APPENDIX B-5

OCTOBER 2009 FIELD FORMS

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW 93(5) ☐ Sub-slab Probe ☑ Nested Probe

Date:	~~Sept 29/09~~ 10/1/09	PID (make/model/serial number):	MiniRae 2000 110-000718
Project Name:	Chevron Cincinnati	Landtech (model/serial number):	500 E136105
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 452826
Site Location:	Hoover VI	Manometer (make/model/serial number):	—
Field Personnel:	Matt Mitchell/Ryan Strohmaier	Weather:	Overcast
Recorded by:	Matt Mitchell	Air Temperature (°C/°F):	40°
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☒ Unknown

Initial ☐ Pressure ☐ Vacuum (in. H_2O): 0.0 Time: 0905 Start Time of Pneumatic Testing: 0905

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☑ @ 0905	1	0.1	-0.04
Prior to Purge	OK ☐ @	1	0.2	-0.06
Prior to Sample Collection	OK ☐ @	1	0.5	-0.17

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
10/1/09		Pneumatic				0	2.0	17.5	1.3			0
10/1/09	0931	0936	5	1	0.2	~~1.7~~ 0	1.7	18.3	1.0	27.0	37.2	0
10/1/09	0936	0941	5	1	0.2	0	1.3	18.9	0.8	21.6	14.5	0
10/1/09	0941	0946	5	1	0.2	0	1.9	18.2	0.8	8.2	18.0	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
10/1/09	0950	VW-93(5),100109	35633	FC00185	—	29.74	2.44	10.3	24.3

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW 93 (10) ☐ Sub-slab Probe ☒ Nested Probe

Date:	Sept 29/09	PID (make/model/serial number):	MiniRae 2000 110-007718
Project Name:	Chevron Cincinnati	Landtech (model/serial number):	500 E1365/05
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGP 2002 452826X
Site Location:	Hoover VI	Manometer (make/model/serial number):	—
Field Personnel:	Matt Mitchell/Ryan Strohmaier	Weather:	Overcast
Recorded by:	MSM	Air Temperature (°C/°F):	50
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☒ Unknown

Initial ☒ Pressure ☐ Vacuum (in. H_2O): -0.52 Time: 1645

Shut-in Testing		Start Time of Pneumatic Testing:		
		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☑ @ 1645	1	100	-0.01
Prior to Purge	OK ☑ @ 0945	1	200	-0.08
Prior to Sample Collection	OK ☐ @	1	500	-0.30

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)
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 Blue Box

* residual in bag from lower interval

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

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID Uus 93 (15) ☐ Sub-slab Probe ☒ Nested Probe

Date:	Sept 29/09	PID (make/model/serial number):	Minirae 2000 110-007718
Project Name:	Clerson Cincinnati	Landtech (model/serial number):	500 E 13 65105
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 US2826x
Site Location:	Hoover Vapor	Manometer (make/model/serial number):	—
Field Personnel:	Matt Mitchell/Ryan Strohmaier	Weather:	Overcast
Recorded by:	Matt Mitchell	Air Temperature (°C/°F):	50
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☒ Unknown

Initial ☒ Pressure ☐ Vacuum (in. H_2O): -0.1 Time: 1645 Start Time of Pneumatic Testing:

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1645	1	0.1	-0.05
Prior to Purge	OK ☒ @ 1032	1	0.2	-0.11
Prior to Sample Collection	OK ☐ @	1	0.5	-0.35

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)
	Pneumatic					0	3.0	16.0	0		~~46~~	0
9/30/09	1033	1038	5	1	0.2	0	2.8	17.2	1.2	40.1	46.1	0
9/30/09	1038	1043	5	1	0.2	0	3.3	16.5	0.8	30.5	38.1	0
9/30/09	1043	1048	5	1	0.2	0	3.2	16.7	0.8	20.3	30.5	0

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

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW 93(20) ☐ Sub-slab Probe ☒ Nested Probe

Date:	Sept 29/09	PID (make/model/serial number):	Mini Rae 2000 110-007718
Project Name:	Hooven VI	Landtech (model/serial number):	500 E1365/05
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 U57826X
Site Location:	Hooven OH	Manometer (make/model/serial number):	
Field Personnel:	Matt Mitchell, Ryan Strohmaier	Weather:	overcast
Recorded by:	RS	Air Temperature (°C/°F):	70
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☒ Unknown

Initial ☒ Pressure ☐ Vacuum (in. H_2O): -0.02 Time: 1647 Start Time of Pneumatic Testing:

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1647	1	100	-0.06
Prior to Purge	OK ☐ @ 1102	1	200	-0.12
Prior to Sample Collection	OK ☐ @	1	500	-0.42

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
						0	3.1	16.6	0			
9/30/09	1104	1109	5	1	0.2	0	3.0	16.6	1.0	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)-09~~2009~~	35660	FC00233	—	29.29	8.83	14.1	21.7

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID UW 93 (25) ☐ Sub-slab Probe ☒ Nested Probe

Date:	Sept 29/09	PID (make/model/serial number):	Mini Rae 2000 110-007718
Project Name:	Hooven UI	Landtech (model/serial number):	500 E1365/05
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 US2896X
Site Location:	Hooven OH	Manometer (make/model/serial number):	
Field Personnel:	Matt Mitchell, Ryan Strohmaier	Weather:	overcast
Recorded by:	RS	Air Temperature (°C/°F):	70
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☒ Unknown

Initial ☒ Pressure ☐ Vacuum (in. H_2O): +0.03 Time: 1648 Start Time of Pneumatic Testing:

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1648	1	100	0.0
Prior to Purge	OK ☒ @ 1144	1	200	-0.04
Prior to Sample Collection	OK ☒ @ 1210	1	500	-0.29

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
		Pneumatic				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
										~~16.7~~		

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

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID UW 93 (30) ☐ Sub-slab Probe ☒ Nested Probe

Date:	Sept 29/09	PID (make/model/serial number):	Mini Rae 2000 110-007718
Project Name:	Hoover UI	Landtech (model/serial number):	500 E1365/05
Project Number:	500-016-017	Helium Detector (make/model/serial number):	MGD 2002 US28060
Site Location:	Hoover OH	Manometer (make/model/serial number):	
Field Personnel:	Matt Mitchell, Ryan Strohmaier	Weather:	overcast
Recorded by:	RS	Air Temperature (°C/°F):	70
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial ☒ Pressure ☐ Vacuum (in. H_2O): + 0.25 Time: 1648 Start Time of Pneumatic Testing:

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☑ @ 1648	1	100	-0.01
Prior to Purge	OK ☑ @ 1220	1	200	-0.14
Prior to Sample Collection	OK ☐ @	1	500	-0.50

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
		Pneumatic				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

Trihydro CORPORATION

Well ID VW 93 (35) ☐ Sub-slab Probe ☒ Nested Probe

Date:	Sept 29/09	PID (make/model/serial number):	Mini Rae 2000 110-007718
Project Name:	Hooven VI	Landtech (model/serial number):	500 E1365705
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 U50826X
Site Location:	Hooven, OH	Manometer (make/model/serial number):	—
Field Personnel:	Matt Mitchell, Ryan Strohmeier	Weather:	overcast
Recorded by:	RS	Air Temperature (°C/°F):	70
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☒ Unknown

Initial ☒ Pressure ☐ Vacuum (in. H_2O): -1.73 Time: 1649

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☐ @		100	-0.13
Prior to Purge	OK ☑ @ 1358		200	-0.23
Prior to Sample Collection	OK ☑ @		500	-0.68

Start Time of Pneumatic Testing:

water in line

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	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:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW 93 (40) ☐ Sub-slab Probe ☒ Nested Probe

Date:	Sept 29 / 09	PID (make/model/serial number):	MiniRae 2000 110-007718
Project Name:	Chevron Cincinnati	Landtech (model/serial number):	500 E1365105
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 452826X
Site Location:	Hooven VI	Manometer (make/model/serial number):	—
Field Personnel:	Matt Mitchell / Ryan Stroimaier	Weather:	Overcast
Recorded by:	Matt Mitchell	Air Temperature (°C/°F):	58°
		Atmospheric Pressure (in. Hg):	

Surface Type:	☐ Concrete	☐ Asphalt	☒ Grass	☐ Other
Surface Thickness (inches):		☒ Unknown		

Initial ☒ Pressure ☐ Vacuum (in. H_2O): -0.04		Time: 1650	Start Time of Pneumatic Testing:		
Shut-in Testing			Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @	1650	1	100	-0.20
Prior to Purge	OK ☒ @	1435	1	300	-0.26
Prior to Sample Collection	OK ☒ @	1455	1	500	-0.80

Bouncing

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
		Pneumatic				0	3.7	12.2	0.9			0
9/30/09	1440	1445	5	1	0.2	0	4.9	9.6	1.1	14.2	22.6	0
9/30/09	1445	1450	5	1	0.2	0	4.6	9.7	1.7	16.8	30.3	0
9/30/09	1450	1455	5	1	0.2	0	4.9	9.8	1.0	16.5	22.9	0

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

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID ~~VW-(9~~ VW 93(45) ☐ Sub-slab Probe ☒ Nested Probe

Date:	Sept 29/09	PID (make/model/serial number):	MiniRAE 2000 110-007718
Project Name:	Hoover VE	Landtech (model/serial number):	500 E1365105
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 452826x
Site Location:	Hoover, OH	Manometer (make/model/serial number):	
Field Personnel:	Matt Mitchell/Ryan Stroh maier	Weather:	Overcast
Recorded by:	Matt Mitchell	Air Temperature (°C/°F):	58°
		Atmospheric Pressure (in. Hg):	

Surface Type:	☐ Concrete	☐ Asphalt	☒ Grass	☐ Other
Surface Thickness (inches):		☒ Unknown		

Initial ☒ Pressure ☐ Vacuum (in. H_2O): +0.05	Time: 1651	Start Time of Pneumatic Testing:		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☐ @	1	100	-0.12
Prior to Purge	OK ☐ @	1	300	-0.25
Prior to Sample Collection	OK ☐ @	1	500	-0.77

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
		Pneumatic				0.0	4.3	12.3	0			0
9/30/09	1512	1517	5	1	0.2	0.0	6.2	6.1	1.2	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

Trihydro CORPORATION

Well ID UW 93 (50) ☐ Sub-slab Probe ☒ Nested Probe

Date:	Sept 29/09	PID (make/model/serial number):	mini Rae 2000 110-00 7718
Project Name:	Hooker VI	Landtech (model/serial number):	500 E 136105
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 45282 EX
Site Location:	Hooker, OH	Manometer (make/model/serial number):	
Field Personnel:	Matt Mitchell / Ryan Strohmaier	Weather:	Overcast
Recorded by:	Matt Mitchell	Air Temperature (°C/°F):	65°
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☒ Unknown

Initial ☒ Pressure ☐ Vacuum (in. H_2O): +0.02 Time: 1652 Start Time of Pneumatic Testing:

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☑ @ 1652	1	.100	-0.01
Prior to Purge	OK ☑ @ 1540	1	0.200	-0.09
Prior to Sample Collection	OK ☐ @ 1645	1	0.500	-0.47

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)
				Pneumatic		0	3.3	13.8	0.0	~~[illegible]~~	~~[illegible]~~	0
9/30/09	1540	1545	5	1	0.2	0	3.3	15.6	0.9	20.2	28.2	0
9/30/09	1545	1550	5	1	0.2	0	3.1	16.2	1.1	16.8	20.2	0
9/30/09	1550	1555	5	1	0.2	0	3.0	16.6	0.8	15.4	18.2	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max
~~9/30/09~~	~~1600~~	~~UW 93(50)093009~~	~~94917~~	~~FC00866~~	—	~~26.86~~	~~3.22~~	~~11.8~~	~~23.2~~
	1646	UW 93(50)093009	25291	FC 00 578	—	29.00	4.92	10.2	19.6
		BD2-093009	21021	FC 00 578	—	29.10	5.12	10.2	19.6

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID UW 93 (55) ☐ Sub-slab Probe ☒ Nested Probe

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

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☒ Unknown

Initial ☒ Pressure ☐ Vacuum (in. H_2O): 0 Time: 1653 Start Time of Pneumatic Testing:

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☑ @ 1652		100	-0.15
Prior to Purge	OK ☑ @ 1603		200	-0.32
Prior to Sample Collection	OK ☐ @		500	-0.90

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)
			Pneumatic			0	4.5	13.3	1.5			0
Sept 30/09	1608	1613	~~1615~~ 5	1	0.2	0	6.9	4.8	1.2	14.2	34.2	0
	1618	~~1618~~ 1623	5	1	0.2	0	7.0	4.4	1.1	10.6	24.8	0
	1623	1628	5	1	0.2	0	7.5	3.4	0.9	12.8	23.2	0

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

Comments:

SOIL VAPOR FIELD FORM

Well ID UW 93 (60) ☐ Sub-slab Probe

Date:	Sept 29/09	PID (make/model/serial number):	mini Rae 200 110-007718
Project Name:	Hoover UT	Landtech (model/serial number):	500 E1365105
Project Number:	500-016-012	Helium Detector (make/model/serial number):	AGD 2002 452826t
Site Location:	Hoover, OH	Manometer (make/model/serial number):	
Field Personnel:	Ryan Strohmaier	Weather:	overcast
Recorded by:	RS	Air Temperature (°C/°F):	70
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☒ Unknown

Initial ☒ Pressure ☐ Vacuum (in. H_2O): -0.29 Time: 1653 Start Time of Pneumatic Testing:

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (i
Prior to Pneumatic	OK ☒ @ 1653	1	100	-0.16
Prior to Purge	OK ☒ @ 1659	1	200	-0.33
Prior to Sample Collection	OK ☒ @ 1721	1	500	-0.97

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Hel P Int
										Min	Max	
			Pneumatic			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
Sep 30	1722	UW 93(60)093009	9443 ~~54~~	FC00593	—	29.05	4.75	11.7

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID UW 96(05) ☐ Sub-slab Probe ☒ Nested Probe

Date:	Oct 2/09	PID (make/model/serial number):	Mini Rae 2000 110-007718
Project Name:	Hoover UT	Landtech (model/serial number):	500 - E1365105
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 452826X
Site Location:	Hoover, OH	Manometer (make/model/serial number):	
Field Personnel:	Matt Mitchell, Ryan Stahmaier	Weather:	sunny
Recorded by:	KS	Air Temperature (°C/°F):	74
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☐ Grass ☒ Other

Surface Thickness (inches): ☒ Unknown

Initial ☒ Pressure ☐ Vacuum (in. H_2O): 0.01 Time: 1256 Start Time of Pneumatic Testing: 1256

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1256		100	0.03
Prior to Purge	OK ☒ @ 1307		200	0.05
Prior to Sample Collection	OK ☒ @ 1332		500	0.19

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
10/2/09		Pneumatic				18.7	9.4	3.4	247	—	—	0.03
	1308	1315	7	1.4	0.2	9.2	10.0	2.2	167	10	16	0
	1315	1322	7	~~7~~ 1.4	0.2	9.5	10.6	1.3	165	11	24	0
	1322	1329	7	1.4	0.2	9.1	10.6	1.0	148	12.3	16.7	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
Oct 2/09	1333	UW 96(05) 100209	34084	FC00674	—	-28.5	-1.05	12.0	21.0

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID 96(10) ☐ Sub-slab Probe ☒ Nested Probe

Date:	10/01/09	PID (make/model/serial number):	Mini Rae 2000 110-007718
Project Name:	Hooven UI	Landtech (model/serial number):	500 E1365105
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 4528D6X
Site Location:	Hooven, OH	Manometer (make/model/serial number):	
Field Personnel:	Matt Mitchell, Ryan Strohmaier	Weather:	Overcast
Recorded by:	RS	Air Temperature (°C/°F):	70
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☐ Grass ☒ Other

Surface Thickness (inches): ☒ Unknown

Initial ☒ Pressure ☐ Vacuum (in. H_2O): -0.38 Time: 1050 Start Time of Pneumatic Testing: 1051

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1050	1	100	0.42
Prior to Purge	OK ☑ @ 1257	1	200	0.51
Prior to Sample Collection	OK ☑ @ 1330	1	500	0.80

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)
* 10/01/09	pneumatic					10.1	7.8	7.5	120			70.5
10/1/09	1258	1305	7	1.4L	0.2	38.4	9.9	1.9	196	17.1	21.0	0.12
10/1/09	1305	1312	7	2.8	0.2	18.0	9.9	1.4	124	13.0	21.3	0.05
10/1/09	1312	1319	7	4.2	0.2	22.4	10.8	0.2	141	18.2	20.8	0.09
10/1/09	1319	1326	7	5.6	0.2	19.4	10.8	0.2	120	14.7	19.8	0.01

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

Comments: * not enough volume

He never dried during sampling

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID 96(15) ☐ Sub-slab Probe ☒ Nested Probe

Date:	10/01/09	PID (make/model/serial number):	Mini Rae 2000 110-007718
Project Name:	Hooven UF	Landtech (model/serial number):	500 E136505
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 457826X
Site Location:	Hooven, OH	Manometer (make/model/serial number):	
Field Personnel:	Matt Mitchell, Ryan Strohmaier	Weather:	overcast
Recorded by:	RS	Air Temperature (°C/°F):	70
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☐ Grass ☒ Other

Surface Thickness (inches): ☒ Unknown

Initial ☒ Pressure ☐ Vacuum (in. H_2O): -0.34 Time: 1100 Start Time of Pneumatic Testing: 1100

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☑ @ 1100		100	0.54
Prior to Purge	OK ☑ @ 1340		200	0.90
Prior to Sample Collection	OK ☑ @ 1404		500	2.64

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
10/01/09	pneumatic test			—		8.4	10.0	3.1	82.6	—		3125 ppm
10/1/09	1340	1347	7	1.4	0.2	12.8	10.1	0.8	94.3	18.3	22.5	0.04
10/1/09	1347	1354	7	1.4	0.2	10.6	10.0	0.5	79.4	12.3	18.3	0.04
10/1/09	1354	1401	7	1.4	0.2	10.6	10.1	0.4	79.7	28.0	30.6	

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
10/1/09	1405	Vn-96(15)100109	94918	6841	—	-29.78	-4.18	13.1	22.2

Comments:

He meter Battery died used for test only after 2nd reading

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID 96(20) ☐ Sub-slab Probe ☒ Nested Probe

Date:	10/01/09	PID (make/model/serial number):	Mini Rae 2000 110-007718
Project Name:	Hooven UT	Landtech (model/serial number):	500 E1365105
Project Number:	500-016-012	Helium Detector (make/model/serial number):	HGD 2002 4572826X
Site Location:	Hooven, OH	Manometer (make/model/serial number):	
Field Personnel:	Matt Mitchell, Ryan Stohmaier	Weather:	overcast
Recorded by:	RS	Air Temperature (°C/°F):	70
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☐ Grass ☒ Other

Surface Thickness (inches): ☒ Unknown

Initial ☒ Pressure ☐ Vacuum (in. H_2O): ~~109~~ -0.79 Time: 1109 Start Time of Pneumatic Testing: 1110

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1109	100	100	0.54
Prior to Purge	OK ☑ @ 1414	200	200	0.71
Prior to Sample Collection	OK ☑ @ 1436	500	500	1.32

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)
10/01/09	pneumatic test				—	9.2	9.9	2.3	81.7	—		3200 ppm
10/01/09	1414	1421	7	1.4	0.2	11.8	9.3	1.1	76.9	43.5	49.1	0.09
10/1/09	1421	1426	5	2.4	0.2	13.1	10.1	0.0	76.9	0	0	✱
10/1/09	1427	1432	5	3.4	0.2	13.1	10.0	0.1	76.9	0	0	✱

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max
10/1/09	1437	VW-96(20), 100ml	22959	FC00165		-28.55	-3.33	21.9	22.2

Comments:

✱ He never barely lived after 1st reading used for sampling only

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID 96(25) ☐ Sub-slab Probe ☒ Nested Probe

Date:	10/01/09	PID (make/model/serial number):	Mini Rae 2000 110-007718
Project Name:	Hooven UI	Landtech (model/serial number):	520 E1365705
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 452826x
Site Location:	Hooven, OH	Manometer (make/model/serial number):	
Field Personnel:	Matt Mitchell, Ryan Strohmaier	Weather:	overcast
Recorded by:	RS	Air Temperature (°C/°F):	70
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☐ Grass ☒ Other

Surface Thickness (inches): ☒ Unknown

Initial ☒ Pressure ☐ Vacuum (in. H_2O): -0.44 | Time: 1117 | Start Time of Pneumatic Testing: 1118

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1117		100	0.61
Prior to Purge	OK ☑ @ 1450		200	0.88
Prior to Sample Collection	OK ☑ @ 1525		500	2.62

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
10/01/09	pneumatic test			—		19.0	8.4	2.8	52.6	—		13
10/1/09	1450	1457	7	1.4	0.2	24.8	8.7	0.8	60.8	41.2	53.3	2.1
10/1/09	1457	1502	5	2.4	0.2	22.8	7.0	3.4	52.8	0	0	2.1
10/1/09	1502	1507	5	3.4	0.2	27.1	8.5	0.5	63.9	0	0	~~0~~
10/1/09	1507	1512	5	4.4	0.2	26.4	8.0	1.9	63.9	0	0	~~0~~
10/1/09	1512	1517	5	5.4	0.2	31.0	9.0	0.0	69.9	0	0	~~0~~
10/1/09	1517	1522	5	6.4	0.2	30.9	8.8	0.0	65.1	0	0	~~0~~

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
10/1/09	1525	VW-96(25) 100109	2167	FC00077	—	-28.61	-8.04	20.2	35.8

Comments:

~~0~~ He meter dead used for sampling only after 2nd reading

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID 96(30) ☐ Sub-slab Probe ☒ Nested Probe

Date:	10/01/09	PID (make/model/serial number):	Mini Rae 2000 110-007718
Project Name:	Hooven UI	Landtech (model/serial number):	500 E1365705
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 452876X
Site Location:	Hooven, OH	Manometer (make/model/serial number):	
Field Personnel:	Matt Mitchell, Ryan Strohmayer	Weather:	overcast
Recorded by:	RS	Air Temperature (°C/°F):	70
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☐ Grass ☒ Other

Surface Thickness (inches): ☒ Unknown

Initial ☑ Pressure ☐ Vacuum (in. H_2O): 0.02 Time: 1129 | Start Time of Pneumatic Testing:

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☑ @ 1129	1	0.1	-0.12
Prior to Purge	OK ☒ @ 1541	1	0.2	-0.21
Prior to Sample Collection	OK ☒ @ 1611	1	0.5	-0.58

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)
10/01/09		Pneumatic		test	—	26.0	6.7	6.7	92	—		20,000 ppm
10/1/09	1542	1549	7	1.4	0.2	43.6	9.0	1.3	91.6	20.2	38.1	2.3
10/1/09	1549	1556	7	3.1	0.2	43.0	8.6	2.0	92	* —		2.4
	~~1556~~	~~1610~~ 1605	~~7~~						~~91~~			
	1556	1603	7	9.5	0.2	43.4	8.8	1.3	91	—		—
	1603	1610	7	5.9	0.2	42.8	8.5	2.3	89	—		—

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max
10/1/09	1612	UW96(30)100109	33733	FC00349	—	29.01	2.72	10.3	18

Comments: * He meter battery dead, ~~[illegible]~~ charging + using for first 4 bag readings + during sampling

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID 96 (35) ☐ Sub-slab Probe ☒ Nested Probe

Date:	10/01/09	PID (make/model/serial number):	Mini Rae 2000 110-007718
Project Name:	Hoover UI	Landtech (model/serial number):	500 E1365705
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 452826x
Site Location:	Hoover OH	Manometer (make/model/serial number):	
Field Personnel:	Matt Mitchell, Ryan Strohmaier	Weather:	overcast
Recorded by:	RS	Air Temperature (°C/°F):	70
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☐ Grass ☒ Other

Surface Thickness (inches): ☒ Unknown

Initial ☐ Pressure ☒ Vacuum (in. H_2O): -0.02 Time: 1137 Start Time of Pneumatic Testing:

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☐ @ 1137	1	0.1	0.12
Prior to Purge	OK ☒ @ 1620	1	0.2	0.25
Prior to Sample Collection	OK ☒ @ 1654	1	0.5	0.63

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)
10/01/09		Pneumatic test				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	36.7	2.5
	1630	1637	7	2.8	0.2	48.0	8.1	3.7	89.0	—		2.5
*	1637	1644	7	8.2	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	Helium beneath Shroud (%) Max
10/01/09	1654	UW 96(35) 100109	34601	F00398	—	-28.34	-1.96	18.6	42.7
		BD-2-100109	34600	F00398	—	-29.21	-2.01	"	"

Comments: * potential PID error

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID 96 (40) ☐ Sub-slab Probe ☒ Nested Probe

Date:	10/01/09	PID (make/model/serial number):	Mini Rae 2000 110-007718
Project Name:	Hooven UI	Landtech (model/serial number):	500 E1365705
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 452826X
Site Location:	Hooven OH	Manometer (make/model/serial number):	
Field Personnel:	Matt Mitchell, Ryan Shohmaier	Weather:	overcast
Recorded by:	RS	Air Temperature (°C/°F):	70
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☐ Grass ☒ Other

Surface Thickness (inches): ☒ Unknown

Initial ☒ Pressure ☐ Vacuum (in. H_2O): 0.24 Time: 1145 Start Time of Pneumatic Testing: 1146

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1145		100	0.12
Prior to Purge	OK ☒ @ 1708		200	0.28
Prior to Sample Collection	OK ☒ @ 1739		500	0.74

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)
10/01/09	pneumatic	test		—	—	34.0	6.9	7.4	120	—		2.1
	1708	1715	7	1.4	0.2	68.1	9.7	1.3	116	22.7	60.0	2.6
*	1715	1722	7	2.8	0.2	64.3	9.2	2.3	6.2	* —		2.8
*	1722	1729	7	4.2	0.2	76.9	10.6	0.1	4.3	—		—
	1729	1736	7	5.4	0.2	75.4	10.3	0.3	115	—		—

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max
10/01/09	1740	UW 96(40)100109	24395	FC00145	—	28.26	-1.23	14.1	22.4

Comments: - no helium, no shroud
* potential PID error

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID 96(45) ☐ Sub-slab Probe ☑ Nested Probe

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

Surface Type: ☐ Concrete ☐ Asphalt ☐ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial ☑ Pressure ☐ Vacuum (in. H_2O): 0.13 Time: 1153 | Start Time of Pneumatic Testing: 1153

Shut-in Testing			Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☑ @	1153	1	0.1	-0.14
Prior to Purge	OK ☑ @	0952	1	0.2	-0.29
Prior to Sample Collection	OK ☐ @		1	0.5	-0.78

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)
			Pneumatic			58.5	9.4	2.3	115			2.1
Oct 2/09	0952	0959	7	1.4	0.2	70.1	9.0	4.1	122	12.9	24.6	3
	0959	1006	7	2.8	0.2	88.8	9.0	2.3	133	* —		3.3
	1006	1015	9	4.4	0.2	99.9	0	0	130	—	—	3.5
	1019	1024	5	5.6	0.2	99.9	0	0.5	140	—	—	—
	1028	1032	5	6.6	0.2	99.3	0.4	0.5	146	—	—	—

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

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

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-96 (50) ☐ Sub-slab Probe ☑ Nested Probe

Date:	10/1/09	PID (make/model/serial number):	Mini Rae 2000 110-00718
Project Name:	Hoover VI	Landtech (model/serial number):	500 E 136510S
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 452825x
Site Location:	Hoover, OH	Manometer (make/model/serial number):	
Field Personnel:	Matt Mitchell/Ryan Stohmaier	Weather:	Sunny
Recorded by:	Matt Mitchell	Air Temperature (°C/°F):	50°
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☐ Grass ☑ Other

Surface Thickness (inches): ☑ Unknown

Initial ☑ Pressure ☐ Vacuum (in. H_2O): 0.12 Time: 1157 Start Time of Pneumatic Testing:

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☐ @ 1157	1	0.1	-0.20
Prior to Purge	OK ☑ @ 1120	1	0.2	-0.40
Prior to Sample Collection	OK ☐ @	1	0.5	-0.89

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)
		Pneumatic				44.8	6.6	7.4	134	—		2.2
Oct 1/09	1120	1127	7	0.2	1.4	99.0	0	2.0	140	10.2	24.6	4.1
Oct 2 09	1127	1134	7	0.2	1.4	99.0	0	2.8	148	0	0	4.0
10/2/09	1134	1139	5	0.2	1.0	99.0	0	1.0	150	0	0	4.2

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max
Oct 1/09	1155	VW 96(50) 100109	31768	FC 00303	—	-28.94	-3.30	15.5	33.1

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID 96(SS) ☐ Sub-slab Probe ☑ Nested Probe

Date:	10/1/09	PID (make/model/serial number):	mini Rae 2000 110-002718
Project Name:	Hoover VI	Landtech (model/serial number):	500 E1365 105
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 452826X
Site Location:	Hoover, OH	Manometer (make/model/serial number):	
Field Personnel:	Matt Mitchell	Weather:	Sunny
Recorded by:	Matt Mitchell	Air Temperature (°C/°F):	75°
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☐ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial ☐ Pressure ☐ Vacuum (in. H_2O): 0.35 Time: 1203

Shut-in Testing		Start Time of Pneumatic Testing:		
		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☑ @ 1203	1	0.1	-0.18
Prior to Purge	OK ☑ @ 1035	1	0.2	-0.33
Prior to Sample Collection	OK ☑ @ 1105	1	0.5	-0.89

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
		Pneumatic				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 (%)	
			2176	FC00820		28.99		Min	Max
10/2/09	1105	VW-96(SS)100209	~~2176~~	~~FC00703~~	—	~~28.94~~	3.56	10.8	30.2

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID MW96(60) ☐ Sub-slab Probe ☑ Nested Probe

Date:	10/1/09	PID (make/model/serial number):	Minirae 2000 110-007718
Project Name:	Hoover VI	Landtech (model/serial number):	500-E136510S
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 452826X
Site Location:	Hoover, OH	Manometer (make/model/serial number):	
Field Personnel:	Matt Mitchell	Weather:	Sunny
Recorded by:	Matt Mitchell	Air Temperature (°C/°F):	74°
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☐ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial ☑ Pressure ☐ Vacuum (in. H_2O): 0.12 Time: 1209

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☑ @ 1209	1	0.1	-0.15
Prior to Purge	OK ☑ @ 1223	1	0.2	-0.35
Prior to Sample Collection	OK ☐ @	1	0.5	-1.03

Start Time of Pneumatic Testing:

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)
		Pneumatic				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	Helium beneath Shroud (%) Max
Oct 1/09	1248	MW96(60) 100204	3393	FC00838	—	28.41	9.10	15.4	20.2

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID UW 99(SA) ☐ Sub-slab Probe ☒ Nested Probe

Date:	Oct 2/09	PID (make/model/serial number):	minirae 2000 110-007718
Project Name:	Hoover VI	Landtech (model/serial number):	500-E136510S
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 452826X
Site Location:	Hoover, OH	Manometer (make/model/serial number):	—
Field Personnel:	Matt Mitchell Ryan Strohmaier	Weather:	Sunny
Recorded by:	Matt Mitchell	Air Temperature (°C/°F):	70°
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☒ Unknown

Initial ☒ Pressure ☐ Vacuum (in. H_2O): -0.91 Time: 1403

Start Time of Pneumatic Testing:

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1410	1	100	0.0
Prior to Purge	OK ☒ @ 1420	1	200	0.02
Prior to Sample Collection	OK ☒ @ 1444	1	500	0.17

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)
10/2/09			Pneumatic			1.5	5.1	5.6	135	—	—	0
10/2/09	1420	1425	5	1.0	0.2	1.3	4.7	6.3	131	13.2	28.2	0
	1425	1430	5	1.0	0.2	1.3	5.3	4.5	10.5	16.5	28.5	0
	1430	1435	5	1.0	0.2	1.3	5.0	5.4	10.8	13.6	30.0	0
	1436	1441	5	1.0	0.2	1.3	5.2	4.5	10.3	16.2	28.3	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max
Oct 2/09	1445	UW 99(SA)100209	33388	F00159	—	29.12	3.63	13.5	30.1

Comments:

0

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-99(10) ☐ Sub-slab Probe ☒ Nested Probe

Date:	10/02/09	PID (make/model/serial number):	MINI RAE 2000 110-008693
Project Name:	HOOVER U1	Landtech (model/serial number):	02029
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 US3096X
Site Location:	HOOVER, OH	Manometer (make/model/serial number):	HELSE
Field Personnel:	AB, PM	Weather:	CLOUDY
Recorded by:	AB	Air Temperature (°C/°F):	60°
		Atmospheric Pressure (in. Hg):	29.01

Surface Type: ☐ Concrete ☐ Asphalt ☐ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial Pressure/Vacuum (in. H_2O): 0.0	Time: 0953	Field Tubing blank reading (ppm): —	Time: —

Shut-in Testing	
Prior to Pneumatic	OK ☒ @ 0953
Prior to Purge	OK ☐ @
Prior to Sample Collection	OK ☐ @

Start of Pneumatic Testing: 0953

Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
0.5	0.1	-0.09
1.0	0.2	-0.14
1.5	0.5	-0.38

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
10/2/09	PNEUMATIC		—	~1.5	—	0.0	0.4	19.7	0	—	—	—
10/2/09	1602	1607	5	1.0	0.2	2.5	7.0	4.1	76.8	12.4	31.8	0
10/2/09	1607	1612	5	1.0	0.2	2.6	6.9	4.8	6.4	15.1	27.8	0
10/2/09	1612	1617	5	1.0	0.2	2.4	6.7	4.3	47.6	18.9	29.1	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
10/2/09	1625	VW-99(10), 100209	2083	FL007 93	1029357	29.02	2.5	25.0	40.1

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-99(15) ☐ Sub-slab Probe ☒ Nested Probe

Date:	10/2/09	PID (make/model/serial number):	MINI RAE 2000 110-008693
Project Name:	SHOUGUN U1	Landtech (model/serial number):	02029
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MLD200 1153096
Site Location:	HOUGUN U1	Manometer (make/model/serial number):	H6156
Field Personnel:	AS PM	Weather:	sunny
Recorded by:	AS	Air Temperature (°C/°F):	60°
		Atmospheric Pressure (in. Hg):	29.01

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial Pressure/Vacuum (in. H_2O): 0.0	Time: 0956	Field Tubing blank reading (ppm): —	Time: —

Shut-in Testing		
Prior to Pneumatic	OK ☒ @ 0956	
Prior to Purge	OK ☒ @ 1533	
Prior to Sample Collection	OK ☒ @	

Start of Pneumatic Testing: 0956

Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
0.5	0.1	-0.08
1.0	0.2	-0.15
1.5	0.5	-0.41

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)
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	Helium beneath Shroud (%) 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

Trihydro CORPORATION

Well ID VW-99(20) ☐ Sub-slab Probe ☒ Nested Probe

Date:	10/2/09	PID (make/model/serial number):	MINI RAE 2000 110-0088693
Project Name:	HOOVER N1	Landtech (model/serial number):	152029
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 U53096X
Site Location:	HOOVER OH	Manometer (make/model/serial number):	HEISE
Field Personnel:	AS PM	Weather:	CLOUDY
Recorded by:	AS	Air Temperature (°C/°F):	60°
		Atmospheric Pressure (in. Hg):	29.01

Surface Type:	☐ Concrete	☐ Asphalt	☒ Grass ☐ Other
Surface Thickness (inches):			☐ Unknown

Initial Pressure/Vacuum (in. H_2O):	0.0	Time: 1003	Field Tubing blank reading (ppm): — Time: —

Shut-in Testing		
Prior to Pneumatic	OK ☒ @	1003
Prior to Purge	OK ☒ @	1500
Prior to Sample Collection	OK ☒ @	1500

Start of Pneumatic Testing: 1004

Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
0.5	0.1	-0.1
1.0	0.2	-0.18
1.5	0.5	-0.47

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
10/2	PNEUMATIC		—	1.5	—	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	1511	1516	5	1.0	0.2	48.8	12.4	0.0	190	29.1	50.1	3050
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	2218	FC00564	1529357	29.04	3.39	17.3	38.2

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-99 (25) ☐ Sub-slab Probe ☒ Nested Probe

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

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial Pressure/Vacuum (in. H_2O): 0.00	Time: 1006	Field Tubing blank reading (ppm): —	Time: —

Shut-in Testing		
Prior to Pneumatic	OK ☒ @	1006
Prior to Purge	OK ☒ @	1422
Prior to Sample Collection	OK ☒ @	1422

Start of Pneumatic Testing: 1006

Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
0.5	0.1	-0.1
1.0	0.2	-0.19
1.5	0.5	-0.54

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)	
10/2	PNEUMATIC		-	~1.5	-	25.8	9.5	2.1	0.0	-	-	-	
10/2	1424	1429	5	1.0	0.2	20.4	9.9	2.5	179	14.7	38.8	4350	2
10/2	1439	1434	5	1.0	0.2	22.2	11.7	0.0	0.0	29.8	30.6	1200	1
10/2	1434	1439	5	1.0	0.2	22.3	11.2	0.4	227	NO HELIUM		4300	2
10/2	1442	1447	5	1.0	0.2	23.2	12.1	0.0	0.0	17.3	22.7	2725	1

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

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-99 (30) ☐ Sub-slab Probe ☒ Nested Probe

Date:	10/2/09	PID (make/model/serial number):	MINI RAE 2000 110-006693
Project Name:	HOOVER U1	Landtech (model/serial number):	02029
Project Number:	560-016-612	Helium Detector (make/model/serial number):	MHD2052 U53096X
Site Location:	HOOVER OH	Manometer (make/model/serial number):	HEISE
Field Personnel:	AS, PM	Weather:	CLOUDY
Recorded by:	AS	Air Temperature (°C/°F):	60°
		Atmospheric Pressure (in. Hg):	29.01

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial Pressure/Vacuum (in. H_2O): 0.0	Time: 1009	Field Tubing blank reading (ppm): —	Time: —

Shut-in Testing		
Prior to Pneumatic	OK ☒ @	1009
Prior to Purge	OK ☒ @	1351
Prior to Sample Collection	OK ☒ @	1351

Start of Pneumatic Testing: 1009

Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
0.5	0.1	-0.11
1.0	0.2	-0.21
	0.5	-0.54

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)
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	Helium beneath Shroud (%) Max
10/2/09	1420	VW-99(30),100209	30817	FC00857	1029357	29.05	3.98	24.3	29.8
			34668	FC00816	1029357	28.99	5.66		
				DID NOT USE					

Comments: DID NOT USE FC00857

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-99(35) ☐ Sub-slab Probe ☒ Nested Probe

Date:	10/2/02	PID (make/model/serial number):	MINIRAE 2000 110-006693
Project Name:	HOOVEN VI	Landtech (model/serial number):	02029
Project Number:	500-016-02	Helium Detector (make/model/serial number):	MGD2002 453096X
Site Location:	HOOVEN OH	Manometer (make/model/serial number):	HEISE
Field Personnel:	AS PM	Weather:	PARTLY CLOUDY
Recorded by:	AS	Air Temperature (°C/°F):	60°
		Atmospheric Pressure (in. Hg):	29.01

Surface Type:	☐ Concrete	☐ Asphalt	☒ Grass	☐ Other
Surface Thickness (inches):			☐ Unknown	

Initial Pressure/Vacuum (in. H_2O): +0.01	Time: 1011	Field Tubing blank reading (ppm): —	Time: —

Shut-in Testing		
Prior to Pneumatic	OK ☒ @ 1011	
Prior to Purge	OK ☒ @ 1316	
Prior to Sample Collection	OK ☒ @ 1317	

Start of Pneumatic Testing: 1011

Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
0.5	0.1	-0.12
1.0	0.2	-0.25
1.5	0.5	-0.65

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)	
10/2	PNEUMATIC		—	~1.5	—	32.7	12.0	0.2	0	—	—	—	
10/2	1318	1323	5	1.0	0.2	5.9	2.3	17.2	0.6	18.2	48.7	0	1
10/2	1323	1329	5	1.0	0.2	42.4	10.1	2.2	0.0	19.5	49.3	0	2
10/2	1334	1339	5	1.0	0.2	44.7	11.2	0.3	0.1	14.7	28.9	0	1

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

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-99 (40) ☐ Sub-slab Probe ☒ Nested Probe

Date:	10/2/09	PID (make/model/serial number):	MINI RAE 2000 110-008693
Project Name:	HOOVER VI	Landtech (model/serial number):	152029
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD2002 1530961
Site Location:	HOOVER OH	Manometer (make/model/serial number):	HEISE
Field Personnel:	AS PM	Weather:	PARTLY CLOUDY
Recorded by:	AS	Air Temperature (°C/°F):	60°
		Atmospheric Pressure (in. Hg):	29.01

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial Pressure/Vacuum (in. H_2O): +0.02	Time: 1013	Field Tubing blank reading (ppm): –	Time: –

Shut-in Testing		
Prior to Pneumatic	OK ☒ @	1014
Prior to Purge	OK ☒ @	1240
Prior to Sample Collection	OK ☒ @	1240

Start of Pneumatic Testing: 1014

Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
0.5	0.1	-0.11
1.0	0.2	-0.23
1.5	0.5	-0.69

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)
10/2	PNEUMATIC		–	~1.5	–	67.4	11.3	0.0	173	–	–	–
10/2	1240	1245	5	1.0	0.25	71.2	10.7	0.6	230	NO HELIUM		8500
10/2	1245	1250	5	1.0	0.2	51.2	9.6	2.6	227	40.1	45.7	1825
10/2	1250	1255	5	1.0	0.2	55.1	10.3	1.3	1.2 ?	NO HELIUM		0 ?
10/2	1255	1300	5	1.0	0.2	52.0	10.4	1.0	1.3	31	45	0 ?

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max
10/2/09	1314	VW-99(40),100209	11900	FC00751	1029357	29.03	4.05	25.4	47.9

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-99 (45) ☐ Sub-slab Probe ☒ Nested Probe

Date:	10/2/09	PID (make/model/serial number):	MINI RAE 2000 110-008693
Project Name:	HOOVER VI	Landtech (model/serial number):	02029
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD2002 US30960X
Site Location:	HOOVER OH	Manometer (make/model/serial number):	H6156
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_2O): 0.02	Time: 1016	Field Tubing blank reading (ppm): —	Time: —

Shut-in Testing		
Prior to Pneumatic	OK ☒ @	1016
Prior to Purge	OK ☒ @	~~1~~ 1210
Prior to Sample Collection	OK ☒ @	1211

Start of Pneumatic Testing: 1016

Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
0.5	0.1	-0.13
1.0	0.2	-0.28
1.5	0.5	-0.77

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)
10/2	PNEUMATIC			~1.5	—	59.5	11.3	0.0	202	—	—	—
10/2	1214	1220	6	~1	0.175	38.6	~~8.6~~	3.6	317	No Helium		4850
10/2	1220	1225	5	2.1	0.200	49.8	8.7	3.5	231	16.9	18.0	250
10/2	1226	1231	5	2.1	0.200	76.6	11.3	0.0	217	No Helium		6825

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max
10/2/09	1238	VW-99(45),100209	2032	FC00153	1029357	29.02	4.24	15.4	24.2

Comments:

SOIL VAPOR FIELD FORM

VW-99(50)

Trihydro CORPORATION

Well ID ~~VW-60(~~ ~~VW-99(60)~~ KS ☐ Sub-slab Probe ☒ Nested Probe

Date:	10/2/09	PID (make/model/serial number):	MINIRAE 2000 110-008693
Project Name:	HOOVER V1	Landtech (model/serial number):	02029
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MH02002 U53096K
Site Location:	HOOVER OH	Manometer (make/model/serial number):	HEISE
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_2O): +0.02	Time: 1024	Field Tubing blank reading (ppm): —	Time: —

Shut-in Testing		
Prior to Pneumatic	OK ☒ @ 1024	
Prior to Purge	OK ☒ @ 1033	
Prior to Sample Collection	OK ☒ @	

Start of Pneumatic Testing: 1024

Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
0.5	0.1	-0.15
1.0	0.2	-0.32
1.5	0.5	-0.86

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)
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	Helium beneath Shroud (%) Max
10/2/2009	1108	VW-99(60), 100209	9353	FC002800	1029357	28.97		30.5	~~36.2~~
									46.1

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-99 (55) ☐ Sub-slab Probe ☒ Nested Probe

Date:	10/2/09	PID (make/model/serial number):	MINI RAE 2000 110-006693
Project Name:	HOOVER VI	Landtech (model/serial number):	02029
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 H53096X
Site Location:	HOOVER OH	Manometer (make/model/serial number):	H6156
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_2O): ↑ 0.03	Time: 1021	Field Tubing blank reading (ppm): —	Time: —

Shut-in Testing		
Prior to Pneumatic	OK ☒ @	1021
Prior to Purge	OK ☒ @	1109
Prior to Sample Collection	OK ☒ @	1110

Start of Pneumatic Testing: 1021

Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
0.5	0.1	-0.15
1.0	0.2	-0.34
	0.5	-0.95

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)
10/2	PNEUMATIC		~	~1.5	—	65.5	10.7	0.0	296	—	—	—
10/2	1110	1115	5	1.0	0.2	99.9	11.4	0.8	304	NO HELIUM		10,025
10/2	~~1120~~ 1115	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	>>	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	Helium beneath Shroud (%) Max
10/2	1136	VW-99(55), 100209	34610	FC00466	1029357	28.96	4.58	32.7	42.2

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-99(60) ☐ Sub-slab Probe ☑ Nested Probe

Date:	10/2/09	PID (make/model/serial number):	MINIRAE 2000 110-006693
Project Name:	HOUGW VI	Landtech (model/serial number):	02029
Project Number:	500-016-612	Helium Detector (make/model/serial number):	MLD2002 1153096X
Site Location:	HOUGW, OH	Manometer (make/model/serial number):	HELSE
Field Personnel:	AS PM	Weather:	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_2O): ~~0.05~~ 0.00	Time: 1019	Field Tubing blank reading (ppm): —	Time: —

Shut-in Testing		
Prior to Pneumatic	OK ☒ @	1019
Prior to Purge	OK ☒ @	1144
Prior to Sample Collection	OK ☒ @	

Start of Pneumatic Testing: ~~1019~~ 1142

Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
0.5	0.1	~~-0.15~~ -0.04
1.0	0.2	~~-0.32~~ -0.10
1.5	0.5	~~-0.89~~ -0.32

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)
10/2	PNEUMATIC		—	~1.5	—	~~25.9~~ ~~10.6~~	~~10.6~~ ~~10.9~~	~~1.0~~ ~~0.0~~	~~220~~ 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	30.8	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	Helium beneath Shroud (%) Max
			~~1739~~	~~FC005505~~		~~28.48~~			
10/2	1205	VW-99(60), 100209	9332	~~FC~~ 6561	1029357	28.94	4.30	28.0	29.7

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-127(5) ☐ Sub-slab Probe ☒ Nested Probe

Date:	10/1/09	PID (make/model/serial number):	MINI RAE 110-008693
Project Name:	HOOVER, ~~OH~~ VI	Landtech (model/serial number):	02029
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD2002 H53096X
Site Location:	HOOVER, OH	Manometer (make/model/serial number):	NEISE
Field Personnel:	AS, PM	Weather:	CLOUDY
Recorded by:	AS	Air Temperature (°C/°F):	55°
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☒ Asphalt ☐ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial Pressure/~~Vacuum~~ (in. H_2O): -0.67	Time: 1104	Field Tubing blank reading (ppm): —	Time: ~~1107~~

Shut-in Testing		Start of Pneumatic Testing: 1107		
Prior to Pneumatic	OK ☒ @ 1104	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Purge	OK ☒ @ 1536	0.5	0.1	-0.5
Prior to Sample Collection	OK ☒ @ 1536	1.0	0.2	~~-9.~~ -0.91
		1.5	0.5	-2.13

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
10/1	PNEUMATIC		—	~1.5	—	00.1	4.6	13.0	7.3	—	—	—
10/1	1538	1543	5	1.0	0.2	~~15~~ 0.0	4.4	14.6	0.3	13.1	28.9	0
10/1	1543	1548	5	1.0	0.2	0.0	4.7	14.3	0.0	28.9	34.3	0
10/1	1548	1553	5	1.0	0.2	0.0	4.5	14.3	0.0	16.5	25.0	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
10/~~001~~/09	1600	VW-127(5),100109	36376	6570	1029357	29.11	4.65	16.5	25.8

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-127(10) ☐ Sub-slab Probe ☒ Nested Probe

Date:	10/1/09	PID (make/model/serial number):	MINI RAE 2000 110-006693
Project Name:	HOOVER VI	Landtech (model/serial number):	02029
Project Number:	500-016-02	Helium Detector (make/model/serial number):	MWD2002 1156096X
Site Location:	HOOVER, OH	Manometer (make/model/serial number):	WEISE
Field Personnel:	AS, PM	Weather:	CLOUDY
Recorded by:	AS	Air Temperature (°C/°F):	55°
		Atmospheric Pressure (in. Hg):	

Surface Type:	☐ Concrete	☒ Asphalt	☐ Grass	☐ Other
Surface Thickness (inches):		9	☐ Unknown	

Initial Pressure/Vacuum (in. H_2O):	-0.76	Time: 1113	Field Tubing blank reading (ppm): —	Time: ~~1114~~

Shut-in Testing		Start of Pneumatic Testing: 1114		
Prior to Pneumatic	OK ☒ @ 1113	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Purge	OK ☐ @	0.5	0.1	-0.38
Prior to Sample Collection	OK ☐ @	1.0	0.2	-0.45
		1.5	0.5	-0.84

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
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

Trihydro CORPORATION

Well ID VW-127(15) ☐ Sub-slab Probe ☒ Nested Probe

Date:	10/1/09	PID (make/model/serial number):	MINIRAE 2000 110-008693
Project Name:	HOOVER VI	Landtech (model/serial number):	02029
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 US30968
Site Location:	HOOVER, OH	Manometer (make/model/serial number):	HEISE
Field Personnel:	AS, PM	Weather:	CLOUDY
Recorded by:	AS	Air Temperature (°C/°F):	55°
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☒ Asphalt ☐ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial Pressure/Vacuum (in. H_2O): -0.76	Time: 1120	Field Tubing blank reading (ppm): —	Time: —

Shut-in Testing		Start of Pneumatic Testing: ~~1127~~ 1132		
Prior to Pneumatic	OK ☒ @ ~~1127~~ 1132	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Purge	OK ☒ @ 1448	~~0.1~~ 0.5	0.1	-0.03
Prior to Sample Collection	OK ☒ @ 1449	1.0	0.2	-0.10
		1.5	0.5	-0.30

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
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),100106	33717	0673	1029357	29.13	4.35	32.5	36.5

Comments: PULLED WATER FROM VALVE. REPEAT SHUT-IN

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-127(20) ☐ Sub-slab Probe ☐ Nested Probe

Date:	10/1/09	PID (make/model/serial number):	MINI RAE 2000 110-008693
Project Name:	HOOVEN U1	Landtech (model/serial number):	52029
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 453096X
Site Location:	HOOVEN, OH	Manometer (make/model/serial number):	HEISE
Field Personnel:	AS, PM	Weather:	CLOUDY
Recorded by:	AS	Air Temperature (°C/°F):	55°
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☒ Asphalt ☐ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial Pressure/Vacuum (in. H_2O): -0.3	Time: 1135	Field Tubing blank reading (ppm): —	Time: —

Shut-in Testing		Start of Pneumatic Testing: 1136		
Prior to Pneumatic	OK ☒ @ 1136	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Purge	OK ☒ @ 1415	0.5	0.1	-0.03
Prior to Sample Collection	OK ☒ @ 1415	1.0	0.2	-0.11
		1.5	0.5	-0.45

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
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	1425	1430	5	1.0	0.2	0.0	5.0	11.5	0.0	26.7	31.9	0
10/1	1430	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), 100109	36544	40671	1029357	28.99	2.21	18	29

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-127(30) ☐ Sub-slab Probe ☒ Nested Probe

Date:	10/1/09	PID (make/model/serial number):	MINI RAE 2000 110-008693
Project Name:	HOOVER VI	Landtech (model/serial number):	02029
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 U53096X
Site Location:	HOOVER OH	Manometer (make/model/serial number):	HEISE
Field Personnel:	AS PM	Weather:	CLOUDY
Recorded by:	AS	Air Temperature (°C/°F):	55°
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☒ Asphalt ☐ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial Pressure/Vacuum (in. H_2O):	-0.15	Time: 1138	Field Tubing blank reading (ppm): —	Time: —

Shut-in Testing		Start of Pneumatic Testing: 1139		
		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1139	0.5	0.2	-1.89
Prior to Purge	OK ☒ @ ~~1330~~ ~~1337~~ 1341	1.0	0.4	-5.36
Prior to Sample Collection	OK ☒ @ 1342	1.5	0.8	~~-9~~ -10.19

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
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	~~13~~ 1400	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	1408	VW-127(30), 100109	~~31796~~	~~FC00315~~	1029357	~~29.10~~	3.30	20.5	49.0
			34603	6706		28.98			

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-127 (40) ☐ Sub-slab Probe ☒ Nested Probe

Date:	10/1/09	PID (make/model/serial number):	MINI RAE 2000 110-008693
Project Name:	HOOVER VI	Landtech (model/serial number):	02029
Project Number:	500-016-612	Helium Detector (make/model/serial number):	MGD2002 U530968
Site Location:	HOOVER, OH	Manometer (make/model/serial number):	HGISE
Field Personnel:	AS PM	Weather:	CLOUDY
Recorded by:	AS	Air Temperature (°C/°F):	55°
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☒ Asphalt ☐ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial Pressure/Vacuum (in. H_2O): +0.05	Time: 1142	Field Tubing blank reading (ppm): —	Time: —

Shut-in Testing		
Prior to Pneumatic	OK ☒ @	1143
Prior to Purge	OK ☒ @	1225
Prior to Sample Collection	OK ☒ @	1225

Start of Pneumatic Testing: 1143

Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
0.5	0.1	-0.06
1.0	0.2	-0.20
	0.5	-5.20

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
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),100109	34133	FC00584	1029357	29.10	4.46	15.6	44.0
10/1/09	1300	RD1,100109	34657	FC00641	1029357	29.19	4.49		

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-127 (50) ☐ Sub-slab Probe ☒ Nested Probe

Date:	10/1/09	PID (make/model/serial number):	MINI RAE 2000 110-008693
Project Name:	HOOVEN VI	Landtech (model/serial number):	02029
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD2002 US3096X
Site Location:	HOOVEN, OH	Manometer (make/model/serial number):	HEISE
Field Personnel:	AS PM	Weather:	CLOUDY
Recorded by:	AS	Air Temperature (°C/°F):	55°
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☒ Asphalt ☐ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial Pressure/Vacuum (in. H_2O): +0.08	Time: 1145	Field Tubing blank reading (ppm): —	Time: —

Shut-in Testing		Start of Pneumatic Testing: 1146		
Prior to Pneumatic	OK ☒ @ 1146	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Purge	OK ☒ @ 1153	0.5	0.1	-0.03
Prior to Sample Collection	OK ☒ @ 1154	1.0	0.2	-0.21
		1.5	0.	-0.57

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)
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	~~6.0~~ 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	Helium beneath Shroud (%) Max
10/1/09	1220	VW-127(50), ~~09~~ 100109	~~2923~~ AS	FC00463	1029357	29.23	4.19	29.0	31.2
			33413						

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-128(5) ☐ Sub-slab Probe ☒ Nested Probe

Date:	9/29/09	PID (make/model/serial number):	MINI RAE 2000 110-008693
Project Name:	HOOVER VI	Landtech (model/serial number):	02029
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD2002 U53096X
Site Location:	HOOVER, OH	Manometer (make/model/serial number):	Heise
Field Personnel:	AS, PM	Weather:	Cloudy, lt breeze
Recorded by:	AS	Air Temperature (°C/°F):	60°F
		Atmospheric Pressure (in. Hg):	29.29

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial ☐ Pressure ☒ Vacuum (in. H_2O): -0.15 Time: 1559 Start Time of Pneumatic Testing: 1600

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1600	0.5	0.1	-0.24
Prior to Purge	OK ☐ @	1.0	0.2	-0.47
Prior to Sample Collection	OK ☐ @	1.5	0.5	-1.09

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
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(5),100109	14523	FC00130	1029357	29.04	4.58	29.8	37.1

Comments:

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SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-128 (10) ☐ Sub-slab Probe ☒ Nested Probe

Date:	9/29/09	PID (make/model/serial number):	MINI RAE 2000 110-008693
Project Name:	HOOVEN VI	Landtech (model/serial number):	02029
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 U53096X
Site Location:	HOOVER, OH	Manometer (make/model/serial number):	Heise
Field Personnel:	AS, PM	Weather:	cloudy, slight breeze
Recorded by:	AS	Air Temperature (°C/°F):	60°
		Atmospheric Pressure (in. Hg):	29.29

Surface Type:	☐ Concrete	☐ Asphalt	☒ Grass	☐ Other
Surface Thickness (inches):			☐ Unknown	

Initial ☐ Pressure ☒ Vacuum (in. H_2O): -0.16	Time: 1605	Start Time of Pneumatic Testing: 1606		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1606	0.5	0.1	-0.70
Prior to Purge	OK ☒ @ 1730	~~0.1~~ 1.0	0.2	-1.74
Prior to Sample Collection	OK ☒ @ 1732	1.5	0.5	~~-3.~~ -5.01

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	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	1832	1837	4.5	1.0	0.2	0.0	2.8	17.4	0.0	23.5	29.4	0
10/1	1837	1842	5	1.0	0.2	0.0	2.9	17.1	0.0	25.2	29.1	0
10/1	1842	1847	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

Trihydro CORPORATION

Well ID VW-128(15) ☐ Sub-slab Probe ☒ Nested Probe

Date:	9/29/09	PID (make/model/serial number):	mini RAE 2000 110-008693
Project Name:	Hooven VI	Landtech (model/serial number):	02029
Project Number:	500-016-002	Helium Detector (make/model/serial number):	MGD2002 US3096X
Site Location:	Hooven, OH	Manometer (make/model/serial number):	Heise
Field Personnel:	AS, PM	Weather:	cloudy slight breeze
Recorded by:	AS	Air Temperature (°C/°F):	60°
		Atmospheric Pressure (in. Hg):	29.29

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial ☐ Pressure ☐ Vacuum (in. H_2O): 0.0 Time: 1614 | Start Time of Pneumatic Testing: 1614

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1614	0.5	0.1	-1.20
Prior to Purge	OK ☐ @	1.0	0.2	-2.23
Prior to Sample Collection	OK ☐ @	1.5	0.5	-5.14

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
9/29/09	PNEUMATIC		1.5+	~1.5	—	0.0	1.3	19.0	0.0	—	—	—
10/01/09	1702	1707	5	1.0	0.2	0.0	1.4	19.6	0.0	15	28.3	0
10/01/09	1707	1712	5	1.0	0.2	0.0	1.2	19.7	0.0	20.6	22.3	0
10/01/09	1712	1717	5	1.0	0.2	0.0	1.3	19.7	0.0	22.3	24.6	0

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

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-128 (20) ☐ Sub-slab Probe ☒ Nested Probe

Date:	9/29/09	PID (make/model/serial number):	mini RAE 2000 110-008693
Project Name:	Hooven VI	Landtech (model/serial number):	02029
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MAD2002 U53096X
Site Location:	Hooven, OH	Manometer (make/model/serial number):	Heise
Field Personnel:	AS, PM	Weather:	Cloudy, breeze
Recorded by:	AS	Air Temperature (°C/°F):	60°
		Atmospheric Pressure (in. Hg):	29.29

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial ☒ Pressure (NOT) ☒ Vacuum (in. H_2O): +0.01 Time: 1640 Start Time of Pneumatic Testing: 1642

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1642	0.5	0.1	-0.24
Prior to Purge	OK ☐ @	1.0	0.2	-0.84
Prior to Sample Collection	OK ☐ @	1.5	0.5	-2.44

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)
9/29	1643	1645	2	~1	—	0.0	1.3	19.3	0.0	—	—	—
9/30/09	1737	1742	5	1.0	0.2	0.0	1.2	19.4	3.9	17.1	36.3	0.0
9/30/09	1942	1749	87	1.04	0.2	0.0	1.3	19.3	2.1	16.5	24.7	0.0
9/30/09	1749	1754	5	1.0	0.2	0.0	1.5	17.7	0.3	16.1	46.0	0.0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max
9/30/0	1803	VW-128(20),093009	34643	FL00080	1029357	29.03	2.42	29.3	46.0

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-128 (30) ☐ Sub-slab Probe ☒ Nested Probe

Date:	9/29/09	PID (make/model/serial number):	MINIRAE2000 110-008693
Project Name:	Hooven VI	Landtech (model/serial number):	02029
Project Number:	560-016-012	Helium Detector (make/model/serial number):	MGD2002 453096X
Site Location:	Hooven OH	Manometer (make/model/serial number):	Heise
Field Personnel:	AS PM	Weather:	Cloudy, breeze
Recorded by:	AS	Air Temperature (°C/°F):	60°
		Atmospheric Pressure (in. Hg):	29.29

Surface Type:	☐ Concrete	☐ Asphalt	☒ Grass	☐ Other
Surface Thickness (inches):			☐ Unknown	

Initial ☐ Pressure ☒ Vacuum (in. H_2O): 0.24	Time: 1648	Start Time of Pneumatic Testing: 1649	

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1649	0.5	0.1	-0.34
Prior to Purge	OK ☒ @ 1637	1.0	0.2	-0.41
Prior to Sample Collection	OK ☒ @ 1638	1.5	0.5	-0.75

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
9/29	1649	1651	2	2.1	—	0.0	3.2	17.0	0.2	—	—	—
9/30	1644	1649	5	1.0	0.2	0.0	0.5	20.8	0.2	20.1	36.7	0
9/30	1649	1654	5	1.0	0.2	0.0	3.2	15.9	0.2	30.2	33.2	0
9/30	1654	1659	5	1.0	0.2	0.0	3.0	16.1	0.2	15.4	22.5	0
9/30	1659	1704	5	1.0	0.2	0.0	2.9	16.9	0.2	23.0	31.5	0

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

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-128(40) ☐ Sub-slab Probe ☒ Nested Probe

Date:	9/29/09	PID (make/model/serial number):	MINI RAE 2000 110-008693
Project Name:	Hooven VI	Landtech (model/serial number):	02029
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD2002 US3096X
Site Location:	Hooven OH	Manometer (make/model/serial number):	Heise
Field Personnel:	AS PM	Weather:	Cloudy breeze
Recorded by:	AS	Air Temperature (°C/°F):	60°
		Atmospheric Pressure (in. Hg):	29.29

Surface Type:	☐ Concrete	☐ Asphalt	☒ Grass	☐ Other
Surface Thickness (inches):			☐ Unknown	

Initial ☐ Pressure ☒ Vacuum (in. H_2O): 0.01	Time: 1653	Start Time of Pneumatic Testing: 1654		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1654	PO ~~Ta~~ 0.5	0.1	-0.07
Prior to Purge	OK ☒ @ 1746	1.0	0.2	-0.23
Prior to Sample Collection	OK ☒ @ 1747	1.5	0.5	-0.60

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max	Helium in Purge Interval (%)
9/29	1654	1656	2	~1	—	0.0	5.2	13.8	0.0	—	—	—
(10)	~~1750~~	~~1755~~	~~5~~	~~0.8~~	~~—~~	~~0.0~~				~~13.2~~	~~30.1~~	
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 2009	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%) Min	Helium beneath Shroud (%) Max
9/29	1831	VW-128(40), 092909	35593	FC00843	1029357	29.00	3.80	31.2	33.5

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-128 (50) ☐ Sub-slab Probe ☒ Nested Probe

Date:	9/29/09	PID (make/model/serial number):	MINIRAE 2000 110-008693
Project Name:	Hooven VI	Landtech (model/serial number):	02029
Project Number:	500016-012	Helium Detector (make/model/serial number):	MGD2002 U53096X
Site Location:	Hooven OH	Manometer (make/model/serial number):	Heise
Field Personnel:	AS PM	Weather:	Cloudy, breeze
Recorded by:	AS	Air Temperature (°C/°F):	60°
		Atmospheric Pressure (in. Hg):	29.29

Surface Type:	☐ Concrete	☐ Asphalt	☒ Grass	☐ Other
Surface Thickness (inches):			☐ Unknown	

Initial ☐ Pressure ☒ Vacuum (in. H_2O): -0.28	Time: 1701	Start Time of Pneumatic Testing: 1702		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1702	0.5	0.1	-0.41
Prior to Purge	OK ☒ @ 1710	1.0	0.2	-0.56
Prior to Sample Collection	OK ☒ @ 1711	1.5	0.5	-1.06

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
9/29	1702	1704	2	~1.0	–	0.0	7.5	6.5	0.0	—		
	1714	1719	5	1.0	0.2	0.0	5.5	11.3	0.0	18.0	22.2	0.0
	1720	1725	5	1.0	0.2	0.0	2.3	16.0	0.0	21.0	22.2	0.0
	1726	1730	5	1.0	0.2	0.0	3.5	14.8	0.0	20.9	22.1	0.0
	1730	1735	5	1.0	0.2	0.0	2.9	14.5	0.0	21.9	22.6	0.0

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

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID UW-129 5ft ☐ Sub-slab Probe ☑ Nested Probe

Date:	Sept 29/09	PID (make/model/serial number):	MiniRae 2000 - 110-007718
Project Name:	Hooven	Landtech (model/serial number):	Landtec 500 E1365/105
Project Number:	500-016-017	Helium Detector (make/model/serial number):	MGD 2002 - U57826X
Site Location:	Hooven, OH	Manometer (make/model/serial number):	SPER Scientific 930057
Field Personnel:	Matt Mitchell, Ryan Strakamaier	Weather:	overcast 65°F
Recorded by:	RS	Air Temperature (°C/°F):	65
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☐ Grass ☒ Other

Surface Thickness (inches): ☒ Unknown

Initial ☒ Pressure ☐ Vacuum (in. H_2O): -0.01 Time: 0944 Start Time of Pneumatic Testing: 1006

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 0958	20	100	-0.02
Prior to Purge	OK ☒ @ 1116	40	200	-0.07
Prior to Sample Collection	OK ☒ @ 1139	60	500	-0.18

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
Sept 29	1006	1007	1	3L	pneumatic	0.0	2.8	16.1	4.5 ppm	—	—	0
	1121	1126	5	1L	0.2	0	3.0	15.7	0.1	30.2	40.2	0
	1126	1131	5	1L	0.2	0	3.1	15.4	0	20.4	29.8	0
	1131	1136	5	1L	0.2	0	3.1	15.3	0	10.2	15.7	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
Sept 29	1140	UW-129(5)-092909	34122	FC00766	—	-29.03	-4.85	10.2	28.8

Comments: * residual from previous day

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID UW 129 10ft ☐ Sub-slab Probe ☒ Nested Probe

Date:	Sept 29/09	PID (make/model/serial number):	Mini Rae 2000 -110-007718
Project Name:	Hoover	Landtech (model/serial number):	Landtec 500 E1365/05
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002-452876 X
Site Location:	Hoover, OH	Manometer (make/model/serial number):	8
Field Personnel:	Matt Mitchell, Ryan Strohmaier	Weather:	Overcast
Recorded by:	RS	Air Temperature (°C/°F):	65
		Atmospheric Pressure (in. Hg):	

Surface Type:	☐ Concrete	☐ Asphalt	☐ Grass	☒ Other
Surface Thickness (inches):		☒ Unknown		

Initial ☒ Pressure ☐ Vacuum (in. H_2O): -0.12	Time: 0945	Start Time of Pneumatic Testing: 1026	

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1010	20	100	0.05
Prior to Purge	OK ☒ @ 1154	40	200	0.10
Prior to Sample Collection	OK ☒ @ 1213	60	500	0.25

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	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	~~0.2~~ 1	0.2	0	3.0	15.9	0	22.6	32.6	0
	1201	1206	5	~~0.2~~ 1	0.2	0	3.1	15.6	0	15.8	20.9	0
	1206	1211	5	~~0.2~~ 1	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

Trihydro CORPORATION

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

Date:	Sept 29/09	PID (make/model/serial number):	Mini Rae 2000 - 110 - 007718
Project Name:	Hooven	Landtech (model/serial number):	Landtec 500 E1365/05
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 - U57826X
Site Location:	Hooven, OH	Manometer (make/model/serial number):	
Field Personnel:	Matt Mitchell, Ryan Strohmaier	Weather:	overcast
Recorded by:	RS	Air Temperature (°C/°F):	65
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☐ Grass ☒ Other

Surface Thickness (inches): ☒ Unknown

Initial ☒ Pressure ☐ Vacuum (in. H_2O): -0.09 | Time: 0946 | Start Time of Pneumatic Testing: 1026

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1025	20	100	0.06
Prior to Purge	OK ☒ @ 1223	40	200	0.11
Prior to Sample Collection	OK ☒ @ 1252	60	500	0.35

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
Sept 29/09	1026	pneumatic		test	—	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) 092909	34082	FC00525	—	4.8	29.0	18.8	21.1

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID UW 129 20 ft ☐ Sub-slab Probe ☒ Nested Probe

Date:	Sept 29/09	PID (make/model/serial number):	Mini Rae 2000 - 110 - 007718
Project Name:	Hooven	Landtech (model/serial number):	Landtec 500 E1365/05
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 US28206X
Site Location:	Hooven, OH	Manometer (make/model/serial number):	
Field Personnel:	Matt Mitchell, Ryan Strohmeier	Weather:	overcast
Recorded by:	RS	Air Temperature (°C/°F):	65
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☐ Grass ☒ Other

Surface Thickness (inches): ☒ Unknown

Initial ☒ Pressure ☐ Vacuum (in. H_2O): -0.01 Time: 0947 Start Time of Pneumatic Testing: 1028

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ ~~1025~~ 1027	20	100	~~0.06~~ 0.05
Prior to Purge	OK ☒ @ 1302	40	200	~~0.11~~ 0.14
Prior to Sample Collection	OK ☒ @ 1320	60	500	~~0.35~~ 0.39

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
Sept 29	1028	pneumatic	test		—	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-129(20) 092909	36517	FC00124	—	29.02	4.15	12.3	23.9

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

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

Date:	Sept 29/09	PID (make/model/serial number):	Mini Rae 2000 110-007718
Project Name:	Hooven	Landtec (model/serial number):	Landtec 500 E1365/05
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 U578876X
Site Location:	Hooven, OH	Manometer (make/model/serial number):	
Field Personnel:	Matt Mitchell, Ryan Strohmaier	Weather:	overcast
Recorded by:	RS	Air Temperature (°C/°F):	65
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☐ Grass ☒ Other

Surface Thickness (inches): ☒ Unknown

Initial ☒ Pressure ☐ Vacuum (in. H_2O): +0.44 Time: 0948 Start Time of Pneumatic Testing: 1035

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1033	20	100	0.12
Prior to Purge	OK ☒ @ 1333	40	200	0.20
Prior to Sample Collection	OK ☒ @ 1419	60	500	0.53

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	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)092909	36491	FC00695	—	29.01	6.46	—	—

Comments: no helium meter available

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID UW 129 40 ft ☐ Sub-slab Probe ☒ Nested Probe

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

Surface Type: ☐ Concrete ☐ Asphalt ☐ Grass ☒ Other

Surface Thickness (inches): ☒ Unknown

Initial ☒ Pressure ☐ Vacuum (in. H_2O): -0.12 | Time: 0951 | Start Time of Pneumatic Testing: 1039

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1039	20	100	0.11
Prior to Purge	OK ☒ @ 1432	40	200	0.24
Prior to Sample Collection	OK ☐ @ 1450	60	500	0.67

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
Sept 29	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	10.0	22.3	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 29/09	1455	UW 129(40)092901	33707	FC 00413	—	29.00	-4.56	29.2	12.4

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW 129 50ft ☐ Sub-slab Probe ☒ Nested Probe

Date:	Sept 29/09	PID (make/model/serial number):	Mini Rae 2000 110-007718
Project Name:	Hooven	Landtech (model/serial number):	500 E1365/05
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 U5J826X
Site Location:	Hooven, OH	Manometer (make/model/serial number):	
Field Personnel:	Matt Mitchell, Ryan Strohmaier	Weather:	overcast
Recorded by:	RS	Air Temperature (°C/°F):	65
		Atmospheric Pressure (in. Hg):	

Surface Type: ☐ Concrete ☐ Asphalt ☐ Grass ☒ Other

Surface Thickness (inches): ☒ Unknown

Initial ☒ Pressure ☐ Vacuum (in. H_2O): -0.13 Time: 0952 Start Time of Pneumatic Testing: 1046

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1045	20	100	0.12
Prior to Purge	OK ☒ @ 1505	40	200	0.28
Prior to Sample Collection	OK ☒ @ 1520	60	500	0.84

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
Sept 29	1046	pneumatic test			—	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	FC 00 782	—	29.02	5.23		

Comments:

FC00179 not used

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW - 130 (5) ☐ Sub-slab Probe ☒ Nested Probe

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

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial ☐ Pressure ☒ Vacuum (in. H_2O): ~~-0.20~~ -0.10 Time: ~~0945~~ 0951 | Start Time of Pneumatic Testing: 0951

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 0949	0.5	0.2	-.12
Prior to Purge	OK ☒ @ 1355	1.0	0.4	-0.25
Prior to Sample Collection	OK ☒ @ 1356	1.5	0.8	-0.55

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	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	17.1 ~~20~~	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	VW130(5), 092909	2068	FC00102	1029357	29.02	3.74	17.5	22.6

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-130 (10') ☐ Sub-slab Probe ☒ Nested Probe

Date:	9/29/09	PID (make/model/serial number):	MINI RAE 110-006693
Project Name:	HOOVEN U1	Landtech (model/serial number):	02029
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 U53096X
Site Location:	HOOVEN, OH	Manometer (make/model/serial number):	HEISE
Field Personnel:	AS	Weather:	CLOUDY, LT BREEZE
Recorded by:	AS	Air Temperature (°C/°F):	55°
		Atmospheric Pressure (in. Hg):	24.97

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial ☐ Pressure ☒ Vacuum (in. H_2O): -0.12 Time: 0956 | Start Time of Pneumatic Testing: 0958

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 0957	0.5	0.1	-0.07
Prior to Purge	OK ☒ @ ~~1354~~ 1320	1.0	0.2	-0.16
Prior to Sample Collection	OK ☒ @ ~~1355~~ 1321	1.5	0.5	-0.48

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	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),092909	34102	6714	1029357	28.96	3.71	15.1	40

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-130(15) ☐ Sub-slab Probe ☒ Nested Probe

Date:	9/29/09	PID (make/model/serial number):	MINIRAE 110-008693
Project Name:	HOOVER VAPOR	Landtech (model/serial number):	02029
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD2002 453096X
Site Location:	HOOVER, OH	Manometer (make/model/serial number):	HEISE
Field Personnel:	AS, PM	Weather:	CLOUDY LT BREEZE
Recorded by:	AS	Air Temperature (°C/°F):	55°
		Atmospheric Pressure (in. Hg):	29.24

Surface Type:	☐ Concrete	☐ Asphalt	☒ Grass	☐ Other
Surface Thickness (inches):		☐ Unknown		

Initial ☐ Pressure ☒ Vacuum (in. H_2O): -0.12	Time: 1001	Start Time of Pneumatic Testing: 1005		
Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1004	0.5	0.1	-0.05
Prior to Purge	OK ☐ @	1.0	0.2	-0.11
Prior to Sample Collection	OK ☐ @	1.5	0.5	-0.37

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	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	2.93	34	38

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-130 (20) ☐ Sub-slab Probe ☒ Nested Probe

Date:	9/29/09	PID (make/model/serial number):	MINI RAE 110-006693
Project Name:	HOOVEN VAPOR	Landtech (model/serial number):	02029
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 US3096X
Site Location:	HOOVEN, OH	Manometer (make/model/serial number):	HEISE
Field Personnel:	AS, PM	Weather:	CLOUDY, LT BREEZE
Recorded by:	AS	Air Temperature (°C/°F):	55°
		Atmospheric Pressure (in. Hg):	29.24

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial ☐ Pressure ☒ Vacuum (in. H_2O): -0.17 Time: 1007 Start Time of Pneumatic Testing: 1009

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1008	0.5	0.2	-0.13
Prior to Purge	OK ☒ @ 1235	1.0	0.4	-0.33
Prior to Sample Collection	OK ☒ @ 1235	1.5	0.8	-0.71

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	Total Organic Vapors (ppmv)	Helium beneath Shroud (%)		Helium in Purge Interval (%)
										Min	Max	
9/29/09	PNEUMATIC		+1.5	~1.5	–	0.0	4.9	14.2	0.0	–	–	–
9/29/09	1236	1241	5	1.0	.2	0.0	2.9	16.0	0.0	20	28	0
9/29/09	1241	1246	5	1.0	0.2	0.0	2.6	16.1	0.0	18	25	0
9/29/09	1246	1251	5	1.0	0.2	0.0	2.5	16.1	0.0	26	37	0

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

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-130 (30) ☐ Sub-slab Probe ☒ Nested Probe

Date:	9/29/09	PID (make/model/serial number):	MINI RAE 110-008693
Project Name:	HOOVER VI	Landtech (model/serial number):	02029
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD 2002 US3096K
Site Location:	HOOVER, OH	Manometer (make/model/serial number):	H6156
Field Personnel:	AS, PM	Weather:	CLOUDY LT BREEZE
Recorded by:	AS	Air Temperature (°C/°F):	55°
		Atmospheric Pressure (in. Hg):	29.24

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial ☐ Pressure ☒ Vacuum (in. H_2O): -0.15 Time: 1012

Start Time of Pneumatic Testing:

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1013	0.5	0.2	-0.23
Prior to Purge	OK ☒ @ 1156	1.0	0.4	-0.58
Prior to Sample Collection	OK ☒ @ 1157	1.5	0.8	-1.22

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	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	1.4	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	5.9.8	25	32

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-130(40) ☐ Sub-slab Probe ☒ Nested Probe

Date:	9/29/09	PID (make/model/serial number):	MINI RAE 110-008693
Project Name:	HOOVER VI	Landtech (model/serial number):	LANDTEC 02029
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MGD2002 U53096X
Site Location:	HOOVER, OH	Manometer (make/model/serial number):	HEISE
Field Personnel:	AS, PM	Weather:	CLOUDY, LT BREEZE
Recorded by:	AS	Air Temperature (°C/°F):	55°
		Atmospheric Pressure (in. Hg):	29.24

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial ☐ Pressure ☒ Vacuum (in. H_2O): -0.32 Time: 1017 Start Time of Pneumatic Testing:

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ ~~1018~~ 1020	0.5	0.2	-0.38
Prior to Purge	OK ☒ @ 1046	1.0	0.4	-0.68
Prior to Sample Collection	OK ☐ @	1.5	0.8	-1.26

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	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~~	~~1055~~	~~1103~~	~~8~~	~~1.6~~	~~0.2~~	~~0.0~~	~~3.0~~	~~14.4~~	~~1.0~~	~~15~~	~~35~~	~~0~~
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	FC00925	–	28.97	6.20	26	33
9/29/09	1156	BD1,092909	35603	FC00695	–	28.98	6.18		
				NOT USED					

Comments:

SOIL VAPOR FIELD FORM

Trihydro CORPORATION

Well ID VW-130 (50) ☐ Sub-slab Probe ☒ Nested Probe

Date:	9/29/09	PID (make/model/serial number):	
Project Name:	HOOVER VI	Landtech (model/serial number):	
Project Number:	500-016-012	Helium Detector (make/model/serial number):	
Site Location:	HOOVER, OH	Manometer (make/model/serial number):	
Field Personnel:	AS, PM	Weather:	COOL, OVERCAST, LIGHT BREEZE
Recorded by:	AS	Air Temperature (°C/°F):	55°F
		Atmospheric Pressure (in. Hg):	29.24

Surface Type: ☐ Concrete ☐ Asphalt ☒ Grass ☐ Other

Surface Thickness (inches): ☐ Unknown

Initial ☐ Pressure ☒ Vacuum (in. H_2O): -1.98 Time: 1020 Start Time of Pneumatic Testing:

Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H_2O)
Prior to Pneumatic	OK ☒ @ 1024	0.5	0.2	~~130~~ 142.2
Prior to Purge	OK ☐ @	~~1.0~~		MAX OUT AT ↗
Prior to Sample Collection	OK ☐ @			NO AIR MOVEMENT

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH_4 (%)	CO_2 (%)	O_2 (%)	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
		NO SAMPLE							

Comments: