—	0.5	—	41.0	11.9	1.5	192	—	—	—
10/2	1502	1507	5	1.0	0.2	40.9	12.1	0.0	264	13.1	49.5	4775
10/2	1507	1516	5	1.0	0.2	48.8	12.4	0.0	190	29.1	50.1	3550
10/2	1519	1523	4	1.2	0.3	49.3	12.5	0.0	322	NO HELIUM		3500

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
10/2/09	1530	VW-99(20), 100209	2219	FLOO564	1029357	29.04	3.39	17.3	38.2

Comments:

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*[Handwritten signatures and initials]*

# SOIL VAPOR FIELD FORM



Well ID VW-99 (25)

Sub-slab Probe  Nested Probe

Date: <u>10/2/09</u>	PID (make/model/serial number): <u>MINI RAC 2000 110-004693</u>
Project Name: <u>HOOVEN VI</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>SOD-016-612</u>	Helium Detector (make/model/serial number): <u>MWD 2002 US3096X</u>
Site Location: <u>HOOVEN OH</u>	Manometer (make/model/serial number): <u>HAISE</u>
Field Personnel: <u>AS PM</u>	Weather: <u>CLOUDY</u>
Recorded by: <u>AC</u>	Air Temperature (°C/°F): <u>60°</u>
	Atmospheric Pressure (in. Hg): <u>29.01</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial Pressure/Vacuum (in. H <sub>2</sub> O): <u>0.00</u>	Time: <u>1006</u>	Field Tubing blank reading (ppm): <u>—</u>	Time: <u>—</u>
<b>Shut-in Testing</b>		Start of Pneumatic Testing: <u>1006</u>	
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1006</u>	Elapsed Time (min)	Pump Flow Rate (LPM)
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1422</u>	<u>0.5</u>	<u>0.1</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1422</u>	<u>1.0</u>	<u>0.2</u>
		<u>1.5</u>	<u>0.5</u>
			<u>-0.19</u>
			<u>-0.54</u>

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
<u>10/2</u>	<u>PNEUMATIC</u>		<u>—</u>	<u>1.5</u>	<u>—</u>	<u>25.8</u>	<u>9.5</u>	<u>2.1</u>	<u>0.0</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>10/2</u>	<u>1424</u>	<u>1429</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>20.4</u>	<u>9.9</u>	<u>25</u>	<u>179</u>	<u>14.7</u>	<u>38.8</u>	<u>4350</u>
<u>10/2</u>	<u>1439</u>	<u>1439</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>22.2</u>	<u>11.7</u>	<u>0.0</u>	<u>0.0</u>	<u>29.8</u>	<u>30.6</u>	<u>1200</u>
<u>10/2</u>	<u>1434</u>	<u>1439</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>22.3</u>	<u>11.2</u>	<u>0.4</u>	<u>227</u>	<u>NO HELIUM</u>		<u>4300</u>
<u>10/2</u>	<u>1442</u>	<u>1447</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>23.2</u>	<u>12.1</u>	<u>0.0</u>	<u>0.0</u>	<u>17.3</u>	<u>22.7</u>	<u>2725</u>

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>10/2/09</u>	<u>1457</u>	<u>VW-99(25), 100209</u>	<u>1450</u>	<u>FC00489</u>	<u>1029357</u>	<u>28.98</u>	<u>2.93</u>	<u>21.3</u>	<u>32.6</u>

Comments:

# SOIL VAPOR FIELD FORM



Well ID VW-99 (30)

Sub-slab Probe  Nested Probe

Date: <u>10/2/09</u>	PID (make/model/serial number): <u>MIWI RAG 2000 110-004693</u>
Project Name: <u>HOOVER 01</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>560-016-612</u>	Helium Detector (make/model/serial number): <u>MHD2002 US3096X</u>
Site Location: <u>HOOVER OH</u>	Manometer (make/model/serial number): <u>HEISE</u>
Field Personnel: <u>AS, PM</u>	Weather: <u>CLOUDY</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>60°</u>
	Atmospheric Pressure (in. Hg): <u>29.01</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial Pressure/Vacuum (in. H <sub>2</sub> O): <u>0.0</u>	Time: <u>1009</u>	Field Tubing blank reading (ppm): <u>-</u>	Time: <u>-</u>
<b>Shut-in Testing</b>		Start of Pneumatic Testing: <u>1009</u>	
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1009</u>	Elapsed Time (min)	Pump Flow Rate (LPM)
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1351</u>	<u>0.5</u>	<u>0.1</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1351</u>	<u>1.0</u>	<u>0.2</u>
			<u>0.5</u>
			<u>-0.11</u>
			<u>-0.21</u>
			<u>-0.54</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
2009												
10/2	PNEUMATIC		-	~1.5	-	37.5	12.6	0.0	193	-	-	-
10/2	1355	1400	5	1.0	0.2	36.4	11.4	0.9	196	16.1	24.1	4900
10/2	1400	1407	7	1.4	0.2	37.3	11.5	0.6	207	26.9	40.3	6625
10/2	1407	1412	5	1.0	0.2	39.5	11.5	0.8	202	NO HELIUM		5200

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
10/2/09	1420	VW-99(30), 100209	30817	FL00857	1029357	29.05	3.98	24.3	29.8
			34668	FL00816	1029357	28.99	5.66		
				DID NOT USE					

Comments: DID NOT USE FL00857





# SOIL VAPOR FIELD FORM



Well ID VW-99(35)

Sub-slab Probe  Nested Probe

Date: <u>10/2/02</u>	PID (make/model/serial number): <u>MINIRAG 2002 110-008693</u>
Project Name: <u>HOOVEN VI</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>S00-016-002</u>	Helium Detector (make/model/serial number): <u>M602002 453096X</u>
Site Location: <u>HOOVEN OH</u>	Manometer (make/model/serial number): <u>HEISE</u>
Field Personnel: <u>AS PM</u>	Weather: <u>PARTLY CLOUDY</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>60°</u>
	Atmospheric Pressure (in. Hg): <u>29.01</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial Pressure/Vacuum (in. H <sub>2</sub> O): <u>±0.01</u>	Time: <u>1011</u>	Field Tubing blank reading (ppm): <u>-</u>	Time: <u>-</u>
<b>Shut-in Testing</b>		Start of Pneumatic Testing: <u>1011</u>	
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1011</u>	Elapsed Time (min)	Pump Flow Rate (LPM)
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1316</u>	<u>0.5</u>	<u>0.1</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1317</u>	<u>1.0</u>	<u>0.2</u>
		<u>1.5</u>	<u>0.5</u>
			<u>-0.12</u>
			<u>-0.25</u>
			<u>-0.65</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
2009												
10/2	PNEUMATIC		-	11.5	-	32.7	12.0	0.2	0	-	-	-
10/2	1318	1323	5	1.0	0.2	5.9	23	17.2	0.6	18.2	48.7	0
10/2	1323	1328	5	1.0	0.2	42.4	10.1	2.2	0.0	19.5	49.3	0
10/2	1334	1339	5	1.0	0.2	44.7	11.2	0.3	0.1	14.7	28.9	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
10/2/09	1348	VW-99(35), 100209	2033	AS FE 6708	1029357	29.04	2.69	13.5	39.9

Comments:

# SOIL VAPOR FIELD FORM



Well ID VW-99(40)

Sub-slab Probe  Nested Probe

Date: <u>10/2/09</u>	PID (make/model/serial number): <u>MLM RAG 2600 110-008693</u>
Project Name: <u>HOOVER VI</u>	Landtech (model/serial number): <u>62029</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MCD2002 U53096X</u>
Site Location: <u>HOOVER OH</u>	Manometer (make/model/serial number): <u>HEISE</u>
Field Personnel: <u>AC PM</u>	Weather: <u>PARTLY CLOUDY</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>60°</u>
	Atmospheric Pressure (in. Hg): <u>29.01</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial Pressure/Vacuum (in. H <sub>2</sub> O): <u>10.62</u>	Time: <u>1013</u>	Field Tubing blank reading (ppm): <u>-</u>	Time: <u>-</u>
<b>Shut-in Testing</b>		Start of Pneumatic Testing: <u>1014</u>	
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1014</u>	Elapsed Time (min)	Pump Flow Rate (LPM)
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1240</u>	<u>0.5</u>	<u>0.1</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1240</u>	<u>1.0</u>	<u>0.2</u>
		<u>1.5</u>	<u>0.5</u>
			<u>-0.11</u>
			<u>-0.23</u>
			<u>-0.69</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
<u>10/2</u>	<u>PNEUMATIC</u>		<u>-</u>	<u>~1.5</u>	<u>-</u>	<u>67.4</u>	<u>11.3</u>	<u>0.0</u>	<u>173</u>	<u>-</u>	<u>-</u>	<u>-</u>
<u>10/2</u>	<u>1240</u>	<u>1245</u>	<u>5</u>	<u>1.0</u>	<u>0.25</u>	<u>71.2</u>	<u>10.7</u>	<u>0.8</u>	<u>230</u>	<u>NO HELIUM</u>		<u>8500</u>
<u>10/2</u>	<u>1245</u>	<u>1250</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>51.2</u>	<u>9.6</u>	<u>2.6</u>	<u>227</u>	<u>40.1</u>	<u>45.7</u>	<u>1825</u>
<u>10/2</u>	<u>1250</u>	<u>1255</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>55.1</u>	<u>10.3</u>	<u>1.3</u>	<u>1.2?</u>	<u>NO HELIUM</u>		<u>0</u>
<u>10/2</u>	<u>1255</u>	<u>1300</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>52.0</u>	<u>10.4</u>	<u>1.0</u>	<u>1.3</u>	<u>31</u>	<u>45</u>	<u>0</u>

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>10/2/09</u>	<u>1314</u>	<u>VW-99(40), 100209</u>	<u>11900</u>	<u>FC00751</u>	<u>1029357</u>	<u>29.03</u>	<u>4.05</u>	<u>254</u>	<u>77.9</u>

Comments:

# SOIL VAPOR FIELD FORM



Well ID VW-99 (45)

Sub-slab Probe  Nested Probe

Date: <u>10/2/09</u>	PID (make/model/serial number): <u>MINI RAG 2000 116-008693</u>
Project Name: <u>HOOVEN VI</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MWD2002 US3096X</u>
Site Location: <u>HOOVEN OH</u>	Manometer (make/model/serial number): <u>H6156</u>
Field Personnel: <u>AS PM</u>	Weather: <u>PARTLY CLOUDY</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>60°</u>
	Atmospheric Pressure (in. Hg): <u>29.03</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial Pressure/Vacuum (in. H <sub>2</sub> O): <u>0.02</u>	Time: <u>1016</u>	Field Tubing blank reading (ppm): <u>-</u>	Time: <u>-</u>
<b>Shut-in Testing</b>		Start of Pneumatic Testing: <u>1016</u>	
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1016</u>	Elapsed Time (min)	Pump Flow Rate (LPM)
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1210</u>	<u>0.5</u>	<u>0.1</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1211</u>	<u>1.0</u>	<u>0.2</u>
		<u>1.5</u>	<u>0.5</u>
			<u>-0.13</u>
			<u>-0.28</u>
			<u>-0.77</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
<u>2009</u>												
<u>10/2</u>	<u>PNEUMATIC</u>			<u>~1.5</u>	<u>-</u>	<u>59.5</u>	<u>11.3</u>	<u>0.0</u>	<u>202</u>	<u>-</u>	<u>-</u>	<u>-</u>
<u>10/2</u>	<u>1214</u>	<u>1220</u>	<u>6</u>	<u>21</u>	<u>0.175</u>	<u>38.6</u>	<u>8.6</u>	<u>3.6</u>	<u>317</u>	<u>No Helium</u>		<u>4850</u>
<u>10/2</u>	<u>1220</u>	<u>1225</u>	<u>5</u>	<u>21</u>	<u>0.200</u>	<u>49.8</u>	<u>8.7</u>	<u>3.5</u>	<u>281</u>	<u>16.9</u>	<u>18.0</u>	<u>250</u>
<u>10/2</u>	<u>1226</u>	<u>1231</u>	<u>5</u>	<u>21</u>	<u>0.200</u>	<u>76.6</u>	<u>11.3</u>	<u>0.0</u>	<u>217</u>	<u>No Helium</u>		<u>6825</u>

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>10/2/09</u>	<u>1238</u>	<u>VW-99(45), 105209</u>	<u>2032</u>	<u>FC00153</u>	<u>1029357</u>	<u>29.02</u>	<u>4.24</u>	<u>15.4</u>	<u>24.2</u>

Comments:

# SOIL VAPOR FIELD FORM



VW-99(50)

Well ID ~~VW-60~~ <sup>K3</sup> VW-99(60)  Sub-slab Probe  Nested Probe

Date: 10/2/09	PID (make/model/serial number): MINIRAC 2000 110-008693
Project Name: HOOVEN VI	Landtech (model/serial number): 02029
Project Number: 500-016-012	Helium Detector (make/model/serial number): MH02002 U53096X
Site Location: HOOVEN OH	Manometer (make/model/serial number): HELSE
Field Personnel: AS PM	Weather: PARTLY CLOUDY
Recorded by: AS	Air Temperature (°C/°F): 60°
	Atmospheric Pressure (in. Hg): 29.03

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial Pressure/Vacuum (in. H <sub>2</sub> O): +0.02	Time: 1024	Field Tubing blank reading (ppm): -	Time: -
<b>Shut-in Testing</b>		Start of Pneumatic Testing: 1024	
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ 1024	Elapsed Time (min)	Pump Flow Rate (LPM)
Prior to Purge	OK <input checked="" type="checkbox"/> @ 1033	0.5	0.1
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @	1.0	0.2
		1.5	0.5
			Well Head Vacuum (in. H <sub>2</sub> O)
			-0.15
			-0.32
			-0.86

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
2009												
10/2	PNEUMATIC			~1.5	-	76.9	12.4	0.0	286	-	-	-
10/2	1037	1042	5	1.0	0.2	89.5	11.9	0.0	266	20.2	44.4	0
10/2	1042	1047	5	1.0	0.2	91.2	12.1	0.0	276	25.4	37.8	5200
10/2	1047	1052	5	1.0	0.2	94.1	11.8	0.0	284	NO HELIUM		12,200

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
10/2/2009	1108	VW-99(60), 100209	9353	FL00280	1029357	28.97		30.5	36.2
									46.1

Comments:

# SOIL VAPOR FIELD FORM



Well ID VW-99 (SS)

Sub-slab Probe  Nested Probe

Date: <u>10/2/09</u>	PID (make/model/serial number): <u>MINI RAB 2000 110-008693</u>
Project Name: <u>HOOVER VI</u>	Landtech (model/serial number): <u>62029</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MWD 2002 US3096X</u>
Site Location: <u>HOOVER OH</u>	Manometer (make/model/serial number): <u>H6156</u>
Field Personnel: <u>AS PM</u>	Weather: <u>PARTLY CLOUDY</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>60°</u>
	Atmospheric Pressure (in. Hg): <u>29.03</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial Pressure/Vacuum (in. H <sub>2</sub> O): <u>6.03</u>	Time: <u>1021</u>	Field Tubing blank reading (ppm): <u>-</u>	Time: <u>-</u>
<b>Shut-in Testing</b>		Start of Pneumatic Testing: <u>1021</u>	
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1021</u>	Elapsed Time (min)	Pump Flow Rate (LPM)
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1109</u>	<u>0.5</u>	<u>0.1</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1110</u>	<u>1.0</u>	<u>0.2</u>
			<u>6.5</u>
			<u>-0.15</u>
			<u>-0.34</u>
			<u>-0.95</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
2009												
10/2	PNEUMATIC		~	~1.5	-	65.5	10.7	0.0	296 <del>85</del>	-	-	-
10/2	1110	1115	5	1.0	0.2	99.9	11.4	0.8	304	NO HELIUM		10,025
10/2	<del>1115</del> 1120	1120	5	1.0	0.2	99.9	11.5	0.3	297	24.6	35.2	4900
10/2	1120	1125	5	1.0	0.2	99	12.1	0.0	302	NO HELIUM		11875

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
10/2	1136	VW-99(SS), 100209	34610	FC00466	1029357	28.96	4.58	32.7	42.2

Comments:

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# SOIL VAPOR FIELD FORM



Well ID VW-99(60)

Sub-slab Probe  Nested Probe

Date: <u>10/2/09</u>	PID (make/model/serial number): <u>MINIRAG 2000 110-008693</u>
Project Name: <u>HOUVEN VI</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>500-018-6R</u>	Helium Detector (make/model/serial number): <u>MWD2002 US3096X</u>
Site Location: <u>HOUVEN, OH</u>	Manometer (make/model/serial number): <u>HEISE</u>
Field Personnel: <u>AS PM</u>	Weather: <u>CLOUDY</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>60°</u>
	Atmospheric Pressure (in. Hg): <u>29.03</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial Pressure/Vacuum (in. H <sub>2</sub> O): <u>0.05</u>	Time: <u>1019</u>	Field Tubing blank reading (ppm): <u>-</u>	Time: <u>-</u>
Shut-in Testing <u>1019</u>		Start of Pneumatic Testing: <u>1019 1142</u>	
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1019</u>	Elapsed Time (min)	Pump Flow Rate (LPM)
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1144</u>	<u>0.5</u>	<u>0.1</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1144</u>	<u>1.0</u>	<u>0.2</u>
		<u>1.5</u>	<u>0.5</u>
			<u>0.87 - 0.32</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
2009						25.9	10.6	1.0				
10/2	PNEUMATIC		-	~1.5	-	<del>20.6</del>	<del>10.9</del>	<del>0.0</del>	<del>220</del> 1.2	-	-	-
10/2	1146	1151	5	1.0	.2	11.3	8.1	3.8	569	24.8	33.9	0
10/2	1151	1156	5	1.0	.2	11.0	9.6	4.0	502	30.6	35.9	0
10/2	1201	1206	5	1.0	.2	11.7	9.0	3.0	498	28.1	44.1	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
			<del>1739</del>	<del>F600505</del>		<del>28.48</del>			
10/2	1205	VW-99(60), 100209	9332	F6 6561	1029357	28.94	4.20	28.0	29.7

Comments:

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# SOIL VAPOR FIELD FORM



Well ID VW-127(5)

Sub-slab Probe  Nested Probe

Date: <u>10/1/09</u>	PID (make/model/serial number): <u>MINI RAE 110-008693</u>
Project Name: <u>HOOVES, OH VI</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>M&amp;D2002 US3096X</u>
Site Location: <u>HOOVES, OH</u>	Manometer (make/model/serial number): <u>NEISE</u>
Field Personnel: <u>AS, PM</u>	Weather: <u>CLOUDY</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>55°</u>
	Atmospheric Pressure (in. Hg):

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial Pressure/Vacuum (in. H <sub>2</sub> O): <u>-0.67</u>	Time: <u>1104</u>	Field Tubing blank reading (ppm): <u>—</u>	Time: <u>1107</u>
<b>Shut-in Testing</b>		Start of Pneumatic Testing: <u>1107</u>	
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1104</u>	Elapsed Time (min)	Pump Flow Rate (LPM)
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1536</u>	<u>0.5</u>	<u>0.1</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1536</u>	<u>1.0</u>	<u>0.2</u>
		<u>1.5</u>	<u>0.5</u>
			<u>-0.5</u>
			<u>-0.91</u>
			<u>-2.13</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
<u>2009</u>												
<u>10/1</u>	<u>PNEUMATIC</u>		<u>—</u>	<u>~1.5</u>	<u>—</u>	<u>00.1</u>	<u>4.6</u>	<u>13.0</u>	<u>7.3</u>	<u>—</u>	<u>—</u>	<u>—</u>
<u>10/1</u>	<u>1538</u>	<u>1543</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>0.0</u>	<u>4.4</u>	<u>14.6</u>	<u>0.3</u>	<u>13.1</u>	<u>28.9</u>	<u>0</u>
<u>10/1</u>	<u>1543</u>	<u>1548</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>0.0</u>	<u>4.7</u>	<u>14.3</u>	<u>0.0</u>	<u>28.9</u>	<u>34.3</u>	<u>0</u>
<u>10/1</u>	<u>1548</u>	<u>1553</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>0.0</u>	<u>4.5</u>	<u>14.3</u>	<u>0.0</u>	<u>16.5</u>	<u>25.0</u>	<u>0</u>

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>10/01/09</u>	<u>1600</u>	<u>VW-127(5), 100109</u>	<u>36376</u>	<u>6570</u>	<u>1029357</u>	<u>29.11</u>	<u>4.65</u>	<u>16.5</u>	<u>25.8</u>

Comments:

# SOIL VAPOR FIELD FORM



Well ID VW-127(10)

Sub-slab Probe  Nested Probe

Date: <u>10/1/09</u>	PID (make/model/serial number): <u>MINI RAE 2000 110-006693</u>
Project Name: <u>HOOPER VI</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>500-D16-A2</u>	Helium Detector (make/model/serial number): <u>MWD2002 1156096X</u>
Site Location: <u>HOOPER, OH</u>	Manometer (make/model/serial number): <u>NEISE</u>
Field Personnel: <u>AS, PM</u>	Weather: <u>CLOUDY</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>55°</u>
	Atmospheric Pressure (in. Hg):

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial Pressure/Vacuum (in. H <sub>2</sub> O): <u>-0.76</u>	Time: <u>1113</u>	Field Tubing blank reading (ppm): <u>—</u>	Time: <u>1114</u>
<b>Shut-in Testing</b>		Start of Pneumatic Testing: <u>1114</u>	
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1113</u>	Elapsed Time (min)	Pump Flow Rate (LPM)
Prior to Purge	OK <input type="checkbox"/> @	<u>0.5</u>	<u>0.1</u>
Prior to Sample Collection	OK <input type="checkbox"/> @	<u>1.0</u>	<u>0.2</u>
		<u>1.5</u>	<u>0.5</u>
			Well Head Vacuum (in. H <sub>2</sub> O)
			<u>-0.38</u>
			<u>-0.45</u>
			<u>-0.84</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
2009												
10/1	PNEUMATIC		—	~1.5	—	0.0	7.8	6.1	2.4	—	—	—
10/1	1611	1616	5	1.0	0.2	0.0	6.9	6.5	0.4	11.5	21.9	0
10/1	1616	1621	5	1.0	0.2	0.0	7.3	6.9	0.2	12.6	24.8	0
10/1	1621	1626	5	1.0	0.2	0.0	7.0	6.8	0.2	15.9	20.8	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
10/1/09	1635	VW-127(10), 100109	2131	FL00760	1029357	29.13	2.98	21.2	29.5

Comments:



# SOIL VAPOR FIELD FORM



Well ID VW-127(15)

Sub-slab Probe  Nested Probe

Date: <u>10/1/09</u>	PID (make/model/serial number): <u>MINIRAC 200 110-008693</u>
Project Name: <u>HOOVEN VI</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MWD 2002 US30968</u>
Site Location: <u>HOOVEN, OH</u>	Manometer (make/model/serial number): <u>HEISE</u>
Field Personnel: <u>AS, PM</u>	Weather: <u>CLOUDY</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>55°</u>
	Atmospheric Pressure (in. Hg): _____

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial Pressure/Vacuum (in. H <sub>2</sub> O): <u>-0.76</u>	Time: <u>1120</u>	Field Tubing blank reading (ppm): <u>—</u>	Time: <u>—</u>
<b>Shut-in Testing</b>		Start of Pneumatic Testing: <u>H2T 1132</u>	
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>H2T 1132</u>	Elapsed Time (min)	Pump Flow Rate (LPM)
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1448</u>	<u>0.5</u>	<u>0.1</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1449</u>	<u>1.0</u>	<u>0.2</u>
		<u>1.5</u>	<u>0.5</u>
			Well Head Vacuum (in. H <sub>2</sub> O)
			<u>-0.03</u>
			<u>-0.10</u>
			<u>-0.30</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
2009												
10/1	PNEUMATIC		—	~1.5	—	0.0	4.8	16.4	2.1	—	—	—
10/1	1450	1455	5	1.0	0.2	0.0	2.4	15.9	0.0	36.1	49.0	0
10/1	1455	1500	5	1.0	0.2	0.0	2.1	14.9	0.0	38.4	45.4	0
10/1	1500	1505	5	1.0	0.2	0.0	2.3	15.0	0.0	29.2	36.2	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
10/1/09	1512	VW-127(15),100105	33717	0673	1029357	29.13	4.35	32.5	36.5

Comments: PULLED WATER FROM VALVE. REPEAT SHUT-IN

# SOIL VAPOR FIELD FORM



Well ID VW-127(20)

Sub-slab Probe  Nested Probe

Date: <u>10/1/09</u>	PID (make/model/serial number): <u>MINI RAE 2000 110-058693</u>
Project Name: <u>HOOVEN VI</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MWD2002 453096X</u>
Site Location: <u>HOOVEN, OH</u>	Manometer (make/model/serial number): <u>HAISE</u>
Field Personnel: <u>AS, PM</u>	Weather: <u>CLOUDY</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>55°</u>
	Atmospheric Pressure (in. Hg):

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial Pressure/Vacuum (in. H <sub>2</sub> O): <u>-0.3</u>	Time: <u>1135</u>	Field Tubing blank reading (ppm): <u>—</u>	Time: <u>—</u>
<b>Shut-in Testing</b>		Start of Pneumatic Testing: <u>1136</u>	
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1136</u>	Elapsed Time (min)	Pump Flow Rate (LPM)
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1415</u>	<u>0.5</u>	<u>0.1</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1415</u>	<u>1.0</u>	<u>0.2</u>
		<u>1.5</u>	<u>0.5</u>
			<u>-0.03</u>
			<u>-0.11</u>
			<u>-0.45</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
2009												
10/1	PNEUMATIC			~1.5		0.0	5.4	12.2	0.0			
10/1	1420	1425	5	1.0	0.2	0.0	4.7	12.0	0.0	13.0	16.7	0
10/1	14 <sup>25</sup> <sub>8</sub>	1430	5	1.0	0.2	0.0	5.0	11.5	0.0	26.7	31.9	0
10/1	143 <sup>0</sup> <sub>8</sub>	1435	5	1.0	0.2	0.0	4.9	11.7	0.0	26.9	29.5	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
10/01/09	1442	VW-127(20), 10610	36544	40671	1029357	28.99	2.21	18	29

Comments:

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# SOIL VAPOR FIELD FORM



Well ID VW-127(30)

Sub-slab Probe  Nested Probe

Date: <u>10/1/09</u>	PID (make/model/serial number): <u>MINI RAE 2000 116-006693</u>
Project Name: <u>HOOVEN VI</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MWD 2002 U53096X</u>
Site Location: <u>HOOVEN OH</u>	Manometer (make/model/serial number): <u>HEISE</u>
Field Personnel: <u>AS PM</u>	Weather: <u>CLOUDY</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>55°</u>
Atmospheric Pressure (in. Hg):	

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial Pressure/Vacuum (in. H <sub>2</sub> O): <u>-0.15</u>	Time: <u>1138</u>	Field Tubing blank reading (ppm): <u>-</u>	Time: <u>-</u>
<b>Shut-in Testing</b>		Start of Pneumatic Testing: <u>1139</u>	
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1139</u>	Elapsed Time (min)	Pump Flow Rate (LPM)
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>130 + 1337 1341</u>	<u>0.5</u>	<u>0.2</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1342</u>	<u>1.0</u>	<u>0.4</u>
		<u>1.5</u>	<u>0.6</u>
			<u>-1.89</u>
			<u>-5.36</u>
			<u>-10.19</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
2009												
10/1	PNEUMATIC		-	~1.5	-	0.0	5.1	5.8	2.3	-	-	-
10/1	1345	1350	5	1.0	0.2	0.0	6.4	5.2	0.0	41.2	50.4	0
10/1	1350	1355	5	1.0	0.2	0.0	6.0	6.0	0.0	42.1	45.4	0
10/1	1355	<del>1400</del>	5	1.0	0.2	0.0	5.9	6.1	0.0	42.5	44.1	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
10/1/09	1:08	VW-127(30), 100109	<del>31796</del> 34603	<del>660315</del> 6706	1029357	<del>29.10</del> 28.98	3.30	20.5	49.0

Comments:

# SOIL VAPOR FIELD FORM



Well ID VW-127 (40)

Sub-slab Probe  Nested Probe

Date: <u>10/1/09</u>	PID (make/model/serial number): <u>MINI RAE 2000 110-008693</u>
Project Name: <u>HOOVEN VI</u>	Landtech (model/serial number): <u>12029</u>
Project Number: <u>500-016-612</u>	Helium Detector (make/model/serial number): <u>MWD2002 U53096X</u>
Site Location: <u>HOOVEN, OH</u>	Manometer (make/model/serial number): <u>H616C</u>
Field Personnel: <u>AS PM</u>	Weather: <u>CLOUDY</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>55°</u>
Atmospheric Pressure (in. Hg):	

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial Pressure/Vacuum (in. H <sub>2</sub> O): <u>40.05</u>	Time: <u>1142</u>	Field Tubing blank reading (ppm): <u>-</u>	Time: <u>-</u>
<b>Shut-in Testing</b>		Start of Pneumatic Testing: <u>1143</u>	
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1143</u>	Elapsed Time (min)	Pump Flow Rate (LPM)
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1225</u>	<u>0.5</u>	<u>0.1</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1225</u>	<u>1.0</u>	<u>0.2</u>
			<u>0.5</u>
			<u>-5.20</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
2009												
10/1	PNEUMATIC		-	~1.5	-	0.0	6.5	4.5	1.0	-	-	-
10/1	1227	1232	5	1.0	0.2	0.0	3.1	14.3	4.1	11.2	39.5	0
10/1	1232	1237	5	1.0	0.2	0.0	7.9	4.5	4.5	40.1	48.5	0
10/1	1237	1242	5	1.0	0.2	0.0	6.1	5.2	4.1	45.1	47.5	0
10/1	1242	1247	5	1.0	0.2	0.0	6.0	5.5	4.9	45.3	46.2	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
10/1/09	1300	VW-127(40), 100169	34133	FL00584	1029357	29.10	44.46	15.6	44.0
10/1/09	1300	BD1, 100169	34657	FL00541	1029357	29.19	4.49		

Comments:

# SOIL VAPOR FIELD FORM



Well ID VW-127(50)

Sub-slab Probe  Nested Probe

Date: <u>10/1/09</u>	PID (make/model/serial number): <u>MINI RA6 2000 110-008693</u>
Project Name: <u>HOOVEN VI</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MUD2002 US3096X</u>
Site Location: <u>HOOVEN, OH</u>	Manometer (make/model/serial number): <u>HEISE</u>
Field Personnel: <u>AS PM</u>	Weather: <u>CLOUDY</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>55°</u>
Atmospheric Pressure (in. Hg):	

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial Pressure/Vacuum (in. H <sub>2</sub> O): <u>40.08</u>	Time: <u>1145</u>	Field Tubing blank reading (ppm): <u>-</u>	Time: <u>-</u>
<b>Shut-in Testing</b>		Start of Pneumatic Testing: <u>1146</u>	
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1146</u>	Elapsed Time (min)	Pump Flow Rate (LPM)
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1153</u>	<u>0.5</u>	<u>0.1</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1154</u>	<u>1.0</u>	<u>0.2</u>
		<u>1.5</u>	<u>0.</u>
			<u>-0.57</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
2009												
10/1	PNEUMATIC		-	~1.5	-	0.1	6.1	4.9	0.0	-	-	-
10/1	1158	1203	5	1.0	0.2	0.0	7.0	<del>6.0</del> 5.2	0.0	40.5	47.3	0
10/1	1203	1208	5	1.0	0.2	0.0	7.4	4.9	0.1	40.3	44.0	0
10/1	1208	1213	5	1.0	0.2	0.0	7.5	4.5	0.0	32.3	39.3	

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
10/1/09	1220	VW-127(50) <sup>10/1/09</sup>	<del>2923</del> 33413	FC00463	1029357	29.23	4.19	24.0	31.2

Comments:

# SOIL VAPOR FIELD FORM



Well ID VW-128(S)

Sub-slab Probe  Nested Probe

Date: <u>9/29/09</u>	PID (make/model/serial number): <u>MIAMI RAE 2000 110-008693</u>
Project Name: <u>HOOVEN VI</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MAD2002 US3096X</u>
Site Location: <u>HOOVEN, OH</u>	Manometer (make/model/serial number): <u>Heise</u>
Field Personnel: <u>AS, PM</u>	Weather: <u>cloudy, lt breeze</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>60°F</u>
	Atmospheric Pressure (in. Hg): <u>29.29</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input type="checkbox"/> Pressure <input checked="" type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>-0.15</u>	Time: <u>1559</u>	Start Time of Pneumatic Testing: <u>1600</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1600</u>	<u>0.5</u>	<u>0.1</u>	<u>-0.24</u>
Prior to Purge	OK <input type="checkbox"/> @	<u>1.0</u>	<u>0.2</u>	<u>-0.47</u>
Prior to Sample Collection	OK <input type="checkbox"/> @	<u>1.5</u>	<u>0.5</u>	<u>-1.09</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
2009												
9/29/09	PNEUMATIC		1.5+	~1.5	-	0.0	0.5	20.0	0.0	-	-	-
10/1	1755	1800	5	1.0	.2	0.0	0.8	20.4	0.0	16.9	29.4	0
10/1	1800	1805	5	1.0	.2	0.0	0.6	20.0	0.0	25.3	29.9	0
10/1	1805	1810	5	1.0	.2	0.0	0.7	20.0	0.0	30.2	35.6	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
10/1/09	1816	VW-128(S), 100109	14523	FC00130	1029357	29.04	4.58	29.8	37.1

Comments:

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# SOIL VAPOR FIELD FORM



Well ID VW-128(10)

Sub-slab Probe  Nested Probe

Date: <u>9/29/09</u>	PID (make/model/serial number): <u>MINI RAE 2000 110-008693</u>
Project Name: <u>HOOVEN VI</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MWD 2002 US3096X</u>
Site Location: <u>HOOVEN, OH</u>	Manometer (make/model/serial number): <u>Heise</u>
Field Personnel: <u>AS, PM</u>	Weather: <u>cloudy, slight breeze</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>60°</u>
	Atmospheric Pressure (in. Hg): <u>29.29</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input type="checkbox"/> Pressure <input checked="" type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>-0.16</u>	Time: <u>1605</u>	Start Time of Pneumatic Testing: <u>1606</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1606</u>	<u>0.5</u>	<u>0.1</u>	<u>-0.70</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1730</u>	<u>1.0</u>	<u>0.2</u>	<u>-1.74</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1732</u>	<u>1.5</u>	<u>0.5</u>	<u>-5.01</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
9/29/09	PNEUMATIC		1.5+	~1.5	-	NO READINGS			0.0	-	-	-
10/1	1745	1837	4.5	1.0	0.2	0.0	2.8	17.4	0.0	23.5	29.4	0
10/1	1957	1942	5	1.0	0.2	0.0	2.9	17.1	0.0	25.2	29.1	0
10/1	1942	1947	5	1.0	0.2	0.0	2.9	17.0	0.0	30.4	34.2	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
10/1/09	1752	VW-128(10), 100109	9343	FC00621	1029357	28.91	1.97	31.3	34.1

Comments:

# SOIL VAPOR FIELD FORM



Well ID VW-128(15)

Sub-slab Probe  Nested Probe

Date: <u>9/29/09</u>	PID (make/model/serial number): <u>miniRAE 2000 110-008693</u>
Project Name: <u>HOOPER VI</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>SOD-016-002</u>	Helium Detector (make/model/serial number): <u>M6D2002 US3696X</u>
Site Location: <u>HOOPER, OH</u>	Manometer (make/model/serial number): <u>Heise</u>
Field Personnel: <u>AS, PM</u>	Weather: <u>cloudy slight breeze</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>60°</u>
	Atmospheric Pressure (in. Hg): <u>29.29</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>0.0</u>	Time: <u>1614</u>	Start Time of Pneumatic Testing: <u>1614</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1614</u>	<u>0.5</u>	<u>0.1</u>	<u>- 1.20</u>
Prior to Purge	OK <input type="checkbox"/> @	<u>1.0</u>	<u>0.2</u>	<u>- 2.23</u>
Prior to Sample Collection	OK <input type="checkbox"/> @	<u>1.5</u>	<u>0.5</u>	<u>- 5.14</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
<u>9/29/09</u>	<u>PNEUMATIC</u>		<u>1.5+</u>	<u>1.5</u>	<u>-</u>	<u>0.0</u>	<u>1.3</u>	<u>19.0</u>	<u>0.0</u>	<u>-</u>	<u>-</u>	<u>-</u>
<u>10/01/09</u>	<u>1702</u>	<u>1707</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>0.0</u>	<u>1.4</u>	<u>19.6</u>	<u>0.0</u>	<u>15</u>	<u>28.3</u>	<u>0</u>
<u>10/01/09</u>	<u>1707</u>	<u>1712</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>0.0</u>	<u>1.2</u>	<u>19.7</u>	<u>0.0</u>	<u>20.6</u>	<u>22.3</u>	<u>0</u>
<u>10/01/09</u>	<u>1712</u>	<u>1717</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>0.0</u>	<u>1.3</u>	<u>19.7</u>	<u>0.0</u>	<u>22.3</u>	<u>24.6</u>	<u>0</u>

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>10/01/09</u>	<u>1730</u>	<u>VW-128(15), 100109</u>	<u>24400</u>	<u>FC00423</u>	<u>1029357</u>	<u>28.71</u>	<u>2.73</u>	<u>15.7</u>	<u>29.4</u>

Comments:



# SOIL VAPOR FIELD FORM



Well ID VW-128(20)

Sub-slab Probe  Nested Probe

Date: <u>9/29/09</u>	PID (make/model/serial number): <u>mini RAE 2000 110-008693</u>
Project Name: <u>HOOPER VI</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MAD2002 US3096X</u>
Site Location: <u>HOOPER, OH</u>	Manometer (make/model/serial number): <u>Heise</u>
Field Personnel: <u>AS, PM</u>	Weather: <u>Cloudy, breeze</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>60°</u>
	Atmospheric Pressure (in. Hg): <u>29.29</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial  Pressure  Vacuum (in. H<sub>2</sub>O): 0.01 Time: 1640 Start Time of Pneumatic Testing: 1643

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1642</u>	<u>0.5</u>	<u>0.1</u>	<u>-0.24</u>
Prior to Purge	OK <input type="checkbox"/> @	<u>1.0</u>	<u>0.2</u>	<u>-0.84</u>
Prior to Sample Collection	OK <input type="checkbox"/> @	<u>1.5</u>	<u>0.5</u>	<u>-2.44</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
<u>2009</u>												
<u>9/29</u>	<u>1643</u>	<u>1645</u>	<u>2</u>	<u>2.1</u>	<u>-</u>	<u>0.0</u>	<u>1.3</u>	<u>19.3</u>	<u>0.0</u>	<u>-</u>	<u>-</u>	<u>-</u>
<u>9/30/09</u>	<u>1734</u>	<u>1739</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>0.0</u>	<u>1.2</u>	<u>19.4</u>	<u>3.9</u>	<u>17.1</u>	<u>36.3</u>	<u>0.0</u>
<u>9/30/09</u>	<u>1742</u>	<u>1749</u>	<u>7</u>	<u>1.04</u>	<u>0.2</u>	<u>0.0</u>	<u>1.3</u>	<u>19.3</u>	<u>2.1</u>	<u>16.5</u>	<u>24.7</u>	<u>0.0</u>
<u>9/30/09</u>	<u>1749</u>	<u>1754</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>0.0</u>	<u>1.5</u>	<u>17.7</u>	<u>0.3</u>	<u>16.1</u>	<u>46.0</u>	<u>0.0</u>

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>9/30/09</u>	<u>1803</u>	<u>VW-128(20), 013009</u>	<u>34643</u>	<u>FLO0080</u>	<u>1029357</u>	<u>29.03</u>	<u>2.42</u>	<u>29.3</u>	<u>46.0</u>

Comments:

# SOIL VAPOR FIELD FORM



Well ID VW-128 (30)

Sub-slab Probe  Nested Probe

Date: <u>9/29/09</u>	PID (make/model/serial number): <u>MINIRAE2000 110-008693</u>
Project Name: <u>HOOVEN.VI</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MA02002 453096X</u>
Site Location: <u>HOOVEN OH</u>	Manometer (make/model/serial number): <u>Heise</u>
Field Personnel: <u>AS PM</u>	Weather: <u>Cloudy, breeze</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>66°</u>
	Atmospheric Pressure (in. Hg): <u>29.29</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input type="checkbox"/> Pressure <input checked="" type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>0.24</u>	Time: <u>1648</u>	Start Time of Pneumatic Testing: <u>1649</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1649</u>	<u>0.5</u>	<u>0.1</u>	<u>-0.34</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1637</u>	<u>1.0</u>	<u>0.2</u>	<u>-0.41</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1638</u>	<u>1.5</u>	<u>0.5</u>	<u>-0.75</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
<u>2009</u>												
<u>9/29</u>	<u>1649</u>	<u>1651</u>	<u>2</u>	<u>21</u>	<u>-</u>	<u>0.0</u>	<u>3.2</u>	<u>17.0</u>	<u>0.2</u>			
<u>9/30</u>	<u>1644</u>	<u>1649</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>0.0</u>	<u>0.5</u>	<u>20.8</u>	<u>0.2</u>	<u>20.1</u>	<u>36.7</u>	<u>0</u>
<u>9/30</u>	<u>1649</u>	<u>1654</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>0.0</u>	<u>3.2</u>	<u>15.9</u>	<u>0.2</u>	<u>30.2</u>	<u>33.2</u>	<u>0</u>
<u>9/30</u>	<u>1654</u>	<u>1659</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>0.0</u>	<u>3.0</u>	<u>16.1</u>	<u>0.2</u>	<u>15.4</u>	<u>22.5</u>	<u>0</u>
<u>9/30</u>	<u>1659</u>	<u>1704</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>0.0</u>	<u>2.9</u>	<u>16.9</u>	<u>0.2</u>	<u>23.0</u>	<u>31.5</u>	<u>0</u>

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>9/30/09</u>	<u>1709</u>	<u>VW-128(30), 093008</u>	<u>36452</u>	<u>FC00085</u>	<u>1029357</u>	<u>29.18</u>	<u>3.85</u>	<u>26.5</u>	<u>30.4</u>

Comments:

# SOIL VAPOR FIELD FORM



Well ID VW-128(40)

Sub-slab Probe  Nested Probe

Date: <u>9/29/09</u>	PID (make/model/serial number): <u>MINI RAE 2000 110-008693</u>
Project Name: <u>HOOVEN VI</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MAD2002 US3096X</u>
Site Location: <u>HOOVEN OH</u>	Manometer (make/model/serial number): <u>Heise</u>
Field Personnel: <u>AS PM</u>	Weather: <u>cloudy breeze</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>60°</u>
	Atmospheric Pressure (in. Hg): <u>29.29</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input type="checkbox"/> Pressure <input checked="" type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>0.01</u>	Time: <u>1653</u>	Start Time of Pneumatic Testing: <u>1654</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1654</u>	<u>0.5</u>	<u>0.1</u>	<u>- 0.07</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1746</u>	<u>1.0</u>	<u>0.2</u>	<u>- 0.23</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1747</u>	<u>1.5</u>	<u>0.5</u>	<u>- 0.60</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
2009												
9/29	1654	1656	2	0.1	-	0.0	5.2	13.8	0.0			
	<del>1750</del>	<del>1758</del>	<del>8</del>	<del>0.8</del>	<del>-</del>	<del>0.0</del>				<del>13.2</del>	<del>30.1</del>	
9/29	1758	1806	8	0.8	-	0.0	2.6	17.0	0.0	20.1	36.0	0
9/29	1806	1812	6	1.2	.2	0.0	2.8	16.7	0.0	33.3	36.0	0
9/29	1812	1817	5	1.0	.2	0.0	2.9	16.8	0.0	31.6	34.8	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
2009									
9/29	1831	VW-128(40), 092909	35593	FC00843	1029357	29.00	3.80	31.2	33.5

Comments:

# SOIL VAPOR FIELD FORM



Well ID VW-128 (50)

Sub-slab Probe  Nested Probe

Date: <u>9/29/09</u>	PID (make/model/serial number): <u>MINIRAE 2000 110-008693</u>
Project Name: <u>HOOPER VI</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>500016-012</u>	Helium Detector (make/model/serial number): <u>MAD2002 US3096X</u>
Site Location: <u>HOOPER BH</u>	Manometer (make/model/serial number): <u>Heise</u>
Field Personnel: <u>AS PM</u>	Weather: <u>Cloudy, breeze</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>60°</u>
	Atmospheric Pressure (in. Hg): <u>29.29</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input type="checkbox"/> Pressure <input checked="" type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>-0.28</u>	Time: <u>1701</u>	Start Time of Pneumatic Testing: <u>1702</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1702</u>	<u>0.5</u>	<u>0.1</u>	<u>-0.41</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1710</u>	<u>1.0</u>	<u>0.2</u>	<u>-0.56</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1711</u>	<u>1.5</u>	<u>0.5</u>	<u>-1.06</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
<u>2009</u>												
	<u>1702</u>	<u>1704</u>	<u>2</u>	<u>~1.0</u>	<u>-</u>	<u>0.0</u>	<u>7.5</u>	<u>6.5</u>	<u>0.0</u>	<u>—————</u>		
	<u>1714</u>	<u>1719</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>0.0</u>	<u>5.5</u>	<u>11.3</u>	<u>0.0</u>	<u>18.0</u>	<u>22.2</u>	<u>0.0</u>
	<u>1720</u>	<u>1725</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>0.0</u>	<u>2.3</u>	<u>16.0</u>	<u>0.0</u>	<u>21.0</u>	<u>22.2</u>	<u>0.0</u>
	<u>1725</u>	<u>1730</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>0.0</u>	<u>3.5</u>	<u>14.8</u>	<u>0.0</u>	<u>20.9</u>	<u>22.1</u>	<u>0.0</u>
	<u>1730</u>	<u>1735</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>0.0</u>	<u>2.9</u>	<u>14.5</u>	<u>0.0</u>	<u>21.9</u>	<u>22.6</u>	<u>0.0</u>

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>2009</u>						<u>(P)</u>	<u>(P)</u>		
<u>9/29</u>	<u>1740</u>	<u>VW-128 (50),</u> <u>092909</u>	<u>34653</u>	<u>6755</u>	<u>1029357</u>	<u>14.0</u> <u>29.0</u>	<u>20.2</u> <u>3.37</u>	<u>14.0</u>	<u>20.2</u>

Comments:

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# SOIL VAPOR FIELD FORM



Well ID VW-129 Sft

Sub-slab Probe  Nested Probe

Date: <u>Sept 27/09</u>	PID (make/model/serial number): <u>Minikae 2000-110-007718</u>
Project Name: <u>Hooven</u>	Landtech (model/serial number): <u>Lowtec 500 F1365/105</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>M6D 2002-USA8826X</u>
Site Location: <u>Hooven, OH</u>	Manometer (make/model/serial number): <u>SPER Scientific 9300571</u>
Field Personnel: <u>Natt Mitchell Ryan Strakamaren</u>	Weather: <u>overcast 65°F</u>
Recorded by: <u>RS</u>	Air Temperature (°C/°F): <u>65</u>
	Atmospheric Pressure (in. Hg):

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>-0.01</u>	Time: <u>0944</u>	Start Time of Pneumatic Testing: <u>1006</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>0958</u>	<u>20</u>	<u>100</u>	<u>-0.02</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1116</u>	<u>40</u>	<u>200</u>	<u>-0.07</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1139</u>	<u>60</u>	<u>500</u>	<u>-0.18</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
<u>Sept 27</u>	<u>1006</u>	<u>1007</u>	<u>1</u>	<u>2L</u>	<u>pneumatic</u>	<u>0.0</u>	<u>2.8</u>	<u>16.1</u>	<u>4.5</u>	<u>—</u>	<u>—</u>	<u>0</u>
	<u>1121</u>	<u>1126</u>	<u>5</u>	<u>2L</u>	<u>0.2</u>	<u>0</u>	<u>3.0</u>	<u>15.7</u>	<u>0.1</u>	<u>30.2</u>	<u>40.2</u>	<u>0</u>
	<u>1126</u>	<u>1131</u>	<u>5</u>	<u>1L</u>	<u>0.2</u>	<u>0</u>	<u>3.1</u>	<u>15.4</u>	<u>0</u>	<u>20.4</u>	<u>29.8</u>	<u>0</u>
	<u>1131</u>	<u>1136</u>	<u>5</u>	<u>1L</u>	<u>0.2</u>	<u>0</u>	<u>3.1</u>	<u>15.3</u>	<u>0</u>	<u>10.2</u>	<u>15.7</u>	<u>0</u>

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>Sept 27</u>	<u>1140</u>	<u>VW-129(S)-091909</u>	<u>34122</u>	<u>FC00766</u>	<u>—</u>	<u>-29.03</u>	<u>-4.85</u>	<u>10.2</u>	<u>28.8</u>

Comments: \* residual from previous day

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# SOIL VAPOR FIELD FORM



Well ID UW129 10ft

Sub-slab Probe  Nested Probe

Date: <u>Sept 29/09</u>	PID (make/model/serial number): <u>Mini Rae 2000 -110-007718</u>
Project Name: <u>Hooven</u>	Landtech (model/serial number): <u>Lawler 500 E1365/05</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>HGD 2002-452826 X</u>
Site Location: <u>Hooven, OH</u>	Manometer (make/model/serial number): <u>8</u>
Field Personnel: <u>Paul Mitchell, Ryan Stridmeier</u>	Weather: <u>Overcast</u>
Recorded by: <u>RS</u>	Air Temperature (°C/°F): <u>65</u>
Atmospheric Pressure (in. Hg):	

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>-0.12</u>	Time: <u>0945</u>	Start Time of Pneumatic Testing: <u>1026</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1010</u>	<u>20</u>	<u>100</u>	<u>0.05</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1154</u>	<u>40</u>	<u>200</u>	<u>0.10</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1213</u>	<u>60</u>	<u>500</u>	<u>0.25</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
Sept 29	1014		pneumatic test			0	3.1	16.0	0.2			0
	1154	1201	5	0.21	0.2	0	3.0	15.9	0	22.6	32.6	0
	1201	1206	5	0.21	0.2	0	3.1	15.6	0	15.8	20.9	0
	1206	1211	5	0.21	0.2	0	3.2	15.6	0	9.8	14.9	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
Sept 29	1214	UW129(10)-092909	35620	FC00106		28.99	3.93	15.2	30.3

Comments:

# SOIL VAPOR FIELD FORM



Well ID UW 129 15ft  Sub-slab Probe  Nested Probe

Date: <u>Sept 29/09</u>	PID (make/model/serial number): <u>Mini Rae 7500-110-007718</u>
Project Name: <u>Hooven</u>	Landtech (model/serial number): <u>Landtec 500 E1365/05</u>
Project Number: <u>500-016-010</u>	Helium Detector (make/model/serial number): <u>MED 2002 - 452826X</u>
Site Location: <u>Hooven, OH</u>	Manometer (make/model/serial number): _____
Field Personnel: <u>Matt Mitchell, Ryan Strunzmaier</u>	Weather: <u>overcast</u>
Recorded by: <u>BS</u>	Air Temperature (°C/°F): <u>65</u>
	Atmospheric Pressure (in. Hg): _____

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>~ 0.09</u>	Time: <u>0946</u>	Start Time of Pneumatic Testing: <u>1026</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1025</u>	<u>20</u>	<u>100</u>	<u>0.06</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1223</u>	<u>40</u>	<u>200</u>	<u>0.11</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1252</u>	<u>60</u>	<u>500</u>	<u>0.35</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
Sept 29/09	1026					0	2.1	17.6	0.8			0
	1225	1230	5	1	0.2	0	2.9	16.2	0	17.8	40.9	0
	1235	1240	5	1	0.2	0	3.2	15.8	0	13.8	28.2	0
	1240	1245	5	1	0.2	0	3.1	15.9	0	12.2	14.8	0
	1245	1250	5	1	0.2	0	3.1	15.9	0	16.6	32.2	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
Sept 29	1253	UW 129 (15) 092902	34082	FC00525	—	4.87	29.0	10.8	21.1

Comments:

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# SOIL VAPOR FIELD FORM



Well ID UW 109 20 ft  Sub-slab Probe  Nested Probe

Date: <u>Sept 29/09</u>	PID (make/model/serial number): <u>MiniRae 2000-110-007718</u>
Project Name: <u>Hooven</u>	Landtech (model/serial number): <u>Landtec 500 E1365/05</u>
Project Number: <u>500-016-01d</u>	Helium Detector (make/model/serial number): <u>HL0 2002 452826X</u>
Site Location: <u>Hooven, OH</u>	Manometer (make/model/serial number): _____
Field Personnel: <u>Matt Mitchell, Ryan Stronuciera</u>	Weather: <u>overcast</u>
Recorded by: <u>RS</u>	Air Temperature (°C/°F): <u>65</u>
	Atmospheric Pressure (in. Hg): _____

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>-0.01</u>	Time: <u>0947</u>	Start Time of Pneumatic Testing: <u>1028</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1025 1027</u>	<u>20</u>	<u>100</u>	<u>0.06 0.05</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1300</u>	<u>40</u>	<u>200</u>	<u>0.11 0.14</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1320</u>	<u>60</u>	<u>500</u>	<u>0.35 0.39</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
Sept 29	1028					0	3.1	16.4	0.3	—		0
	1303	1308	5	1	0.2	0	2.9	16.2	0	13.8	28.9	0
	1308	1313	5	1	0.2	0	2.9	16.2	0	17.9	26.9	0
	1313	1318	5	1	0.2	0	3.0	16.0	0	13.4	17.3	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
Sept 29	1320	UW-109(2)092909	36517	FC00124	—	29.02	4.15	12.3	23.9

Comments:

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# SOIL VAPOR FIELD FORM



Well ID UW 109 30ft  Sub-slab Probe  Nested Probe

Date: <u>Sept 29/09</u>	PID (make/model/serial number): <u>Am. Rae 2000 110-007718</u>
Project Name: <u>Aspen</u>	Landtech (model/serial number): <u>landtec 500 E13 65/05</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>M60 2002 452826X</u>
Site Location: <u>Aspen, OH</u>	Manometer (make/model/serial number): _____
Field Personnel: <u>Matt Mitchell, Ryan Strohmayer</u>	Weather: <u>overcast</u>
Recorded by: <u>RS</u>	Air Temperature (°C/°F): <u>65</u>
Atmospheric Pressure (in. Hg): _____	

Surface Type: <input type="checkbox"/> Concrete <input type="checkbox"/> Asphalt <input type="checkbox"/> Grass <input checked="" type="checkbox"/> Other
Surface Thickness (inches): <input checked="" type="checkbox"/> Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>40.44</u>	Time: <u>0948</u>	Start Time of Pneumatic Testing: <u>1035</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1033</u>	<u>20</u>	<u>100</u>	<u>0.12</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1333</u>	<u>40</u>	<u>200</u>	<u>0.20</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1419</u>	<u>60</u>	<u>500</u>	<u>0.53</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
Sept 29	1035	pneumatic test	—	—	—	0	3.2	16.1	0.6	—	—	0
	1402	1407	5	1	0.2	0	2.6	17.0	0	22.2	44.2	0
	1407	1412	5	1	0.2	0	3.0	16.3	0	10.2	25.0	0
	1412	1417	5	1	0.2	0	3.2	16.1	0	17.2	23.7	0
	1417	1420	3	0.8	0.2	0	3.1	16.3	0	—	—	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
Sept 29	1420	UW 109 (30) 092709	36491	FC00695	—	29.01	6.46	—	—

Comments: no helium meter available

# SOIL VAPOR FIELD FORM



Well ID UW 09 40 ft  Sub-slab Probe  Nested Probe

Date: <u>Sept 09/09</u>	PID (make/model/serial number): <u>Mini Rae 2000 110-007718</u>
Project Name: <u>Hooven</u>	Landtech (model/serial number): <u>500 E1365/05</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>M60 2002 452826x</u>
Site Location: <u>Hooven, OH</u>	Manometer (make/model/serial number): _____
Field Personnel: <u>Matt Mitchell, Ryan Strahmeyer</u>	Weather: <u>overcast</u>
Recorded by: <u>RS</u>	Air Temperature (°C/°F): <u>65</u>
	Atmospheric Pressure (in. Hg): _____

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>-0.12</u>	Time: <u>0951</u>	Start Time of Pneumatic Testing: <u>1039</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1039</u>	<u>20</u>	<u>100</u>	<u>0.11</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1432</u>	<u>40</u>	<u>200</u>	<u>0.24</u>
Prior to Sample Collection	OK <input type="checkbox"/> @ <u>1450</u>	<u>60</u>	<u>500</u>	<u>0.67</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
Sept 09	1039	pneumatic	—	—	—	0	3.8	15.3	0	—	—	0
	1432	1437	5	1	0.2	0	3.0	16.3	0	15.9	34.2	0
	1442	1447	5	1	0.2	0	3.0	16.2	0	10.2	27.3	0
	1452	1457	5	1	0.2	0	3.0	16.2	0	28.6	36.2	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
Sept 09/09	1455	UW 09(40)022001	33707	FC 00 413	—	29.00	-4.56	29.2	12.4

Comments:

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# SOIL VAPOR FIELD FORM



Well ID VW129 soft  Sub-slab Probe  Nested Probe

Date: <u>Sept 29/09</u>	PID (make/model/serial number): <u>Mini Rae 2000 110-007718</u>
Project Name: <u>Hooven</u>	Landtech (model/serial number): <u>500 E1365/05</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MGD 2002 U52826X</u>
Site Location: <u>Hooven, OH</u>	Manometer (make/model/serial number): _____
Field Personnel: <u>Matt Mitchell, Ryan Strubman</u>	Weather: <u>overcast</u>
Recorded by: <u>RS</u>	Air Temperature (°C/°F): <u>65</u>
	Atmospheric Pressure (in. Hg): _____

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input checked="" type="checkbox"/> Pressure <input type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>-0.13</u>	Time: <u>0952</u>	Start Time of Pneumatic Testing: <u>1046</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1045</u>	<u>20</u>	<u>100</u>	<u>0.12</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1505</u>	<u>40</u>	<u>200</u>	<u>0.28</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1520</u>	<u>60</u>	<u>500</u>	<u>0.84</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
Sept 29	1046					0	3.4	15.1	1.2			0
9/29/09	1505	1510	5	1	0.2	0	3.0	18.0	0	16.4	32.4	0
9/29/09	1510	1515	5	1	0.2	0	3.2	16.0	0	14.2	24.8	0
9/29/09	1515	1520	5	1	0.2	0	3.2	16.0	0	17.9	23.0	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
9/29/09	1525	VW-129(50), 092909	36425	FC00782	—	29.02	5.85	10.0	32.2
	—	BD-2, 092909	36436	FC00782	—	29.02	5.23		

Comments: FC00179 not used

# SOIL VAPOR FIELD FORM



Well ID VW-130(5)

Sub-slab Probe  Nested Probe

Date: <u>9/29/09</u>	PID (make/model/serial number): <u>Mini RAE 2000 110-008693</u>
Project Name: <u>HOOPER VAPOR 9/09</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MGD 2002 453096X</u>
Site Location: <u>HOOPER, OH</u>	Manometer (make/model/serial number): <u>Heise</u>
Field Personnel: <u>AS, PM</u>	Weather: <u>Cloudy, slight breeze</u>
Recorded by: _____	Air Temperature (°C/°F): <u>60° F</u>
	Atmospheric Pressure (in. Hg): <u>29.24</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

-0.10      0951

Initial <input type="checkbox"/> Pressure <input checked="" type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>0.20</u>	Time: <u>0945</u>	Start Time of Pneumatic Testing: <u>0951</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>0949</u>	<u>0.5</u>	<u>0.2</u>	<u>-0.12</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1355</u>	<u>1.0</u>	<u>0.4</u>	<u>-0.25</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1356</u>	<u>1.5</u>	<u>0.8</u>	<u>-0.55</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
9/29/09	PNEUMATIC		1.5	0.7	-	0.0	3.9	15.5	0.3	-	-	-
9/29/09	1358	1403	5.0	1.25	0.25	0.0	2.2	17.9	0.0	20	24.7	0.0
9/29/09	1403	1408	5.0	1.25	0.25	0.0	2.1	17.7	0.0	120	24.7	0.0
9/29/09	1423	1428	5.0	1.25	0.25	0.0	2.0	18.0	0.0	20.5	22.5	0.0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
9/29/09	1440	VW-130(5), 092909	2068	FC00102	1029357	29.02	3.74	17.5	22.6

Comments:

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# SOIL VAPOR FIELD FORM



Well ID VW-130 (10)

Sub-slab Probe  Nested Probe

Date: <u>9/29/09</u>	PID (make/model/serial number): <u>MWI RAE 110-008693</u>
Project Name: <u>HOOVEN 01</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>500-616-612</u>	Helium Detector (make/model/serial number): <u>M&amp;D 2062 U53096X</u>
Site Location: <u>HOOVEN, OH</u>	Manometer (make/model/serial number): <u>HEISE</u>
Field Personnel: <u>AS</u>	Weather: <u>CLOUDY, LT BREEZE</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>55°</u>
	Atmospheric Pressure (in. Hg): <u>24.97</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input type="checkbox"/> Pressure <input checked="" type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>-0.12</u>	Time: <u>0956</u>	Start Time of Pneumatic Testing: <u>0958</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>0957</u>	<u>0.5</u>	<u>0.1</u>	<u>-0.07</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1354 1320</u>	<u>1.0</u>	<u>0.2</u>	<u>-0.16</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>135 1321</u>	<u>1.5</u>	<u>0.5</u>	<u>-0.48</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
9/29/09	PNEUMATIC		1.5+	~1.5	-	0.0	5.3	14.1	0.0	-	-	-
9/29/09	1325	1330	5	1.0	0.2	0.0	3.9	16.4	0.0	15.6	27.8	0
9/29/09	1330	1335	5	1.0	0.2	0.0	2.5	16.8	0.0	28.2	33.8	0
9/29/09	1335	1340	5	1.0	0.2	0.0	3.0	16.5	0.0	20.1	42.8	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
9/29/09	1350	VW-130(10), 0929109	34102	6714	1029357	28.96	3.71	15.1	40

Comments:

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# SOIL VAPOR FIELD FORM



Well ID VW-130(15)

Sub-slab Probe  Nested Probe

Date: <u>9/29/09</u>	PID (make/model/serial number): <u>MINIRAG 110-008693</u>
Project Name: <u>HOVEO VAPOR</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MWD2002 US3096X</u>
Site Location: <u>ADOVEO, OH</u>	Manometer (make/model/serial number): <u>HEISE</u>
Field Personnel: <u>AS, PM</u>	Weather: <u>CLOUDY LT BR6626</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>55°</u>
	Atmospheric Pressure (in. Hg): <u>29.24</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input type="checkbox"/> Pressure <input checked="" type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>-0.12</u>	Time: <u>1001</u>	Start Time of Pneumatic Testing: <u>1005</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1004</u>	<u>0.5</u>	<u>0.1</u>	<u>-0.05</u>
Prior to Purge	OK <input type="checkbox"/> @	<u>1.0</u>	<u>0.2</u>	<u>-0.11</u>
Prior to Sample Collection	OK <input type="checkbox"/> @	<u>1.5</u>	<u>0.5</u>	<u>-0.37</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
9/29/09	PNEUMATIC		1.5+	~1.5	-	0.0	5.3	13.8	0.0	-	-	-
9/29/09	1300	1305	5	1.0	0.2	0.0	4.9	14.0	0.0	18.9	31.2	0
9/29/09	1305	1310	5	1.0	0.2	0.0	4.8	14.6	0.0	25.6	30.0	0
9/29/09	1310	1315	5	1.0	0.2	0.0	4.8	14.4	0.0	30.0	35.7	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
9/29/09	1321	VW-130(15), 092909	31757	FC00254	-	29.00	29.3	34	38

Comments:

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# SOIL VAPOR FIELD FORM



Well ID VW-130 (20)

Sub-slab Probe  Nested Probe

Date: <u>9/29/09</u>	PID (make/model/serial number): <u>MINI RAE 110-0066693</u>
Project Name: <u>HOOVEN VAPOR</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MHD 2002 US30968</u>
Site Location: <u>HOOVEN, OH</u>	Manometer (make/model/serial number): <u>HEISE</u>
Field Personnel: <u>AS, PM</u>	Weather: <u>CLOUDY, LT BR6626</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>55°</u>
	Atmospheric Pressure (in. Hg): <u>29.24</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input type="checkbox"/> Pressure <input checked="" type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>-0.17</u>	Time: <u>1007</u>	Start Time of Pneumatic Testing: <u>1009</u>		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1008</u>	<u>0.5</u>	<u>0.2</u>	<u>-0.13</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1225-35</u>	<u>1.0</u>	<u>0.4</u>	<u>-0.33</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1235</u>	<u>1.5</u>	<u>0.8</u>	<u>-0.71</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
<u>9/29/09</u>	<u>PNEUMATIC</u>		<u>+1.5</u>	<u>~1.5</u>	<u>-</u>	<u>0.0</u>	<u>4.9</u>	<u>14.2</u>	<u>0.0</u>	<u>-</u>	<u>-</u>	<u>-</u>
<u>9/29/09</u>	<u>1236</u>	<u>1241</u>	<u>5</u>	<u>1.0</u>	<u>.2</u>	<u>0.0</u>	<u>2.9</u>	<u>16.0</u>	<u>0.0</u>	<u>20</u>	<u>26</u>	<u>0</u>
<u>9/29/09</u>	<u>1241</u>	<u>1246</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>0.0</u>	<u>2.6</u>	<u>16.1</u>	<u>0.0</u>	<u>18</u>	<u>25</u>	<u>0</u>
<u>9/29/09</u>	<u>1246</u>	<u>1251</u>	<u>5</u>	<u>1.0</u>	<u>0.2</u>	<u>0.0</u>	<u>2.5</u>	<u>16.1</u>	<u>0.0</u>	<u>26</u>	<u>37</u>	<u>0</u>

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
<u>9/29/09</u>	<u>1259</u>	<u>VW-130(20), 092909</u>	<u>34650</u>	<u>FC00841</u>	<u>-</u>	<u>29.02</u>	<u>4.12</u>	<u>35</u>	<u>37</u>

Comments:

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# SOIL VAPOR FIELD FORM



Well ID VW-130(30)

Sub-slab Probe  Nested Probe

Date: <u>9/29/09</u>	PID (make/model/serial number): <u>MINI RAE 110-008693</u>
Project Name: <u>HOOVEN VI</u>	Landtech (model/serial number): <u>02029</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MAD 2002 US3096K</u>
Site Location: <u>HOOVEN, OH</u>	Manometer (make/model/serial number): <u>HEISE</u>
Field Personnel: <u>AS, PM</u>	Weather: <u>CLOUDY LT BREEZE</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>55°</u>
	Atmospheric Pressure (in. Hg): <u>29.24</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input type="checkbox"/> Pressure <input checked="" type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>-0.15</u>	Time: <u>1012</u>	Start Time of Pneumatic Testing:		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1013</u>	<u>0.5</u>	<u>0.2</u>	<u>-0.23</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1156</u>	<u>1.0</u>	<u>0.4</u>	<u>-0.58</u>
Prior to Sample Collection	OK <input checked="" type="checkbox"/> @ <u>1157</u>	<u>1.5</u>	<u>0.8</u>	<u>-1.22</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
9/29/09	PNEUMATIC		1.5+	~1.5	-	0.0	2.7	14.2	0.0	-	-	-
9/29/09	1159	1206	7	1.9	0.2	0.0	2.0	15.5	0.0	18	33	0
9/29/09	1206	1211	5	1.0	0.2	0.0	2.0	16.2	0.0	22	36	0
9/29/09	1211	1217	6	1.2	0.2	0.0	2.1	16.1	0.0	25	30	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
9/29/09	1233	VW-130(30), 092909	35610	FC00608	-	28.97	59.8	25	32

Comments:





# SOIL VAPOR FIELD FORM



Well ID VW-130(40)

Sub-slab Probe  Nested Probe

Date: <u>9/29/09</u>	PID (make/model/serial number): <u>MIWI RAG 110-008693</u>
Project Name: <u>HOOPER VI</u>	Landtech (model/serial number): <u>LANDTEC 02029</u>
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): <u>MAD2002 US3096X</u>
Site Location: <u>HOOPER, OH</u>	Manometer (make/model/serial number): <u>HEISE</u>
Field Personnel: <u>AS, PM</u>	Weather: <u>CLOUDY, LT BREEZE</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>55°</u>
	Atmospheric Pressure (in. Hg): <u>29.24</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input type="checkbox"/> Pressure <input checked="" type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>-0.32</u>	Time: <u>1017</u>	Start Time of Pneumatic Testing:		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <del>1018</del> <u>1020</u>	<u>0.5</u>	<u>0.2</u>	<u>-0.38</u>
Prior to Purge	OK <input checked="" type="checkbox"/> @ <u>1046</u>	<u>1.0</u>	<u>0.4</u>	<u>-0.68</u>
Prior to Sample Collection	OK <input type="checkbox"/> @	<u>1.5</u>	<u>0.8</u>	<u>-1.26</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
9/29/09	PNEUMATIC		1.5+	~1.5	-	0.0	3.3	14.2	1.4	-	-	-
9/29/09	<del>1055</del>	<del>1103</del>	<del>8</del>	<del>1.6</del>	<del>0.2</del>	<del>0.0</del>	<del>3.0</del>	<del>14.4</del>	<del>1.0</del>	<del>15</del>	<del>35</del>	<del>0</del>
9/29/09	1120	1126	6	1.2	0.2	0.0	2.3	16.1	0.0	20	32	0
9/29/09	1126	1131	5	1.0	0.2	0.0	1.9	16.8	0.0	30	33	0
9/29/09	1131	1136	5	1.0	0.2	0.0	1.8	16.6	0.0	18.0	27	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
9/29/09	1156	VW 130(40), 092909	35605	FL00925	1 -	28.97	6.20	26	33
9/29/09	1156	BD1, 092909	35603	FL00695	-	28.98	6.18		
				NOT USED					

Comments:

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# SOIL VAPOR FIELD FORM



Well ID VW-130 (50)

Sub-slab Probe  Nested Probe

Date: <u>9/24/09</u>	PID (make/model/serial number): _____
Project Name: <u>HOOVEN #1</u>	Landtech (model/serial number): _____
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): _____
Site Location: <u>HOOVEN, OH</u>	Manometer (make/model/serial number): _____
Field Personnel: <u>AS, PM</u>	Weather: <u>COOL, OVERCAST, LIGHT BREEZE</u>
Recorded by: <u>AS</u>	Air Temperature (°C/°F): <u>55° F</u>
	Atmospheric Pressure (in. Hg): <u>29.24</u>

Surface Type:  Concrete  Asphalt  Grass  Other

Surface Thickness (inches):  Unknown

Initial <input type="checkbox"/> Pressure <input checked="" type="checkbox"/> Vacuum (in. H <sub>2</sub> O): <u>-1.98</u>	Time: <u>1020</u>	Start Time of Pneumatic Testing: _____		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK <input checked="" type="checkbox"/> @ <u>1024</u>	<u>0.5</u>	<u>0.2</u>	<u>130-142.2</u>
Prior to Purge	OK <input type="checkbox"/> @ _____	<u>1.0</u>		<u>MAX OUT AT ↑</u>
Prior to Sample Collection	OK <input type="checkbox"/> @ _____			<u>NO AIR MOVEMENT</u>

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
		<u>NO SAMPLE</u>							

Comments:

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