US ERA ARCHIVE DOCUMENT

# APPENDIX B-5 OCTOBER 2009 FIELD FORMS



20IF	VAPUR	( FIELD	FORIVI	l									COMPORATION	
						Vell ID $$	<u>ع ٩٤ (</u>	(3)		_ 🔲 su	ıb-slab P	robe 🕒	Nested P	robe,
Proje Sit Field	ect Number: ite Location: d Personnel:	Sept de Cleron 500-01 HOOLEN MATT M	VI VI irchuff	ari H Lyan Stro	Helium Dete Manom		odel/serial r odel/serial r odel/serial r \ 'emperature	number): number): number): weather: re (°C/°F):	500	E13(	<u>68105</u>			0.0000000000000000000000000000000000000
Surface Typ	rpe: nickness (inche	Concre	ete	Asphalt		<b>◯</b> Grass	[[0.516.334.3	Other						
Surrace	ICKHESS (men.	25):				Unknown								
			in Testing	<u> </u>	:: 090s		me of Pneu	ımatic Testi min)		90 <i>5</i> ow Rate (	LPM)	Well He	ad Vacuum	n (in. H₂O
Prior to Pu Prior to Sar		ОК		7405			1		0.2	Į.		- O.	06	
						A ST			0.2	3		-0,	1/	
Date	te Start End Elapsed Time V		Bag Volume	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%	ارم Or	Total rganic apors		ium benea hroud (%)		Helium ir Purge Interval	
10/1/09		Prema	7,'	(r)		0	2,0	17.5	(p	ppmv)	Min		lax	(%)
10/1/09	0931 0936	0971	5		0,2	100	1.3	18.9	0.	,0	27.0 21.0 8, 3	0 37	5	0
14/1/	0.0-64	04.50	3		0,}		1 . (	10.		.0	0, 4	1/3	7.0	
	T							,					·	
Date	Time		ple ID	Canist		Flow Contro		Vacuum Ga	auge#	Initia Vacuu		Final Vacuum	1	beneati oud (%) Max
10/1/07	0950	1 VW-93	3(5),10010}	356	633	FC 001	85	COMPRESSION OF THE PARTY OF THE	50000	29.7	4 0	),44	10.3	2%
		1												
Comment	ts:	*, is ; .												
-														
								<del></del>						



			FUKIVI	ı									CORPORATION	
						rell ID	N 93	2(10	)		Sub-slab Pi	robe 💆	Nested	Probe
Proje Sit	oject Name: ct Number: te Location:	Stot d Clevro 500-0, Hoon	16-012 VI		Manom	PID (make/make/make/make/make/make/make/make/	odel/seri odel/seri odel/seri odel/seri	al numbo al numbo al numbo al numbo	er):	ini Rue	2000 -136,	= 110 s/0 s 4 s	32	7718 6×
Field Re	Personnel: ecorded by:	marr M	~76(4)	1/R×n~	stroh n		emperat	ure (°C/°	'F):	so				
Surface Typ	oe:	Concre	ete	Asphal	t	(7) Grass		Oth	er					
urface Thi	ckness (inche	es):		2	(A)	Unknown					***			
nitial 🔀 P	ressure	Vacuum (in. F	1 <sub>2</sub> 0): -0, 5	) Time	: 1645	Start Ti	me of Pn	eumatic	Testing:					
		Shut-	in Testing	4	•	Elap	sed Time	e (min)	Pur	np Flow Rate	(LPM)	Well Hea	ad Vacuui	m (in. H₂O
rior to Pne	eumatic	ОК	<u> </u>	1645			1	·		100				
rior to Pur				0945						200		-	0,0	8
rior to San	nple Collection	on OK	<i>@</i>				ì			500		, (	0,3	0
Date	Start Time	Time Vo		Bag Volume (L)	Purge Rate (LPM)	CH₄ (%)	CO <sub>2</sub> (S	%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	1	ım benea ıroud (%)	th ax	Helium in Purge Interval (%)
129/19		Prem	aric			0	2.	6 1	\$17.6	0	16.4	29	1.8	0
13/19	1949	0954	5		0.2	0	2.		17.8	2.78	d	J		0
9/30/5	0954	0959	5	Į.	0,2	0		4	7.8	0.79	6.9	32	. 8	0
4	0959	1004	5	1	0,2	0			7.1		18,8	32		0
7 7 7 1	1004	1009	_5	(	0,2	0	2.	9.	17,3	0.4	12.6	22	. /	0
13,0/09	1009	1014	\frac{1}{2}		0,2	0	2,5	5 1	7.8	0.5	10,4		. /	00
	-													
	,								R	residual	in b	9 F.	en low	w int
Date	Time	Samp	ole ID	Canist	er ID	Flow Contro	ller#	Vacuu	ım Gauge	Init	ial	Final /acuum	Heliun	n beneatl oud (%) Max
130/19	1020	VW-93(1	0),093009	217	1	FCOOS	27		And the second s	-28,	7 3	-4, 42	24.5	32,2
			. 53.00											
omments	6:													



Date Time Sample ID Canister ID Flow Controller # Vacuum Gauge # Initial Vacuum	JUIL	VAIO	IN IILLE	) FUKI	/ I									GURPURATI	
Project Name   Class						W	ell ID 9	3 (12)				Sub-slab I	Probe ,	Nest	ed Probe
Project Name   Clean   Circles   Clean   Clea		Date:	Jept d	9/09	100		PID (make/m	nodel/serial	number):	ns	11/20	3.000	1/1	9 . 0	
Project Number:	Pr	oject Name:	Clerso	· Cincu	nnan"		Landtech (m	nodel/serial	number):	500	,	136	5/10		2//18
Manometer (make/model/serial number)	Proje	ect Number:	500-0	016-012		Helium Detec	ctor (make/m	nodel/serial	numher).	200	<u> </u>		<u></u>	c > 0°	) [ , 4
Field Personnel:	Si	te Location:	Hoove	· Valor		Manome	eter (make/m	nodel/serial	number)		<u> </u>	-00 -	<i>Q</i> .	1 200	- J. X
Altremperature (C/F):   From   Attended by:   Asphalt   Grass   Other	Field	d Personnel:	MUTT	m'teless	lex. etc	oh mair	· (mane) m								
Surface Type:	R	ecorded by:	Mari	- 11 ( LC 1	1						ver ex	157			
Surface Type:				mark wi	•						0				
Surface Thickness (inches):   Surf													<del> </del>		
Initial				rete	Asphal	t	☑ Grass		Other						
Shut-in Testing   Elapsed Time (min)   Pump Flow Rate (LPM)   Well Head Vacuum (in. H <sub>2</sub> O)	Surface Th	ickness (inch	es):		<del></del>	<u> </u>	Unknown		_						
Shut-in Testing   Elapsed Time (min)   Pump Flow Rate (I.PM)   Well Head Vacuum (in. H <sub>2</sub> O)	Initial C						<del></del>								
Prior to Pneumatic         OK ☑ ® /6 y S         I Gy S	micial K	ressure			Time	: 1645	Start T	ime of Pneu	matic Test	ing:					
Prior to Purge         OK         © 1032         O. J.	Prior to Pne	eumatic					Elap	osed Time (r	nin)	Pump	Flow Rate	(LPM)	Well H	ead Vacu	uum (in. H₂O)
Date   Start   Find   Time   Time   Character   Discovery   Canister   Canister   Discovery   Canister   Canister   Discovery   Canister   Canister   Discovery   Canister   Canister   Canister   Discovery   Canister   Can								/			<del>)</del> . \$		- 944	-0,0	25
Date   Start   End   Time   Change   Bag   Purge   Change   Chan					1032					E	1,2		4	01	1
Date   Start   End   Time   Time   Volume   (L)   CH4 (%)   CO2 (%)   O2	Prior to Sar	npie Collectii	on OK	<u> </u>						Ó	1,5				
Date   Start   End   Time   Time   Time   (L)   Rate   (LPM)   CO₂(%)   O₂(%)   O₂(%)							79-10 13-1								
Date   Start   End   Time   Time   Time   (L)   Rate   (LPM)   CO₂(%)   O₂(%)   O₂(%)												***			
Time   Time   Time   Time   Time   (L)		Start	Fnd	, ,	Bag	Purge						Heli	um bene	ath	Helium in
Preumatric	Date		1	1	1		CH₄ (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (9	6)	Vapors				Interval
Date   Time   Sample ID   Canister ID   Flow Controller #   Vacuum Gauge #   Initial Vacuum   Final Vacuum   Min   Max		Pr	eumas	77'6			0	3.0	16.	0		141111			
Date   Time   Sample ID   Canister ID   Flow Controller #   Vacuum Gauge #   Initial Vacuum   Final Vacuum   Min   Max	9/30/09	1033		5	1	0. 2	0					40			
Date Time Sample ID Canister ID Flow Controller # Vacuum Gauge # Initial Vacuum Vacuum Vacuum Min Max  1/30/04 1/05 2 Vw-93(s) 043009 2205 FC 0043 4 -29,07 -2,21 26,1 37.4	7/30/09	1038	1043	5	1	0,2							E 3		
Date Time Sample ID Canister ID Flow Controller # Vacuum Gauge # Initial Vacuum Vacuum Vacuum Vacuum Vacuum Min Max  1/30/04 105.2 Vw-93(is) 043004 2-205 FC 0043 4 -29,07 -2,21 26,1 37.4	9/34/30	1043	1048	5	1						08				
Date   Time   Sample ID   Canister ID   Flow Controller #   Vacuum Gauge #   Initial Vacuum	//	13 ./_				47 L		2,	16.7		0.0	10,	3 70.	-5-	0
Date   Time   Sample ID   Canister ID   Flow Controller #   Vacuum Gauge #   Initial Vacuum															
Date   Time   Sample ID   Canister ID   Flow Controller #   Vacuum Gauge #   Initial Vacuum				1											
Date   Time   Sample ID   Canister ID   Flow Controller #   Vacuum Gauge #   Initial Vacuum										+			_		
Date   Time   Sample ID   Canister ID   Flow Controller #   Vacuum Gauge #   Initial Vacuum			W 187		-				<u> </u>			-			
100 Controller # Vacuum Vacuum Vacuum Vacuum Wax Min Max 130/04 (05.2 Vn-93(15)093009 2-205 FC 00434 -29,07 -2,21 26,1 37.4	Data		_								1			Heliu	ım beneath
1/30/04 (052 VW-93(15)093009 2205 FC 00434 -29,07 -2,21 26,137.4	Date	Time	Samp	ole ID	Caniste	er ID	Flow Contro	ller#\	/acuum Ga	uge #	1				
17(1)(1)(1)(1) 12 12 12 13 12 13 12 13 12 13 12 13 12 13 12 13 12 14	9/30/09	1052	VW-93/	15) 022000	220	95 K	Er may	21/		-	-20 0	7 +	3 32	+	
omments:			1)(	10)01009			2 00 19	3 9			129,0		2,21	126,	1 37.4
omments:											-	_		+	
omments:														-	
omments:					-				_	_					
omments:	·				==										_
	Comments:										<del></del>				



			- I GIVII	, .									CORPORA	
					W	/ell ID	<u>w</u>	93(%)			Sub-slab I	Probe	✓ Nes	ited Probe
	Date:	Sept	29/09	(80000000000000000000000000000000000000		PID (make/n	nodel/sei	ial number)	: Mr		2000	110	-007	
P	roject Name:					Landtech (m				O E 13			- CO 7	tis
Proj	ect Number:	500 -	016-012		Helium Dete	ctor (make/m								
s	ite Location:	,				eter (make/m				20 Joe	<u>a 172</u>	9 896	Χ	
Fiel	d Personnel:		itchell, Ro	um Stra		<b>,,</b>	,	Weather:						
j F	Recorded by:	RC		1-0		Δir	Tempera	ture (°C/°F):		1 excast				
								sure (in. Hg):		70				
				# F		- Admosphi	enc ries:	sure (III. Hg):						
Surface Ty	/pe:	Conc	rete	Aspha	lt	区 Grass		Other						<del></del>
Surface Th	nickness (inch	es):			(A)	Unknown								
_														
Initial	Pressure [		H₂O): - ბ ა ტ` t-in Testing	) Time	e: 1647			neumatic Te	_					
Prior to Pn	eumatic	OK		1647		Elap	osed Tim	e (min)	Pum	p Flow Rate	(LPM)	Well F	lead Vac	uum (in. H <sub>2</sub> O)
Prior to Pu	ırge	ОК		110.	1					100			1.06	
Prior to Sa	mple Collecti	<b>!</b>	<u>[</u>	110	<u></u>					900		-0	1.12	
TANALE:				Village Service						500		-0,	42	
									<del></del>					
	7				<b>3</b>									
	Start End Elapsed				Purge					Total	Heliu	ım bene	eath	Helium in
Date					Rate (LPM)	CH₄ (%)	CO <sub>2</sub> (	%) O <sub>2</sub> (	%)	Organic Vapors (ppmv)	Sh Min	roud (%		Purge Interval
						0	3,1	16.	,	0	IVAIII	-	Max	(%)
9/30/09	1104	1109	5		0,1	0	3.6	^	1		12.	1 1	2 1	
130/00	1109	1114	5	,	0,2	0	1	1 15,	9	1,0		1 10		
9/30/09	1/14	1119	5	1		0	<u> </u>			0.7	14,		8.9	0
130/09	1119	1124	5		0,2	0	1			0,7	16.		3,7	
, , , , ,	11.	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	2		0,2		3/	2 16,	2	0.6	14.	8 2	ر 3	0
					· · · · · · · · · · · · · · · · · · ·									
Date	Time	Samı	ple ID	Canist	er iD	Flow Contro	ller#	Vacuum G	iauge £	<sub>t</sub> Initia	ai l	Final		um beneath roud (%)
/-/	1) ~									Vacuu	ım V	acuum	Mir	
2/30/09	1132	Vn-93	(20), 092009	35	660	FC002	-33			29.2	9 3.	33	14,	247
										100	100.	<i>v</i> ===	1 6,1	/
													-	
													+	+
							=						<u> </u>	
Commont							_							
Comments														
		·												

Surface Thickness (inches):



			Well ID UW 4	13 (22)	Sub-slab Probe Nested Probe
Date:	50126 70109		PID /maka/modal/	carial numberly	M III
					Mini Rae 2000 110-007718
Project Name:	Hooven UI		Landtech (model/	serial number):	200 E1362/02
Project Number:	200-016-019	Helium De	tector (make/model/	serial number):	400 JOOJ USB 896 X
Site Location:	Hooven OH	Mano	meter (make/model/	serial number):	& American Communication of the Communication of th
Field Personnel:	Haff Mitchell , Ryan	Strohmare		Weather:	overcast
Recorded by:	RS	•	Air Temp		70
			Atmospheric Pr	essure (in. Hg):	
Surface Type:	Concrete [	Asphalt		Other	

Initial സ Pressure	um (in. H <sub>2</sub> O): + 0.03	Time: 1648	Start Time of Pneumatic T	esting:	
	Shut-in Testing		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK 🗷 @ / [	648		100	0.0
Prior to Purge	OK 🗵 @ 114	14	1	900	-0.04
Prior to Sample Collection	OK (2) @ 12	-10	1	500	-0,29

X Unknown

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH₄ (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors	1	beneath ud (%)	Helium in Purge Interval
				\-/	(21 101)				(ppmv)	Min	Max	(%)
21 1		prer,	atic			_0	3.1	16.1	0			0
9/30/09	1145	1150	\$		0.7	0	2.9	16.7	1,4	17.1	2-2.1	0
9/30/01	1150	1155	. 5	1	20	0	2.7	17.1	0.7	12,7	23.2	0
9/30/19	1155	1200	ت	1	02	0	3,2	16.5	1.0	1	22,9	0
					,					169		

Date	Time	Sample ID	Canister ID	Flow Controller#	Vacuum Gauge #	Initial Vacuum	Final Vacuum	1	beneath ıd (%)
9/30/09	1212	Vn -93(25)09300	2107	FC00839	The state of the s	29,13	Z.RA	Min 273	Max 29 )
									,

Comments:			4	



Well ID UW 93 (30) Sub-slab Probe Nested Probe PID (make/model/serial number): 81FF00-011 Mori Rae 2000 Project Name: Howen UI Landtech (model/serial number): 500 E1365/05 Project Number: 500 -016 -017 Helium Detector (make/model/serial number): H GO 3007 US 3836x Site Location: Hooven OH Manometer (make/model/serial number): Field Personnel: Hatt Mitchell, Ryan Strahmarer overcust Recorded by: RS Air Temperature (°C/(°F)): OF Atmospheric Pressure (in. Hg): Surface Type: Concrete Asphalt (X) Grass Other Unknown Surface Thickness (inches): Initial Pressure Vacuum (in. H2O): + 0.35 Time: 1648 Start Time of Pneumatic Testing: **Shut-in Testing** Elapsed Time (min) Pump Flow Rate (LPM) Well Head Vacuum (in. H₂O) Prior to Pneumatic OK [27] @ 1648 -0,01 100 Prior to Purge OK [5] @ -0.14 300 Prior to Sample Collection -0.50 500 Total Helium in Elapsed Helium beneath Bag Purge Start End Organic Date Shroud (%) Time Volume Rate CH<sub>4</sub> (%) Purge CO2 (%) O2 (%) Time Time Vapors Interval (min) (L) (LPM) (ppmv) Max (%) 0 15.4 0 1221 0,2 14.6 22,2 17.2 0. 2 0 11.3 281 0 4.1 13.8 21.7 27.7 3.7 17,7 0,2 24,5 Helium beneath Initial Final Date Shroud (%) Time Sample ID **Canister ID** Flow Controller # Vacuum Gauge # Vacuum Vacuum Min Max 93109 250 FC00724 -4.96 31.3 Comments:



Well ID VW 9 € (35) □ Sub-slab Probe ☑ Nested Probe

			4			V 5		0 (22)		U ,	ub-siab Prob	e (2)	Nesteu	Probe
	Date:	Sept 2	9/09		PI	D (make/mo	del/seri	al numbe	r): 1/6	ii Rae 2	000 .110	>-00	RIFF	
Proj	ect Name:	Hower				andtech (mo					65705			
Projec	t Number:	500-0		F	Ielium Detecto					600G OC	7			
Site		Hooven.			Manomete	er (make/mo	del/seri	al numbe		/ <del></del>	•			
Field I			lell byon	Strohum	ner			Weath	er: Oc	sercast				
Red	corded by:	RS				Air T	emperat	ture (°C/ସ୍ଠି	): 70	>				
				,		Atmosphe	ric Press	ure (in. H	g):					
	,												NOTE AND ADDRESS OF THE PARTY O	
Surface Typ	e:	Concre	ete	Asphalt	<u> </u>	() Grass		Othe	er	<del></del>				
	kness (inche					nknown						·		
			7											
Initial C D	roccuro CO	/acuum (in U	I <sub>2</sub> 0): - }	Times	1649	Start Ti	mo of Dr	voumatio.	Tosting					
Initial P	ressure		in Testing	) Time:	(७५५	<del>-                                    </del>		neumatic '	<del></del>	Flam Data	(10)4)	/all II.a.a	114	/i 11.0)
Prior to Pne	umatic	OK				Енар	sed Time	e (min)	Pur	np Flow Rate	(LPIVI) V	veii Hea	o vacuu	ım (in. H₂O)
Prior to Pur	ge			1358			•			900		_ 0 _ 0	<u>,,,,,</u>	3
Prior to Sam	ple Collectio		<u>~ (</u>	220			<del>-</del>			500		- C	7.6	8
										,,,,				3
				· · · · · ·	· · · · · · · · · · · · · · · · · · ·				<u> </u>	re in	1:00			
1		1					<del></del>			ī	1			
	Start	End	Elapsed	Bag	Purge					Total Organic		beneat	h	Helium in
Date	Time	Time	Time (min)	Volume			O₂ (%)	Vapors	Shro	ud (%)		Purge Interval		
		Time Time (min) (L) (LPM)								(ppmv)	Min	Ma	ıx	(%)
26/1	10.													
9/30/09	1400	1405	5		0.2	0	Ч,		1,8	1,0	18.9	39	-	0
0/30/0	1405	1410	5		0.2	0	3,		3,3	0.6	15,1	22		0
2/30/01	1410	14/5	5		0.2	0	4.		1.8	0.7	13.4	28		0
B 1 34109	1415	1420		(	0,2	_0	4.	1 1.	2.5	0,6	13.6	32	, 5	0
								.						
										Init	ial E	inal		m beneath
Date	Time	Sam	ple ID	Canist	er ID   1	Flow Contro	ller#	Vacuu	m Gauge	∍# Vacu	1	cuum		roud (%)
9/30/09	142 (1	) a A2	(35)03009	ラ <i>ー</i> ト	1000	no( r -	7 2			1	Δ Δ , 1	1 /)	Min	
11 101-1	1424	VW-93	(-) 0001	3554	7 000	00667		_	-		9,01 -	1.63	18.	1 24.0
		<u> </u>						<u> </u>				•••	-	1
					·									
Comments	5:													
							<del> </del>							



JUIL	VALO	\ FILLU	OIVIVI									í	ORPORATION E	
						ell ID U	به و	3 (40 <sup>°</sup>	)		iub-slab P	robe 🞉	Nested	Probe
	Date:	Jehtg.	9 / 69			PID (make/mo	del/seri	al number	): aa	ini Rae	2-96	00 110	- 0 m 7	718
Pro	ject Name:		en Conce	احبيا		Landtech (mo				500				
	•	500-01	16-012		Jalium Dota	•	-							
	te Location:			·		ctor (make/mo eter (make/mo				C11 200	2 7	) Uya	-62	
			VI	1-			uei/seri		·					
	Personnel:	mart	mira will	RYGST	Tohmai's	e		Weathe	r: <u>-()</u>	sg°	55			
Re	ecorded by:	rear	mira.	41/				ture (°C/°F		78				· · · · · · · · · · · · · · · · · · ·
	·	10.000				Atmosphe	ric Press	ure (in. Hg	):				and the second second	<b>26</b>
Surface Typ		Concre		- Assistant	-	CD 6		C) 0#b-	·					
	ickness (inche		te	Asphalt				Othe	r					
Juliuce IIII	tekness (mene					Unknown					· · · · · · · · · · · · · · · · · · ·			
Initial C 2 P	Pressure 🗀	Vacuum (in. H	هاه ه ≥:(0د	Time	: 1650	Start Ti	me of P	neumatic T	'estina				- Withers	
<u>A),</u>			n Testing	, inne	. 1070					on Flow Pot-	/LD64\	Mall II	d \/a	on (in 11 C)
Prior to Pne	eumatic			1650		ыар	sed Tim	e (min)	Pur	np Flow Rate	(LYIVI)		O, 2	m (in. H₂O)
Prior to Pui										(00		!		
	mple Collection		<u> </u>	1435					<u> </u>	900			,26	
riidi tu sai	Tiple Collection	JII OK	<u> </u>	1422						500		-0	.80	
			14.1											
												for	in Col-	9
			Elapsed	Bag	Purge					Total	Heli	ium beneat	:h	Helium in
Date	Start	End	Time	Volume	Rate	CH <sub>4</sub> (%)	CO2	%) o	2 (%)	Organic	1	hroud (%)		Purge
	Time	Time	(min)	(L)	(LPM)				-, ,	Vapors (ppmv)	Min	М	av	Interval
		Para				0	3.	7 12	١ ،		141111	1 141	un	(%)
1/2/	11.1.		matic	1	0 >	0	<del> </del>		<u>L, )</u>	0.9	100	` ~ 2		0
9/30/87	1440		5	<u>'</u>	0,2		4.		.6	1.1	14,			
9/30/04	1445	1450	5		0.2	0		6 9	1 (	1.	16.			0
1130/07	1450	1455	5		0,2	0	ч,	4   4	.8	1.0	16.	5 2-2	-9	0
											1907	7		
				****										
	1							<u> </u>						7777
	<u> </u>	1			T		-			1	<del>- 1</del>			
Date	Time	Samı	ole ID	Canist	er ID	Flow Contro	ller#	Vacuur	n Gauge	!# Init		Final Vacuum	Shr	n beneath oud (%)
9/30/09	1500	VW-93	(40) 09300	212	.0	FC008	242			-21	1/ 3	3,78	15. 4	Max 34.9
11 11 1	1000	12	(10/,01/0)	1 2		, 20-0	12	•			· ' (   ' '	,,,,	, ,	1.7
								.,						
										<del></del>				
Comment	:s:			-	70.000			- Killiani						



VIJ (9 VV) 43 (45) Sub-slab Probe A Nested Probe 20176 tgs PID (make/model/serial number): MiniRac 2000 110-007718 Landtech (model/serial number): 500 £1365105 Project Name: Project Number: 500 -016 -012 Helium Detector (make/model/serial number): MGD 2002 452826X Site Location: Hoover, Olt Manometer (make/model/serial number): Field Personnel: marry, rould fryan 5TOh marie Over Cast Weather: Recorded by: Matt mitcuil Air Temperature (°C/°F): Atmospheric Pressure (in. Hg): Surface Type: Concrete Asphalt Grass Other Surface Thickness (inches): 🔯 Unknown Initial Pressure  $\int Vacuum (in. H<sub>2</sub>O): + 0.05$ Time: 1651 Start Time of Pneumatic Testing: Shut-in Testing Well Head Vacuum (in. H₂O) Elapsed Time (min) Pump Flow Rate (LPM) Prior to Pneumatic ОК □ @ -0.12 100 Prior to Purge ок ┌ @ -0.25 900 **Prior to Sample Collection** ок ┌ @ 500 -0.77 Total Helium beneath Helium in Elapsed Bag **Purge** Start End Organic Shroud (%) Purge Date Time Volume Rate CH<sub>4</sub> (%) CO2 (%) O2 (%) Time Time Vapors Interval (min) (L) (LPM) (ppmv) (%) 330 Prematic 0.0 0 0 0.2 30,4 1,2 0.0 28,9 0,0 24.8 0 Helium beneath Initial Final Shroud (%) Date Time Sample ID **Canister ID** Flow Controller # Vacuum Gauge # Vacuum Vacuum Min Max FC00825 -29.08 27,<sub>8</sub> Comments:



				. 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1		ell ID UW	<u> </u>	50	)	U	Sub-slab Pro	obe [7	J Neste	d Probe
	-	Sept 2º				PID (make/mo	del/seria	ıl number)					110	- 00 77
	ect Name:		<del></del>			Landtech (mc			: <u>5</u>	00 E	1165	105	-	
	t Number:			ŀ		ctor (make/mo				60 20	102 4	525	25	<u> </u>
	E Location:			4.		eter (make/mo	odel/seria	•						
	_			Ryn- STI	phmaie			Weather	:	gur-e	as			
Re	corded by: _	MATT	MITE	Le [/		Air T Atmosphei		ure (°C/°F) ure (in Hø)		650		<u></u>		
												57.75		
urface Typ	e:	Concre	ete	Asphalt		<b>∑</b> Grass		Other	-					
urface Thio	ckness (inche	s):			<u> </u>	Unknown								
nitial 🕠 Pi	ressure 🗀 \	/acuum /in F	10110 0	) Time:	1 (-)	Start Ti	me of Pno	eumatic To	acting:					
ٔ اریکا ۱۰۰۰۰۰۰			in Testing	, Inne.	1652		sed Time			np Flow Rate	(IPM)	Well Ha	ad Vacu	um (in. H₂O
rior to Pne	umatic		-	1652		ыар	1	· (mm)	Full	100	- (EF IVI)		O, O	
rior to Pur	ge			1540					1	0,20	0		0.00	
rior to Sam	nple Collectio			645			1			0-50			7.4	
				<u> </u>		7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		***************************************		0-50		U	• • • • • • • • • • • • • • • • • • • •	
						<u> </u>								
	Start	End	Elapsed	Bag	Purge					Total		m benea		Helium ir
Date	Date Start Time	End Time	Time (min)	Volume (L)	Rate (LPM)	CH₄ (%)	CO₂ (%	%) O	2 (%)	Organic Vapors (ppmv)	Sh	roud (%)	lax	Purge Interval (%)
				Prem	1000	0	3, 3	3 /3	0	0,0	24		2	0
1/30/00	1540	1545	<u> </u>	1	0.2	0	3.	_	, C	0.9	20.2		1.2	0
130/00	1545		5		0, 2	0	3.		(, <u>)</u>	1.1	16,0			0
130/09	1550	1555	5	i	0,2	0	3.		6.6	0,8	15, 4		5, 2	0
	,,,								•		1.27			
										- 10				
Date	Time	Sam	ple ID	Canist	er ID	Flow Contro	ller#	Vacuun	n Gauge	#	tial uum V	Final acuum	SI	um beneath nroud (%)
12,60	1600	1111	m/c Joan	000 01	1017	FC0021	, ,	-		34	91	<del>}                                    </del>	Mi	ı Max آک
10101	16.646	11. 1657	<del>17(50) 093</del> .	1/	91	<i>y</i> • • • • • • • • • • • • • • • • • • •	-	-		36		3,22 1,92	100	9
	1646	1503 -	<u>50)6930</u> 093009	910		FC 00 57		Paggar	- 	70		5.12	10.0	34.04
		シカダー	V1 3009	1 0.00	0 \	FC 01 57	ō			101	· [ U	D. 10	10.0	1 1106
					•						<u> </u>			
Acceptance .						· ·	·							
omments														



					We	ell ID (	w °	13 (5	s)		Sub-slab F	Probe 🔀	Nested	Probe
	Date:	Sept 2	7/09		P	PID (make/mo	odel/ser	ial numbe	er): Mi	ui Kae	Je oo	110 - 0	07711	
Pro	ject Name:	Haoven				Landtech (mo					65 (a,			
Proje	ct Number:		,	۲	lelium Detect	tor (make/mo	del/ser	ial numbe	er): Ho	D 3007	45	2 826x		
Sit	te Location:	GOLLERA	alt		Manomet	ter (make/mo						<i>y. y.</i>		
Field	Personnel:	Matt Miles	off 100, hya	where	eu'd			Weath	er: 🔼	ercast				
Re	ecorded by:	DS.	71-700	v- <b>y</b> ,		Air T	empera	ture (°C/°						
	,	~				Atmosphe								
									67.				2	
Surface Typ	pe:	Concr	ete	Asphalt	6	<b>√</b> Grass		Oth	er					
Surface Thi	ickness (inche	es):			<b>X</b> (	Jnknown								
Initial 🏠 P	Pressure 🔲			Time:	653	Start Ti	me of Pi	neumatic	Testing:					
Drior to Dri	Allmadt'-		in Testing	10		Elap	sed Tim	e (min)	Pun	np Flow Rate	(LPM)	Well Hea	d Vacuur	n (in. H₂O)
Prior to Pne			<u> </u>	652						(00		- 0,	15	
Prior to Pur		OK		000						900		-0,	<u>32</u>	
Prior to Sar	mple Collection	on OK	<u> </u>							500		-0.9	0	
Alley Services														
			Elapsed	Bog	Duran					Total	Hel	ium beneat	h	Helium in
Date	Start	End	Time	Bag Volume	Purge Rate	CH₄ (%)	CO2	(%)	O <sub>2</sub> (%)	Organic	1	hroud (%)	"	Purge
	Time	Time	(min)	(L)	(LPM)					Vapors (ppmv)	Min	M	av	Interval
			Prima	- ' -		0	4.	0 1	3.3	1 -			-	(%)
Cotrale	9 1608	1617	16:85	1	0-7	0	6.0	7 1	4.8	1.5	14.0	2 34	1	2
39x 79	1618	16+18 167		1	0.7	0	-		4.4	1.0	10.6	74.		$\mathcal{A}$
	1623	1678	5	Î			7		3.9	0.9	19-8	23		$\stackrel{\circ}{\sim}$
	(69)	(00	,	(	077	$\cup$	T-	)	> 、深		(200	4.>	· a	$\mathcal{O}_{-}$
								]						
12 11 20 11							<u> </u>				]			
													Helium	n beneath
Date	Time	Sam	ple ID	Canisto	er ID	Flow Contro	ller#	Vacuu	ım Gauge	# Init		Final		oud (%)
									_	" Vacu	lum	Vacuum	Min	Max
Sept 30	1635	1)00 93	(55)03	09 97	108	4083	rl.		-	28.	54 3	1.57	10.5	(4.8
			C /	,										, ,, -
- Contraction										-				
6-	<del></del>		<del> </del>	***************************************	· · · · · · · · · · · · · · · · · · ·									
Comment	S:									·				
												· · · · · · · · · · · · · · · · · · ·		
											-14-16-			

						ell ID しい	EP 2	(60)		🗆 s	ub-slab F	Probe (		
Proje Sit Field	Date:  Diject Name:  Ct Number:  te Location:  Personnel:  ecorded by:		-012 -012		elium Detec	PID (make/mo Landtech (mo ctor (make/mo eter (make/mo	odel/serial odel/serial odel/serial	number): number): number): Weather:	\$00 \$60)	D002	5105	10-007 1826x	7(7	
						Atmosphe					-			
Surface Tyl Surface Th	pe: ickness (inch	Concre	ete	Asphalt		Grass Unknown		Other		240	CANTO ON THE STATE OF THE STATE			
Initial 🄀 F	Pressure C	Vacuum (in. F	1-0): - > > 0	Time:	1653	Start Ti	me of Pne	umatic Te	cting					
(2)	703541°		in Testing	Time.	(62)		sed Time			low Rate	(LPM)	Well Hea	ad Vacu	um (i
Prior to Pn	eumatic	ОК	[X @ ((	ô53			1	<b></b>		00	<u> </u>		2,16	
Prior to Pu			Ø (	,59			1			<del>)</del> 00			9.3	
Prior to Sai	mple Collecti	ion OK	<b>Ø</b> (	(77)	A Mariana					500		- 0	2.97	<del></del>
		1				T								
Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH₄ (%)	CO₂ (%		(%)	Total Organic Vapors (ppmv)		ium benea Shroud (%)	lax	Hel P Int
		-		var, c		0,0	4.6		-1	3,7				(
Sept-30	1700	1705	5	(	0.2	6.0	6.5	4.	8	1.7	(3.)	39		
•	1705	1740	5	!	0,2	0.0	5.7	7.	3	1, &	10.			
	1710	1715	5	1	0.2	0.0	7.5	3.	3	1.1	18.7			<u>(</u>
Date	Time	Sam	ple ID	Caniste	er ID	Flow Contro	ller#	Vacuum	Gauge #	Initi		Final		um be
Sep 30	1722	DINASI	(60)093609	9443 <b>§</b>	4	FC00S	397	······································		Vacu 29		Vacuum -1,75	Min	
		1)	J- /- ( )20-1		-	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,	- 12					X( / 3	((()	
Comment	ts:													



SOIL V	/APOI	RFIELD	FORM										GREDRATION D	JI U
4	**************************************				w	ell ID	N q	(05)	)	0	ub-slab I	Probe 🕥	Nested F	Probe
	Date:	0(1-31	υ <b>ʻ</b> (			PID (make/mo	odel/seri	al number):	Mari	Rae 2	300	110-0	0 770	
Proj	ect Name:	Hoover	- U}-			Landtech (mo					3651			
Projec	t Number:	500-01		H	lelium Dete	ctor (make/mo					452			
Site	Location:	troover				eter (make/mo				0 - O V	-1)-1	1001		
Field I	Personnel:	Most Hil	ehall , Kyo	Stohu				Weather:	<u> </u>					
	corded by:	7	00000 11.540	un /		Air T	emperat	ture (°C/(F):	54 74	nuy				
	•	~ /						ure (in. Hg):	71					
, ,,,,,,,,,														
urface Typ		Concr	ete	Asphalt		Grass		(X) Other						
urface Thio	kness (inch	es):			لخا	Unknown								
nitial (大) Pr	essure 🗀	Vacuum (in 1	H₂O): Ů-0	Time:	1)5-7	Start Ti	mo of Dn	eumatic Tes	rtings	Ticz				
	- C33416		in Testing	inne:	1756		- William			()SG	(LDN4)	Mallite	d Va	- lin II C
rior to Pne	umatic			156		Еіар	sed Time	= (mm) =	rump	Flow Rate	(LPIVI)	well Hea	d Vacuun	n (In. H₂O
rior to Pur		ОК		-15%						100		(	<u>)                                    </u>	Mar.
	ple Collecti			367						200	-		9.05	
	.p.e comeou	0.1	ا ملات	337		1.00 TA				500		U	19	
1				: <sup>2</sup> · · ·										
			Elapsed	Bag	Purge					Total	Hel	ium beneat	h I	Helium in
Date	Start Time	End Time	Time (min)	Volume (L)	Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (	%) O <sub>2</sub>	(%)	Organic Vapors	S	hroud (%)		Purge Interval
12/07		Pres,	MATIC.	•		100 -	9,	1 3-	C1 -	(ppmv)	Min	Ma		(%)
1-1-1	1308	1315	->	1.4	0.2	18-7		·	1 1	F-1	140		7	<u>7,03</u>
	10		-				10.0	7 1		16 F	10	10	,	<u>()</u>
	1315	1377	7	7.814	0.2	9.5	10			65		3,	1	<u>0</u>
	1377	1329	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \	1.4	0.2	9,1	10.6	5 10	/	148	10.	16	-7-0	<u> </u>
	<del></del>												-	
										w. * * * * * * * * * * * * * * * * * * *				
<u> </u>		1									<del></del>	2002		
Date	Time	Sam	ple ID	Caniste	er ID	Flow Contro	ller#	Vacuum	Gauge #	Init Vacu		Final Vacuum		beneath oud (%)
N-A7.4	1700	1	N		2 :								Min	Max
A769	1383	DO 461	05)100209	3408	54	FC00 6	,74	٠ يوسون		-28	.55	-1.05	10.0	121.
									-					
omments	:													
										****				



					We	ell ID (	76( ic	)			ub-slab P	robe 🔀	Nested P	robe
	Date:	10/01/0	0		ļ.	PID (make/mo	del/serial	number)	: Min	i kae	Jeo	110-0	97218	
Proi	ect Name:	Heover	7 ( ) 7			Landtech (mo						110 10	3/70	
-	-	200 016	~01)	ŀ		tor (make/mo				<u> </u>	452	V)EX		
-	-	Ns Doot	. 1	·		ter (make/mo				) 100 A	430	1001		
	Personnel: 1	104-4:1-	hell Ryo	. Shale				Weather		ercast		•		
	corded by:	D<	. Order 10go	CN OLIONO	verio.	Air T	emperatui							
		1- )				Atmospher			<del>-</del>					
	N. W.													
ırface Typ	e:	Concre	ete	Asphalt	(	Grass	[2	(Other	- RECOGNICATION DE					
rface Thio	ckness (inche	s):			(X)	Unknown	V							o stationer in the
-				<u> </u>				***						
tial X Pi	ressure \\		20): ~Q <b>}</b> 8	Time	(050	+	me of Pne			(051	/ «\			
ior to Pne	umatic		in Testing (X) @	1050		Elap	sed Time (	min)	Pum	p Flow Rate	(LPM)		d Vacuum	(ın. H₂C
or to Pur			=/_							000 00C		0.	42 81	
	nple Collectio		<u>명</u> @ /	257 1270								_	80	
				17 20	No Teast	dja:				200			0	
			<u> </u>		* N + .	* s		· · · · · · · · · · · · · · · · · · ·						
	C44	F1	Elapsed	Bag	Purge					Total	ı	um beneat	h ł	lelium i
Date	Start Time	End Time	Time (min)	Volume (L)	Rate (LPM)	CH₄ (%)	CO₂ (%	) O <sub>2</sub>	(%)	Organic Vapors (ppmv)	S Min	hroud (%)		Purge Interval (%)
161/09	Mill	whie	· version est accompany accomp			1001	7.8	7.	5	100			70	2.5
11/04	1258	1305	7	1.40	0.2	38.4	9.9	l.		196	17,1	21.		7.12
11/01	1305	13/2	7	28	0.2	18.0	9.9	1.		124	13.		-	1.05
11/01	1312	13/9	-7	4,2	0.2	22.4	10,8		2	141	18.2		<u></u>	2.09
1.109		1326		5.6	0,2	19 y	10.8		.2	120	14.			
/// `	• /• (									100	1 (/			
							<u>I</u>						l	
Date	Time	Sam	ple ID	Canist	er ID	Flow Contro	ller#	Vacuum	n Gauge	# Init	ľ	Final Vacuum	Helium Shro	beneat ud (%)
2/10	10.20		(1)	7 4	1/03	~~~	2.2.6.						Min	Ma:
1/09	1330	VW-966	10) 100109		403	FCOC	1369		gggj60080Use.m.	-27,	3D -	-2.71	>10	<u> </u>
										·				
mments	s: F not	enous	h volu	une.										
				-				/	Hen	erer d	ied.	1-119	Sum	sing



<b>901</b> 6		\	OIVIV											CORPORATION	8	
						ell ID (	141	5)			s	ub-slab I	Probe [2	Nested	i Probe	
	Date:	(0/0//	09			PID (make/mo	del/ser	ial number	· 6.1	iNi	he '	Lovet	((0~0)	2210		
Pro	ject Name:	Manyer	. 6			Landtech (mo			<del></del>	<u>,,,,,,</u>				27710		
l	ct Number:				Halium Data	•	=		100			<u>(65%)</u>				
		500-016				ctor (make/mo			_	GD	900	<u> 4</u>	29-836	<u> </u>		
	te Location:		· · · · · · · · · · · · · · · · · · ·	, s		eter (make/mo	del/ser	ial number								
B		1.H than	chell, Kyo	work nuc	wi. 45			Weathe		Jero	:ast					
Re	ecorded by:	KS_				Air T	empera	ture (°C/°F)	ı: <u> </u>	0						
*						Atmosphe	ric Press	ure (in. Hg	):						_	
				. , , ,											S. Commission of the Commissio	
Surface Typ	pe:	Concre	ete	Asphal		Grass		<b>⊘</b> Other								
Surface Thi	ickness (inche	es):			<u> </u>	Unknown										
Initial 🔀 F	ressure 🗀	Vacuum (in. F	I₂0):~ <i>(</i> ∂ . 3, °	4 Time	:: (160	Start Ti	me of Pi	neumatic T	esting:	1(0	ාර -					
			in Testing	<u> </u>			sed Tim		_		w Rate	(I PN4)	Wall u	ead Vacuı	ım lin L	1-0/
Prior to Pn	eumatic		@ ((c	)0		Liap	ocu mil	C (11111)	T ui	10°		(=1 141)	O -		4111 (III. F	1201
Prior to Pu	rge		= ^						-					90		
	mple Collection		<del></del>	( -						907						
7 1101 (0 341	mpic collection		CA @ 14	04					ļ	SO	<i>ن</i>		2.0	64		
					Ha in the											
								÷								
										T_						
	Start	End	Elapsed	Bag	Purge						otal ganic		ium bene		Heliun	
Date	Time	Time	Time (min)	Volume (L)	Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub>	(%) O	2 (%)	1 7	pors		Shroud (%	·)	Purg Interv	
		V <sub>1</sub>	(111111)	(-)	(LF (VI)					(pp	omv)	Min	ı   I	Max	(%)	
10/01/01	mo	wwati	the ship		AND THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE PERSON NAMED IN COLUMN TWO IS NOT THE OWNER, THE OWNER	8.4	100	0 3		18	3.6			0. 7	)125°pp	)un
10/1/09		1347	7	1.4	0,7	12,8	10.		. 8		1.3	18.3	> 2		0,04	
10/1/09	1397	1354	>	1.4	0.2	10.6	10		,J.		','y			-	0.0	
0/1/09	1354	1401	5	1.4	0.2	10.6	10.	- A	,4	79		28.	0 3		B	
<u> </u>	1	, (		/		1.20	10 4	•		1.		-0:		J. 60 /		
						<del> </del>										
		,														
						****								Haliu	m bene	ath.
Date	Time	Sami	ple ID	Canist	er ID	Flow Contro	ller#	Vacuun	ı Gaug	. #	Initi	al	Final		roud (%	
								• acaa	· Guub	-"	Vacu	um	Vacuum	Min		iax
10/1/09	145	10.31	(15) 100109	9491	Q	684	1				-29.	78 =	4,18	13.		2, <u>)</u>
11/*	110	10-76	Collocial.	F 2 2 1	U	1					τ,	10	1117	12,		, dan
															-	
Comment	s:									•					,	
Comment	s:						ے			0	ß		1. 1			
Comment	s:						Ą	He for	men	er 01	Bar	-51/Y	Died	Use	d	



SUIL V	IAPUR	FIELD	rukivi										ORPORATION A	
						ell ID	6()	د)		(	Sub-slab	Probe 🔀	Nested P	Probe
	Date:	10/01	109			PID (make/m	odel/seri	al numbe	r): <u> </u>	ini R		-011 00	00771	Š
Proj	ect Name:	Hooven	UI			Landtech (mo	odel/seri	al numbe	r): <u> </u>	00°	E13651	5		
Projec	t Number: <	500-016	-019	Н	elium Detec	ctor (make/m	del/seri	al numbe	r): <u>H</u> (	60 B	hood 4	27276	X	
Site	Location:	Howen,	OH		Manome	eter (make/m	odel/seri	al numbe	r):					
Field I	Personnel: 💆	IM the	dell, Ry	an Stroh	unaise			Weath	er: <u></u>	J R/C0	9t			
Red	corded by:	RS	· (			Air T	emperat	ture (°C🌈	D: 7	0				
		,				Atmosphe	ric Press	ure (in. H	g):					
<u> </u>														
Surface Typ	e:	Concre	ete	Asphalt		Grass		X Othe	er		A-1			
Surface Thio	kness (inche	s):			<u> </u>	Unknown								2-1-1
			-0.	79										
Initial 🔀 Pr	ressure 🔲 \	/acuum (in. F	I <sub>2</sub> O): (0	Time:	1109	Start Ti	me of Pr	neumatic	Testing:		10			
Prior to Pne	umatic		in Testing	- 0		Elap	sed Time	e (min)	Pun	· · · · · · · · · · · · · · · · · · ·	Rate (LPM)			n (in. H₂O)
				09			100			00)			554	
Prior to Pur			<u> </u>	(14			200	1		) eu			.71	
Prior to Sam	nple Collectio	on OK	P @ /4	136			500			500		(.	3d	
				The State of the S										- Cont
								w <sub>j</sub>						
			Elapsed	Bag	Purge				•	Tota	l He	ium beneat	th !	Helium in
Date	Start Time	End Time	Time	Volume	Rate	CH <sub>4</sub> (%)	CO <sub>2</sub> (	%) (	O <sub>2</sub> (%)	Organ	nic   g	Shroud (%)		Purge
	Time	i iiiie	(min)	(L)	(LPM)					Vapo (ppm		n Ma		Interval (%)
10/01/09	0.	renno	tic le	J		9.7	9-9		3,3	86				1900 PD 11
10/01/03	1411	1484	17	1,4	0.2		<u> </u>	Ann.	1.1	76.		5 49	1 2	2.09
10/1/09	1 (17	1426	5	2,4	0.2		10,		0.0	-	9 0		, L C	D /
10/1/01	1721	1432	5	2 (:		13,1			2.1	76.	9 0	0	-	<u>.</u> Д
10/1/01	1927	1132	)	3,9	0.2	12/1	10,	0	<u> </u>	160	7   -			
							<del> </del>							
							<u> </u>							
	1									<del></del>				
Date	Time		nla ID	Caniste	ID	Flow Contro	. II #		6		Initial	Final	1	beneath oud (%)
Date	Time	Sam	ple ID	Caniste	3F 1D	Flow Contro	mer#	vacuu	ım Gauge	' "	Vacuum	Vacuum	Min	Max
10/1/09	1437	VW-96	(20) 100k	1229	59	FCOOL	25			+ 2	-8.55	- 3 33	21,9	
* p · r \		1 /*	1-11-10			, was 1						מה אינ היצי		7
	L'		<del>,</del>											
		-												
						•		<u> </u>					1	
					W-1000 - 1000 -									
Comments	5:					A 11			1		, ,			
	÷					D H	e pol	TW E	barga/	y L	ed an	crer 15	1/0	1 21-3
		<u> </u>				<i>ــــــــــــــــــــــــــــــــــــ</i>	UCL_	40/	Sam	Pling	017			



JOIL 1	VAPUR	LIELD	FUKIVI									0.0	DRPORATION A	
					We	ell ID 90	()5	-)			ub-slab P	robe 📉	Nested P	robe
	Date:	10/01/0	<b>7</b> 9		F	PID (make/mo	del/seri	al numbe	r): A	ini Roce	)∞(	6 W/O	-0097	10
Proj	ject Name:	Hooven	UI			Landtech (mo			· — • — •		-	- 110	0011	ru
	-	500-016		Н		tor (make/mo						7886x		
	e Location:	Hooven,				ter (make/mo				00 300	) gr = [ .	· V & 20 /		
		Mat Hit	1.000	O. i			ucij seri	Weath	-	Var ca. I				
	corded by:	RS	wax, py,	w >nvi	~ mail	Aiu T		vveatii ure (°C/﴿		vercost Lo				
ne.	corded by: –													
<b>HUITHUR MANAGEMENT OF THE STATE</b>	1,70	W/F - 1817 - 1				Atmospher	ic Pressi	ure (in. H	g):	***************************************				
Surface Typ	e:	Concre	te	Asphalt	(	Grass		(X) Oth	er					
Surface Thi	ckness (inche	s):				Unknown								
						-								
Initial P	ressure 🔲 \	/acuum (in. H	20):-()«YU	Time:	1117	Start Tir	ne of Pr	eumatic	Testing:	1118				
			n Testing			Elaps	sed Time	e (min)	Pur	np Flow Rate	(LPM)	Well Head	d Vacuum	ı (in. H₂O)
Prior to Pne			<del></del>	117						(00		0.	61	
Prior to Pur				1450						200		0 -	88	
Prior to San	nple Collectio	n OK	<b>D</b> @	1525						500		).	62	
						4 24								
				<del>13 (                                   </del>										
			Elapsed	Bag	Purge		5046		00040	Total	Heli	um beneat	h F	lelium in
Date	Start Time	End Time	Time (min)	Volume (L)	Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (	%)	O <sub>2</sub> (%)	Organic Vapors (ppmv)	S Min	hroud (%) Ma		Purge Interval (%)
10/01/04	1.4	Lonne	ie fes	(		19.0	81	1 2	Q	52.6				
10/1/19	1450	1457	7	1,4	0,2	24.8	8.		1.8	60.8	41,	5 23	7 4	2,1
$A \in \mathcal{A}_{1}(\mathcal{A}_{1}, \mathcal{A}_{1}')$	1457	1502	Ś	7.4	0,2	22.8	7.6		12	52.8	0	0	<del>,                                    </del>	$\frac{-i}{2}$
10/1/00	1502	1507	. 5	3,4		27.1			7	83.9	0			2
10/1/09	1507	15 12		4,4	0.2				.9	7	-		"Marrie	0>
10/1/09			<u> </u>				8.			63.9	É		<u> </u>	<u></u>
10/1/09		1517		5,4	0,2	31.0	8.	0 0	, L	69,9	0			
Polikod	1517	1522	. 5	6,9	0,2	30,9	0.	8 0	, 00	651		0		9
	1		\					<u> </u>				1		
Date	Time	Sam	ole ID	Canist	er ID	Flow Contro	ller#	Vacua	ım Gauge	Initi		Final	l	beneath
· ·			:							Vacu		Vacuum	Min	Max
9/1/09	1525	vn-96	(25) 100	109 21	67	FC000	77		AND THE PROPERTY OF THE PROPER	-20	.61	-8,04	20,1	31.8
											1			
Comment	s:													
						\$ 1	te ~	ere o	lead	used	for	Sant	1/2	0119
	i					ai	CAR	20	1 100	used				
Sec.										- sales				



					We	ell ID (	76(3	ه)			ub-slab	Probe D	Neste	d Probe
	Date:	10/01/0	Cl		F	PID (make/mo	del/seria	al number	: Mini	lae	Jose	((0-0	THY.	
Pro	ject Name:	Hooven	UT			Landtech (mo	del/seria	al number	: 500	E1365	105			
Proje	ct Number:	500-011	6-012	Н	elium Detec	tor (make/mo	del/seria	al number)	: MGD	Do 42	452	896x		
Sit	e Location:	Hooven				ter (make/mo	del/seria	al number	:					
Field	Personnel:	Math Mit	-chall, Ry	on Stroh	inciper			Weather	: <u>_oue/</u>	tast				
Re	corded by:	RS				Air T Atmospher		ure (°C/€F) ıre (in. Hg)						
Surface Typ		Concre	ete	Asphalt		Grass		(A) Other						
Surface Thi	ckness (inche	es):			(A)	Unknown								
·	•								*****					
Initial P	ressure	Vacuum (in. H		Time:	1129			eumatic T			(4 = = = )	T		
Prior to Pne	eumatic	Shut- OK	in Testing	1 .79		Elap	sed Time	(min)	Pump	Flow Rate	(LPM)			um (in. H₂O)
Prior to Pu				29						0,1			_ 0,	
	nple Collection			711						0.2				
			ر <del>ن</del> ی ہے [(	) ( ( -   -		· · · · · · · · · · · · · · · · · · ·				0.5		Cas.	0.5	8
		-	: ·		<u> </u>									
	Stort	End	Elapsed	Bag	Purge					Total	1	lium bene		Helium in
Date	Start Time	End Time	Time (min)	Volume (L)	Rate (LPM)	CH₄ (%)	CO₂ (9	%) 0	2 (%)	Organic Vapors (ppmv)	Mi	Shroud (%	Max	Purge Interval (%)
10/01/09		Preuma	7.6	Lest	energy to the last of the last	26.0	6.7	- 6	7	9)		-		2000
0/1/09	1542	1549	7	1.4	0.2	43.6		2 6	3	91.6	20	.2 3	81	2.3
3/1/09	1549	1556	7	Bill	0.1	43.6	8.6	9	0	<u>CP</u>	*			2.4
, ,	1556	16+045	12 -						mental and the same of the sam	41				u u
	1556	1603	7	8.5	0.1	43.4	8-8		3	91			•	, consequence
	1603	1610	7	5.9	012	42.8	8.5	5 3	.3	89		CONTRACTOR DESCRIPTION OF THE PERSONS ASSESSMENT		e-
					, , , ,					0				
·														
Date	Time	Sam	ple ID	Canisto	er ID	Flow Contro	ller#	Vacuur	n Gauge #	Init		Final	SI	um beneath hroud (%)
										Vacu	lum	Vacuum	Mi	
10/1/09	1612	N M69	30)100109	337	33	FC0031	49	***************************************		29.	01	2,72	10.3	, 18
		,					- ,							
						5								
	<u> </u>													
Cammant	* * * ·	11 10.5	1/00 lo	11.	N = 1					. 3	î		-	200 2000 PO 0000 DO
Comment	s: 🛧			atley	Sead	mpline		give	+ W	sine	401	1112	Ti. 500	<u>~e)</u>
		reada	4	durin	pre-								Gran a	r)



t Name: $\frac{1}{2}$ Sumber: $\frac{1}{2}$ Ocation: $\frac{1}{2}$	10/01/09 Howen 1 500 016 Howen G Hatt Mike	-012 stf chell, Ryan	n Shehm	L elium Detecto Manomete	ID (make/mode andtech (mode or (make/moder (make/mode Air Te	del/seria del/seria	/ al number): al number): al number):	500 MG(		705	((0-007	Nested Pro	obe
t Name:llumber:	Howen ( 500 016 Hooven of Matt Mike RS	-012 stf chell, Ryan	n Shehm	L elium Detecto Manomete	andtech (mod or (make/mod er (make/mod Air Te	del/seria del/seria	al number): al number):	500 MG(	E1365	705		17·13	·
rsonnel: the deduction of the deduction	Hooven o	stt hell, hyen	n Shehm	Manomete	er (make/mo		•		<u>) ) ) ) )</u>	45	78764		
ded by:	Concrete			neu P									
ess (inches)		e (			304.101	•	Weather: ure (°C/°€): ure (in. Hg):	70	reast			SOLUTION AND ADMINISTRATION AND	
ess (inches)	):		Asphalt		Grass		χ) Other						
				ں لکا ں	Jnknown						1 1 1 1 1 1 1 1		
sure 🕞 √a	acuum (in. H <sub>2</sub> 0	0): - 0, 0 1	L Time:	1137			eumatic Te		Flow Pate (	(1 DNA)	Woll Haa	4 Vacuum	/in H.(
natic	ok C	<b>D</b> @	1137		Elaps	ea rime	(min)	Pump	0,1		0	.12	(III. II2C
e Collection		<del>*</del>					1		0.5		0.	63	
								<u> </u>					
Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH₄ (%)	CO <sub>2</sub> (9	%) O <sub>2</sub>	(%)	Total Organic Vapors (ppmv)	i .	hroud (%)		lelium i Purge Interva (%)
(6)3	Prevo	7	- le		300 644	7,0		)	98.1		a-quanta amenda	3	)
630	1637	4	2.8	0.2	480 61.6	8.1	3	.7			Principle and Pr	0	).5
645	1652	7	5.6	0.2	63.0	10-0			4.5				
			-									Helium	henea
Time	Samp	ile ID	Caniste	er ID	Flow Contro	ller#	Vacuum	າ Gauge #	1		Final Vacuum		ud (%)
1654	000 abc	35) 100109	346					West Control of the C				18.6	42
											<del></del>		
	Start Time	Start End Time  Previous (630) 630 (637) 637 (644) 645 (650) Time Samp	Start End Time Elapsed Time (min)  Free Property (S)	Start   End   Time   Time   Time   Sample ID   Canistre   Sylvania   Sylvan	Start End Time Elapsed Time (L)	Start   End   Time   Time   Time   CH <sub>4</sub> (%)   CH <sub>4</sub> (%	Start   End   Time   Time   Time   Ch <sub>4</sub> (%)   CO <sub>2</sub> (9)   CO <sub>3</sub> (9	Start   End   Time	Start   End   Time   Time   Time   Time   Time   Sample ID   Canister ID   Flow Controller #   Vacuum Gauge #   Start   Signal   Signal	Start   End   Time   Time   Time   CH <sub>2</sub> (1)   CO <sub>2</sub> (%)   O <sub>2</sub>	Start   End   Time   Time   Cha	Start   End   Time   Time   Cha (%)   CO2(%)   O2(%)   O2(%)	Start   End   Time   Time   Time   (L)   CO2 (%)   CO2 (%)   CO2 (%)   CO3



JOIL	VAPOR	rricto	LOUIN									1	B ROLTARDARO	
					We	ell ID (	16 (	40)			Sub-slab I	Probe 🔀	Nested	Probe
	Date:	10/01/09				PID (make/mo	del/seri	al number	: Mi	. I Rad	J000	11/2	0077	íΫ
Pro			UI			Landtech (mo			- C-1		3657		00 77	`4
		700-616-		u,		tor (make/mo	-					52726	V	
				• • • • • • • • • • • • • • • • • • • •		eter (make/mo					+ 4	5 21 20	Λ	
		Hos ven		en i		itei (make/mc	uei/seri	Weather						
		64+ Mikel	rell, Pryon	a Moham	W. T.					excast		· · · · · · · · · · · · · · · · · · ·		
Ke	corded by:	PS						ture (°C/(°F)		) 				
				- 50000		Atmospher	ic Press	ure (in. Hg	): 					
Surface Typ	oe:	Concre	te	Asphalt		Grass	***	✓ Other	•					
Surface Thi	ckness (inche	es):			$\boxtimes$	Unknown								
														Ala
Initial (>>) P	ressure 🗀	Vacuum (in. H	20): - () _ )	1 Time:	1145	Start Tir	me of Pr	neumatic T	esting:	1146				
	<u> </u>		n Testing	<u> </u>	1, 00	_	sed Time		<del></del>	np Flow Rate		Well Hea	nd Vacuu	m (in. H₂O)
Prior to Pne	eumatic			45	······································			7	1	100	,,		(1)	(
Prior to Pur	rge	ок (		08					1	200			18	
Prior to Sar	nple Collection		<u>2</u> 6 1	<u> </u>					+	500			.74	
	\		1/			.e **				300			<u>, , , , , , , , , , , , , , , , , , , </u>	
		•					.,							
						,				,				
	Chant	F., d	Elapsed	Bag	Purge					Total		ium benea	th	Helium in
Date	Start Time	End Time	Time	Volume	Rate	CH <sub>4</sub> (%)	CO <sub>2</sub> (	(%) O	2 (%)	Organic Vapors	5	Shroud (%)		Purge Interval
			(min)	(L)	(LPM)					(ppmv)	Mir	М	ах	(%)
(0/01/09	PONO	umatie	jest	**************************************	- Annual Control Color	34,0	6.9	7.	.4	120		-		21
- ( - /	1708	1715	7	1.4	.0,2	68.1	9		3	11L	22.	7. 60	). ()	2.6
J	1705	1702	7	3.6	0.2	64.3		2 0	1.3	6.2	*			Ž Ž
v	1397	17-29	7	9	0.2	76.9	10.0			4.3	† · · · ·	محمنعصور		~.0
	1729	1736	1	<del>2</del> 2	0.7	75.4	10.3	~	.3	115				eran
	1 10 (	1/30		<del></del>	0.0	13.1	(0.	)   U	<u>، ک</u>	(()				
	<u> </u>													
	T	1									<del></del>	-tower-	<del></del>	
		_							_	Ini	tial	Final		m beneath oud (%)
Date	Time	Samp	ole ID	Caniste	er ID	Flow Contro	ller#	Vacuun	n Gauge	# Vac		Vacuum		
10/6/100	1740	(1) 10/	7. \.	3:30		<u></u>		***************************************	and a	73.	9/ 4	1,23	Min	Max 1 22.4
10/01/09	11,-10	1000 76	(40)1001pa	7439	F )	FC0014	~ <u>)</u>			-   d D.	16	(, 2)	1 ( , )	da.y
													-	-
	<u> </u>												<u> </u>	
Comment	s: ~ no	relium,	no she	and									<del>*************************************</del>	· · · · · · · · · · · · · · · · · · ·
			0 0	~~										
											•			



20IF	VAPUR	FIELD	<b>FUKIVI</b>									¢.	RPORATION A	
					We	ellid 94	(45	-)			Sub-slab I	Probe 🗹	Nested Pi	obe
Projec Site Field	e Location: - Personnel:	10/11 Hoover 500-01 Hoover Matt	VI 16-012 10 0 H	1 Ayun s	elium Detec	PID (make/mo Landtech (mo tor (make/mo ter (make/mo Air To Atmospher	del/seria del/seria del/seria	al number) al number) al number) Weather ure (°C/°F)	: <u>5</u> : <u>me</u> : :		E13	2000 6510 4528	5	-00 718
Surface Typ Surface Thi	e: ckness (inche	Concre	te	Asphalt		Grass Unknown		Other						
	eumatic	OK (	20): (),   n Testing (20): (20),   m (20);	[3] Time:	1153		me of Pn sed Time (	eumatic To	· · · · · ·	U53  pp Flow Rate  O., 3  O.3	-	Notice-	d Vacuum の.   そ の. ン の, フ	9
Date Oct-109	Start Time  095) 0959 1006 1019 1028	End Time 0959 [006 [015 1024 1032	Elapsed Time (min)	Bag Volume (L) 1.4 2.8 4.4 5.6 6.6	Purge Rate (LPM)  O.) O.) O.) O.) O.)	CH4 (%)  58.5  7).( 88.8  99.9  99.9	CO <sub>2</sub> (s)	9 2 9 4, 0 3	-3_	Total Organic Vapors (ppmv)	1		ж С	relium in Purge interval (%)
Date	Time 103.5		ole ID (45) <sub>,</sub> 10 <sup>0</sup> 20	Canisto	er ID 472	Flow Contro		Vacuun	n Gauge	<sup>#</sup> Vac	tial uum	Final Vacuum		beneath ud (%)  Max  29, /
Comment	s: * u	reflower jection	interfer	ence, c	ompan	ng "He"	Nea	Jing i	~iH.	out of	Noul	dand	He	



30IL	VAPUR	LIELD	TURIVI									•	ORPORATION B	
					We	ell ID V	v-9	6 (50)	)		ub-slab F	Probe 🔽	Nested I	Probe
	Date:	10/4/	09		Ī	PID (make/mo	del/seri	al number)	: N	while	2 20	00 11	0-6	0710
Pro		HOOVE				Landtech (mo	del/seri:	al number)	· <u>~                                    </u>	oe E	136	5105		
			16-012	_ F										~ X-
		Hoove		'	Manama	tor (make/mo ter (make/mo	dol/cari	al numbor)		-	102	77	282	<b>S</b>
				6.			uei/seri					l		
			mirchelly		sohme; e					unny				
, ke	coraea by:	Mart	MITCE	e 17				ure (°C/°F)		500		-		
						Atmospher	ic Pressi	ıre (in. Hg)			<del></del>			×
Surface Typ	e:	Concre	ete	Asphalt	: [	Grass		(Y) Other						
Surface Thi	ckness (inche	 es):			্থ	Unknown		7						
						OTIKITOWIT				W)				
Initial /P	ressure 🔲 '	Vacuum (in. I	H2O): O.12	/ Time:	: [157	Start Tin	ne of Pn	eumatic Te	esting:					
		Shut-	in Testing		<u> </u>	Elaps	ed Time	(min)	Pun	np Flow Rate	(LPM)	Well Hea	ıd Vacuur	n (in. H₂O)
Prior to Pne	eumatic	ОК	@ <i>I</i>	157			1	<del>-</del>		0.1	· ·		9,2	
Prior to Pur	ge	ОК		170			i		···	0,2			2. 41	
Prior to San	nple Collectio		<u> </u>	. ( )0			+			0.5			7.82	
				1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	The state					<i>O</i> . >		*	0	<i></i>
										*		<u> </u>		
		<u> </u>								Total				
<b>.</b> .	Start	End	Elapsed	Bag	Purge		•		7-43	Total Organic	1	ium beneat hroud (%)	th	Helium in Purge
Date	Time	Time	Time (min)	Volume (L)	Rate (LPM)	CH₄ (%)	CO <sub>2</sub> (	%)   O <sub>z</sub>	(%)	Vapors	3	mroud (%)		Interval
					(=:,	_				(ppmv)	Min	M	ах	(%)
		81	rem	Tic		44.8	6.0	1 7.	4	134			-	<u>کہ ک</u>
Oct 1/09	Wo	1177	7	0.)	1.4	99.0	0	2	.0	140	10.2	124	.6	$\ell$ , $\ell$
OCT 200	11127	1134	7	02	1.4	138 99.0	0	2	18	148	0	0	l	1,0
10/2/09	1134	1139	5	0.2	1,0	99.0	0		0	150	0			12
12/ / 1		1 - 1 - 1 - 1												(, ) ~
					<del>                                     </del>									
				4										
	- •	<u> </u>												
-	1	T												
		_	1 15		_	_1 _			_	Init	ial	Final	1	beneath oud (%)
Date	Time	Sam	ple ID	Canist	er ID	Flow Control	ler#	Vacuum	1 Gauge	# Vacu		Vacuum		<del></del>
8.17	f: -	th . 61	(0.4)					Control		~ 4	100 -	- O N.	Min	Max
Poffso	1155	JW 96	0(50)100)	9 317	68	FC 6030	3			- 28	, 41	3,30	iss	33.1
														1
													•	
					-							Tint-		
Comment	s:													



		.:			We	ell ID	96(	(5-5)			Sub-slab P	robe 🙀	Nested	Probe
11-12-11-11-10-00-11-10-00-11-10-00-11-10-00-11-10-00-11-10-00-11-10-00-11-10-00-11-10-00-11-10-00-11-10-00-1	Date:	10/4	09			PID (make/mo	del/seri	al number	): N	1/11/ac	200	0 110	-00	77/2
Pro	ject Name:	Hoove	ヘレエ			Landtech (mo	del/seria	al number		00 E				
Projec	ct Number:	500-6	16-01	2 H	elium Detec	ctor (make/mo	del/seria	al number					826)	<.
		Hoove				eter (make/mo								
			n. 576	e11				Weathe	r:	5	vans			
			nirdel			Air To	emperat	ure (°C/°F	):	75°				
	-	* ** * * *	12-11			Atmospher								
							- water or a							
Surface Typ	e:	Concre	ete	Asphalt		Grass		Othe	r					
Surface Thi	ckness (inche	es):				Unknown								
						•		,					<del></del>	
1tri-100 p			10) / 7		11 00	T comme	(5							
Initial P	ressure	Vacuum (in. F		Time:	1203	_		eumatic T			3			
Prior to Pne	eumatic	<del> ,</del>	in Testing @	13		Elaps	sed Time	e (min)	Pun	np Flow Rate				m (in. H₂O)
Prior to Pu			<del></del>	1203						0.			0,1	
	nple Collectio		=	1035						0.2			<u>-3</u>	
Frioi to Sai	iipie collectic	JII OK		1105		V1.744	(			0.	<u>5</u>	0	° 89	•
						(fig.								
-								T	· <del>i</del>	Total			_	
Data	Start	End	Elapsed	Bag Purge Volume Rate	Purge	CH (0()	H <sub>4</sub> (%) CO <sub>2</sub> (%)		10/1	Organic	1	um benea hroud (%)	th	Helium in Purge
Date	Time	Time	Time (min)	Volume (L)	Kate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (	%)   C	)2 (%)	Vapors	Vapors			Interval
						C24 ( n	· accep	<del>.</del>		+ ** *		. M	ах	(%)
		<i>F</i>	nun			54.4	7.0		1.7	132				2.5
10/2/09	1045	1052	7	1,4	0,2	99,0	0		14	146	16.3		, 2 4	(, 3
10/2/09	1052	1059	7	1.4	0.2	99.0	0	~	.7	160	(C	> (	0	4.1
10/2/09	1059	1104	5	1.0	0.2	99.0	0	0	13	161	,			
	,													
					•									
													· ·	
***									1	Ini	tial	Final		n beneath
Date	Time	Sam	ple ID	Caniste		Flow Contro		Vacuu	m Gauge	t Vac	uum	Vacuum		oud (%)
.0//0	1/55	1. 11. 6-6	) ( (a)	217	6	FC008	20			2-8	2.99	? <i>cel</i>	Min	Max
10/2/09	1105	VW-9	6(SS) 100201	7	5	<del>1000 )(</del>				( <del>8)</del>	1	3,56	10.8	30,7
													-	
		***					4							
Comment	·c.													
Comment														
								<del> </del>						
		we.												



					We	III IDMJ6	(60	<u>)                                    </u>			Sub-s	lab Prob	e 🖵	Nested	Probe
	Date:	10/11	09		Р	PID (make/mo	del/seri	al numbe	er):	nmil	ae 20	00	1/-	0-0	07718
Proj	ject Name:	H000	ren VI		1	Landtech (mo	del/seri	al numbe			2 - E				
Projec	t Number:	500-6	016-01	L H	lelium Detect	tor (make/mo	del/seri	al numbe	er):		0 2				-6×
Site	e Location:	Hoor	en, 0 H		Manomet	ter (make/mo	del/seria	al numbe				***			
Field I	Personnel:	MATT	,					Weath	ner:	Sun	· ·				
Re	corded by:		n/TOUL			Air T	emperat	ure (°C/°	°F):	5 m					
	-					Atmosphe			·						
Surface Typ	e:	Concre	te	Asphalt		Grass		Oth	ner			-			40
Surface Thio	ckness (inche	s):				Unknown				****					
Initial ( ) Ýi	ressure 🗀	/acuum (in. H	20): 0,(	2 Time:	1200	Ctort Ti	mo of Do	oumotio	: Testing:						
IIIIIII G FI	ressure		n Testing	IIIIe.	1209							a)   ,			// // 0)
Prior to Pne	umatic			209		Elap	sed Time	e (min)	Pur		Rate (LPN	4) V			m (in. H₂O)
Prior to Pur			<u> </u>	1 3 5				***************************************						0, 1. 2, 3.3	<u>,                                     </u>
	nple Collectio		<u> </u>	1-23						0	.2				
				A 8 #1 815.81		1. i				حمري			-1.	03	
				Harte II	- N. 18.28									****	
										Tot	tal				
Date	Start	End	Elapsed Time	Bag Volume	Purge Rate	CH₄ (%)	CO <sub>2</sub> (	%)	O <sub>2</sub> (%)	Orga		Helium Shro	benearud (%)	tn	Helium in Purge
2410	Time	Time	(min)	(L)	(LPM)	C114 (70)	2021	,,,	02 (70)	Vap					Interval
		0000	MIC			99.9	0	2	3.9	(ppr		Min	IVI	ах	(%)
20/2/21	11 12			1 .	0	>100	0.		- ' (			i	3-		3,0 3,3
10/2/09	1230	1230		1.4	0,2	<del>                                     </del>	9,8		3.6	215		1, /	22	, –	
10/2/09		1237	7	1.9	0	>100	11.9		0,2	23		0	0		3,8
10/2/34	1237	1242	5	1.0	0,2	7100	11.9	(	0,5	936	2	0		-	Websers of the Control of the
													<u> </u>		
													-		
											Initial	F	inal		n beneath oud (%)
Date	Time	Sam	ole ID	Canist	er ID	Flow Contro	ller#	Vacui	um Gauge	e#	Vacuum	1	cuum		
7.1.169	1248	V 16/	11.5	.0.4.		576	7.7		- Michigan Control		100 1.1	6/b -		Min	Max
04 Y09	1411	W 96	100 10030	15575		PCO08	20				28.41	4.1	Ü	15, 4	
			•												
		<b> </b>										-			
								***	•						
Comments	s:														
											*********				
											*******		<del></del>		



Well ID UW 99 (54) \_\_\_\_ Sub-slab Probe \( \bar{\pi} \) Nested Probe Project Name: 1-100 val va PID (make/model/serial number): minime 2000 110-007718 Helium Detector (make/model/serial number): 500 - £13 65105

Holium Detector (make/model/serial number): 452826X Project Number: 500 - 016 - 012Site Location:  $1400 \times 10^{-1}$ Manometer (make/model/serial number): Field Personnel: matt mittell Rym Strohmier Weather: Sony
Air Temperature (°C/°F): Recorded by: mart MT(411 Atmospheric Pressure (in. Hg): Surface Type: Concrete Asphalt Other Surface Thickness (inches): Unknown Initial Pressure Vacuum (in. H<sub>2</sub>O): -(1) - (1) Time: 1403 Start Time of Pneumatic Testing: **Shut-in Testing** Elapsed Time (min) Pump Flow Rate (LPM) Well Head Vacuum (in. H2O) Prior to Pneumatic OK [7] @ 1410 100 OK pm @ 1420 Prior to Purge 0,02 200 **Prior to Sample Collection** ок [∑] @ 1444 500 Total Helium beneath Helium in Elapsed Bag Purge Start End Organic Shroud (%) Purge Date Time Volume Rate CH4 (%) CO2 (%) O2 (%) Time Time Vapors Interval (min) (L) (LPM) (ppmv) Max (%) 10/2/09 aric 0 10/2/09 (. Q 13.08 1,0 16.5 02 100 0.2 30.0 10.8 1436 100 **Helium beneath** Initial Final Shroud (%) Date Time Sample ID Canister ID Flow Controller# Vacuum Gauge # Vacuum Vacuum Max UW 99 (54) 100209 Ecoo 159 30.1 Comments:



SOIL	VAPOI	R FIELD	FORN	ſ	We	IIID V	N - 991	(10)	C°	Sub-slab Pro	Dibe Nest	ed Probe		
	Date:	10/02			P	ID (make/	model/seria	ıl number):	MINI RAE	2000	110-0086	93		
	roject Name:				I	Landtech (	model/seria	ıl number):	02029					
	ect Number:			Н					MGD 2002	US30	96X			
	Site Location:				Manomet	er (make/	model/seria	ıl number):	110100					
	d Personnel:							Weather:	CLOUDY					
<b> </b>	Recorded by:	AS_	<u></u>				r Temperati							
						Atmospl	heric Pressu	re (in. Hg):	29.01					
Surface Ty Surface Th	ype: hickness (inch	Conc es):	rete	Asphalt		Grass Jnknown		Other						
Initial Pre	essure/Vacu			Time:	6953	Field	l Tubing bl	ank readir	ng (ppm):		Time:			
0.1.1.0			in Testing	,		Start of Pneumatic Testing: 0953								
Prior to Pr				9953		El	apsed Time	(min)	Pump Flow Rate	(LPM)	Well Head Vacuum (in. H₂C			
Prior to Pu	inge imple Collection	OK OK	<u> </u>			_	0.5		0.1		-0.09	1		
Pilor to Sa	imple Collection	on OK	<u> </u>			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)	CH₄ (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors	1	n beneath oud (%)	Helium in Purge Interval		
10/2/09	PNEWM	ATIL		~1.5	(=: 141)	0.0	0.4	19.7	(ppmv)	Min	Max	(%)		
10/2/09	PNEUM 1602	1607	5	1,0	0.2	2.5	7,0	4.1	76.8	12.4	31,8	0		
	1607		5	1.0	0,2	2.6	6.9	4.8	6.6	15,1	27.8	0		
10/2/01	1/12	1617	5	1.0	0.2	24	6.7	43	476/	16.9	291			

C-7-7-1	1012	1917	7,00	2 2,1 6, /	7.5 41.6	18.	7 27.	
Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)
15/2/69	1625	UW-99(10),1002	2083	FL00793	1029357	29.02	2.56	Min Max 25.0 40.1

Comments:			







Well ID WW-QQ(IS) Sub-slab Probe Nested Probe

Date: 10 2 0 9	PID (make/model/serial number): MIN RAE 2000 110-00で	100
Project Name: 5 Hours U	Landtech (model/serial number): 02029	3643
Project Number: Sob-016-617	Helium Detector (make/model/serial number): MAD 2002 1153 0964	
Site Location: [Locuto 6]	Manometer (make/model/serial number): 18615 6	
Field Personnel: AS PM	Weather: Sunny	
Recorded by:	Air Temperature (°C/°F):	
	Atmospheric Pressure (in. Hg): 29:01	

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

Initial Pressure/Vacuum	(in. H₂O): $b$ . $\mathcal{O}$	Time: 0956	Field Tubing blank read	ing (ppm):	Time:
	Shut-in Testing		Start of Pneumatic Testing	0956	
Prior to Pneumatic	OK 🗷 @ O	956	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Purge	OK @ /	533	0.5	0.1	-0.08
Prior to Sample Collection	ок 🔀 @		1.0	0.2	-0.15
			1.5	0.5	-0.41

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH₄ (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	l	beneath ud (%)	Helium in Purge Interval
2009			(**************************************	(-/	(21 141)				(ppinv)	Min	Max	(%)
10/2	PNEUN	ATIC		~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	3,7_	3.2	13,6	5.3	18.1	28,2	0
10/2	1544	1549	5	1.0	0.2	15.9	9.2	2.2	7.4	NO A	ELIUM	2325

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	ben Shroi	lium eath ud (%)
182/09	1557	W-99(15), 100269	2199	6744	1029357	29.03	3/6/	Min 7,9	Max 39, 2
						Ì			

Comments:	





SOIL	VAPO	R FIELD	) FORI	VI									<b>Fihy</b>	dro
					_	Well ID	W-90	9(20)		o s	Sub-slab I	Probe	Nested I	<sup>2</sup> robe
Proj S Fiel		14000EN 14000EN	0 N1 0-012 016 PM	- - - -		tector (make/r meter (make/r Air	nodel/seri nodel/seri nodel/seri Temperat	al number): al number):	1202 MGD 20 WEISE CLOND	9			-008	693
Surface Ty Surface Th	ype: hickness (inch	Concr	rete	Asphalt		Grass		Other						
Initial Pre	essure/Vacu	uum (in. H₂O):	: ₽0.0	Time:	1003	Field	Tubing b	lank readir	ng (ppm):	-		Time:		
Prior to Pr Prior to Pu Prior to Sa		OK OK		1003 1500 1500		Ela	of Pneumanpsed Time	e (min)	/00 Pump Flow	v Rate	(LPM)	-0.	1 18	n (in. H₂O)
							/, >		0.5			-0.	4 /	
Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purg Rate (LPM	E   CH <sub>4</sub>   (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Org Vapor (ppmv	s		um benea hroud (%)		Helium in Purge Interval (%)
10/2		MATIC		41.5	_	41.0	11.9	1.5	19°Z	_				(70)
	1502	1507	5	1.0	0,2	100	12.1	0,0	2.64		13,1	, , , , ,		775
10/2	1564	1523	5	1.2	0.2		12.5	-	93	2 <b>7</b> L	29. No	1 50. HE-14.		550 500
										In	itial	Final	1	elium neath
Date	Time	Sampl	_	Canister I	D	FLOOS		n Gauge # Initi Vacu		cuum	Vacuum	Min	Max	
	1330	yw "iller	J,10020 1	2218		FLOU S		1629 3	SS /	01	.64	3,39	173	38.2
Commen		N2												

proper Sur



Well ID WN - 99 (25) Sub-slab Probe Nested Probe

Date: 0209	PID (make/model/serial number): MINI RAC 2000 110-008693
Project Name: LIWEN VI	Landtech (model/serial number): 02029
Project Number: SOD-616-612	Helium Detector (make/model/serial number): 153096X
Site Location: 4000EN OH	Manometer (make/model/serial number):
Field Personnel:	Weather: (LOUD)
Recorded by:	Air Temperature (°C/°F): (100°
	Atmospheric Pressure (in. Hg): 29. (2)

Surface Type:	Concrete	Asphalt	Grass	Other	
Surface Thickness (ir	nches):		Unknown		
				CONTRACTOR OF THE CONTRACTOR O	

Initial Pressure/Vacuum (	in. H₂O): (), O()	Time: 1006	Field Tubing blank read	ling (ppm):	Time:
	Shut-in Testing		Start of Pneumatic Testing	: 100G	
Prior to Pneumatic	OK 🖾 @ 10	06	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H₂O)
Prior to Purge	OK 28 @ 142	27_	0.5	90.1	-0.1
Prior to Sample Collection		12	1.0	6.2	-0.19
			1.5	0.5	-0,54

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume	Purge Rate (LPM)	CH₄ (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors		beneath ıd (%)	Helium in Purge Interval
2009			(111111)	(L)	(LPIVI)				(ppmv)	Min	Max	(%)
10/2	PNEUN	MATIC	-	~1.5	_	25.8	9.5	2.1	0.0	_		
10/2	1424	1429	5	1.0	6.2	204	9,9	25	179	14.7	38, E	4350
16/2	1439	1434	5	1.0	6,2	22 ,7.	11.7	0.0	0.0	29.8	30,6	1200
10/2	1434	1439	5	7.0	0.2	22.3	1102	0,4	227	NOHE	LIUM	1.4300
10/2	1447_	1447	5	1,0	0.2	23,2	12.1	0.0	0.0	17.3	227	2725

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
10/2/09	1457	VW-94(25), 160209	1450	FC06489	1029357	28.98	293	Min 21.3	Max 32.6

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o Signing



Well ID VW -99 (30) Sub-slab Probe

Date: 10/2/01	PID (make/model/serial number): MW RAG 2000 110-004693
Project Name: HODDEN U	Landtech (model/serial number): 02029
Project Number: <u>560-616-677</u>	Helium Detector (make/model/serial number): MLD 20152 US3096X
Site Location: 1200060 6H	Manometer (make/model/serial number): $\mu\epsilon$
Field Personnel: AS, PM	Weather: CLONDY
Recorded by:	Air Temperature (°C/°F): 60
	Atmospheric Pressure (in. Hg): 29, 0

Surface Type:	Concrete	Asphalt	Grass	Other	
Surface Thickness (in	ches):		Únknown		

Initial Pressure/Vacuum (i	n. H₂O): <i>O</i> .O	Time: 1009	Field Tubing blank read	ling (ppm):	Time:		
	Shut-in Testing		Start of Pneumatic Testing	1009			
Prior to Pneumatic	OK 200	09	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H₂O)		
Prior to Purge	OK 🔀 @ 1-	351	0,5	0,1	-0.11		
Prior to Sample Collection		35	1,0	0,2	-0,21		
				0,5	-0.54		

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors		beneath ıd (%)	Helium in Purge Interval
2007			(111111)	(L)	(LPIVI)				(ppmv)	Min	Max	(%)
10/2	PNEUN	タナノく	weather.	~1.5		37.5	12.6	0.0	193		_	
10/2	1355	1400	5	1.0	0.2	36,4	11.4	6.9	196	16.1	24.1	4900
10/2	1400	1407	フ	1.4	0.2	37.3	11.5	0.6	207	26.9	40,3	6625
10/2	1407	1412	\$	1.0	0.2	39.5	11.5	6.8	202	NO HE	LUMM	5200

Date	Time	Sample ID	Canister ID	Flow Controller#	Vacuum Gauge #	Initial Vacuum	Final Vacuum	ben	lium eath ud (%)
								Min	Max
1-12/0	1420	UW-99 (30),100209	30817	FC00857	1029357	29.05	3.98	24.3	29.8
,			34668	FC00816	1029357	28.99	5,66		
				DID NOT USE I					

Comments:	DID	NOT	USE	FC00857			







Well ID W ~ (99 (35)

Sub-slab Probe	$\overline{}$	Sub-slab	Probe
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M	Nested	Probe
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Date:	10/2/02	PID (make/model/serial number):	MINIRAG 2002 110-009693
Project Name:	ADDOCA VI	Landtech (model/serial number):	02029
Project Number:	500-016-072	Helium Detector (make/model/serial number):	MG02602 U53096X
Site Location:	HOBUGH OH	Manometer (make/model/serial number):	HEISE
Field Personnel:	BS PM	Weather:	PARTLY CLOUDY
Recorded by:	AS	Air Temperature ( $^{\circ}$ C/ $^{\circ}$ F):	60°
		Atmospheric Pressure (in. Hg):	29.01

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

Initial Pressure/Vacuum (in	n. H <sub>2</sub> O): + O . O ]	Time: 1011	Field Tubing blank read	ling (ppm):	Time:
	Shut-in Testing		Start of Pneumatic Testing	s: /01/	
Prior to Pneumatic	OK 🖾 @ 100	<sup>(</sup> )	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H₂O)
Prior to Purge	OK X @ 1316	7	0.5	0,1	-0.12
Prior to Sample Collection	01/100	7	1,0	0.2	-0.25
			1,5	0,5	-0.65

Date	Start Time	End Time	Elapsed Time	Bag Volume	Purge Rate	CH₄ (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors		beneath ud (%)	Helium in Purge Interval
2009			(min)	(L)	(LPM)				(ppmv)	Min	Max	(%)
10/2	PNEU	MATIC	,	V1.5	_	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
10/2	1323	132.4	S	1.0	0.2	42.4	10.1	2:2	0,0	19.5	49.3	0
10/2	1334	1339	5	1.0	0.2	44.7	11,2	0.3	0.1	14.7	28.9	0

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	ben	ium eath ıd (%)
10/2/09	1344	VW-99(35),1002A	2037	RE 6708	1029357	29,04	2 (4	Min /3,5	Max 39. 9
	1313	7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7 7	4033	PC 6708	7029337	21,09	2.69	1 2, 3	31. 1

Comments:		

12



Well ID W-99 (40) Sub-slab Probe Nested Probe

Date: 10 2 09	PID (make/model/serial number): MINI RAS 2660 110-068693
Project Name: HOWGD VI	Landtech (model/serial number): 152529
Project Number: 500-016-012	Helium Detector (make/model/serial number): MCD 2062 US3096X
Site Location: 1466060 614	Manometer (make/model/serial number): しんこう
Field Personnel: No PM	Weather: PARTLY CLOND?
Recorded by:	Air Temperature (°C/°F): 60°
	Atmospheric Pressure (in. Hg): 29,01

Surface Thickness (inches): Unknown	rass Other	SS		Asphalt	Concrete	e:	Surface Type
	own		$\Box$			ckness (inches):	Surface Thick

Initial Pressure/Vacuum (i	n. H <sub>2</sub> O): 10.02 Time: 1013	Field Tubing blank read	ling (ppm):	Time:
	Shut-in Testing	Start of Pneumatic Testing	s: 1014	
Prior to Pneumatic	OK Ø @ 1014	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H₂O)
Prior to Purge	OK @ 1240	0.5	0.1	-0.11
Prior to Sample Collection	OK \$ @ 1240	1,0	0.2	-0.23
		1.5	0.5	-0.69

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors		beneath ıd (%)	Helium in Purge Interval
2009			(iiiii)	(L)	(LFIVI)				(ppmv)	Min	Max	(%)
10/2	PNEUI	MATIC	<b></b>	~1.5	_	67.4	11.3	0.0	173	ب		1
10/2	1240	1245	5	1.0	0.25	71.2	10.7	0.6	230	NO 46	Llum	8200
10/2	1245	1250	5	1.0	0,2	51.2	9.6	26	227	40.1	45.7	1825
10/2	1250	1255	5	1.0	0.2	55,1	103	1.3	1.2?	NO HE	1UM	0
16/2	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 (%)	
10/2/09	1314	No-41(46),100209	11900	FC00751	1529357	29.03	4.05	Min 25,4	Max 77.9

Comments:			



Well ID Ww 44 (45) Sub-slab Probe Nested Probe

Date: (0) 2	PID (make/model/serial number): MAN RAG 2000 110-008693
Project Name: <u>仏のいんり</u>	Landtech (model/serial number): (12029
Project Number: 500-616	612 Helium Detector (make/model/serial number): MWD2062 US3096X
Site Location: 400060	Manometer (make/model/serial number): 上に
Field Personnel: P1	Weather: PAZ-TLY CLOUDY
Recorded by:	Air Temperature (°C/°F): (5()
	Atmospheric Pressure (in. Hg): 24,03

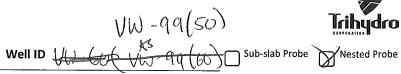
Surface Type:	Concrete	Asphalt	Grass	Other	
Surface Thickness (inch	ies):		Unknown		

Initial Pressure/Vacuum (	in. H <sub>2</sub> O): 6.02 Time: 1016	Field Tubing blank read	Field Tubing blank reading (ppm):				
	Shut-in Testing	Start of Pneumatic Testing	1016				
Prior to Pneumatic	ok Sti@ 1016	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H₂O)			
Prior to Purge	OK Ø @ N 1210	0,5	0.1	-6.13			
Prior to Sample Collection	OK 💢 @ 1211	1. O.	6.5	-0.28			
		1.5	0.5	-0:77			

Date	Start Time	End Time	Elapsed Time	Bag Volume	Purge Rate	CH₄ (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors		beneath ud (%)	Helium in Purge Interval
2007			(min)	(L)	(LPM)		` ′		(ppmv)	Min	Max	(%)
10/2	Pue	un A:	716	~1.5		59.5	11,3	0.0	202	Ų	_	_
10/2	1214	1220	6	N	0.175	38,6_	2.6	3,1,	317	No H	elium	4650
10/2	1220	1226	8,5	11	0.200	41.8	8.7	3,5	281	16.9	(8.9	250
10/2	1226	12.31	5	7.	6,200	76.6	11.3	0.0	211	NoH	eliam	6825
•		,							1355			

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
10/2/09	12 <b>3</b> g	160-99(45),100209	2032	FL00153	1029357	29.02	4.24	Min 15,4	Max 24,2
21.24									

Comments:			





Date:	10/2/09	PID (make/model/serial number):	MINIRAE 2000 110-004693
Project Name:		Landtech (model/serial number):	
Project Number:	500-016-012	Helium Detector (make/model/serial number):	M602002 U530964
Site Location:	HOOUGU 6H	Manometer (make/model/serial number):	HEISE
Field Personnel:	DR BW	Weather:	PARTLY CLOUDY
Recorded by:	<u> 4</u> 5	Air Temperature ( $^{\circ}$ C/ $^{\circ}$ F):	60°
		Atmospheric Pressure (in. Hg):	29.03

Surface Type: Concre	ete Asphalt	Grass	Other	
Surface Thickness (inches):		] Ŭnknown		

Initial (ressure/Vacuum (ir	n. H2O): +0.02	Time: 1624	Field Tubing blank read	ing (ppm):	Time:
	Shut-in Testing		Start of Pneumatic Testing	: 1024	
Prior to Pneumatic	OK 💆 @ 11)	24	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H₂O)
Prior to Purge	OK 2 @ 10	33	0.5	0,1	-0.15
Prior to Sample Collection	OK ⊠ @		1,0	0.2	-0.32
			1,5	6.5	= 0.86

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH₄ (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)		beneath ud (%) Max	Helium in Purge Interval (%)
15/2	PNEC	MATIC	_	~1.5	_	76.9	12,4	6.0	286	7	- IVIAX	(70)
10/2	1037	1012	5	1.0	6.2	89.5	11.9	6.0	266	20.2	44,4	0
10/2	1042	1047	5	1.0	6.2	91.2	12.1	6.0	276	25.4	37.8	5200
10/2	1047	1052	3	د	6.2	94,1	11.8	0.0	284	NO HEL	14W	12,200

Date	Time	Sample ID	Canister ID	Flow Controller#	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
10/2/2009	1108	VW-99(66), 100209	9353	F600280	1029357	00.00		Min	Max
1012/101	1100	77 [60], 100207	122 3	1-000200	1029337	28.97		30.5	36.€ 46.1
									7011

Comments:			 	1



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

Date:	10/2/09	PID (make/model/serial number):	MINI RAG 2000 110-004693
Project Name:	14000E2 N	Landtech (model/serial number):	62029
Project Number:	500-016-012	Helium Detector (make/model/serial number):	MLD 2002 US3096X
Site Location:	HOUNEN 6H	Manometer (make/model/serial number):	H6156
Field Personnel:	K CW	Weather:	PARTLY WOUDY
Recorded by:	K5	Air Temperature ( $^{\circ}$ C/ $^{\circ}$ F):	60°
		Atmospheric Pressure (in. Hg):	29.03

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

Initial Prossure/Vacuum (i	n. H <sub>2</sub> O): 1 1 Time: 152	Field Tubing blank read	ing (ppm):	Time:		
	Shut-in Testing	Start of Pneumatic Testing	: 1021			
Prior to Pneumatic	ok № @ 1021	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H₂O)		
Prior to Purge	OK 2 @ /109	0.5	0.1	-0.15		
Prior to Sample Collection	ok ⊠ @ //10-	1,0	0:2	-0.34		
			6.5	-0.95		

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH₄ (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	I.	beneath ud (%) Max	Helium in Purge Interval
10/2	PNEW	MATIC	~.	~1.5		65,5	10.7	0.0	296		IVIGA	(%)
10/2	1110	1115	4 5	1.0	6.2	99.9	11.4	0.8	304	NO HEL	1U.M	10,025
10/2.	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	>7	12.1	0.0	302	NO 146C	1 um	11875

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
br	1136	MD 94 (55), 100209	34610	FC00466	1029357	28.96		Min 32.7	Max 42.2

Comments:			



Well ID VW ~ Ge (60)

☐ Sub-slab Probe	Nested Probe

Date:	10/2/09	PID (make/model/serial number):	MINIRAL LODO 110-008693
Project Name:	M CAUDOLL	Landtech (model/serial number):	02029
Project Number:	500-016-672	Helium Detector (make/model/serial number):	MUD2002 USZ096X
Site Location:	HOWLEN, OH	Manometer (make/model/serial number):	HEISE
Field Personnel:	BS 6W	Weather:	CLOUDI
Recorded by:	<u> </u>	Air Temperature (°C/°F):	60°
		Atmospheric Pressure (in. Hg):	29.03

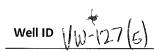
Surface Type:	Concrete	Asphalt	Grass	Other	<b>7.</b>	
Surface Thickness (inches	):		Unknown			

	0.00					
Initial Pressure/Vacuum (	in. H₂O): -0.03	Time:1019	Field Tubing blank read	Time:		
<b>V</b>	Shut-in Testing	1019	Start of Pneumatic Testing	: 4019 1	142	
Prior to Pneumatic	OK \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\ \\	719	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H₂O)	
Prior to Purge	ok 🗭 @ /1	44	0.5	0.1	-6.15 -0.04	
Prior to Sample Collection	ок 🙀 @		1,0	0.2	-0.32-0.10	
			1.5	0.5	0.89-0.32	

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume	Purge Rate (LPM)	CH₄ (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors		beneath ud (%)	Helium in Purge Interval
2009			(111111)	(L)	(LFIVI)	259	10.6	1,0	(ppmv)	Min	Max	(%)
10/2	PNEU	NATIC		~1.5			10-9		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	30.6	35.9	0
10/2	1201	1206	5	1.0	.2	11.7	9.0	30	498	28.1	44.1	t

Date	Time	Sample ID	 Canister ID	Flow Controller # Vacuum Gauge #		ter ID Flow Controller # Vacuum Gauge # Initial Vacuum	Initial Vacuum		Helium beneath Shroud (%)	
							Min		Max	
policipal polici			-17-34	F600505		2848				
10/2	1205	VW-99(50),100209			1029357	28.94	430	28.0	29.7	

Comments:			
		· · · · · · · · · · · · · · · · · · ·	





Sub-slab Probe Nested Probe

Date: 10 ( 09	PID (make/model/serial number):	MINI RAE 110-008693
Project Name: HOOVEN, OH VI	Landtech (model/serial number):	02029
oject Number: <u>500-016-012</u>	Helium Detector (make/model/serial number):	MGD2002 US3096X
Site Location: Hosぃ トゥ ロー	Manometer (make/model/serial number):	HEISE
eld Personnel: AS, PM	Weather:	aoudy
Recorded by:	Air Temperature (°C/°F):	550
	Atmospheric Pressure (in. Hg):	

Tomas I Washington					 
Surface Type:	Concrete	Asphalt	Grass	Other	
Surface Thickness (in	nches):		☐ Unknown		
,	·				

Initial Pressure/Vacuum (i	in. H₂O): - 0.67	Time: 1104	Field Tubing blank read	ling (ppm):	Time: 407		
	Shut-in Testing		Start of Pneumatic Testing: // / /				
Prior to Pneumatic	OK 0 (0)		Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H₂O)		
Prior to Purge	OK 25 @ 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	Start Time	End Time	Elapsed Time	Bag Volume	Purge Rate	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors		beneath ud (%)	Helium in Purge Interval
2009			(min)	(L)	(LPM)				(ppmv)	Min	Max	(%)
10/1	PNEUN	DATIC		~1.5		00.1	4.6	13.0	7,3	No.	_	_
141	1538	1543	5	1.0	0.2	\$30.C	4.4	14.6	0.3	13.1	28.9	6
10),	1843	1548	5	1,0	0.7	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 (%)	
10/001/0	7 1600	VW-127(5),100109	9 36376 6570		1029357	29.11	4,65	Min 16.5	Max 25.8

Comments:			

Date: 10/1/09 Project Name: 400060 V Project Number: 500 - D16 - O12 Site Location: HOOVEY, OH Field Personnel: AS, PM Recorded by:



Well ID \\ (10)	Sub-slab Probe Nested Probe
PID (make/model/serial number):	MINI RAE 2000 110-008/693
Landtech (model/serial number):	(72079
Helium Detector (make/model/serial number):	MW2002 U56096X
Manometer (make/model/serial number):	NEISE
Weather:	CLOUDY
Air Temperature (°C/°E)	70

Surface Type:	Concrete	Asphalt	Grass	Other	
Surface Thickness (inch	es):	2	Unknown		

Atmospheric Pressure (in. Hg):

Initial Pressure/Vacuum (i	n. H <sub>2</sub> O): -0.76	Time: ///3	Field Tubing blank read	ing (ppm):	Time: ++++			
	Shut-in Testing		Start of Pneumatic Testing:					
Prior to Pneumatic OK \( \overline{\			Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H₂O)			
Prior to Purge	ок 🗀 @		0.5	0.1	-0.38			
Prior to Sample Collection	ок 🗀 @		1.0	0.2	-0.45			
			1.5	0,5	-0.84			

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume	Purge Rate	CH₄ (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors		beneath ud (%)	Helium in Purge Interval
2009			(mun)	(L)	(LPM)				(ppmv)	Min	Max	(%)
10/1	PNEUN	NATIC		~1.5		0.0	7.8	6.1	2.4	-	_	- CONTRACTOR OF THE PARTY OF TH
10/1	1611	1616	5	1.0	0,2	0.0	6.9	6.5	0.4	11.5	21.9	6
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	6.0	7,0	6.4	0.2	15,9	20.8	0
												-

Date .	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
10/1/09	1635	VW-127(10),160109	2131	FL.00760	1029357	29.13	2.98	Min 21, 2	Max 29.S

Comments:		



Well ID W - 120 (15) Sub-slab Probe Nested Probe

Date: 10100	PID (make/model/serial number):	MINIRAE 200 110-008693
Project Name: HOOVEN VI	Landtech (model/serial number):	
Project Number: 500-616-612_	Helium Detector (make/model/serial number):	MGD 2002 US3096X
Site Location: [[(XXXE3-), OF]	Manometer (make/model/serial number):	Heise
Field Personnel: K, PM	Weather:	CLOUDY
Recorded by:	Air Temperature (°C/°F):	550
	Atmospheric Pressure (in. Hg):	

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

Initial Pressure/Vacuum (i	n. H <sub>2</sub> O): - 0.76	Time: 1120	Field Tubing blank readi	ng (ppm):	Time:		
	Shut-in Testing		Start of Pneumatic Testing	112	<del>1121</del> 1132		
Prior to Pneumatic	OK 🖾 @ #12	+ 1132	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H₂O)		
Prior to Purge	OK 25 @ 144	8	-O.T 0.5	0.1	-0.63		
Prior to Sample Collection	OK \$ @ 1440	1	1.0	0.2	-0.10		
			1,5	0.5	-0.30		

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume	Purge Rate (LPM)	CH₄ (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors		beneath ud (%)	Helium in Purge Interval
2009			(111111)	(L)	(LPIVI)				(ppmv)	Min	Max	(%)
10/1	PNEU	NATIC		~1.5		0.0	4.8	16,4	2.1			_
16/1	1450	1455	5	1.0	0.2	0,0	2.4	15.9	0,0	36.1	49.0	Q
10/1	1455	1500	5	1.0	0.2	Ó.0	2.,\	14.9	0.0	38.4	45.4	0
16/,	1500	1565	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 (%)	
16/1/09 15/2	1W-127(15),10010S	33717	0673	1029357	29.13	4.35	Min 52.5	Max 36.5

Comments:	PULLED	WATER	FROM	VALUE.	REPEAT	SHUT-IN	N. Washington	



Well ID Ww (- 127 (20) Sub-slab Probe Nested Probe

Date: 10 (109	PID (make/model/serial number): 🛚 🛭	MINI RAE 2000 110-058693
Project Name: 40006N U	Landtech (model/serial number):	12029
Project Number: ζυυ - 61 6 - 612-	Helium Detector (make/model/serial number):	MUD2002 US3096X
Site Location: 406 Vといっひ	Manometer (make/model/serial number):	HISE
Field Personnel: AS, PM	Weather:	LOUDY
Recorded by:	Air Temperature (°C/°F):	550
	Atmospheric Pressure (in. Hg):	

Surface Type:	Concrete	` Asphalt	Grass	Other		
Surface Thickness (in	ches):		Unknown		,	

Initial Pressure/Vacuum (	n.H₂O): -0.3	Time: // 35	Field Tubing blank read	ing (ppm):	Time:
	Shut-in Testing		Start of Pneumatic Testing	: 1136	
Prior to Pneumatic	OK 🔯 @ 113	36	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H₂O)
Prior to Purge	OK 🗵 @ 1419	· · · · · · · · · · · · · · · · · · ·	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	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH₄ (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Shro	beneath ud (%)	Helium in Purge Interval
2009			(11111)	\-/	(=: 141)				(рріпіт)	Min	Max	(%)
10/1	PNEUN	NATIC	, v.a.	<b>41.5</b>		0.0	5.4	12.2	0.0	and the same of th	حتني	
10/,	1420	1425	5	1.0	0,2	0.0	4.7	12.0	0.0	13,0	16.7	0
16/1	148	1430	2	1,0	0,2	0.0	5.0	11.5	6.0	26.7	31.9	0
10/1	14138	1435	5	1.0	0.2	0.0	4.9	11.7	0.0	26.9	29.5	O

Date	Time	Sample ID	Canister ID	Flow Controller#	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
10/01/09	1442	VW-127(20),106169	36544	£ 40671	W29357	28.99	2,2/	Min 18	Max 29

Comments:		

Field Personnel: AS PM

Recorded by: AS



Project Number: 500-016-612
Site Location: HOWEN OH Nested Probe

Well ID VW-127(30)

PID (make/model/serial number): MWI RAE 2000 110-006693

Landtech (model/serial number): 02029

Helium Detector (make/model/serial number): MWD 2002 US3096X

Manometer (make/model/serial number): HEISE

Weather: CLOUDY

Air Temperature (°C/°F): 55°

Atmospheric Pressure (in. Hg):

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

Initial Pressure/Vacuum (ii	n. H₂O): - O.15 Time: /138	Field Tubing blank read	ling (ppm):	Time:	
	Shut-in Testing	Start of Pneumatic Testing: 1/39			
Prior to Pneumatic	ok 🛛 @ //39	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H₂O)	
Prior to Purge	OK D @ 130 -1337 1341	0,5	0.2	-1,89	
Prior to Sample Collection	OK X @ 1342	1.0	0,4	-5.36	
		1.5	0.8	-9-10.19	

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors		beneath ud (%)	Helium in Purge Interval
2009			(111111)	(L)	(LPIVI)				(ppmv)	Min	Max	(%)
10/1	PNEO	MATI		~1.5		0.0	5.1	5.8	2.3		_	
16/1	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
16/1	1355	1400 <del>13</del>	15	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 # Vacuur	Canister ID Flow Controller # Vacuum Gauge # Initial Final Vacuum Vacuum	Vacuum Gauge #	Flow Controller # Vacuum Gauge #	Heli bene Shrou	eath
			7					Min	Max
10/4/09	1708	VW-127(30),10010	31796	F666315	1629357	29.10	3,30	20.5	49,0
•	•	. ,	34603	6706		28.98			

Comments:		Will be a second of the second		State of the state	



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

Date:	10/1/09	PID (make/model/serial number):	MINI RAG 2000 110-008693
Project Name:	HOUVEN VI	Landtech (model/serial number):	02029
Project Number:	500-616-612	Helium Detector (make/model/serial number):	M602002 US3696X
Site Location:	HOUVEN, OH	Manometer (make/model/serial number):	HUSE
Field Personnel:	AS PM	Weather:	CLOUDY
Recorded by:	AS	Air Temperature (°C/°F):	550
		Atmospheric Pressure (in. Hg):	

Surface Type: C	Concrete Asphalt	Grass	Other	
Surface Thickness (inches):	0	Unknown		

Initial Pressure Vacuum (i	n. H <sub>2</sub> O): 40.05 Time: 1142	Field Tubing blank read	ing (ppm):	Time:
	Shut-in Testing	Start of Pneumatic Testing	: 1/43	
Prior to Pneumatic	ok 🗷 @ 1143	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H₂O)
Prior to Purge	OK 😡 @ /225	0,5	0.1	-0.06
Prior to Sample Collection	OK 2 @ /225	1.0	0.7	-0.20
			0.5	-5.20

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH₄ (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Shro	beneath ud (%)	Helium in Purge Interval
2009		1	(,	(-)	(=:)		ļ		(ppiiiv)	Min	Max	(%)
10/1	PNEU	MATI		~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	6.0	7.9	4,5	4.5	40.1	48.5	٥.
10/1	1237	1242	5	1,0	0.2	0.0	6.1	5,2	4.1	45.1	47.5	0
15/)	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	r ID Flow Controller # Vacuum Gauge #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
								Min	Max
10/1/09	300	V10-127 (40),106169	€ 34133	FC00584	1629357	29,10	#4.46	15.6	44.0
141109	1300	KD1,100169	\$34657	FL00841	1029357	29.19	4.49		

Comments:			



Sub-slab Probe Nested Probe Well ID VW - 127 (50) Date: 10/1/04 PID (make/model/serial number): MINI RA6 2000 110-008693 Landtech (model/serial number): \_02029 Project Name: HOOVED VI Project Number: 500-016-012 Helium Detector (make/model/serial number): MUD2007 いろろの96× Manometer (make/model/serial number): 186156 Site Location: HOOVEN, OH Field Personnel: AS PM Recorded by: Air Temperature (°C/°F): 550 Atmospheric Pressure (in. Hg): Surface Type: Concrete Asphalt Other Grass Unknown Surface Thickness (inches):

Initial Pressure/Vacuum (	n. H <sub>2</sub> O): +0.08 Tim	ie: 1145	Field Tubing blank read	ing (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. H₂O)
Prior to Purge	ok 🛛 @ 1/53		0.5	0.1	-0.03
Prior to Sample Collection	OK 図@ 1154		1.0	10.2	-0.21
			1.5	0.	-0.57

Date 2009	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH₄ (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)		beneath ud (%) Max	Helium in Purge Interval (%)
10/1	PNEU	MATIC	,	~1.5	_	0.1	6,1	49	0.0	auconol.		(70)
10/1	1158	1203	5	1.0	0.2	0.0		5.2		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	٥
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	ben	ium eath ıd (%)
		10010	1					Min	Max
10/1/09	1220	VW-127(50), 09	2923 AS	FC00463	1029357	29.23	4.19	24,0	31.2
		•	33413						
-									

Comments:		



Well ID VW - 128 (5) Sub-slab Probe Nested Probe 9/29/09 PID (make/model/serial number): MINI RAE 2000 Project Name: HOOVEN VI Landtech (model/serial number): 02029 Helium Detector (make/model/serial number):  $\mu\mu$  2007  $\mu$  453096  $\star$ Project Number: 500-016-012 Manometer (make/model/serial number): Heise Site Location: HOOVEN, OH Weather: eloudy, It breeze AS, PM Field Personnel: Recorded by: A.S Air Temperature (°C/°F): Atmospheric Pressure (in. Hg): 24,29 Surface Type: Concrete Asphalt Grass Other Surface Thickness (inches): Unknown لـ Initial Pressure Vacuum (in. H<sub>2</sub>O): -0.15 Time: 1559 Start Time of Pneumatic Testing: 1600 Shut-in Testing Elapsed Time (min) Pump Flow Rate (LPM) Well Head Vacuum (in. H2O) Prior to Pneumatic ок 🔀 @ 1600 0.5 -0.24 0.1 Prior to Purge 1.0 -0.47 0.2 **Prior to Sample Collection** ок ┌ @ 0.5 -1.09 1,5 Total Helium beneath Helium in Elapsed Bag Purge Start End Organic Shroud (%) Date Time Volume CH<sub>4</sub> (%) Purge Rate CO2 (%) O2 (%) Time Time Vapors Interval (min) (L) (LPM) (ppmv) 2009 Min Max (%) PNEUMATIC 1.5+ 0.0 9/29/09 ~1.5 0,5 20.0 0,0 1.0 1600 .2 1755 0.0 0.8 20.4 0.0 29,4 O 1.0 1800 5 0.0 10/1 1805 2 0.6 20.0 0.0 25.3 29.9 0 1.0 1805 ,2 10/1 1810 0,0 0.7 20.0 0-0 30.2 0 35.6 Helium beneath Initial Final Date Time Sample ID **Canister ID** Flow Controller # Vacuum Gauge # Shroud (%) Vacuum Vacuum Min Max 10/1/09 1816 VW-128(5),100109 FC00130 4.58 1029357 29.04 29.8 37.1 Comments:



Well ID VW - 126 (10) Sub-slab Probe Nested Probe

							N-12		·		Sub-Slab P	<del></del>		
***	Date:	1120			,	PID (make/mo	odel/seri	al num			2000	110-00	8693	
		HOOVEN				Landtech (mo				2029				
		500-016-		۲		ctor (make/mo				W 2002	<u>_ US</u>	30967	Κ	
		HOOVEN			Manome	eter (make/mo	odel/seri		- 415	usy	<del></del>			
	d Personnel:	AS, PM							other: 👍	budy	بغانها	ut bre	ceza	
Re	ecorded by:	AS				Air T	Temperat		C/°F): <u>6(</u>	00	, 7			
				T-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C-C		Atmosphe	ric Press	ure (in.		29 2 Y				
Surface Typ	·	Concre	ete	Asphalt		Grass		<u> </u>	Other					
Surface Thi	ickness (inch	es):				Unknown				-				
	1,4									<del></del>				
Initial P	ressure 🔼	) Vacuum (in. F		5 Time:	: 1605				tic Testing:	1606		<del>,</del>		
Prior to Pne			:-in Testing			Elap	psed Time	e (min)		mp Flow Rate	e (LPM)	+		m (in. H₂O)
Prior to Pur				1606			0.5			2.1		-0:		
	irge mple Collecti		<b>₩</b>	730			01			2.2		-1.74		
Prior to su.	npie conecu	ou low	<u> </u>	732				5		0.5	-3-	-5.0	) [	
		<u></u>	N. P. V. P.		ligação d	<u></u>		11.4-10-21		Reference to the second				
	<del></del>	<del></del>	T	1	T	<del></del>	<del></del>							
Date	Start Time	End Time	Elapsed Time	Bag Volume	Purge Rate	CH <sub>4</sub> (%)	CO <sub>2</sub> (	(%)	O <sub>2</sub> (%)	Total Organic Vapors		lium benea Shroud (%)	th	Helium in Purge Interval
			(min)	(L)	(LPM)					(ppmv)	Min	М	lax	(%)
9/29/09			1.54	41.5	-		364010			6.0	£.m.			Name of the last o
	74532		4.5	1,0	0.2	0,0	2.8		17.4	0.0	23.5			0
10/1	1957	1942	5	1.0	0.2	0.0	2.9		17.1	0,0	25.2			
(0) 1	13/42	1947	5	1,0	0.2	0,0	2.9	_	17.0	0,0	30.4	34.	2	0
							-							
							<u> </u>				<del>   </del>			
						-								
Date	Time	San	nple ID	Conist	tn	Flow Contr	11-24	Vac	····· Caura	In	itial	Final		n beneath oud (%)
Date	Time	Jani	pie u	Canisto	ar ID	Flow Contro	iller#	Vac	cuum Gauge	e#	I	Vacuum	Min	Max
10/1/09	1752	- W-128(10	0),100109	9343	, F	FC0062		102	9357	28,	91 1	.97	31.3	34, 1
<u> </u>							!	<u> </u>						
<u> </u>							!							
								<u> </u>						<u> </u>
Comment	ίς:													

som talder er in

1730

VW-128(15), 100109

24400



Well ID VW-128(15) Sub-slab Probe Nested Probe 9/20/00 Date: PID (make/model/serial number): MINIRAE 2000 110-008693 Project Name: Woosen VI Landtech (model/serial number): 52029 SOD-616-002 U53696X Helium Detector (make/model/serial number): M4D2052Project Number: Site Location: Hooven, OH Manometer (make/model/serial number): Field Personnel: MS. PM 60° Recorded by: Air Temperature (°C/°F): 29.29 Atmospheric Pressure (in. Hg): Surface Type: Grass Concrete Asphalt Other Surface Thickness (inches): Unknown Initial Pressure Vacuum (in. H₂O): O.O Time: 1614 Start Time of Pneumatic Testing: 1614 **Shut-in Testing** Elapsed Time (min) Pump Flow Rate (LPM) Well Head Vacuum (in. H₂O) Prior to Pneumatic ok ጆ @ 1614 - 1.20 0.1 0.5 Prior to Purge ок ┌ @ - 2.23 1.0 0.2 Prior to Sample Collection ок ┌ @ - 5.14 15 0.5 Total Helium beneath Helium in Elapsed Bag Purge Start End Organic Shroud (%) Purge Date Time Volume CH₄ (%) Rate CO2 (%) O<sub>2</sub> (%) Time Time Vapors Interval (min) (L) (LPM) (ppmv) Min Max (%) 912969 PNEUNIATIC 1.57 -1.5 0.0 19,0 1.3 0,0 10/01/09 1702 1707 5 1.0 0 0.2 19,6 15 28.3 0,0 00 1.2 10/01/09 1707 1712 1.0 0.2 0.0 19.7 22,3 0 0.0 20.6 1,0  $\bigcirc$ 10/01/09/1712 1717 0.6 19.7 22.3 24,6 0.2 0,0 Helium beneath Initial Final Shroud (%) Date Time Sample ID Canister ID Flow Controller # Vacuum Gauge #

			,		
Comments:					
			·	 	
	 	***			

FCOUY23

1029357

Vacuum

28.71

Vacuum

2.73

Min

15.7

Max

29.4



Well ID VW)-128 (20)

	CORPORATION D
Sub-slah Probe	Nested Probe

Date: c\\24\00\	PID (make/model/serial number): MINI RAE 2000 110-008 693
Project Name: 12000615 VI	Landtech (model/serial number): <u>(720</u> 29
Project Number: 500-016-012	Helium Detector (make/model/serial number): MbD2002 U53096メ
Site Location: Howw, oth	Manometer (make/model/serial number): Heise
Field Personnel: 1	Weather: Cloudy, breeze
Recorded by:	Air Temperature (°C/°F): $60^{\circ}$
	Atmospheric Pressure (in. Hg): 29.29

Surface Type:	Concrete Asphalt	Grass Othe	Г	
Surface Thickness (inches):		Unknown		
NOT)				
Initial Pressure \(\sigma_{\text{.}}\)Vacu	um (in. H₂O): O, O   Time:  {	Start Time of Pneumatic T	esting: 42	
	Shut-in Testing	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H <sub>2</sub> O)
Prior to Pneumatic	OK 🖾 @ 1642_	0.5	6.1	-0,24
Prior to Purge	ок 🗀 @	1.0	0.2	= 0,84
Prior to Sample Collection	OK @	1,5	0,5	- 2,44
		Programme Control (Control Control Con		

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume	Purge Rate	CH₄ (%)	CO₂ (%)	O <sub>2</sub> (%)	Total Organic Vapors	1	beneath oud (%)	Helium in Purge Interval
2019			(11161)	(L)	(LPM)				(ppmv)	Min	Max	(%)
4/27	1643	1645	2	2.1	- September	0.0	1.3	19.3	0.0	Caracan and		-po-market
9/30/09	17347	173442	- 5	1.0	0.2	0.0	1.2	19.4	3.9	17.1	36.3	٥،٥
91300	1942	1749	87	1.04	0.2	0,0	1.3	19.3	2.1	16,5	24,7	0,0
9/30/09		1754	5	1.0	0.2	0.0	1.5	17.7	0,3	16.1.	46.0	0,0
÷												grant :
		·										

Date	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial Vacuum	Final Vacuum	Helium beneath Shroud (%)	
						vacuum	vacuum	Min	Max
9/30/0	1803	VW-128(20),043009	34643	FL00080	1029357	29.03	2.42	29.3	46.0
,,		,							

Comments:	 	



Well ID VW - 125 (30)

7	Sub-siab Probe	Nested Probe

Date:	고이 성격 PID (make/model/serial numbe	r): MINIRAE2000 110-008693
Project Name: $\underline{\mathcal{H}_{\mathcal{O}\mathcal{O}}}$	Landtech (model/serial numbe	r): <u>02029</u>
Project Number: 500	9-616-672 Helium Detector (make/model/serial number	n: Map2002 453096X
Site Location: $\mathcal{H}_{\mathcal{O}_{\mathcal{O}}}$	Manometer (make/model/serial numbe	r): idei=le
Field Personnel:	> PM Weath	er: doudy , breeze
Recorded by:	Air Temperature (°C/°	F): _60°
	Atmospheric Pressure (in. H.	g): 2.9, 79

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

Initial Pressure Vacu	um (in. H <sub>2</sub> O): 0, 24 Time: 1648	Start Time of Pneumatic Testing: 649					
	Shut-in Testing	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H₂O)			
Prior to Pneumatic	OK DS @ 1649	0.5	0.1	-0.34			
Prior to Purge	OK 🔀 @ 1637	1.0	0.2	-0.41			
Prior to Sample Collection	OK \$ @ 1639	1.5	0.5	-0,75			

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume	Purge Rate	CH <sub>4</sub> (%) CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors		beneath ud (%)	Helium in Purge Interval	
2009			(,,,,,,,	(L)	(LPM)				(ppmv)	Min	Max	(%)
9/29	1649	1651	2	21	, 201000	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	10	0.2	0.0	7.2	15.9	0.2	30,2	33.2	0
9/30	1654	1659	5	1.0	0.2	6.0	3,4	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
•		•										

·	Sample ID	Canister ID	Flow Controller#	Vacuum Gauge #	Initial	Final Vacuum	Helium beneath Shroud (%)		
					Vacuum		Min	Max	
9/30/09	1709	W-138 (30),093008	36452	FC00085	1029357	29.18	3.85	26.5	30.4

Comments:	·		



Well ID VW-128(40)

)	Sub-slab Probe	Nested Prob	e
_		- بسب	

Date: 129 09	PID (make/model/serial number): MINI RAE 2000 110-008693
Project Name: 400060 V	Landtech (model/serial number): 02029
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): MAD2002 US30964
Site Location: Hoppes OH	Manometer (make/model/serial number):
Field Personnel: A PM	Weather: Gordy breeze
Recorded by:	Air Temperature (°C/°F): $\frac{1}{60^{D}}$
	Atmospheric Pressure (in. Hg): 21, 25

Surface Type:	Concrete	Asphalt	Grass	Other	Salara de la companya del companya de la companya del companya de la companya de	
Surface Thickness (in	ches):		Unknown			

Initial Pressure Vacu	um (in. H <sub>2</sub> O): 0.01 Time: 1653	Start Time of Pneumatic T	esting: 1654	
	Shut-in Testing	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H₂O)
Prior to Pneumatic	ok ⊠ @ 1654	PJY6 0,5	0.1	-0.07
Prior to Purge	ok № @ 1746	1.0	0.2	- 0,23
Prior to Sample Collection	ок 💢 @ 1747	1.5	0,5	-0.60

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO₂ (%)	O <sub>2</sub> (%)	Total Organic Vapors		beneath ud (%)	Helium in Purge Interval
2009			(11111)	(-)	(LITIVI)				(ppmv)	Min	Max	(%)
9/29	1654	1656	2	v1	ryanistick)	0.0	5.2	13.8	0,0			
المتقدريين والمتعادلين والمتعادلين والمتعادلين والمتعادلين والمتعادلين والمتعادلين والمتعادلين والمتعادلين والم	1750	1753	B	0.8		0,0				13.2	301	
9/29	1758	1806	8	0.8	F2000	0,0	2.6	17.0	0.0	20,1	36.0	Ò
9/29	1806	1812	6.	1.2	, 2	0.0	2.8	16.7	0.0	33.3	36,0	6
9/29	1812	1817	5	1.0	,2	0.0	2.9	16.8	0,0	31.6	34.8	0

Date Time	Time	Sample ID	Canister ID	Flow Controller#	Vacuum Gauge #	Initial	Final		beneath ud (%)
		,			Vacuum	Vacuum	Min	Max	
9/29	1831	VW-128(40)	35593	FC00843	1029357	29.00	3,80	31.2	33.5
		VW-128(40),							

Comments:		,					

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Well ID VW - 128 (50)

_	Sub-slab Probe	Nested	Pro
	Jub sidb i lobc	□ IVC3tCu     □	

Date:	9/29/09	PID (make/model/serial number):	MINIRAE 2000 110-008693
Project Name:	HOOVEN VI	Landtech (model/serial number):	02629
Project Number:	500016-612	Helium Detector (make/model/serial number):	Mad2002 U53096X
Site Location:	HOOVEN 6H	Manometer (make/model/serial number):	Heise
Field Personnel:	AS PM	Weather:	Cloudy, breeze
Recorded by:	25	Air Temperature (°C/°F):	_60°
		Atmospheric Pressure (in. Hg):	29,29

Surface Type:	Concrete	Asphalt	Grass	Other	
Surface Thickness (inch	es):		Unknown		

Initial Pressure 🔀 Vacuu	ım (in. H₂O): -0, 28 Time: 1701	Start Time of Pneumatic T	esting: 1702	
	Shut-in Testing	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H₂O)
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)	CH₄ (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors (ppmv)	Helium Shrou Min	beneath ud (%) Max	Helium in Purge Interval (%)
9/29	1702	1704	2	~1,0		6.0	7.5	6.5	0,0	-		(70)
	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		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 . O	21.9	22.6	0.0

Date	Time	Sample ID	Canister ID	Flow Controller#	Vacuum Gauge #	Initial	Final	Helium Shrou	beneath ıd (%)
2009						Vacuum	Vacuum	Min	Max
9/29	1740	VW-128 (50)	34653	6755	1029357	14.0	20-Z	14.0	20,2
.,		092909				29.0	3,37		

Comments:			
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SUIL 1	VAPUR	Krield	FUKIVI	j								E 0	DRPORATEON B	
					We	ell ID VV	7-[]	9 5	ft_		ıb-slab Pr	obe 🖸	Nested P	robe
	Date:	Sept	29/10		<u> </u>	PID (make/mo	del/seri	al number)	· Max	Rap Dor	as siles	-VV-331	\$	
Proi	ject Name:	Hooven	o Her			Landtech (mo								
•	ct Number:	500 -011	5 -017	ı		tor (make/mo								
•	e Location:	Harren ,		·		ter (make/mo				R Scient	-			
		Matt Mitel	<u>0 0 0</u>	100		ter (make/mo	ucij serie	Weather				4300	<u> </u>	
	corded by:	RS	rell Man	Stiamor	67	A ! T				ercast 65	65 (			
Re	corded by:	<u>~&gt;</u>				Atmospher		ure (°C/ਿF) ure (in. Hg)		0.5				
ırface Typ	e:	Concre	te .	Asphalt	· · · · · · · · ·	Grass		(X) Other	•					
urface Thic	ckness (inche	es):			<u> </u>	Unknown								
nitial 🟋 P	roccuro C	Vacuum (in. H	10\1 × 10 0	i Timo	:0944	Ctort Tiv	mo of Dr	ieumatic T	octings	100				
itiai K j P	ressure		n Testing	( Time	<u>.0994</u>		sed Time		<del>~ ~</del>	1006 np Flow Rate (	I DMI)	Well Hea	d Vacuum	lin Ha
rior to Pne	eumatic	······		958			do ilme	= (111111)	Pull	100 Kate (	reivi)		O	, μιι. Π <sub>2</sub> υ
rior to Pur							40							
	nple Collection			116	·····				<u> </u>	<u> </u>		- 0.		
nor to san	iipic colicceli		Ora 1	139	gradia in Africa i		60			500		- O . l	<u>. 8</u>	
****														
					<u> </u>					Total	Haliu	ım beneat	h   I	Helium i
Date	Start	End	Elapsed Time	Bag Volume	Purge Rate	CH <sub>4</sub> (%)	CH <sub>4</sub> (%) CO <sub>2</sub> (		2 (%)	Organic		roud (%)	"   '	Purge
	Time	Time	(min)	(L)	(LPM)				_ ( ,	Vapors (ppmv)	Min	Ma		Interva (%)
P640	1066	1007	Ì	36	preur	12: 00	12 00 J.8 16		o. 1	4.5 \$				O
, , ,	1171	1176	-	10	6,0	0	3.		5.7	0.1	२०.	2 40	1	0
	1196	1131	5		0.9	0	3,	1 1	5.4	0	70.1	100	1.8	$\stackrel{\smile}{\cap}$
	1131	1136	5	16	0.)	0	3.	1 15	5.3	0	100		.7	$\frac{\circ}{\circ}$
	11.21	1130		1.6		-	3.	1 2	) · _)	0	10.3	( (3	-	<u> </u>
					1	<u> </u>		•				'		
Date	Time	Sam	ple ID	Canist	ter ID	Flow Contro	ller#	Vacuur	n Gauge	!# Initi	- 1	Final /acuum	1	benear
, >~	11 4 4 00	31, 11	9/6-	, -		les- *	2.66						Min	Ma
pt 39	1140	nm-ig	1(5)-9	1909 3	54172	FC00	166	Channe			03 .6	1,85	10.7	28.8
Comment	s: ok re	·sidual	frum	prenioc	ns ga	4								
				-		<b>T</b>								



JUIL	VAPUR	Krield	FUKIVI										CORPORATION E	
						′ell IDU∪	179	(0)	Pt.		Sub-slab Pr	robe 🔀	Nested	Probe
	Date:	Sept de	1169			PID (make/mo	del/seri	al numbe	er): Mi	i Pue	g-2000	-110-0	81FF0	***************************************
Pro	ject Name:	Hooven	`( ` `			Landtech (mo								
Proje		500-00	6-012	Не	elium Dete	ctor (make/mo	del/seri	al numbe	er): H G()	9009-	12989	16 X		
	_	Hooven				eter (make/mo								
Field	Personnel:	Next Mitcl	ell, Ryan	Strolumai	en			Weath	ier: 🕠	ercast	-			
	ecorded by:					Air T	emperat	ture (°C/6	B: <u>65</u>					
						Atmosphe	ric Pressi	ure (in. H	lg):					
Surface Ty	pe:	Concre	ete.	Asphalt		Grass		(≥) Oth	ier					
	ickness (inche				F	Unknown		٠٠٠٠ ريي						
	***	<u> </u>				- CHARLOWIT								
Initial	Proceuro C	Vacuum (in. F	(A): -(A) 1	Time:	<b>094</b> 5	-   Start Ti	mo of Dr	oumatic	Testing:	960)				
ııııda (Ç	lessure [		in Testing	0-   mie.	0995		sed Time			np Flow Rate	(1 DM)	Wall Ha	ad Vacuus	n (in. H₂O)
Prior to Pn	eumatic			>10		Eiah	70	e (mm)	Pull	100 Kate	(LPIVI)		) . OS	
Prior to Pu	rge		· .	154			40			006			10	
Prior to Sa	mple Collectio		<u>~</u>	1913			60			500			· \$2	
and the state of	A Laborator			1 3										
						* 1	·		<u> </u>		<del></del>			
	Stort	End	Elapsed	Bag	Purge					Total		um benea	l l	Helium in
Date	Start Time	End Time	Time (min)	Volume (L)	Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (	%)	O <sub>2</sub> (%)	Organic Vapors (ppmv)	Sł	nroud (%)	lax	Purge Interval (%)
Sept da	1014	Du	eumati	c fest	-	10	3.1		16.0	0.7	ني	AND THE PERSON NAMED AND ADDRESS OF THE PERSON NAMED AND ADDRE		<u> </u>
V	1154	120	5	071	Ory	0		•	15.9	0	22.6	7,	2.6	0
	1301	1206	5	071	6.2	0	3,		15.6	0	15.8		P.C	0
	1206	1911	グ	(ST) 1	0.2	0	3.6		15.6	0	9.8		1.9	0
						*****								
		-		1							1		T	
Date	Time	Sam	ple ID	Caniste	er ID	Flow Contro	ller#	Vacu	um Gauge	#	tial uum	Final Vacuum	<b>I</b>	n beneath oud (%)
	100		. 3			<u> </u>							Min	Max
Sapt 79	1214	1 Don 129	(10)-0929	09 356	0(	PCOOL	هد	ej san		198	.99	3,43	15.2	30.3
								-						
Commen	ts:										·········			The state of



SOIL A	APUR	Krield	PUKIVI										CORPORATION E	
					Wel	IID VU	s l'	1 96	261	O s	ub-slab Pı	robe	Nested	Probe
	Date:	Sept d	9 109		DI	D (make/mo	dol/soris	l number)	. н.	i Rae de	500 - 17	o 6033	-170	
Proi	ect Name:	Hooven	101			andtech (mo				dlec soc				
•	t Number:	500-016	- 121A	Но	elium Detecto									
-	-			110		er (make/mo				D 4004,	C(3 4	8 401		
	Dorconnoli	Hoover,	00 y	. Strohnesi		r (make/mc	uei/seria							
			rell, Kyan	. Strohnest	F.	**		Weather		encast				
ке	corded by:	RS						ure (°C/(È)						
	XI.					Atmosphe	ric Pressi	ire (in. Hg)						In the second se
Surface Typ	e:	Concre	te	Asphalt		Grass		X Other					, <del></del>	
Surface Thic	ckness (inche	es):			Kυ	nknown	****		ODV					
luiti-le D		\/	O). A #	70 Times	0.01.1	T ct- + T				15 N.C				
ınıtıaı[X_] Pi	ressure []	Vacuum (in. H	The state of the s	ilme:	0946	<del></del>		eumatic Te		1096	/, pa c)   T			,
Prior to Pne	umatic		n Testing			Elap	sed Time	e (min)	Pun	np Flow Rate	(LPM)			ım (in. H₂O)
Prior to Pur				) <b>§</b>			30			100		0.0		
			<u> </u>	1)3			40			००६		0.1		
FIIOI LU Sail	nple Collection	JII OK	<u> 予 @ \</u>	929			60			500		0,	35	
			Eld	B						Total	Heli	um benea	th	Helium in
Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (	%) O <sub>2</sub>	Vapors		Sł	hroud (%)		Purge Interval
2 021							1	100		(ppmv)	Min M		ах	(%)
Sept 79/04		pren		test	•	0	2.1	1 A	0.8 -			40.9		0
'	1992	13/30	<u> </u>	1	0.9	<u> </u>	Q t		4.c	<u>Q</u>	17.8			0
	1335	1240	<u> </u>	1	0.9	<u>()</u>	3,		8,5	0	13.8		8,2	0
	1240	1245	_5_	l	0.3	<u>O</u>	3.		5.9	Q	19.9		1,8	<u> </u>
	1345	1250	5	1	0.2	0	3,	13	5.9	0	16.6	36	).d	0
					·									
										Init	ial	Final	1	m beneath
Date	Time	Sam	ple ID	Caniste	rID	Flow Contro	ller#	Vacuun	n Gauge	# Vacu		Vacuum		roud (%)
C 150	17	1:15 (5)	. ( ) - \	04	9)					£ 3,	67 6	9.0	Min	
Sept29	1223	1000 19	1 (15)09	709 399	082	FCOOS	75			4.	8 to S	, 1.0	10.8	<u>al.1</u>
													<del>                                     </del>	
													-	
Comment	s:													



SOIL A	VAPOR	FIELD	FURIVI									-	ORPORATION	
						ell ID U	w i	) ૧	) o (	<u> </u>	ub-slab F	robe 🔀	Nested P	robe
Projec	t Number:	Sept d' Hooven 500-016	-019	Н		PID (make/mo Landtech (mo ctor (make/mo	del/seri	al numbe	r): <u>Car</u>	1 lee 50	o E	365/0		
Field	_	Hooven, Natt Mite LS		Shehua		eter (make/mo Air T Atmospher	empera	Weathe ture (°C/ڭ	er: <u>00</u> 9): <u>6</u> 9	evast				
ourface Typ	e: ckness (inche	Concre	te	Asphalt		Grass Unknown		Other     Other	er					
nitial (V) P	ressure ( )	/acuum (in. H	ا م س ال	Time	0947		me of Pr	neumatic <sup>-</sup>	Feeting:	1098				
<u>.</u>	. 303416		n Testing	1 11116.	0(17	<del></del>	sed Time		_	np Flow Rate	(1 PM)	Well Hea	d Vacuum	(in H-∩
Prior to Pne	eumatic	<del></del>		<del>5 (0</del>	760		)o	~ \ <i>)</i>	rull	(OO	(=1 (VI)		TO 6 C	
Prior to Pur	ge		<u>x</u> ) @	1300 1300	- 0 1		10			900		0		. 14
Prior to San	nple Collectio		<u>~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~</u>	1320			60			500		0		.39
5, 4, 4 4 8														
	-			<u> </u>						Total				
Date	Start Time	End Time	Elapsed Time (min)	Bag Volume (L)	Purge Rate (LPM)	CH <sub>4</sub> (%)	CO₂(	%) (	O <sub>2</sub> (%)	Organic Vapors (ppmv)		ium beneath throud (%)		lelium ir Purge Interval (%)
80+9d	1303	1308	malic	test	0.2	0	3.1	<del>`                                    </del>	6.2	0.3	13.5	8 JR	.9	0
	1308	1313	5 5	1	0.9	0	<u>ک</u> . ع.		6.0	0	17.9	9 26 4 17.		0
							,							
Date	Time	Samp	ole ID	Canisto	er ID	Flow Contro	ller#	Vacuu	m Gauge	ı# Initi		Final Vacuum	Shro	beneath ud (%)
Sept 29	1300	VW -139(	JS) 01790	<u>9 365</u>	713-	F(001)	1	éve.		39.	e &	4.15	12,3	Мах 23.
Comment	s:			well as observe										
								······································					100	



JOIL	VALOI	\	I OINIV	ı	W	ell ID	6) لر	9	30f	<u>†</u> □ s	ub-slab Pı		Nested P	Probe
- Committee	Date:	Sept 2	9/09			PID (make/mo								
Proj	ject Name:	Hooven				Landtech (mc							5	
Projec	t Number:	500-016	-019	Н	lelium Detec	ctor (make/mo	del/seri	al number)	): <u>MG</u>	0 3007	nzf8	198X		
		Hooven				eter (make/mo	del/seri	al number)	):					
Field	Personnel:	Maff Mite	hell Ryan	~ Strohu	wier					encast				
Re	corded by:	<u> </u>	···			Air T	emperat	ure (°C/ੴ)	): <u>65</u>					
				Siessing		Atmospher	ic Pressı	ure (in. Hg)	):					***************************************
urface Typ	e:	Concre	ete	Asphalt		Grass		<u>ک</u> Othei	*					
urface Thi	ckness (inch	es):	ner entry.	· 	[7]	Unknown								
nitial 📉 P	ressure 🔲	Vacuum (in. I	H₂O): ↓0 . ₩	∤ Time:	0948	Start Ti	ne of Pn	eumatic T	esting:	(७३ ऽ	<u>.</u>			
			in Testing				sed Time	e (min)	Pun	np Flow Rate	(LPM)		ıd Vacuun	n (in. H₂O
Prior to Pne				033			<u>)</u> 0			100			<u>. 12</u>	
Prior to Pur				<u> 333                                  </u>			<u>40</u>			900			. 20	
rior to San	nple Collecti	on OK	₩ (Z) @ (C	119	y National (1877)	teath a	60			500		0	.53	
					1.000	***								
								*						
	_		Elapsed	Bag	Purge					Total	Heli	um beneat	th I	Helium ii
Date	Start Time	End Time	Time	Volume	Rate	CH <sub>4</sub> (%)	CO <sub>2</sub> (	%) O	2 (%)	Organic Vapors	Sł	nroud (%)		Purge
			(min)	(L)	(LPM)					(ppmv)	Min	М	ах	Interval (%)
P6-79	1035	Dueun	a)ce to	x -	Construction of the Constr	O	3.	2 1	6.1	0.6	4000			0
	1402	(407	5	1	0-7	0	1.6	à 13	1.0	0	33.6	) 4c	1.2	0
	1407	1412	5	1	0.7	0	3.	0 (	0.3	0	10.2	9.	0.0	D
	1412	1417	5	1	0.0	0	3.	2 11	6.1	Ø	17.2	73		0
	1417	1470	3	0.8	0.1	0	3		6.3	0			P	0
								*					Helium	n beneati
Date	Time	Sam	ple ID	Canist	er ID	Flow Contro	ller#	Vacuur	n Gauge	# Init		Final Vacuum	Shro	oud (%)
. 00		12.	C										Min	Max
P6 -199	1420	Jun 1	39 (30) ca	3709 31	6491	FC0069	5	ACCUPATION OF THE PERSON OF TH		199	.01 6	5.46	\w-	۲. 
														+
												·		
Comment	s: No	helium	meter	auaila	ماما						· · · · · · · · · · · · · · · · · · ·	<del> </del>		
	V	- /												



<b>JUIL</b>	VAI OI	\ I I L L L	I OIMAI										CORPORATION	
					Well	ID UU	ડ (કેલ		40 t	<u>}</u> 🗆 s	ub-slab I	Probe 🛛	Neste	d Probe
	Date:	Sept da	/09		PI	) (make/m	odel/ser	ial numbei	r): Miv	i Rae d	500	110~00	7218	
Pro	ject Name:	Hooven	<del></del>			indtech (mo							1100	
·	t Number:	500-01	6-012	ц	elium Detecto						5-10			
	-									fool Oc	U.S.	38 30 X		
		Hooven		m\ .	Manomete	т (таке/тіс	ouer/ser						•	
		Catt Mite	holl, kyan	J. Whence	100			Weathe	, <u> </u>	ercost	<del></del>			
Re	corded by:	K)				Air T	empera	ture (°C/(F	9: <u>6s</u>					
			A:			Atmosphe	ric Press	ure (in. He	g):					
Surface Typ	e:	Concre	ete	Asphalt		] Grass		✓ Othe	er					
Surface Thi	ckness (inche	es):			□ Ur	known								
Initial 🔗 P	ressure 🗀 🕻		120): -0.13	Time:	0951			neumatic 1	Testing:	(૦૩૧				
Deign to D	ati-		in Testing			Elap	sed Tim	e (min)	Pum	p Flow Rate	(LPM)			um (in. H₂O)
Prior to Pne				39			90			100			0.11	
Prior to Pur			<u> </u>	132			40			900		(	1.24	
Prior to San	nple Collectic	on OK	<u> — @</u> іч	150			bo			500		C	).67	
														-
		- Office												
			Elapsed	Bag	Purge					Total	Hel	lium benea	ıth	Helium in
Date	Start Time	End Time	Time	Volume	Rate	CH₄ (%)	CO <sub>2</sub>	(%) C	O <sub>2</sub> (%)	Organic		Shroud (%)	i i	Purge
	inne	Tillle	(min)	(L)	(LPM)					Vapors (ppmv)	Mir	,   ,	lax	Interval (%)
( 27.79	1039	pueu	l Lia		A STATE OF THE PARTY OF THE PAR	$\overline{O}$	3.	2 1	5.3	()			-	0
5-6+99	1432	1437	5	ì	(\(\sigma\)		3,				1	7	, 1	0
					0.7	0			6.3		15.9		1.2	$\frac{1}{2}$
	1487	1447	5		0.7		3		6.2	O	10	0 0	).3	$\underline{\mathcal{O}}$
	1452	1457	5	(	0.1	0	3.	0 1	6,2	0	28,	6 3	6.2	0
		-						-						
	10.11		<u> </u>		·········								******	
														ım beneath
Date	Time	Sam	ple ID	Caniste	er ID F	low Contro	ller#	Vacuui	m Gauge	# Init		Final Vacuum	Sł	roud (%)
	6.7												Mir	
Sept 29/0	1455	nm 134(	40)07290	337	07 1	C 60 4	13	7000		ુવ.	00 =	-4.56	29,.	2/2,4
· · ·		-	-											
Comments	5:													· · · · · · · · · · · · · · · · · · ·
							·							



JOIL		1 I II In 16-7	i Olylai		We		1110	(zank	. ( i		ub-slab Pro	ha D	Nacto	1 Prohe
							<i>y</i> 6) Q	<u> </u>				De (	Nester	
	Date:	Sept )	9/09		1	PID (make/mo	del/serial r	number):	Mi	ni Rae	)८०० ।	(0 - oc	2771	8
Proj		Hooven				Landtech (mo	del/serial r	number):			65/05			
Projec	-	200-011		Н	lelium Detec	tor (make/mo	del/serial r	number):	MG	O 9009	(5) L	<u>XXX</u>		
Site	e Location:	Hooven	40,		Manome	ter (make/mo	del/serial r	number):						
Field	Personnel:	nath Mitch	rell, Lyan	Strahma	ren		١	Weather:	00	ercest				
		RS				Air T	emperatur	e (°C/°F):	65					
						Atmosphe	ric Pressure	(in. Hg):				TO TO TO TO		
Surface Typ		Concre	te	Asphalt		Grass		<b>∂</b> Other						
Surface Thi	ckness (inche	!S):			لکا	Unknown								
Initial 🔀 P	rassura 🗀 '	Vacuum (in. H	-01:=() 13	Time:	200	\   Start Ti	me of Pneu	matic To	cting	16/1/1				
(X)			n Testing	, inne.	095					1046	(LDN4)	Moli !!	al \/	um lin II C
Prior to Pne	eumatic		<u>-</u>	1115-		Егар	sed Time (r )0	11111)	Pum	p Flow Rate	(LPIVI)		Vacu	um (in. H₂O)
Prior to Pur		ОК	, (-	505			40		-	900 100			· 58	
	nple Collection			20			60			500			<del>. 88.</del> .84	
-1.2 11.4	ra degrand	g Vig Ville II.	( <del>)</del>				60						.89	
*					· · · · · · · · · · · · · · · · · · ·									
			Elapsed	Bag	Purge					Total	Heliur	n beneat	h	Helium in
Date	Start Time	End Time	Time (min)	Volume (L)	Rate (LPM)	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub>	(%)	Organic Vapors	Shr	oud (%)		Purge Interval
, \a	1046				-		-> U	115	- 1	(ppmv)	Min	Ma	ax	(%) 
P6 100	1505	1510	enmat	ic feat	0.2	0	3,4	<del> </del>		1,2	, e	-		
129/09			5			0	3.0		8.0	0	16.4	32,	4	0
129/09	1510	1515	2	<u> </u>	0,2	0.	3. 2			£ .	14,2		$\overline{}$	0
124/01	1515	1520		( '	0.2		3.2	16	.0	0	17.9	23.	U	0
								-						
													•	
-														
Date	Time	Sami	ole ID	Canist	er ID	Flow Contro	ller#	Vacuum	Gauge	# Init	I	Final	1	ım beneath ıroud (%)
<del>-</del>		22.11						- 4444111		" Vacu	ium   Va	acuum	Mir	
9/29/19	1525	VW-1291	(50),092909	3648	15	PC 00"	82			29.	0) 5	185	(C) .	e 32,2
	<del></del>	BD-2,0	92909	364	36	PC 00:			Opening to the last of the las		_	:93		
		,												
-						-								
Comments	s:		•••••••	FC	200174	NOT	insed							
					·		-1,00							
										***************************************				



Well ID VW - 130 (5)

Sub-slab Probe	Nested Probe
	W wested Hobe

Mini RAE 2000 110-0086	PID (make/model/serial number):	9/29/09	Date:
02029	Landtech (model/serial number):	HODVES VAPOR 9/09	Project Name:
MGD 2002 453096X	Helium Detector (make/model/serial number):	500-016-012	Project Number:
Heise	Manometer (make/model/serial number):	400164,0H	Site Location:
Cloudy, Slight Breeze	Weather:	AS, PM	Field Personnel:
600 F	Air Temperature (°C/°F):		Recorded by:
29,24	Atmospheric Pressure (in. Hg):		

	Concrete Aspha	It Grass	Other		
Surface Thickness (inches):		Unknown			

-0.10 6951

Initial Pressure 🔀 Vacu	um (in. H <sub>2</sub> O): 6.20: Time: 6945	Start Time of Pneumatic T	esting: 0951	
	Shut-in Testing	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H₂O)
Prior to Pneumatic	OK 2 @ 0949	0,5	0.2	12
Prior to Purge	ок 🖾 <sup>@</sup> 1355	1.0	0.4	-0.25
Prior to Sample Collection	OK 🗓 @ (356	1.5	0.8	-0.55

Date	Start Time	End Time	Elapsed Time	Bag Volume	Purge Rate	CH <sub>4</sub> (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors		beneath ud (%)	Helium in Purge Interval
	·		(min)	(L)	(LPM)				(ppmv)	Min	Max	(%)
9/29/09	PNEUN	1ATIC	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	1703	1408	5.0	1,25	0.25	0.0	2.1	17.7	0.0	12.0	24.7	0.0
9/29/09	1423	1428	5.0	1.25	0.25	0.0	2.0	18.0	0.6	20.5	22.5	0.0

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

Comments:		



Well ID VW - 130 (10)

Sub-slab Probe	Nested Probe

Date: 9/29/09	PID (make/model/serial number):	MINI RAF 110-008693
Project Name: ₩OOVÉN U	Landtech (model/serial number):	02029
Project Number: 500-616-612	Helium Detector (make/model/serial number):	MGD 2062 U53096X
Site Location: [HOOVEN, OH	Manometer (make/model/serial number):	146156
Field Personnel: AS	Weather:	CLOUDY, LT BREEZE
Recorded by: $\Delta \leq$	Air Temperature (°C/°F):	55 °
	Atmospheric Pressure (in. Hg):	24.97

Surface Type:	Concrete	Asphalt	<b>Grass Grass</b>	Other	
Surface Thickness (in	ches):		Unknown		

Initial Pressure 🔀 Vacu	um (in. H₂O): -0,12 Time: 0956	Start Time of Pneumatic Testing: 695%					
	Shut-in Testing	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H₂O)			
Prior to Pneumatic	OK 🗵 @ 0957	0,5	0.1	- 0.07			
Prior to Purge	OK D @ @1354 1320	1.0	0.2	-0.16			
Prior to Sample Collection	OK (X) @(P) 135 1321	1,5	0.5	-0.48			

Date	Start Time	End Time	Elapsed Time	Bag Volume	Purge Rate	CH <sub>4</sub> (%)	CO₂ (%)	O <sub>2</sub> (%)	Total Organic Vapors	rganic Shroud (%)		Helium in Purge Interval	
			(min)	(L)	(LPM)				(ppmv)	Min	Max	(%)	
9/29/09	PNEUM,	RTIC	1.5+	~1.5	_	0.0	5.3	14.1	0.0		and the same		
9/29/09	1325	1330	5	1.0	0.2	0.0	3.9	16.4	0.0	15.6	27.8	0	
9/29/07	1330	1335	5	6.7	0.2	6.0	2.5	16.8	0.0	28.2	33.8	0	
	1335	1340	5	1.0	0.2	0.0	3.0	16.5	0.0	20.1	42.8	0	
, , ,													

Date Time	Time	Sample ID	Canister ID	Flow Controller #	Vacuum Gauge #	Initial	Final Vacuum	Helium beneat Shroud (%)	
						Vacuum	vacuum	Min	Max
Usilo:	1350	VW-130(10),692909	34102	6714	1029357	28,96	3,71	15.1	40

Comments:	



						/ell ID VW	- (30	(15)			Sub-slab I	Probe 🛚 🔀	Nested	Probe
	Date:	9/29/0	1			PID (make/m	odel/seria	ıl number)	: Mu	MLRA6	lio -07	08693	5	
Pro	oject Name:	HOOVEN	VAPOR			Landtech (mo				029				
Proje	ect Number:	500-016	-012	H	lelium Dete	ector (make/mo	odel/seria	ıl number)	: m	1D2002	- 453	0968		
Si	te Location:	HOOVEN.	OH			neter (make/mo				156				
Field	d Personnel:	AS, PW	<u> </u>					Weather		OUDY	II	BR662	6	
R	ecorded by:	AS				Air T	Temperati	ure (°C/°F)	:	50				
				78-1		Atmosphe	ric Pressu	re (in. Hg)	: 29	1.24				· · · · · · · · · · · · · · · · · · ·
Surface Ty	pe:	Concr	ete	Asphalt		Grass		Other	•					
Surface Th	ickness (inch	es):				Unknown								
Initial 🗀 I	Pressure 🔽	Vacuum (in. I	H-0):	7 Times	1001	Start Ti	ime of Pn	eumatic Te	acting	1000				
	r ressure 🔼		in Testing	111110	1001	<del> </del>	sed Time		T	1005 np Flow Rate	/LDM/\	1 Wall Ha	ad Vacuu	ım (in. H <sub>2</sub> O)
Prior to Pn	eumatic			04			0,5°	(mm)	Pull	O, /	(LPIVI)	<del> </del>	O.OS	
Prior to Pu	ırge	ОК	<u>~ //</u>	9 1			; o	L.		0.2			2,11	
Prior to Sa	mple Collect	ion OK	<u> </u>				,5			0,5			,37	
			N. E. 18 (1971)							0,0				
	-											7.7		
	Start	End	Elapsed	Bag	Purge					Total Organic		lium benea		Helium in Purge
Date	Time	Time	Time (min)	Volume (L)	Rate (LPM)	CH₄ (%)	CO₂ (%	%)   O <sub>2</sub>	2 (%)	Vapors (ppmv)	Mir	Shroud (%)	/lax	Interval (%)
9/29/09	PNEU	MATIC	1.54	7.5	-	0.0	5.3	/3	.8	0.0	estants.			
9/19/09	1300	1305	5	1.0	0.2	0.0	4.9	14.	0	0.0	18.9	1 3/	.2	0
9129/09	1305	13/0	5	1,0	0.2	0.0	4.8	14.	6	0.0	25,6		0.0	0
9/29/09	1310	1315	5	1.0	0.2	0.0	4.8	14.	4	0.0	30.0	) . <u>2</u> 2	ジフ	0
							-							
				T									Holin	m beneath
Date	Time	Sam	ple ID	Canist	er ID	Flow Contro	oller#	Vacuun	1 Gauge	# Init		Final Vacuum		roud (%)
7/29/09	1321	VW-130(15	),092909	31757	7	FC0025	4	·wood	optic P	29.0	20 2	2.93	34	38
						\$								
	1	<u> </u>		<u> </u>						<u> </u>				ı
Commen	ts:													

Date: 9/29/09 Project Name: HOOVEN VAPOR Project Number: 500 - 016 - 012 Site Location: HOOVEN, OH

Field Personnel: As , PW Recorded by:



Air Temperature (°C/°F):  $\zeta\zeta^{\circ}$ Atmospheric Pressure (in. Hg): 29.24

Surface Type: Concrete	Asphalt	√ <b>⊠</b> Grass	Other	
Surface Thickness (inches):		Unknown		

Initial Pressure Vacu	um (in. H₂O): -0.17 Time: 1007	Start Time of Pneumatic Testing: 1009						
	Shut-in Testing	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H₂O)				
Prior to Pneumatic	OK XI @ 1008	0,5	0.2	-0.13				
Prior to Purge	OK Ø @ /2 <del>25</del> 35	1.0	0.4	-0,33				
Prior to Sample Collection	OK ☑ @ /235	1.5	0.8	-0.71				

Date	Start Time	End Time	Elapsed Time	Bag Volume	Purge Rate	CH₄ (%)	CO <sub>2</sub> (%)	O <sub>2</sub> (%)	Total Organic Vapors	Helium beneath Shroud (%)		Helium in Purge Interval	
		·	(min)	(L)	(LPM)				(ppmv)	Min	Max	(%)	
9/29/09	PNEW	MATIC	+1.5	~1.5		0.0	4.9	14.2	0.0	est.			
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	0.7	0.0	2.6	16,1	0.0	18	25	0	
1/29/09	1246	1251	5	1.0	0.2	0.0	2.5	16.1	0.0	26	37	٥	
Ĺ													

Date	Time Sample ID Canister ID Flow Controller # Vacuum Gauge #	Initial Vacuum	Final	Helium beneath Shroud (%)					
						vacuum	Vacuum	Min	Max
9/24/09	1259	WW-BU(20),092909	34650	FL00844	Negotian(PDF)	29.02	4.12	35	37
				,					

Comments:			



Well ID Www. (30 Sub-slab Probe Nested Probe

Date: 9 29 09	PID (make/model/serial number): WIN RAE 110-008693
Project Name: HOUVEN VI	Landtech (model/serial number): かつこん
Project Number: <u>500-016-012</u>	Helium Detector (make/model/serial number): MUD 2002 US3096 K
Site Location: HOOVEN, OH	Manometer (make/model/serial number): 16156
Field Personnel: AS, PM	Weather: CLOUDY LT BREEZE
Recorded by: AS	Air Temperature (°C/°F):
	Atmospheric Pressure (in. Hg): 29, 24

100					
Surface Type:	Concrete	Asphalt	Grass	Other	
Surface Thickness (i	nches):		Unknown		

Initial Pressure 🔀 Vacu	um (in. H₂O): - 0.15 Time: 1012_	Start Time of Pneumatic Testing:				
	Shut-in Testing	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H₂O)		
Prior to Pneumatic	ok Ø @ /0/3	0.5	0.2	-0,23		
Prior to Purge	OK 🔀 @ 1156	1.0	0,4	-0,58		
Prior to Sample Collection	OK Ø @ 1/57	1.5	0.8	-1.22		

Date	Start Time	End Time	Elapsed Time (min)	Bag Volume	Purge Rate C (LPM)	Volume Rate	CH₄ (%)	CH <sub>4</sub> (%) CO <sub>2</sub> (%) O <sub>2</sub> (%) Organic Vapors Shroud (%)	Organic Vapors (ppmv)	Organic Shroud (%)		Helium in Purge Interval
			()	\-/	(2.1141)					Min	Max	(%)
9/29/09	PNEUM	ATIC	1.5+	~1.5		0.0	2.7	14.2	0,0	-54-	-	1000
9/29/09	1159	1206	7	1.4	0.2	6.0	2.0	15.5	0.0	18	33	0
9/29/69	1206	1211	5	1,0	6.2	6.0	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	O

Date	Time	Sample ID	Canister ID	)   Flow Controller #   Vacuum Gauge #	Initial	Final		beneath ud (%)	
			e.			Vacuum	Vacuum	Min	Max
9/29/09	1233	VW-RO(30),09296	<sup>11</sup> 35616	FC00608		28.97	59.8	25	32_
L									

Comments:	





Well ID VW - (30 (40) ☐ Sub-slab Probe ☑ Nested Probe

Date: <u> </u>	PID (make/model/serial number): MINI RAE 110-0086	13
Project Name: <u>Hoove</u> ル VI	Landtech (model/serial number): LANDTEL 02029	
Project Number: 500-016-017	Helium Detector (make/model/serial number): MUD 2002 US 3096X	
Site Location: HOOVES, OH	Manometer (make/model/serial number): HEISE	
Field Personnel: AS, PM	Weather: CLOUDY, LT BREEZE	
Recorded by:	Air Temperature (°C/°F): $SSO$	
	Atmospheric Pressure (in. Hg): 29.24	

Surrace Type:	Concrete	Aspnait	<u></u>	U Other	
Surface Thickness (in	iches):		Unknown		

Initial Pressure Vacuu	um (in. H₂O): -0.32 Time: /0/7	Start Time of Pneumatic Testing:				
	Shut-in Testing	Elapsed Time (min)	Pump Flow Rate (LPM)	Well Head Vacuum (in. H₂O)		
Prior to Pneumatic	OK 2 @ \$1016 1020	0,5	0,2	-0,38		
Prior to Purge	ok ☑ @ 1046	1.0	0.4	-0.68		
Prior to Sample Collection	ок <u></u> @	1.5	0.8	-1.26		

Date	Start Time	End Elapsed Time	Time Volume	Purge Rate	CH₄ (%)	CO₂ (%)	O <sub>2</sub> (%)	Total Organic Vapors	Helium beneath Shroud (%)		Helium in Purge Interval	
			(min)	(L)	(LPM)				(ppmv)	Min	Max	(%)
9/29/09	PNEUN	1ATIC	1.5+	~1.5	Jane .	6.0	3.3	14.2	1.4	43 <sup>9</sup> 70		
9/29/09	1055	110 3	8	1.6	0.2	3,0	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	1/26	1131	5	1.0	0.2	0.0	1.9	16.8	0.0	30	33	O
	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	Final		beneath ud (%)
						Vacuum	Vacuum	Min	Max
9/29/09	1156	VW 130(40),092909	35605	FC00925	, -	28.97	6.20	26	33
9/29/09	1156	BD1,692909	35603	FC00695	_	28.98	6.18		
,,,				NOT USED					

Comments:			



JUIL	VAPUR	\ FIELD	FUKIVI										ORPORATION	
						ell ID $\sqrt{y}$	-132	(50	)		ub-slab l	Probe 💟	Nested	Probe
	Date:	9/29/09				PID (make/mo	del/seri	al number	):					
Project Name: HOOVER W				Landtech (model/serial number):										
Project Number: 500 - 016 - 012				Helium Detector (make/model/serial number):										
Site Location: HOOVEN, OH				Manometer (make/model/serial number):						· · · · · · · · · · · · · · · · · · ·				
Field Personnel: AS, PM										al Andi	2 / ACT	1//114	70.	11-21
				Air Temperature (°C/°F):						55°F	CASI	1 61411	DKE	<u>t</u> L Ł
Recorded by:AS				Atmospheric Pressure (in. Hg):										
				······································		Autiosphei	ic Press	ure (m. ng	):	29.2	.4	***************************************	dishela wasan a sa	
Surface Typ	oe:	Concre	ete	Asphalt		<b>⊠</b> Grass	-	Othe	r				- Circulanti con	
Surface Thi	ckness (inche	es):				Unknown								
Initial P	ressure 🔀		120):-1,99	Time:	1020			neumatic T		0		T		
Shut-in Testing				7.1		Elapsed Time (min)			Pump Flow Rate (LPM)			Well Head Vacuum (in. H₂O)		
Prior to Pneumatic OK D @ //				24		0.5			0.2			136-142.2		
Prior to Pur		OK	<u> </u>			, 6						MAX OUT AT A		
Prior to Sample Collection OK @												NO AIR MOVEMENT		
						27 Å:								
				_						Total	ll-	U b		Helium
Date	Start	End	Elapsed Time	Bag Volume	Purge Rate (LPM)	CH₄ (%)	S) CO <sub>2</sub> (%) O <sub>2</sub>		2 (%)	Organic	i	lium benea: Shroud (%)	LII	Purge
	Time	Time	(min)	(L)		,(,			2 (70)	Vapors (ppmv)	Vapors			Interval
										(ppiliv)	Mir	1 . IVI	ax	(%)
											•	<u>.</u>	•	
Date	Time	Sample ID		Canister ID F		Flow Contra	Flow Controller # Vacuum		n Gares	" Init	ial	Final	Helium beneath Shroud (%)	
Pate	I IIIIE					TIOW CORRIO			Vacuu		um	Vacuum	Min	
		NO SA	MARE											
			· · · · · · · · · · · · · · · · · · ·	A				1						
Comment	:s:													
													· · · · · ·	