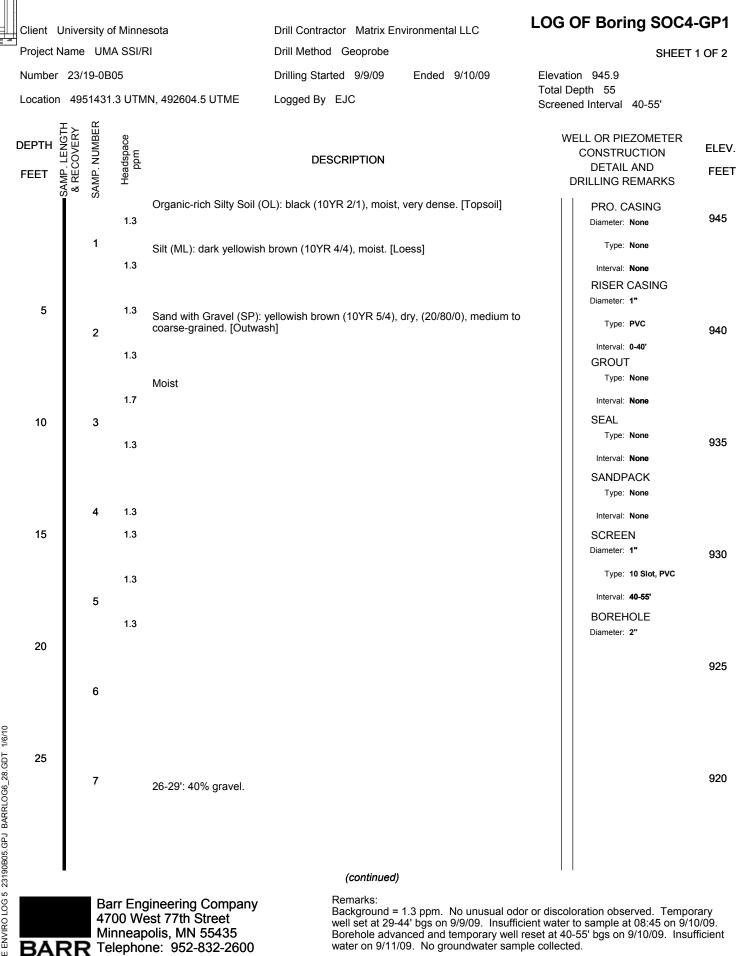
Appendix B

Boring Logs, Test Trench Logs, Sealing Records, Spatial Data Reporting Form, and Groundwater Sampling Forms

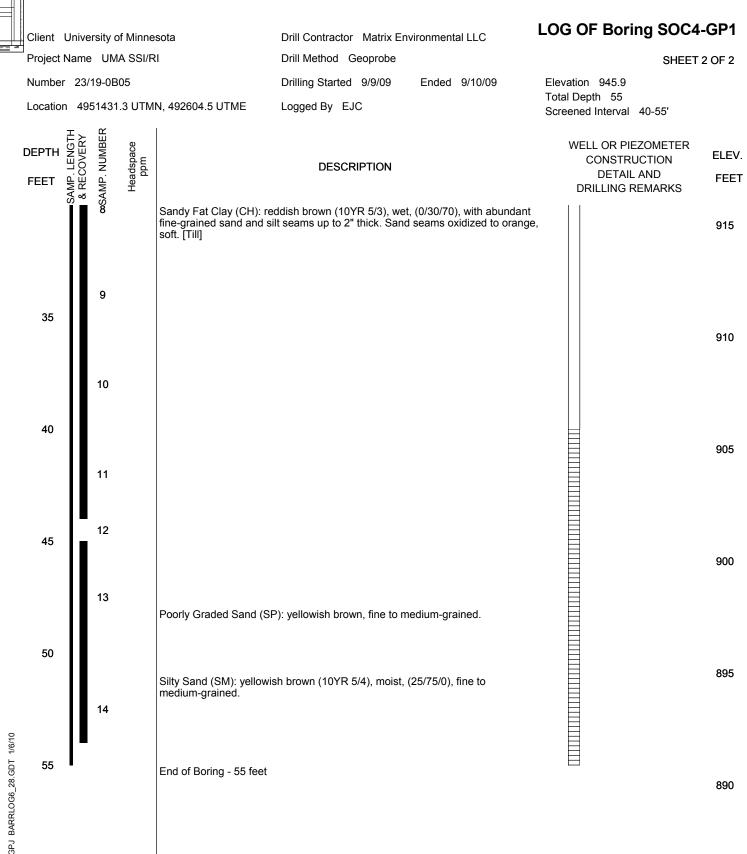


SIMPLE ENVIRO LOG 5 23190B05.GPJ BARRLOG6_28.GDT 1/6/10

Telephone: 952-832-2600 Fax: 952-832-2601

water on 9/11/09. No groundwater sample collected.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log.



SIMPLE ENVIRO LOG 5 23190B05.GPJ BARRLOG6_28.GDT 1/6/10

Barr Engineering Company 4700 West 77th Street Minneapolis, MN 55435 BARR Telephone: 952-832-2600 Fax: 952-832-2601

Remarks:

Background = 1.3 ppm. No unusual odor or discoloration observed. Temporary well set at 29-44' bgs on 9/9/09. Insufficient water to sample at 08:45 on 9/10/09. Borehole advanced and temporary well reset at 40-55' bgs on 9/10/09. Insufficient water on 9/11/09. No groundwater sample collected.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log.

<u> </u>					
Client	Univer	sity of	Minne	sota Drill Contractor Matrix Environmental LLC LOG OF	Boring SOC4-GP2
Project	Name	UMA	SSI/R	I Drill Method Geoprobe	SHEET 1 OF 1
Number	23/1	9-0B0	5	Drilling Started 9/11/09 Ended 9/11/09 Elevation 9	42.4
	_		3 UTMI	N, 492567.8 UTME Logged By EJC Total Depth Screened Int	
DEPTH FEET	SAMP. LENGTH & RECOVERY	SAMP. NUMBER	Headspace ppm	DESCRIPTION	ELEV. FEET
			2.4	Silty Soil (OL): very dark grayish brown (10YR 2/2/), moist, gravel at 1' bgs. [Topsoil]	
		1	2.1	Silt (ML): dark yellowish brown (10YR 4/4), moist. [Loess]	
		1	1.7		940
				Sand (SP): yellowish brown (10YR 5/4), moist, (10/90/0), medium-grained. [Outwash] 3.5-5': 50% gravel.	
5			1.7		
		2		6-11': Coarse-grained.	
			1.3		935
			1.3		
10		3			
			1.3		
					930
			1.3		000
		4			
15			1.3		
			0.9		925
		5			
			1.3		
20	I			End of Boring - 20 feet	

Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601

Remarks: Background = 2.1 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log. UMP018302

920

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Clien	t L	Jniver	sity of	f Minne	sota	Drill Contractor	Matrix Envi	ronmental LLC	LOG OF Boring	SOC4-GP3
Proje	ct 🖡	lame	UMA	A SSI/R	I	Drill Method Ge	eoprobe			SHEET 1 OF 1
Num	ber	23/1	9-0B0)5		Drilling Started	9/11/09	Ended 9/11/09	Elevation 942.8	
	tiōn	495	1067.	3 UTM	N, 492497.5 UTME	Logged By EJC			Total Depth 20 Screened Interval NA	
DEPT	H	OVERY	SAMP. NUMBER	space			550			ELEV.
FEE		& RECOVERY	AMP. N	Headspace ppm			DES	CRIPTION		FEET
	,		0)		Organic-rich Silty Soil (O	L): very dark brow	/n (10YR 2/2	2), moist, gravel at 0.5'. [Topsoil]	
			1	0.9	Silt (ML): dark yellowish I	brown (10YR 4/4)	, moist. [Loe	ess]		
				0.9	Sand (SP): yellowish bro	wn (10YR 5/4), m	oist, (10/90/	/0).		940
ŧ	5			0.9						
			2	0.9	Two inches of silty sand	at 6' bgs.				
				0.9						935
1()		3							
				0.3						
				0.3						930
	_		4	• •	Gravel at 14' bgs.					
15)			0.9						
			5	0.3						925
			Ŭ	0.3						
20)				End of Boring - 20 feet					

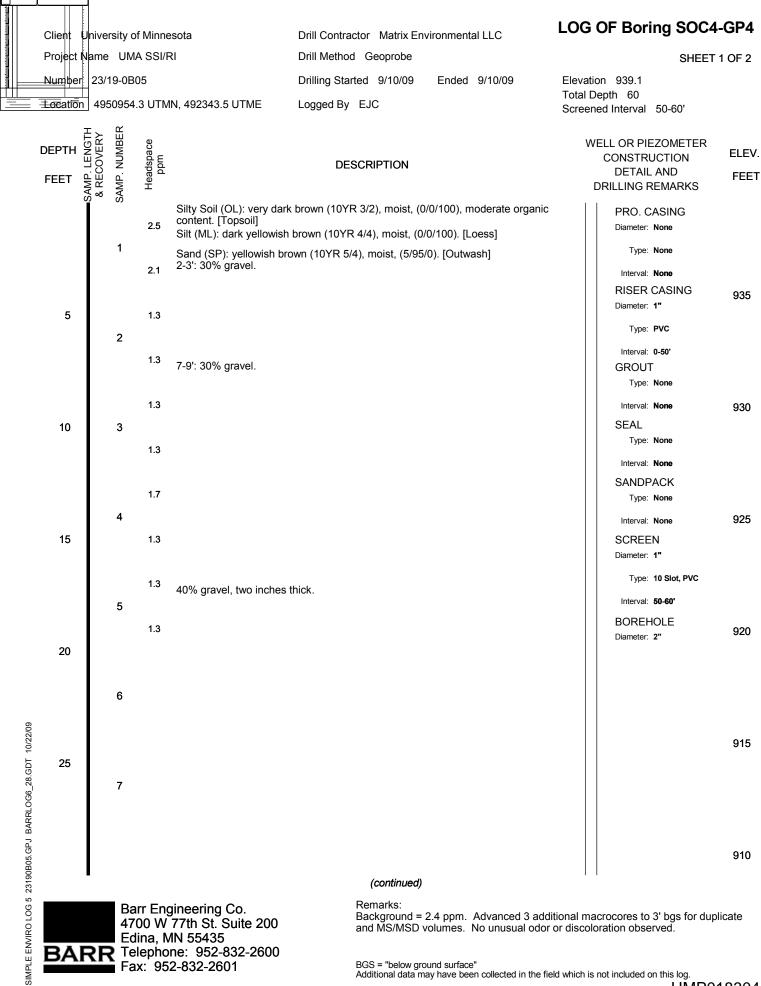
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Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 0.9 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log. UMP018303

915

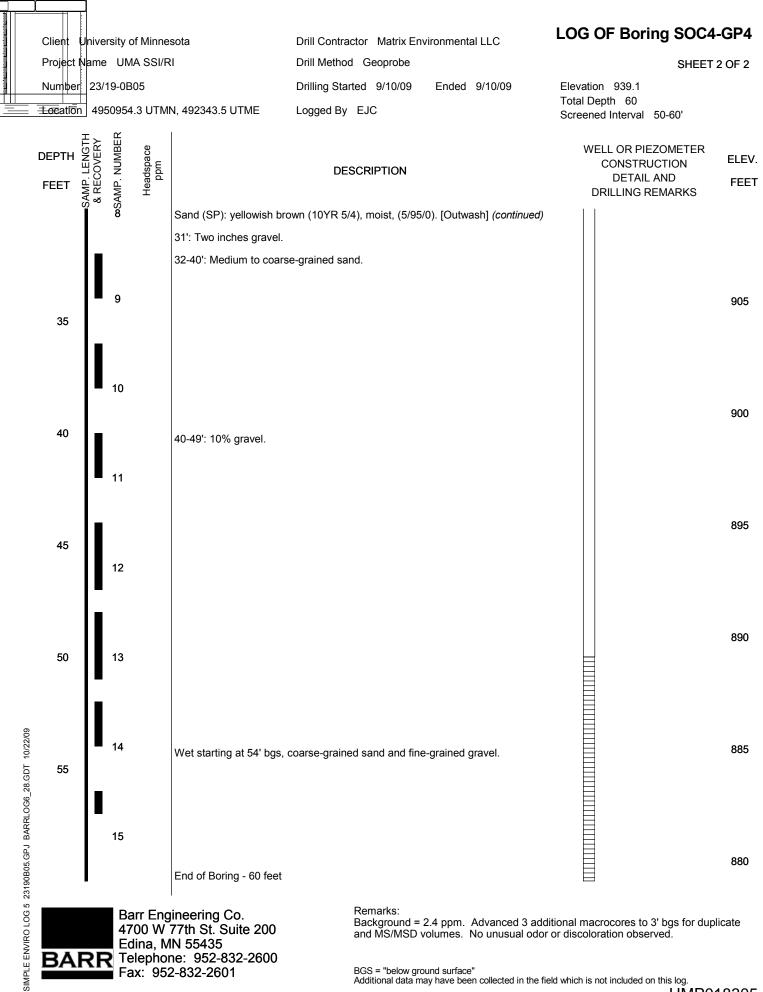


BARI

Telephone: 952-832-2600 Fax: 952-832-2601

BGS = "below ground surface"

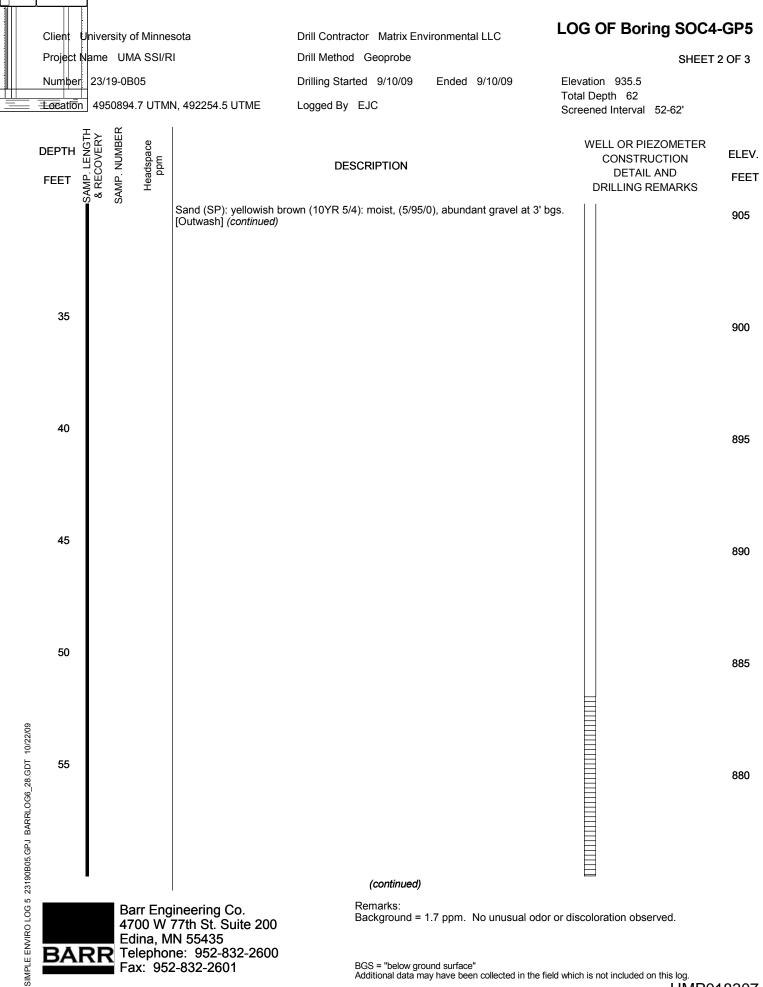
Additional data may have been collected in the field which is not included on this log.



Telephone: 952-832-2600 Fax: 952-832-2601

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log.

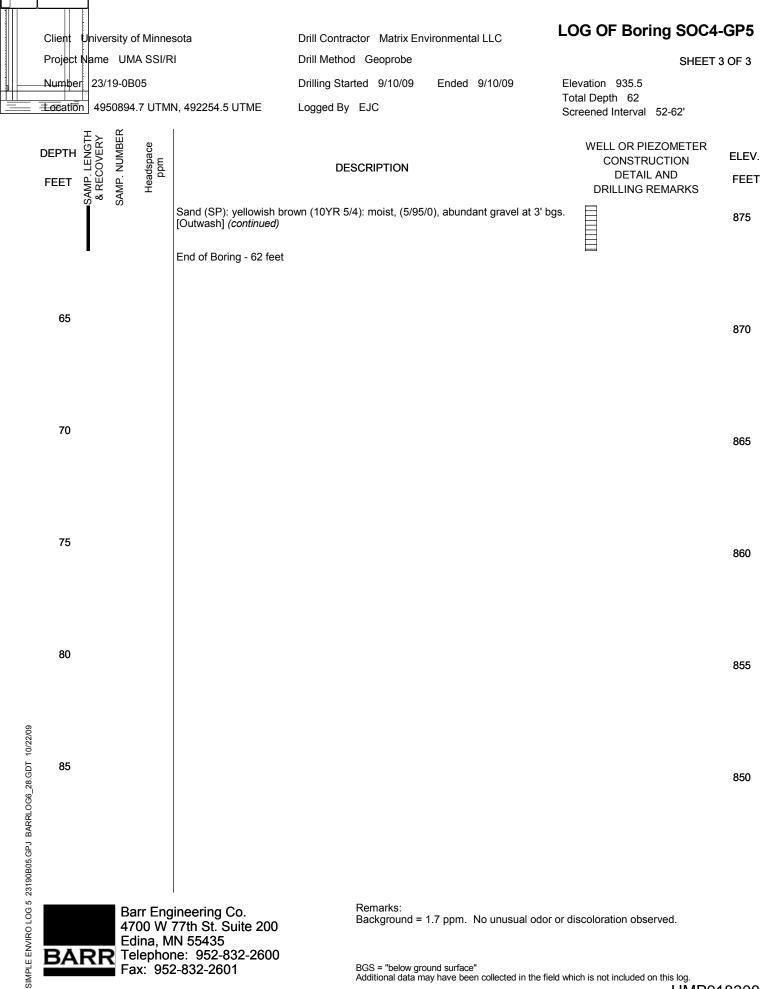
Client U Project N				Drill Contractor Matrix Environmental LLC LOG OF Boring SOC	4-GP5
Number	23/19-0B 4950894	05	N, 492254.5 UTME	Drilling Started 9/10/09 Ended 9/10/09 Elevation 935.5 Logged By EJC Total Depth 62 Screened Interval 52-62'	
DEPTH A	& RECOVERY SAMP. NUMBER	Headspace ppm		WELL OR PIEZOMETER CONSTRUCTION DETAIL AND DRILLING REMARKS	ELEV. FEET
	1	2.1 1.3	(0/20/80). [Topsoil]	ith Sand (OL): very dark grayish brown (10YR 3/2), moist, PRO. CASING Diameter: None Type: None own (10YR 5/4): moist, (5/95/0), abundant gravel at 3' bgs. Interval: None RISER CASING	935
5	2	1.7 1.7	8-10': Coarse-grained.	Diameter: 1" Type: PVC Interval: 0-52' GROUT Type: None	930
10	3	1.7 1.3 1.3	12-14': 20% gravel and	cobbles.	925
15	4	1.3 1.7		Interval: None SCREEN Diameter: 1" Type: 10 Slot, PVC	920
20	5	1.3	-	Interval: 52-62' BOREHOLE Diameter: Diameter: 2"	915
ARRLOG6_28.GDT 10/22/09					910
SIMPLE ENVIRO LOG 5 23190805.GPJ BARRLOG6_28.GDT 10/22/09	47 Ed	'00 W lina, M	jineering Co. 77th St. Suite 200 IN 55435	<i>(continued)</i> Remarks: Background = 1.7 ppm. No unusual odor or discoloration observed.	
	R Te	lepho	ne: 952-832-2600 2-832-2601	BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log.	018306

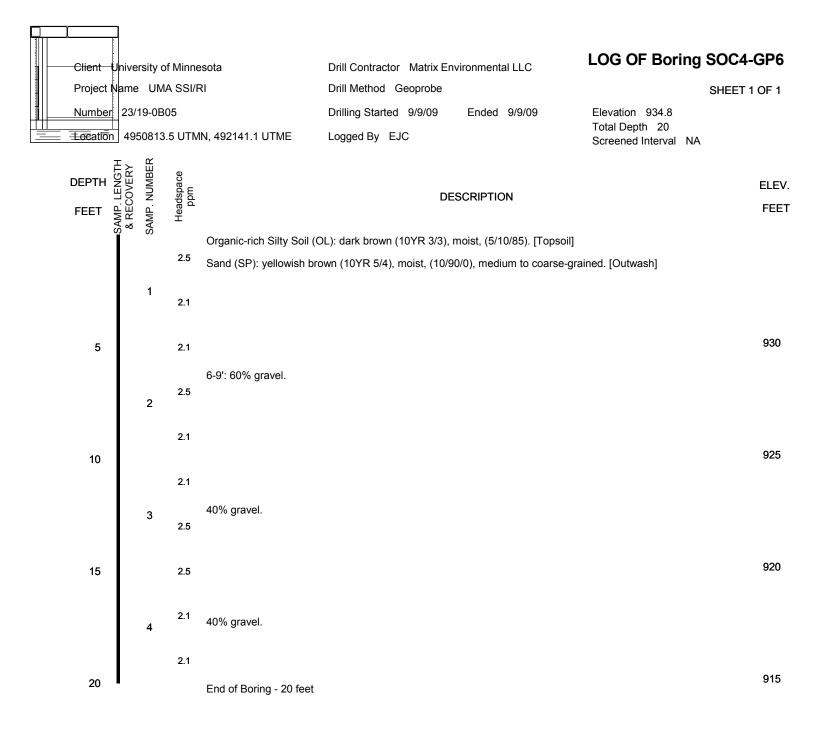


Fax: 952-832-2601

BGS = "below ground surface"

Additional data may have been collected in the field which is not included on this log.







4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601

Remarks: Background = 2.5 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log.

UMP018309

910

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	Client (Jniversi	ity of Mi	inne:	sota	Drill Contractor	Matrix Env	ironmental	LLC	LOG OF Borin	ng SOC4-0	GP7
	Project I	lame	UMA S	SI/R	I	Drill Method	eoprobe				SHEET 1	OF 1
	Number	23/19	-0B05			Drilling Started	9/10/09	Ended 9	/10/09	Elevation 941.4		
Ξ	<u>toc</u> ation	49509	994.8 U	IMTU	N, 492259.2 UTME	Logged By EJ	С			Total Depth 20 Screened Interval	NA	
	DEPTH	SAMP. LENGTH & RECOVERY SAMD NI IMBED	NUMBER dspace	mdd			DES	CRIPTION				ELEV.
	FEET	SAMP. & REC	Hea	-								FEET
		ŭ v ŭ		.5	Silty Soil (OL): dark yello	owish brown (10Y	'R 3/4), mois	st, low orgar	nic content. [To	psoil]		940
			1 1.	.3	Sand (SP): yellowish bro	own (10YR 5/4), r	noist, (5/95/0	0), medium-	grained. [Outw	/ash]		940
	5		1.	.7								
		2	1. 2	.3	6.5-7': 20% gravel.							935
	10		1.	.3								
			2	.1	11-12': 40% gravel.							930
		3	3 1.	.3	14 16 ¹ 20 ⁰ / group							
	15		1.	.3	14-16': 30% gravel.							
		4	1. 4	.3								925
	20		1.	.3	End of Boring - 20 feet							
					Lind of Borning - 20 leet							920

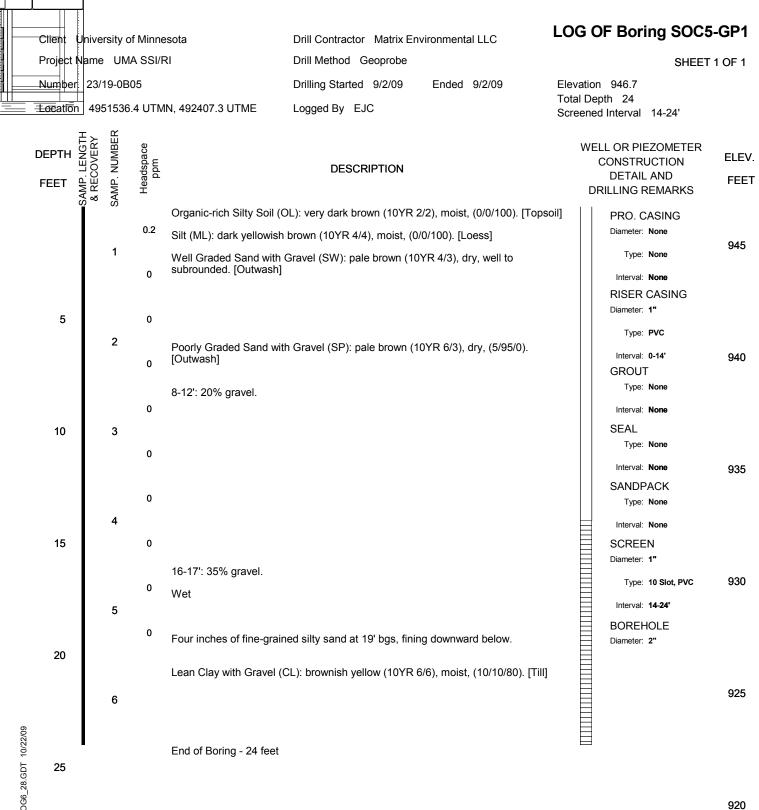
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Remarks: Background = 1.7 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log. UMP018310



Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 0.2 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log.

Client University of Minnesota	Drill Contractor Matrix Environmental LLC	LOG OF Boring SOC5-GP2
Project Name UMA SSI/RI Number 23/19-0B05	Drill Method Geoprobe Drilling Started 9/2/09 Ended 9/2/09	SHEET 1 OF 2 Elevation 947.1
<u>±ocation</u> 4951468.4 UTMN, 492408.8 U	-	Total Depth 46 Screened Interval 26-46'
H > H		
SAMP: LENGTH & RECOVERY SAMP. NUMBER Headspace	DESCRIPTION	WELL OR PIEZOMETER CONSTRUCTION ELEV DETAIL AND FEET DRILLING REMARKS
	Silty Soil (OL): very dark brown (10YR 2/2), moist, (0/0/100)). [Topsoil] PRO. CASING Diameter: None
1 Silt (ML): ye	lowish brown (10YR 5/6), moist, (0/0/100). [Loess]	Type: None 945
0		Interval: None RISER CASING Diameter: 1"
5 0 2 Cabbles are		Type: PVC
Cobbles and 0	gravel at 6' bgs. Dry below 6'.	Interval: 0-26' GROUT 940
Well Gradeo ₀ [Outwash]	Sand with Gravel (SW): yellowish brown (10YR 5/4), moist	(30/70/0). Type: None Interval: None
10 3		SEAL Type: None
0 Poorly Grad 0.6 Cobble at 12	ed Sand (SP): pale brown (10YR 6/3), moist, (5/95/0), ned, coarsening downward. [Outwash] ' bos	Interval: None 935 SANDPACK Type: None
4 15 0		Interval: None SCREEN
		Diameter: 1"
0		Type: 10 Slot, PVC 930 Interval: 26-46'
5 ^{0.3} Cobbles at 1	9' bgs.	BOREHOLE Diameter: 2"
20		
0		
6 0		925
25 1		
0 [Lacustrine] Lean Clay w	SM): yellowish brown (10YR 5/4), moist, (0/90/10), fine-graine ith Sand (CL): yellowish brown (10YR 5/4), moist, (2/15/83), ed sand. [Till]	
0		
I	(continued)	

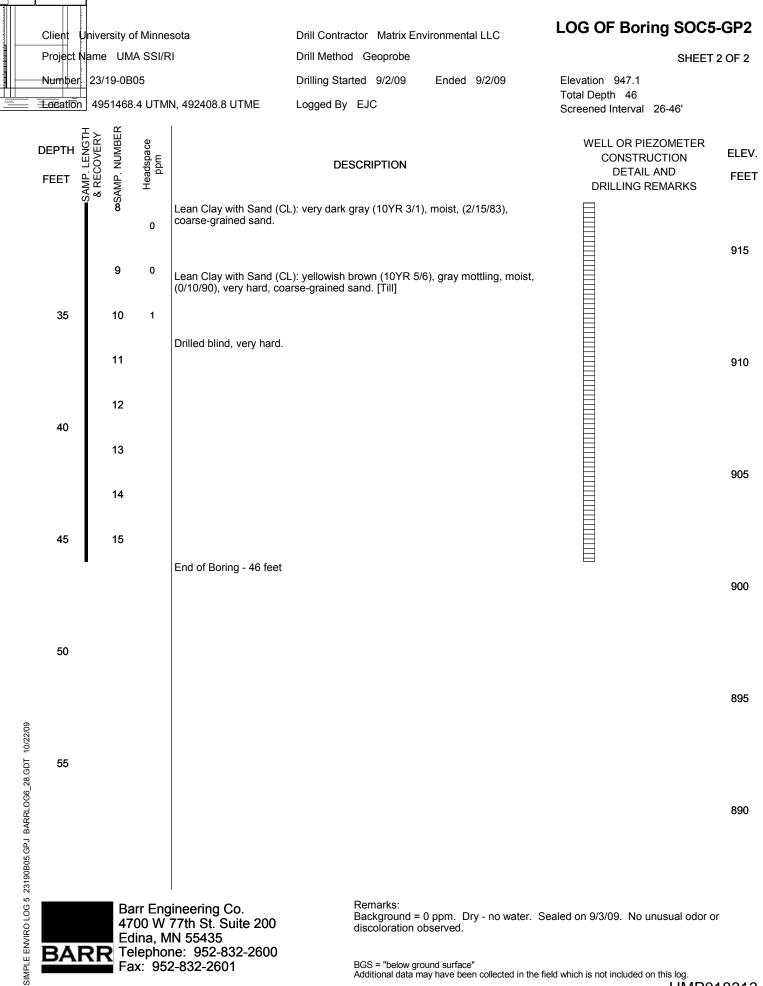
SIMPLE ENVIRO

 BARR
 MN 55435

 BARR
 Telephone:
 952-832-2600

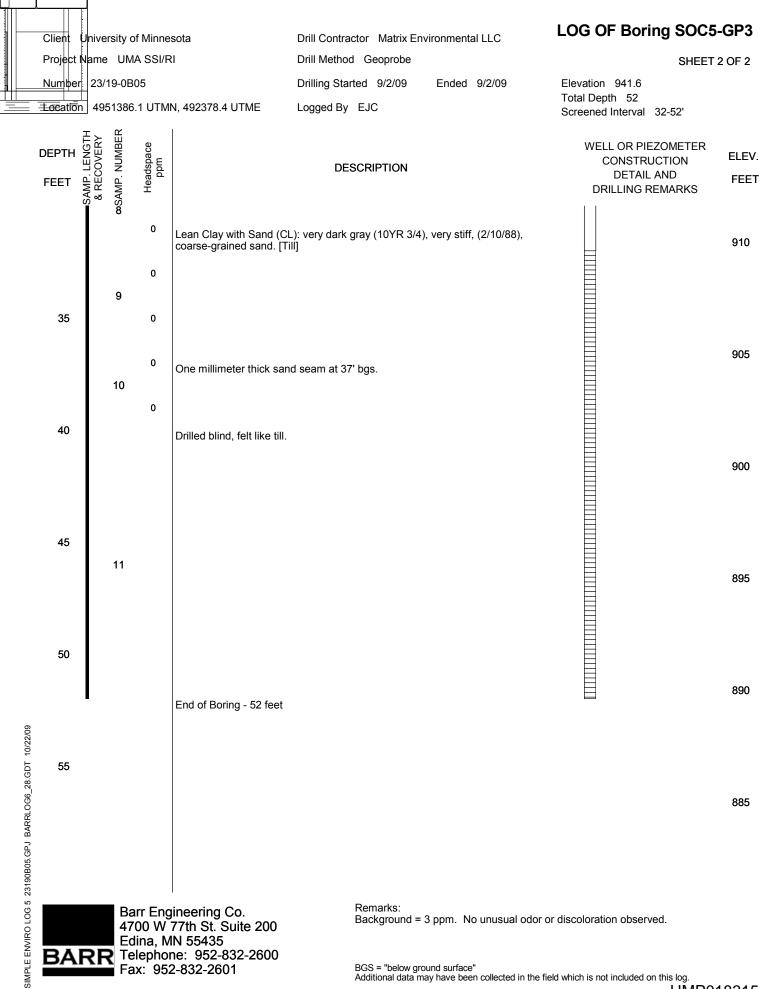
 Fax:
 952-832-2601

discoloration observed.

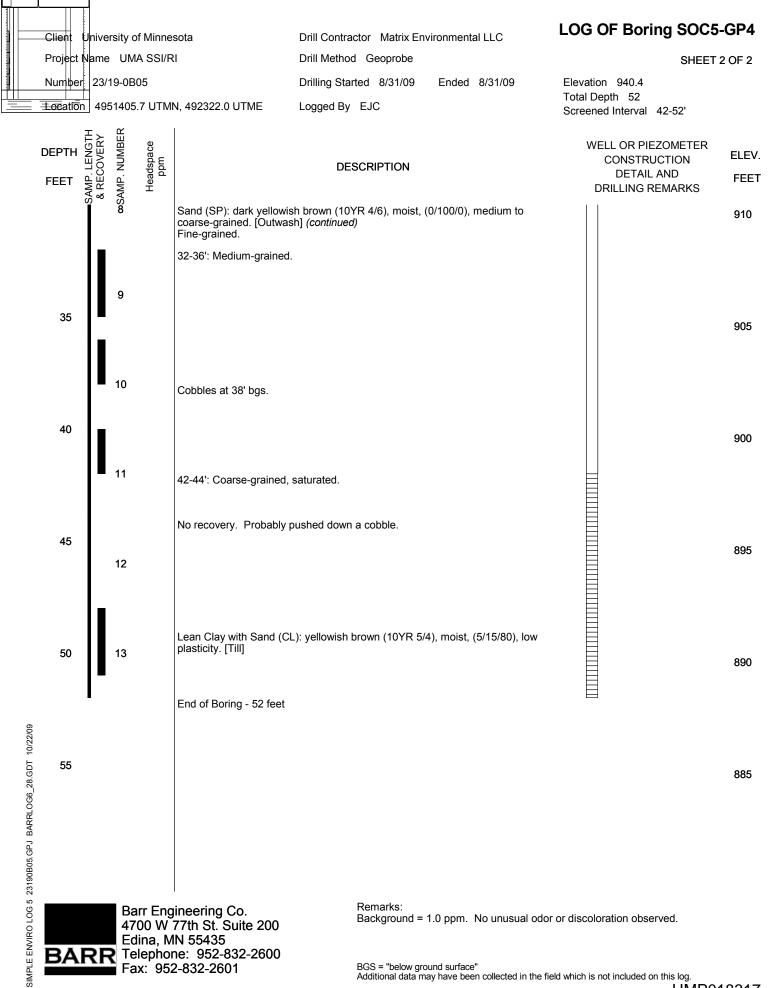


Project I		sity o UM/			Drill Method Geopro	ix Environmental LLC be		SHEET	1 OF 2	
Number	23/1	9-0B()5		Drilling Started 9/2/0	9 Ended 9/2/09		tion 941.6		
<u>toc</u> ation	495	1386.	1 UTM	N, 492378.4 UTME	Logged By EJC			otal Depth 52 Screened Interval 32-52'		
	SAMP. LENGTH & RECOVERY	SAMP. NUMBER	Headspace ppm		DESCRIPTIO	Ν	٧	WELL OR PIEZOMETER CONSTRUCTION DETAIL AND DRILLING REMARKS	ELEV. FEET	
		1	0.8		(OL): very dark brown (10 1): very dark grayish browr Fill]			PRO. CASING Diameter: None Type: None	940	
5			0	(20/80/0). [Outwash] Poorly Graded Sand w	th Gravel (SW): dark yello with Gravel (SP): yellowish coarse-grained. [Outwash	ı brown (10YR 5/4), moi		Interval: None RISER CASING Diameter: 1" Type: PVC		
		2	0	8-11': Coarse-grained,	l, moist.			Interval: 0-32' GROUT Type: None Interval: None	935	
10		3	0					SEAL Type: None Interval: None	930	
15		4	0	14-16': Medium-graine	ed.			SANDPACK Type: None Interval: None SCREEN Diameter: 1"		
20		5	0 0	17-18': Cobbles.				Type: 10 Slot, PVC Interval: 32-52" BOREHOLE Diameter: 2"	925	
20 80		6	0 0.3						920	
10/22/09 5 23190805.6PJ BARRLOG6_28.GDT 10/22/09		7	0	24-31': 35% gravel, m	redium to coarse-grained s	sand.			915	
90B05.GPJ BA			0		(contin					

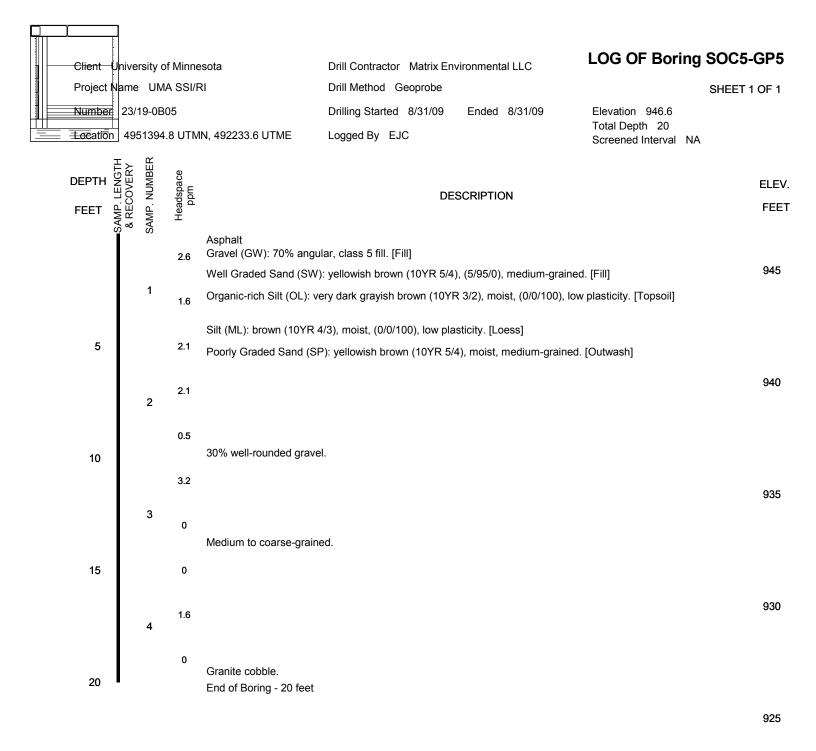
4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601



Client U Project N Number	ame UM 23/19-0B	A SSI/R 05		Drill Contractor Matrix Environmental LLC LOG OF Boring SOCS Drill Method Geoprobe SHEET Drilling Started 8/31/09 Ended 8/31/09 Logged By EJC Screened Interval 42-52'	5-GP4 1 OF 2
	0 -	Headspace ppm	Organic-rich Silty Soil (content with depth. [Top	DESCRIPTION WELL OR PIEZOMETER CONSTRUCTION DETAIL AND DRILLING REMARKS OL): black (10YR 2/2), moist, (0/0/100), decreasing organic psoil] PRO. CASING Diameter: None	ELEV. FEET 940
5	1 2	1.6 1.6 1.0	below. [Loess]	Type: None Interval: None RISER CASING Diameter: 1" Type: PVC Interval: 0-42' GROUT	935
10	3	1.0 0.5 1.0	Sand (SP): dark yellowi coarse-grained. [Outwa	ish brown (10YR 4/6), moist, (0/100/0), medium to Interval: None SEAL Type: None Interval: None Interval: None SANDPACK Type: None	930
15	4 5	1.0 1.0 1.0	16-18': 10% gravel, moi	Type: 10 Slot, PVC Interval: 42-52' BOREHOLE	925
20 60/22/01	6		23-24': 30% sub to well-	-rounded gravel.	920
SIMPLE ENVIRO LOG 5 23190B06.GPJ BARRLOG6_28.GDT 10/22/09	7		27-31': 20% sub to well-	-rounded gravel.	915
SIMPLE ENVIRO LOG 5 231906	47 Ed	00 W lina, M	ineering Co. 77th St. Suite 200 IN 55435 ne: 952-832-2600 2-832-2601	(continued) Remarks: Background = 1.0 ppm. No unusual odor or discoloration observed. BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log. UMPO	18316



Additional data may have been collected in the field which is not included on this log.



Barr Eng 4700 W Edina, M Telepho Fax: 95

Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 1.6 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log.

UMP018318

Client Project Number	Name 23/1	UMA 19-0BC	A SSI/R)5	Drill M Drilling	ethod G	Matrix Env seoprobe 7/31/09 C		al LLC 7/31/09	LOG OF Boring SOC5 SHEET Elevation 947.2 Total Depth 20 Screened Interval NA	
	 SAMP. LENGTH & RECOVERY 	SAMP. NUMBER	Headspace ppm	Asphalt		DES	CRIPTIC	DN		ELEV. FEET
		1	2.1 0.5	Gravel with Sand (GW): very pal Sand with Gravel (SW): yellowis Organic-rich Silt (OL): very dark gravel. [Topsoil] Silt (ML): dark yellowish brown (h brown (grayish b 10YR 3/4	(10YR 5/4), i prown (10YR), moist, (0/0	moist, (20 3/2), mo)/100), lov	0/80/0), subround ist, (5/0/95), low w plasticity. [Loe	plasticity, with trace well-rounded	945
5			0	Poorly Graded Sand (SP): dark to the second se			R 5/4), Da	arely moist, (0/10	00/0), medium-grained. [Outwash]	
		2	0							940
10			0	9-10': 20% gravel, granite and b	asalt.					
			1	Granite cobble at 11' bgs.						935
		3	0							900
15			1							
		4	2	16': 30% sub to well-rounded gra	vel.					930
20			1	50% subangular to subrounded s	granitic g	ravel, trace o	oxidation	mottling.		
										925

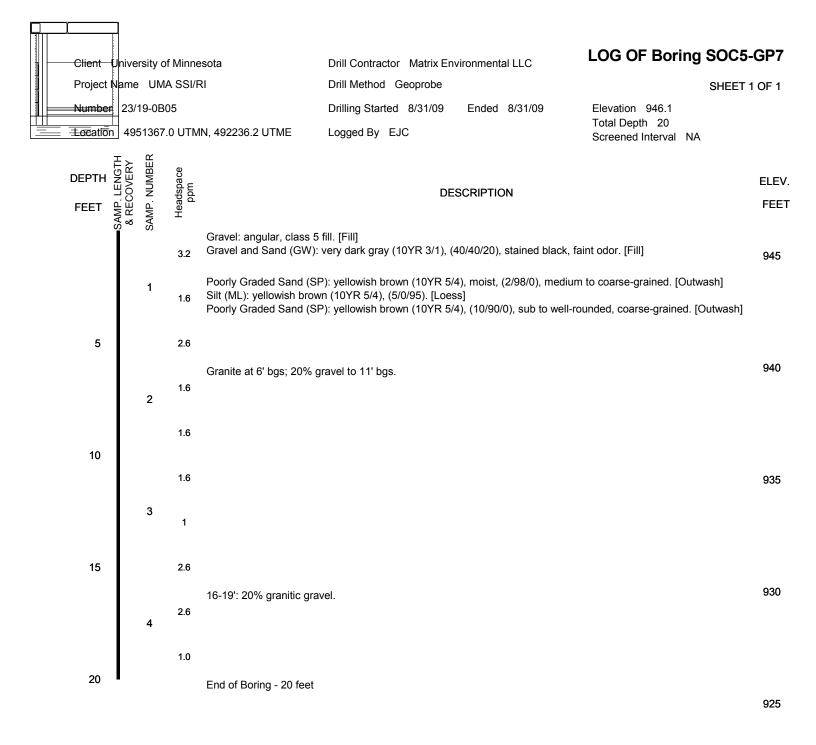
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Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 BARR Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 1.6 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log. UMP018319

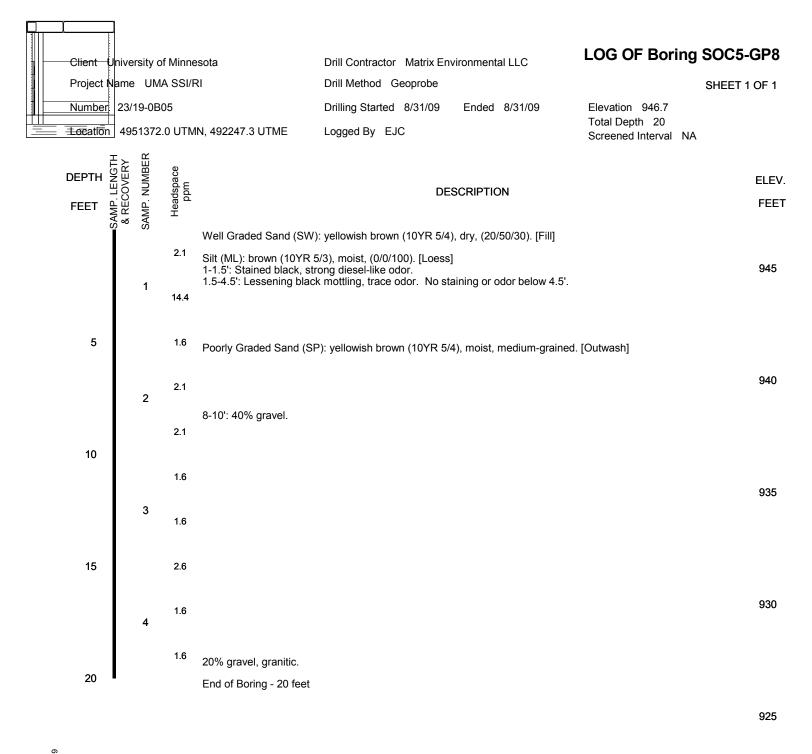




Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 1.0 ppm

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log.

UMP018320



BA

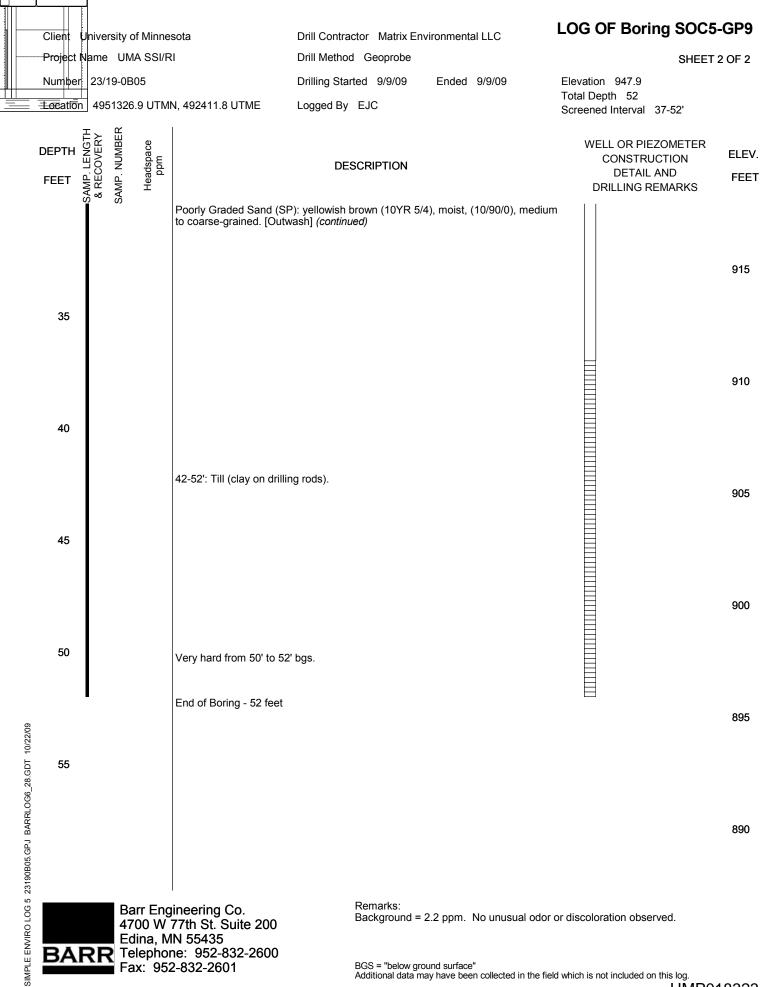
Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601

Remarks: Background = 1.6 ppm

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log.

UMP018321

Client U Project N Number	ame UN 23/19-0E	1A SSI/R 805		Drill Contractor Matrix Environmental LLC LOG OF Boring SOC Drill Method Geoprobe SHEI Drilling Started 9/9/09 Ended 9/9/09 Logged By EJC Elevation 947.9 Total Depth 52 Screened Interval 37-52'	C5-GP9 ET 1 OF 2
	18 Z	Headspace ppm	Organic-rich Silty Soil (0	DESCRIPTION DESCRIPTION DESCRIPTION DETAIL AND DRILLING REMARKS DL): black (10YR 2/1), moist, roots. [Topsoil] UDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDDD	R ELEV. FEET
5	1	2.5 1.7 1.7		brown (10YR 4/4), moist. [Loess] Diameter: None Interval: None Interval: None RISER CASING Diameter: Vone	945
	2	1.7 1.7		Type: PVC Interval: 0-37' GROUT Type: None Interval: None	940
10	3	1.3 1.3	Less than one inch pale	osol (?) at 12' bgs. 40% gravel.	935
15	4	1.7 1.3		SCREEN Diameter: 1" Type: 10 Slot, PVC Interval: 37-52'	930
20		1.3	Blind drilled from 20' to	52' bgs.	925
23190B06.GPJ BARRLOG6_28.GDT 10/22/09					020
23190B05.GPJ BARF				(continued)	920
VIRO LOG 5	47 Ec RR Te	700 W dina, M elephoi	jineering Co. 77th St. Suite 200 IN 55435 ne: 952-832-2600 2-832-2601	Remarks: Background = 2.2 ppm. No unusual odor or discoloration observed. BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log.	2018322



Fax: 952-832-2601

BGS = "below ground surface"

Additional data may have been collected in the field which is not included on this log.

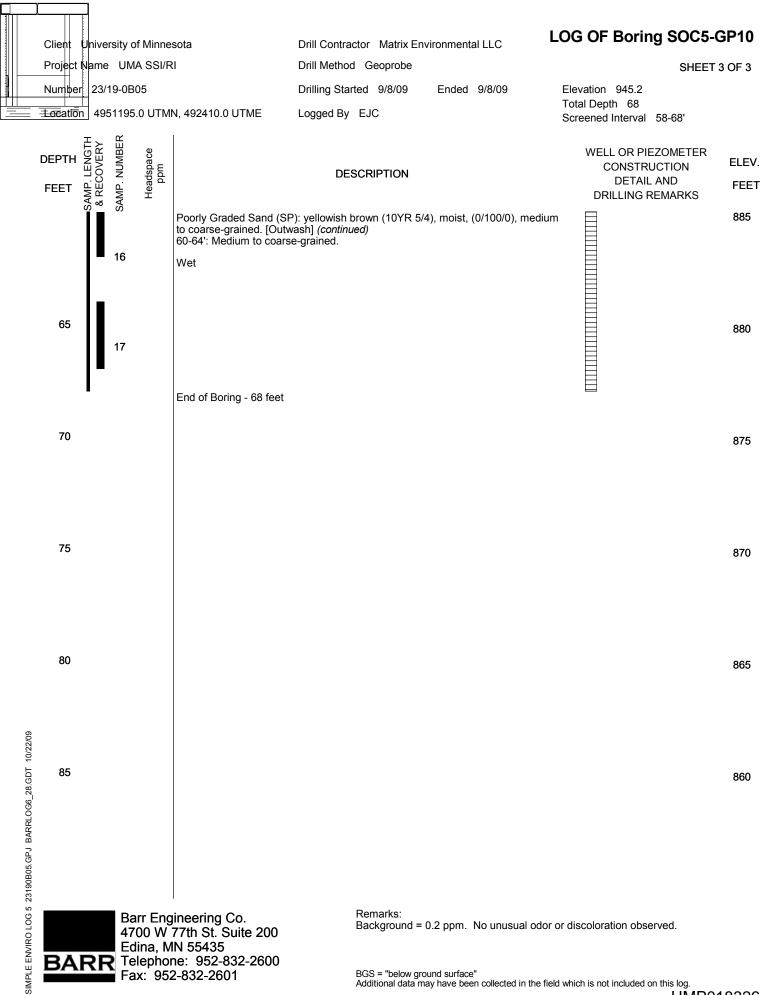
Client Client	University	y of Minne	esota	Drill Contractor Matrix Environmental LLC LOG OF Boring SOC	5-GP10
Project	Name U	IMA SSI/F	રા	Drill Method Geoprobe SHE	ET 1 OF 3
Number	23/19-0)B05		Drilling Started 9/8/09 Ended 9/8/09 Elevation 945.2	
	1 49511	95.0 UTM	N, 492410.0 UTME	Logged By EJC Total Depth 68 Screened Interval 58-68	
DEPTH	ENGTH DVERY JUMBER	ace		WELL OR PIEZOMETER	R ELEV.
	SAMP. LENGTH & RECOVERY SAMP. NUMBER	Headspace		DESCRIPTION CONSTRUCTION DETAIL AND DRILLING REMARKS	FEET
	0 0	0.2	Organic-rich Silty Soil (OL): black (10YR 2/1), moist, roots. [Topsoil] PRO. CASING Diameter: None	945
	1	0.2	Silt (ML): dark yellowisl graded sand (SW) ove	b brown (10YR 4/4), moist, cobbles at 2', grading to well Type: None Interval: None Interval: None	
5		0	Well Graded Sand with (5/85/10). [Outwash]	Silt (SW-SM): dark yellowish brown (10YR 4/4), moist, RISER CASING Diameter: 1"	940
	2		Six inches of sandy silt	at 6' bos.	340
		0	Two inches of sandy si 7.5-8': Dry.	Interval: 0-58'	
		0	Poorly Graded Sand (S to coarse-grained. [Out	P): yellowish brown (10YR 5/4), moist, (0/100/0), medium wash] Interval: None	
10	3			SEAL Type: None	935
		0		Interval: None SANDPACK	
		0		Type: None	
45	4	0		Interval: None	
15		0		SCREEN Diameter: 1"	930
		0		Type: 10 Slot, PVC	
	5			Interval: 58-68'	
		0		BOREHOLE Diameter: 2"	
20		0	Six inch zones of coars	e-grained sand with up to 30% gravel spaced 1' to 4' apart.	925
	6				
1/22/09		0			
23190B05.GPJ BARRLOG6_28.GDT 10/22/09		0			920
RLOG6_2	7	0			
5.GPJ BA		0			
190B0;					
				(continued)	
	4	1700 W Edina, N	gineering Co. 77th St. Suite 200 IN 55435	Remarks: Background = 0.2 ppm. No unusual odor or discoloration observed.	
	RR	Telepho	ne: 952-832-2600	BGS = "helow around surface"	

SIMPLE E

Fax: 952-832-2601

	University of Name UN			SHEET 2	2 OF 3
Number	23/19-0E	305	Drilling Started 9/8/09 Ended 9/8/09	Elevation 945.2	
<u> </u>	4951195	5.0 UTMI		Total Depth 68 Screened Interval 58-68'	
	H L H				
DEPTH	DVER	pace		WELL OR PIEZOMETER CONSTRUCTION	ELEV.
	-8 2	Headspace ppm	DESCRIPTION	DETAIL AND DRILLING REMARKS	FEET
	SAMP. & REC & SAMP.	<u> </u>	Poorly Graded Sand (SP): yellowish brown (10YR 5/4), moist, (0/100/0), medium		915
	_	0	to coarse-grained. [Outwash] (continued)		
			32-34': Coarse-grained sand with 40% gravel.		
		0			
	9				
35		0			910
		0			
	10				
		0			
40					905
		0			
	11				
		0	43-44': Cobbles and gravel with reddish oxidation staining.		
45		0	44-54': 30% gravel.		900
	12				900
50	13				895
Ø					
0/22/0	14		Cobbles.		
LG9 55					890
G6_28			Cobbles.		
ARRLO					
GPJ B	15				
90B05.					
5 2311			(continued)		
E ENVIRO LOG 5 23190805.GPJ BARRLOG6_28.GDT 10/22/09	47 Ed	700 W dina, M	Remarks: Background = 0.2 ppm. No unusual odor of 77th St. Suite 200 826,832,2600 10 952-832-2600	r discoloration observed.	

Fax: 952-832-2601 2600



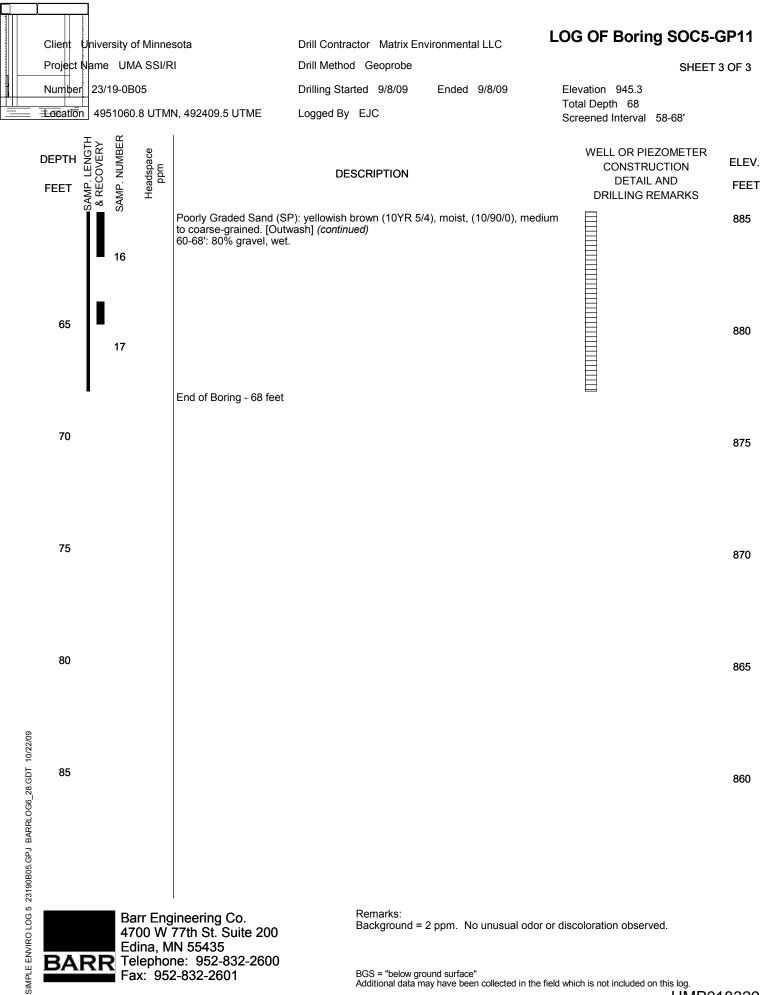
#		/ of Minne MA SSI/F		Drill Contractor Matrix Drill Method Geoprobe		LOG O	F Boring SOC5-	GP11
N	23/19-0		u .	Drilling Started 9/8/09	Ended 9/8/09	Elevatio	n 945.3	I OF 3
	È.		N, 492409.5 UTME	Logged By EJC		Total De		
DEPTH FEET	SAMP. LENGTH & RECOVERY SAMP. NUMBER	Headspace ppm		DESCRIPTION			ELL OR PIEZOMETER CONSTRUCTION DETAIL AND RILLING REMARKS	ELEV. FEET
	1	2.0	Organic-rich Silty Soil	(OL): black (10YR 2/1), moi	ist, (0/0/100). [Topsoil]		PRO. CASING Diameter: None Type: None	945
		1.4	Silt (ML): dark yellowis	sh brown (10YR 4/4), moist,	(0/0/100). [Loess]		Interval: None RISER CASING	
5	2	1.4	Poorly Graded Sand (to coarse-grained. [Ou	SP): yellowish brown (10YR ıtwash]	5/4), moist, (10/90/0), m	edium	Diameter: 1" Type: PVC Interval: 0-58'	940
		1.4					GROUT Type: None	
10	3	1.4	10-22': No gravel.				Interval: None SEAL Type: None	935
		2					Interval: None SANDPACK Type: None	
15	4	2					Interval: None SCREEN Diameter: 1"	930
	5	2					Type: 10 Slot, PVC	
20	5	1.4					BOREHOLE Diameter: 2"	005
	6	1.4						925
. 10/22/09		1.4						
25 - 28.GDT	7	2						920
5.GPJ BARRI		1.4						
3190B0:	I			(continue	d)			
ENVIRO LOG 5 23190805.GPJ BARRLOG6_28.GDT 10/2209	4	700 W	gineering Co. 77th St. Suite 200 IN 55435	Remarks:	I = 2 ppm. No unusual o	dor or discolora	tion observed.	

BARR Telephone: 952-832-2600 Fax: 952-832-2601

Client University of Minnesota					LO	G OF Boring SOC5-	GP11
Project I	Name	UMA	SSI/R	Drill Method Geoprobe		SHEET	2 OF 3
Number	23/19	9-0B0	5	Drilling Started 9/8/09 Ended 9/8/09		evation 945.3 otal Depth 68	
<u>toc</u> ation	4951	1060.8		I, 492409.5 UTME Logged By EJC		creened Interval 58-68'	
SAMP. LENGTH & RECOVERY HEadspace Ppm Bpm Bpm Bpm Bpm Bpm Bpm Bpm B			Headspace ppm	DESCRIPTION		WELL OR PIEZOMETER CONSTRUCTION DETAIL AND DRILLING REMARKS	ELEV. FEET
	S S S	8 8	1.4	Poorly Graded Sand (SP): yellowish brown (10YR 5/4), moist, (10/90/0), med to coarse-grained. [Outwash] <i>(continued)</i>	lium		915
		9	1.4	32-38': 20% gravel.			
35		9	1.4				910
		10	1.4				
40	1	11	1.4	40-46': 40% gravel.			905
45			1.4 1.4				900
		12					
50		13		50-58': Greater than 50% gravel.			895
ENVIRO LOG 5 23190805.GPJ BARRLOG6_28.GDT 10/22/09		14		Two inches of dark yellowish brown lean clay.			890
J BARRLOG6_		15		Two inches of dark yellowish brown lean clay.			
05.GP	1						
23190E	1			(continued)			
		470	0 W T	Remarks: 77th St. Suite 200 N 55435 N 552 832 2600	r or disc	coloration observed.	

SIMPLE EN

BARR Telephone: 952-832-2600 Fax: 952-832-2601



Project Number	Iniversity of M Iame UMA S 23/19-0B05 4951446.3 L		Drill Contractor Matrix Environmental LLC Drill Method Geoprobe Drilling Started 9/1/09 Ended 9/1/09 Logged By EJC		OG OF Boring SOC5-GP12A SHEET 1 OF 1 Elevation 939.3 Total Depth 12 Screened Interval NA	
DEPTH FEET	S [™] S	Soil: dark brown (10YF	DES 2 3/3), moist, (10/30/60). [Fill/T	SCRIPTION opsoil]		ELEV. FEET
5		0.6 1 Silty Lean Clay (CL): d	ty Soil (OL): black (10YR 2/1), ark yellowish brown (10YR 3/4			935
10	2	1	k yellowish brown (10YR 3/4), t	moist, (0/80/20). [Till]		930
15		End of Boring - 12 feet				925
20						920
81.006_28.GDT 10/22/09						915
SIMPLE ENVIRO LOG 5 23190805.GPJ BARRLOG6_28.GDT 10/22/09	Barr	Engineering Co. W 77th St. Suite 200	Remarks: Background = () 6 ppm No upusual oc	lor or discoloration observed.	910
	Edina	W 77th St. Suite 200 a, MN 55435 bhone: 952-832-2600 952-832-2601	BGS = "below aro	und surface"	field which is not included on this log.	P018330



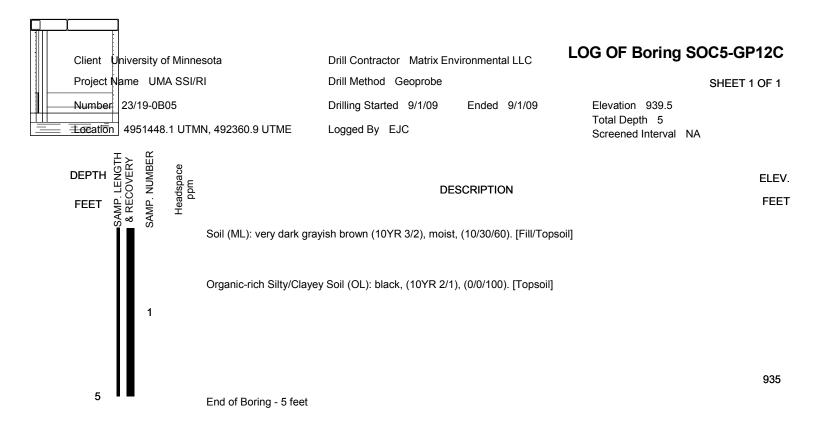
15



Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 0.6 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log. 930

925



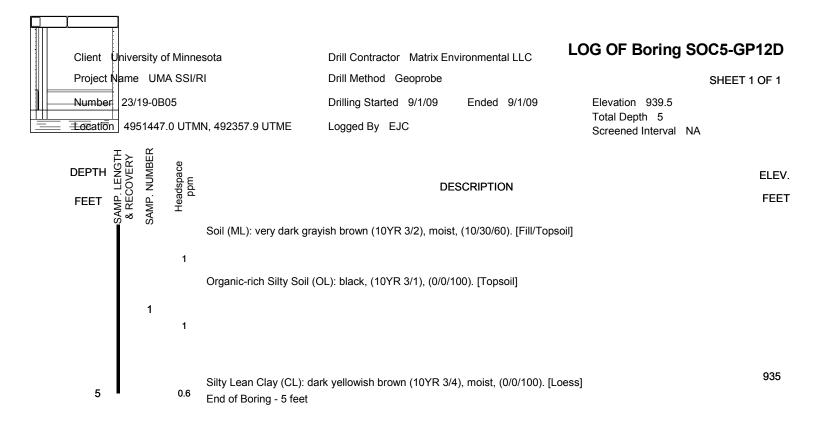
15



Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 1 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log. 930

925



15



Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 1 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log. UMP018333

930

925

Client Un Project Na Number	ame UN 23/19-08	MA SSI/R 305		Drill Contractor Matrix Environmental LLC Drill Method Geoprobe Drilling Started 9/1/09 Ended 9/1/09 Elevation 93 Total Depth Logged By EJC Screened Inte	12
DEPTH DEPTH UND FEET GWES	& RECOVERY SAMP. NUMBER	9.0 Headspace	Soil/Fill: black (10YR 2/1	DESCRIPTION moist, 5/25/70. [Topsoil/Fill]	ELEV. FEET
5	1	0.6 0.6 0.6		Soil (OL): black (10YR 2/1), moist, (0/0/100). [Topsoil] owish brown (10YR 4/4), moist, (0/0/100), red oxidation mottling. [Loes	935 ss]
10	2 3	0.6	Poorly Graded Sand (SP 10-12': 20% gravel. End of Boring - 12 feet	yellowish brown (10RY 5/4), moist, (5/95/0). [Outwash]	930
15					925
20					920
23190B05.GPJ BARRLOG6_28.GDT 10/22/09					915
KO LOG 5 23190B05.GPJ B/	B: 47	arr Eng 700 W	ineering Co. 77th St. Suite 200	Remarks: Background = 0.6 ppm. No unusual odor or discoloration	910 observed.
	PR Te	elephor	N 55435 ne: 952-832-2600 2-832-2601	BGS = "below ground surface" Additional data may have been collected in the field which is not inclu	ided on this log. UMP018334



15

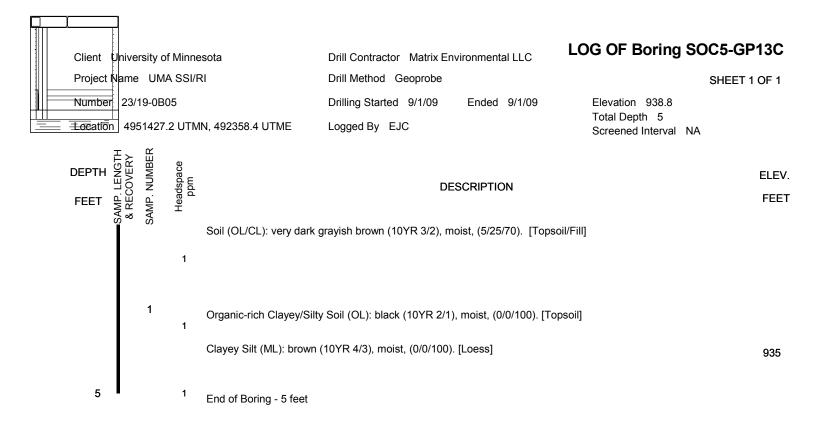


Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 0.6 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log. UMP018335

930

925



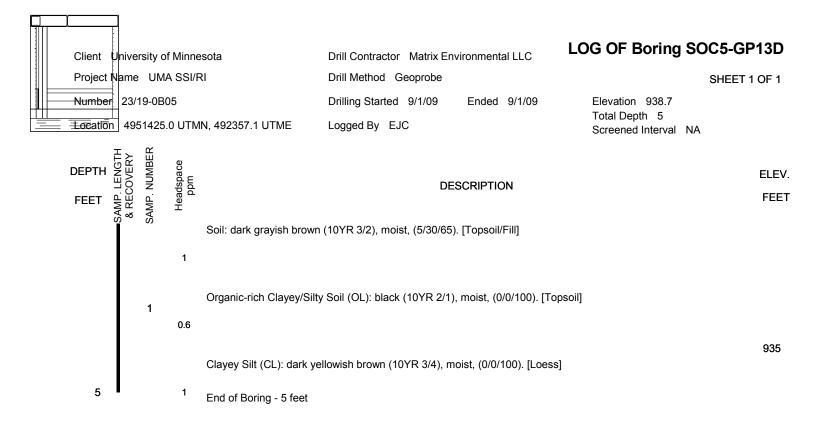
15



Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 1 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log. 930

925



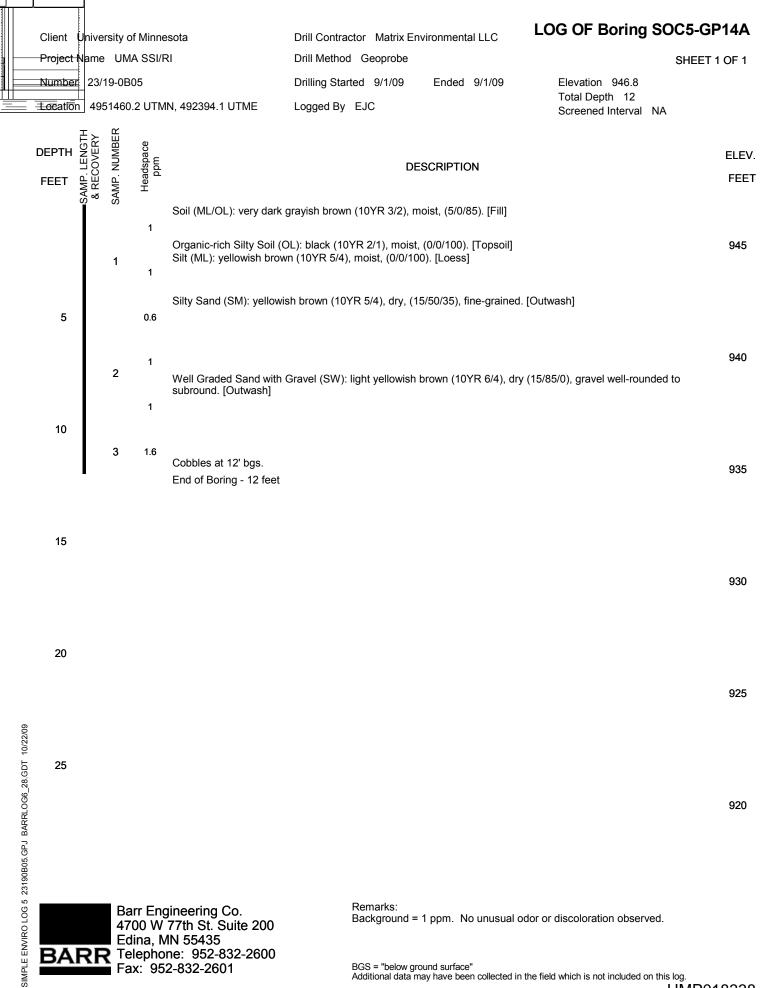
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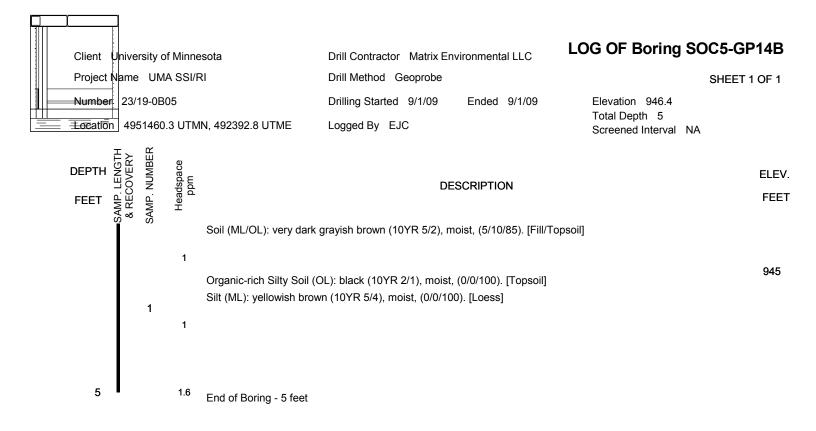


Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 1.0 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log. 930

925





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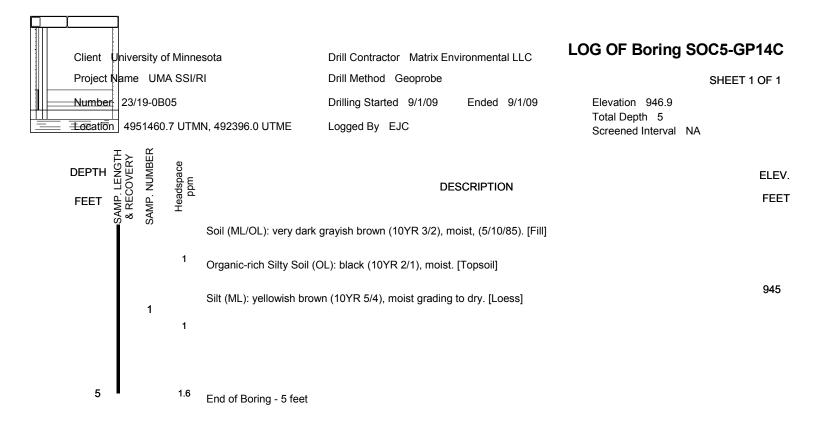
Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 1 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log.

UMP018339

940

935



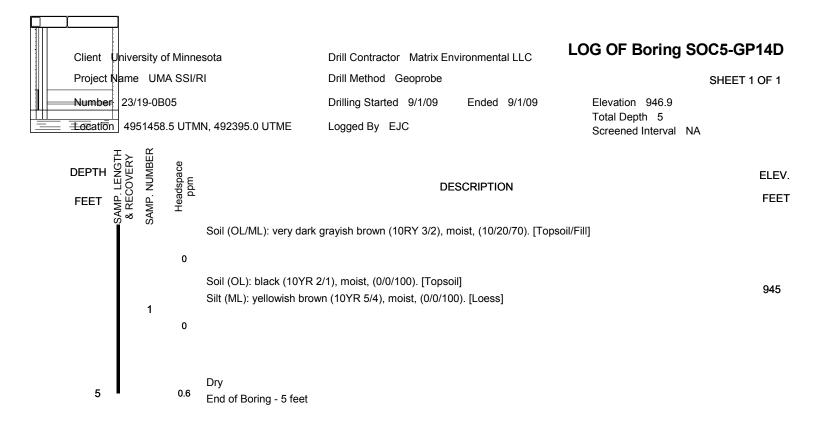
15



Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 1.6 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log. 940

935



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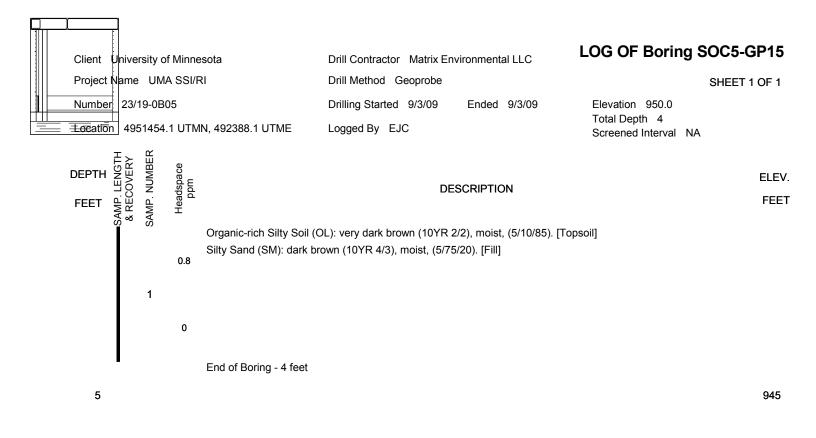
Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 0.6 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log.

UMP018341

940

935

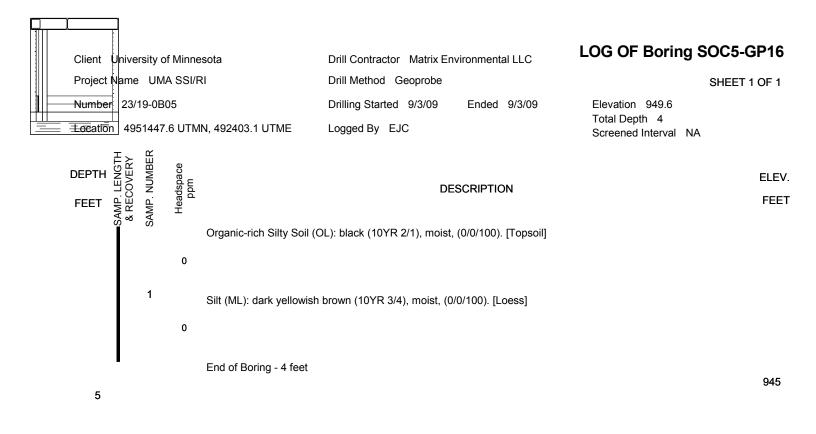


15



Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 0.2 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log. 940



15



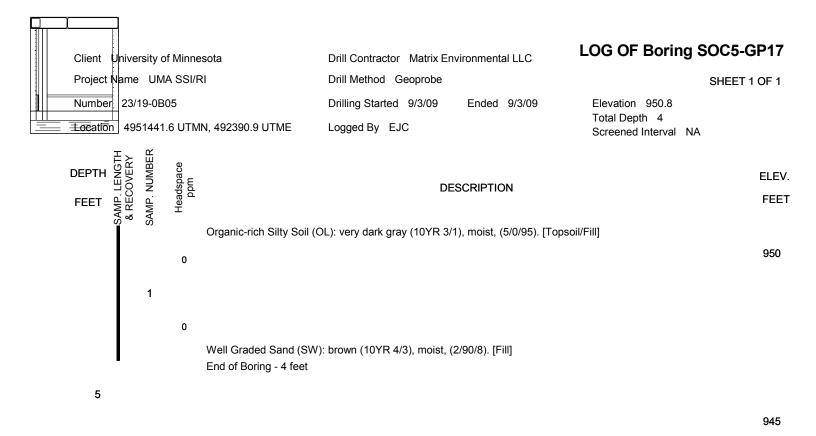
Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 0.2 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log.

s log. UMP018343

940

935

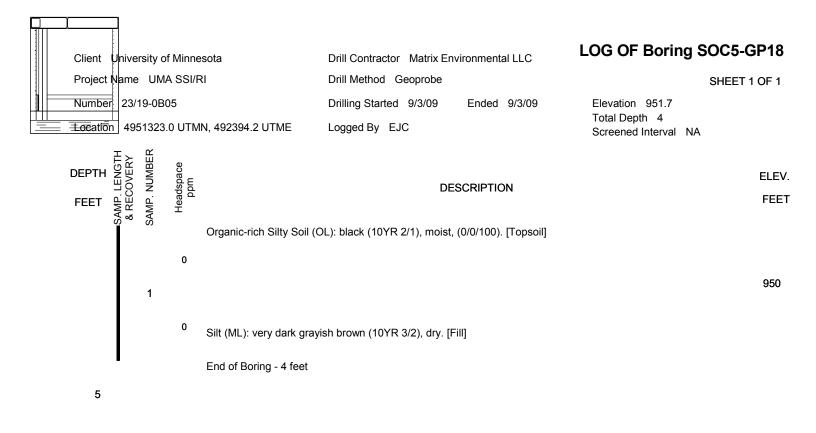


15



Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 0.2 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log. 940



15



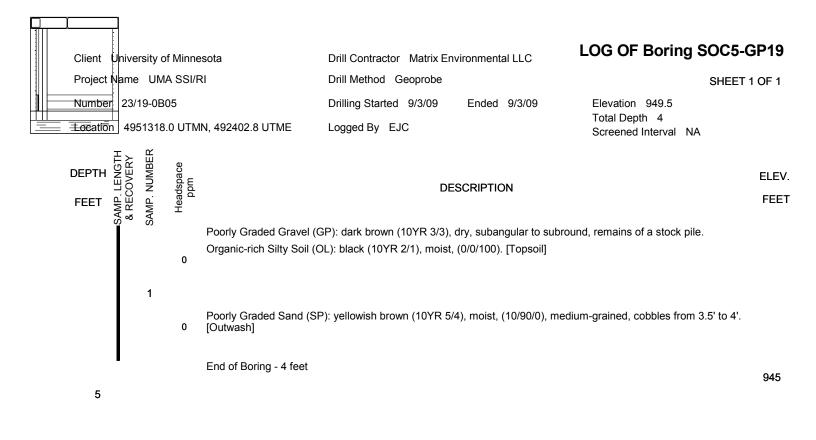
4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601

Remarks: Background = 1.4 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log.

945

940



15



Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 1.4 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log. 940

935



15

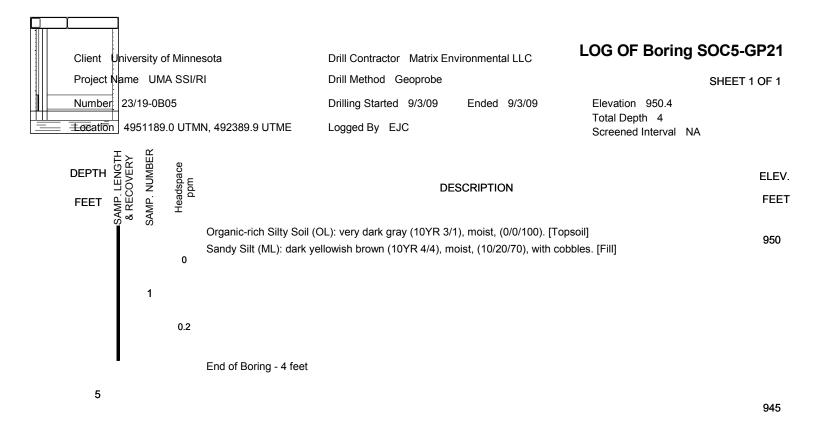


Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 1.4 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log.

UMP018347

940

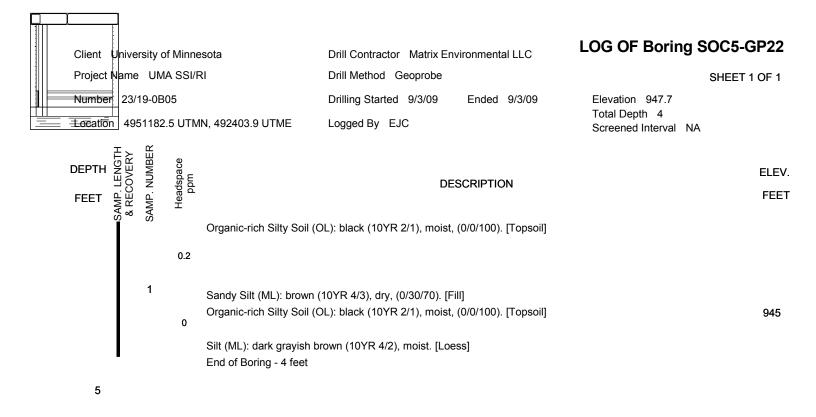


15



Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 0.2 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log. 940



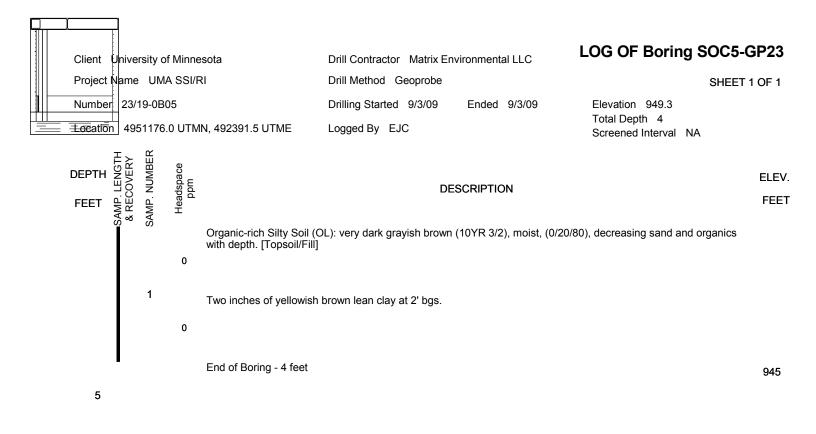
15



Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 0.2 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log. 940

935



15



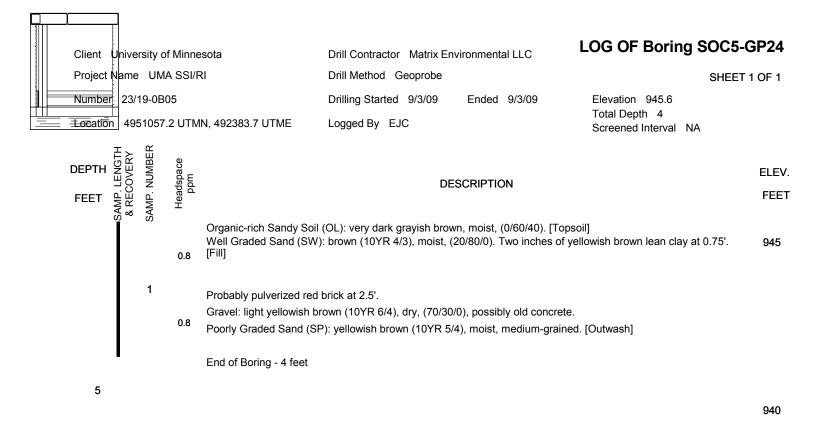
Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 0.2 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log.

935

940

s log. UMP018350

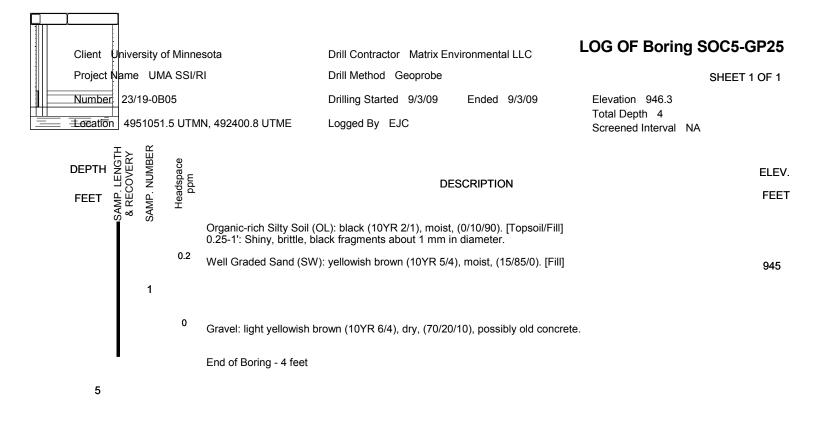


15



Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 0.8 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log. 935



15



Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 0.8 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log. 940

935



15



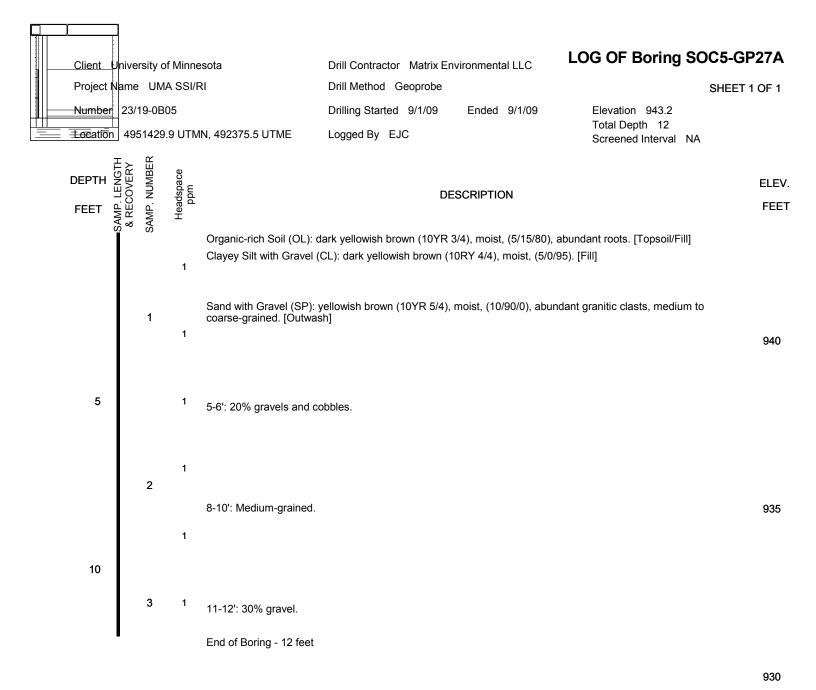
Remarks: Background = 0.8 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log.

UMP018353

945

940

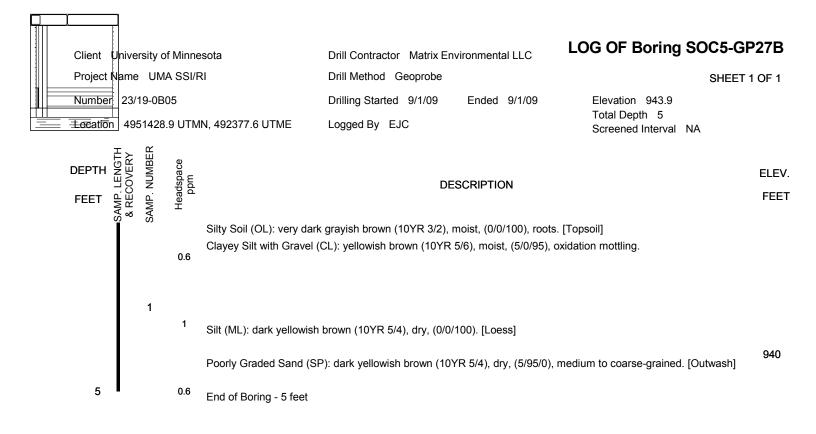




Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 1 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log.

UMP018354



15

930

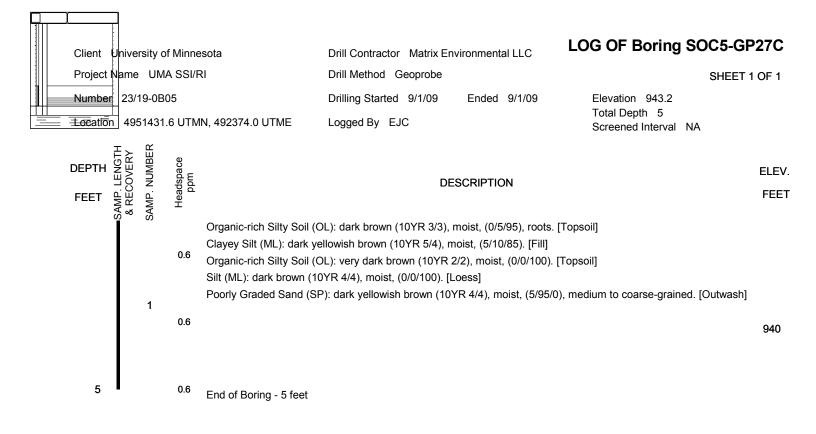
925

935



Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 0.6 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log.



15



Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601

Remarks: Background = 0.6 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log. 935

930



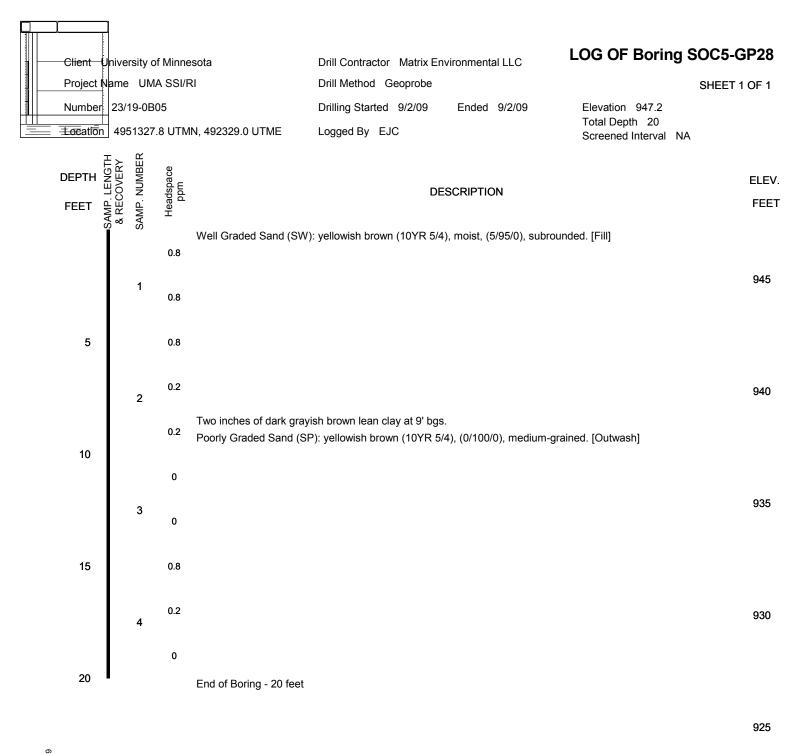
15



Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601 Remarks: Background = 0.6 ppm. No unusual odor or discoloration observed.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log. 935

930



Barr Engineering Co. BA

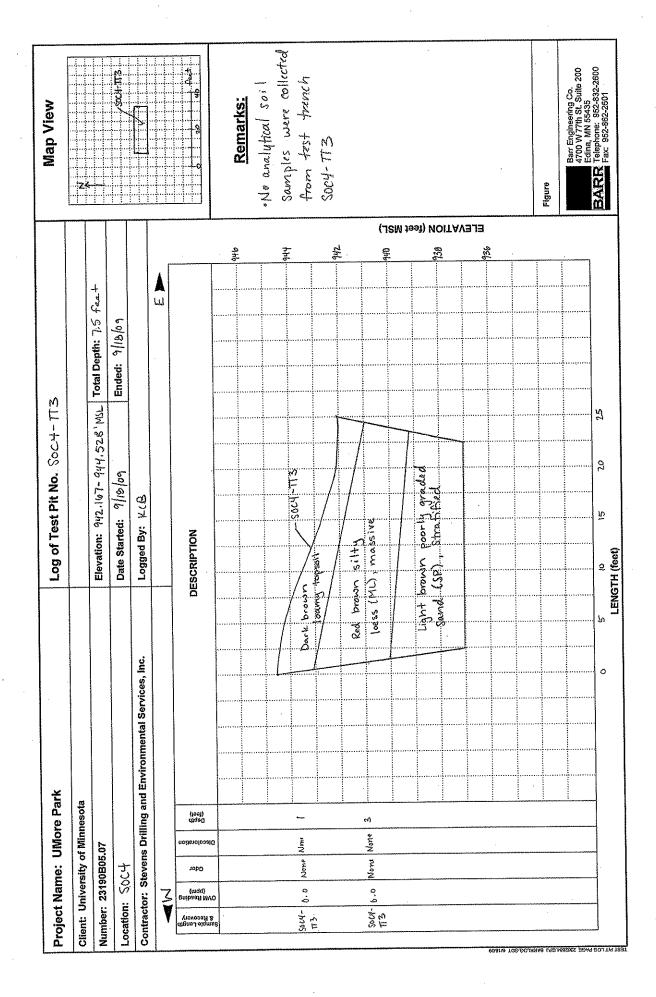
4700 W 77th St. Suite 200 Edina, MN 55435 Telephone: 952-832-2600 Fax: 952-832-2601

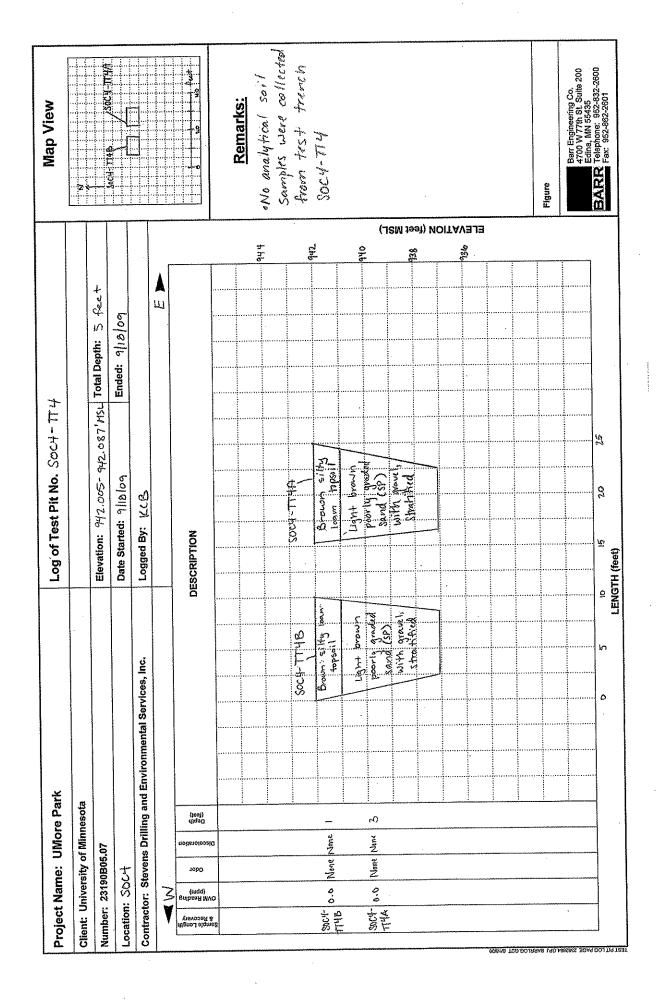
Remarks: Background = 0.8 ppm.

BGS = "below ground surface" Additional data may have been collected in the field which is not included on this log.

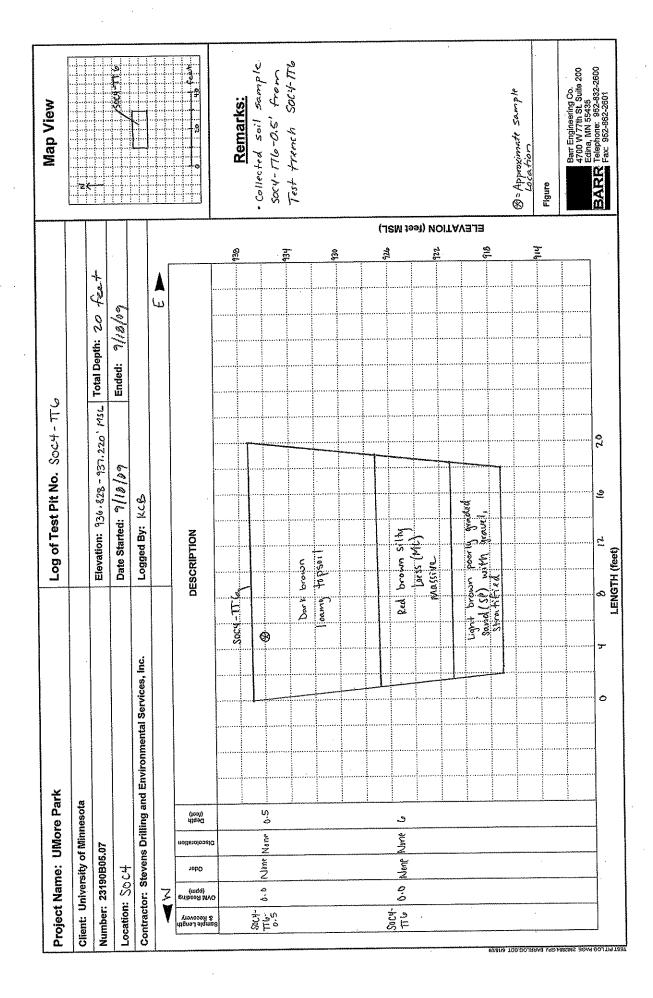
UMP018358

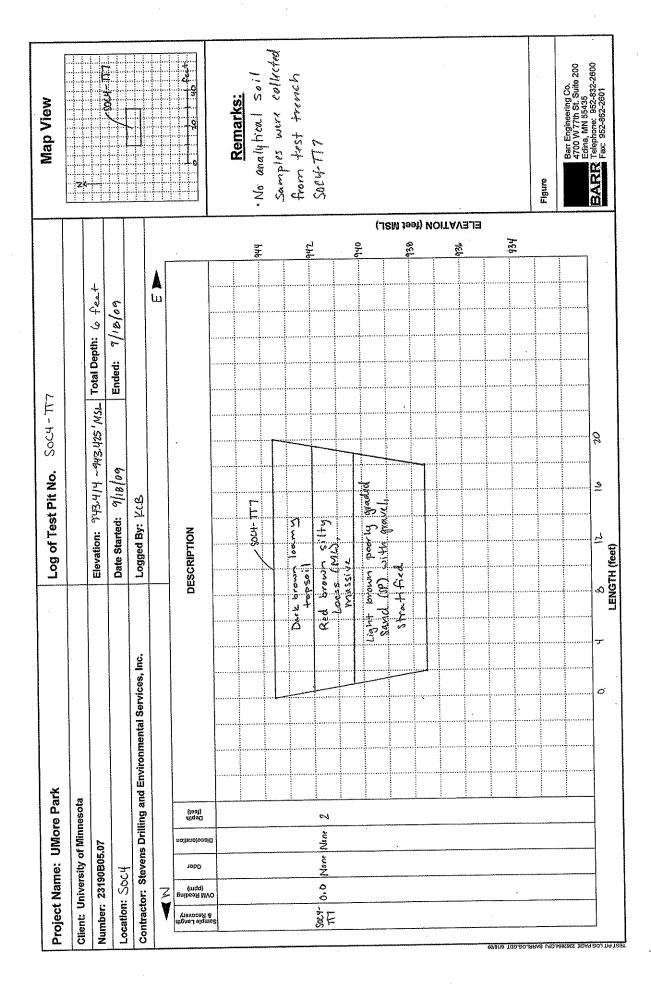
Image: Services inc. Log of restriction. 413, 785 - 946. (r/5 ^{-/} MsL) Total Depth: 1/ Assistance: 9/17/109 Date Started: 9/17/109 Ended: 9/17/109 DesScription Logged By: (r/s), frequencial							Remarks:	948 aNo analytical Soil	from test tranch	socy-11	 (TS	र्भ M 399	i) NO	tava.	13	928	Figure	Barr Engineering Co. 4700 W 77th St. Suits 200 Edina MN 75435
d Environmental Services, Inc. Logged By: KC B Date Started: 9(1) [09 Logged By: KC B Red brocking MASS ing MASS ing			Total Depth:	Ended: 9 /17 /09								······						
A d Environmental Services, Inc.	Log of Test Pit No. Socy - 11		Elevation: 943, 788 - 946.475'	Date Started: 9/17 04	Logged By: 산C 용	ESCRIPTION			i	loamy	silty loess		boorig graves					
Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z Z	Project Name: UMore Park	Client: University of Minnesota			Contractor: Stevens Drilling and Environmental Services, Inc.						Red brow		Real Provide Automatical P					

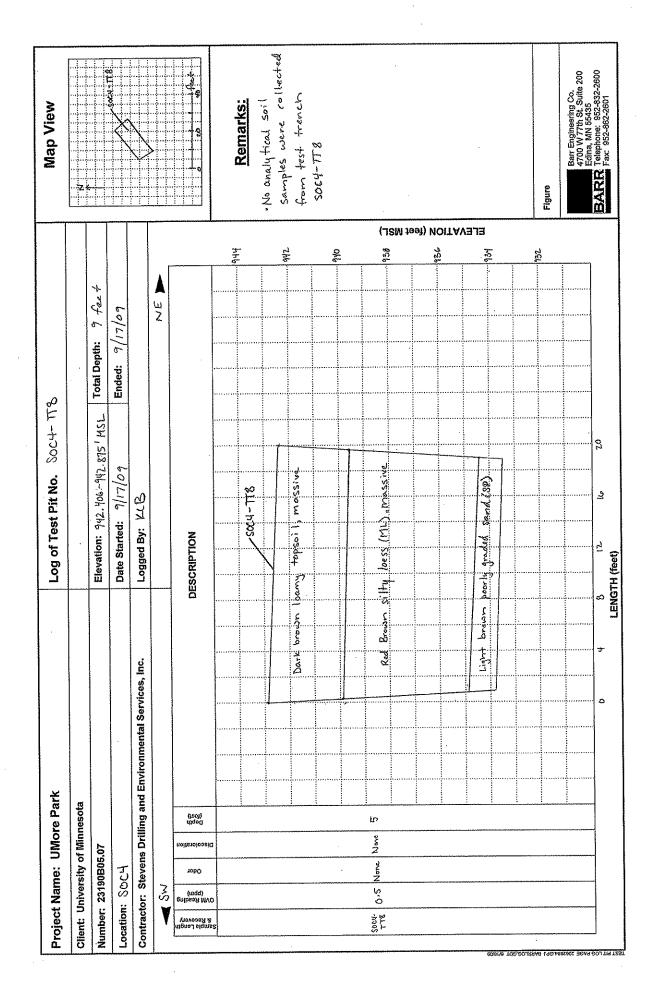


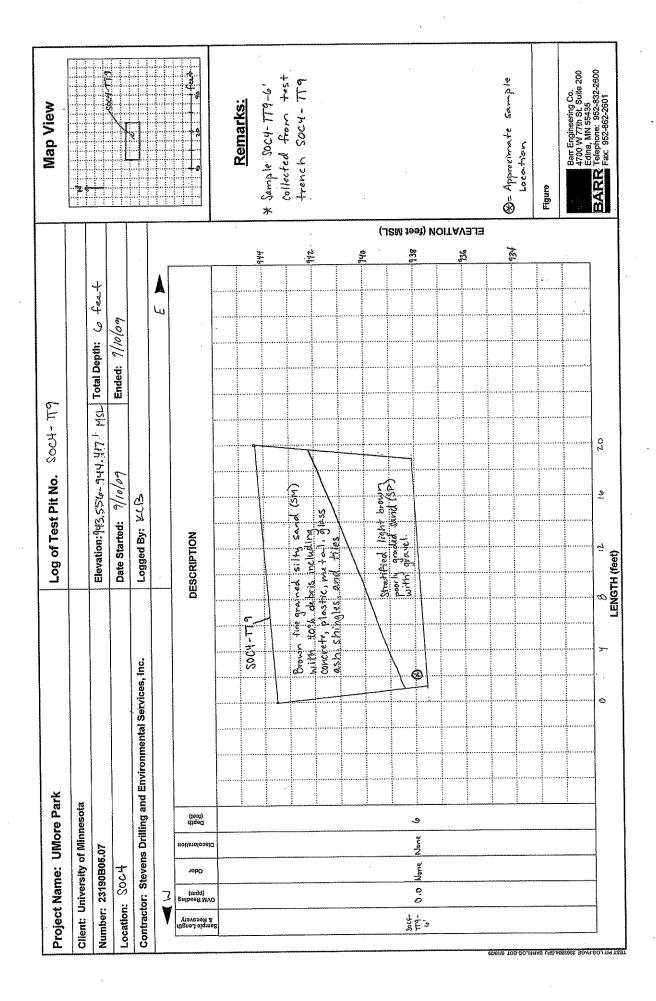


Log of Test Pit No. 2004 Elevation: 937.969-938.551 Date Started: 91(2)09 Date Started: 91(2)09 Soct-15 Logged By: LCB Date Known loom Date Socie Nuclimation Soct-15 Soct-15 Soct-15 Date Started: 91(2)09 Logged By: LCB Logs: Multiple Logs: Multiple Soct-15	-TI5 Map View	Total Depth: /o feef	Ended: 9/18/09			140 Remarks:	No analytical Soil 88 Samples were collected	framitist trench	<u>ड</u> ्ट 	200 201 201 201 201 201 201 201 201 201		128 Figure
	Soct		1		DESCRIPTION		30CH-115	k Brown Topsoil		Red brown silte Loess (ML),	1 803	

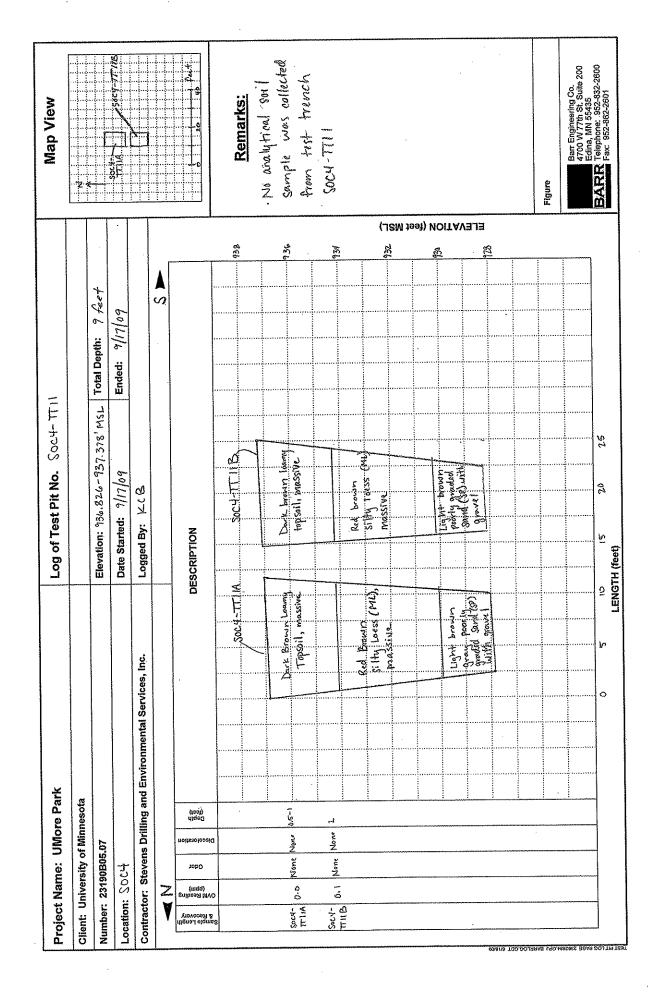


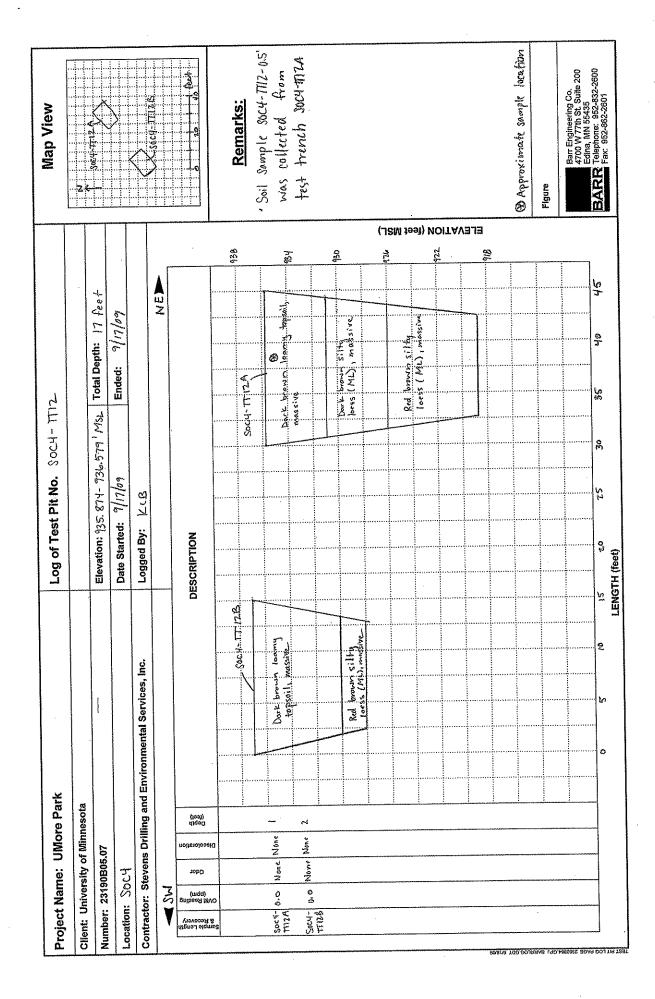


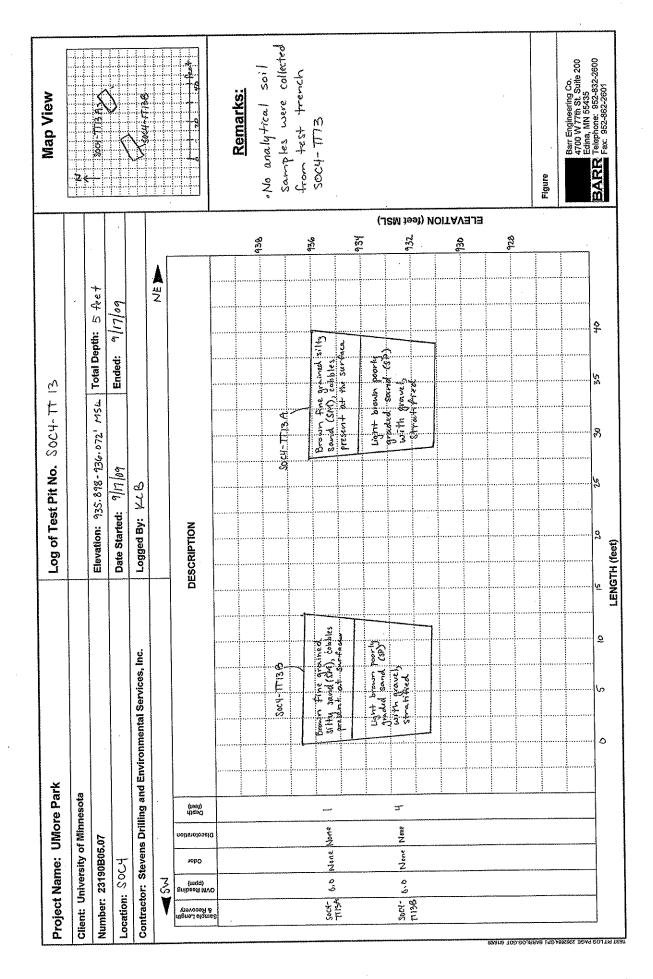




Log of Test Pit No. Elevation: 941. 720 - 94 Date Started: 9/17/09 Logged By: LCB DESCRIPTION DESCRIPTION SSIVE breach SSIVE breach SSIVE breach SSIVE Description SSIVE Description SSIVE Description SSIVE Description SSIVE Description SSIVE Description SSIVE Description SSIVE Description SSIVE Description SSIVE Description SSIVE Description SSIVE Description SSIVE Description SSIVE Description Description SSIVE Description SSIVE Description SSIVE Description Description SSIVE Description SSIVE Description SSIVE Description SSIVE Description SSIVE Description SSIVE Description SSIVE Description SSIVE Description SSIVE Description SSIVE Description SSIVE SSIVE Description SSIVE S	Light brue Color	Light branch Be	Light brown and	of Minnesota of Minnesota 5.07 5.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.07 1.0 1.0 1.0 1.0 1.0 1.0 1.0 1.0	Vilmesota S Drilling and Environmental Services, inc. S Contraction (eeb) (eb)	D. Cocy- TTIO Map View	442. 884' 2454 Total Depth: 6 feet	19 Ended: 9/17/09 Ended: 9/17/09			Pemarks:		44	Socu- TID		(1)		936	ITAVA	E		
								9/17/09		DESCRIPTION		Speck TTO	Brown	2	£.		ht brown sand (SP)					-



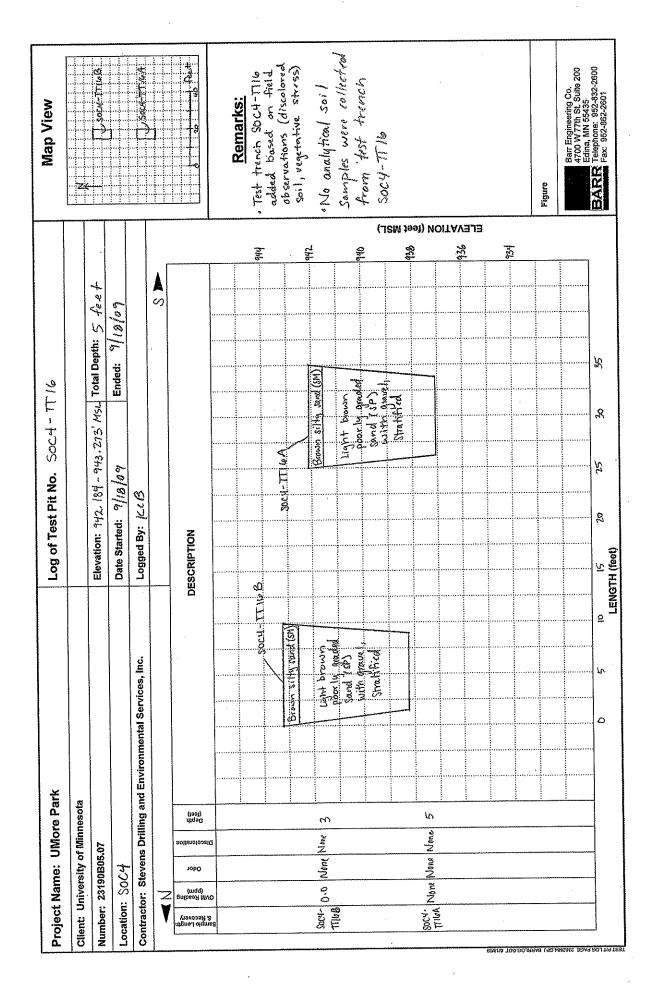




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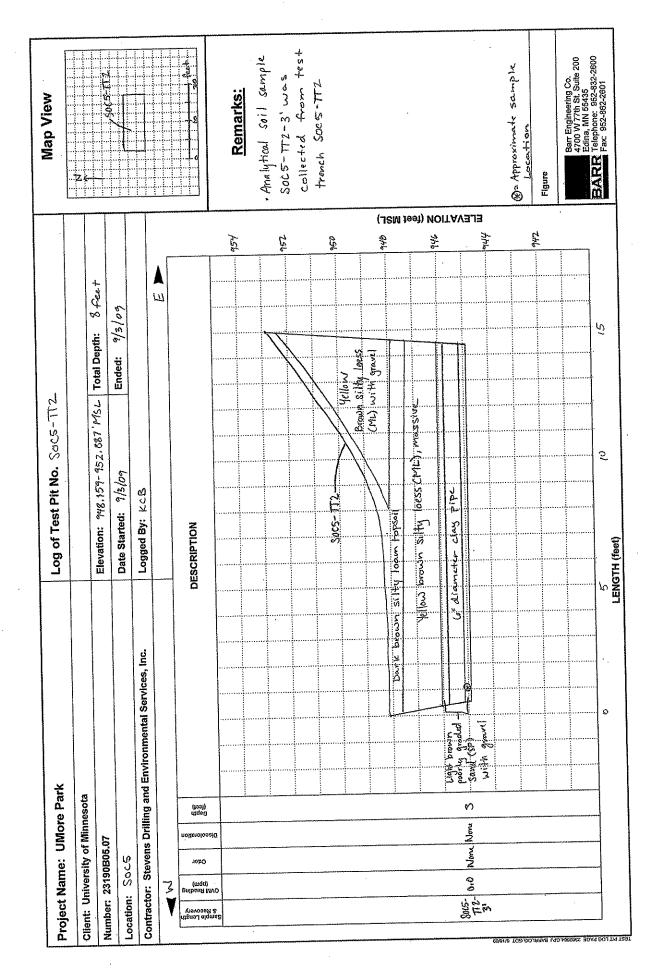
Log of Test Pit No. Soc4-TT 14 Elevation: 935 2246 - 93.5.870' Ags Total Depth: Date Startedt: 9/17/189 Logged By: K.C.B. Endedt: 9/ Logged By: K.C.B. DESCRIPTION DESCRIPTION DESCRIPTION Description Spic.4-T. 14.R. Spic.4-T. 14.R. S

Project Name:	UMore Park	e D	ark	Log of Test Pit No. SOCY- IN 15		
Client: University of Minnesota	r of Min	neso				
Number: 23190B05.07	05.07			Elevation: 934.207-934.670' MSL Tota	Total Depth: 5 feet	
Location: Shr 4				Date Started: 9/i1/09 Ended:	ed: %//7/09	
tractor: Stev	ens Dri	lling (Contractor: Stevens Drilling and Environmental Services, Inc.	Logged By: ドル&		<u> </u>
NS A					RE	×3004-7735
Ador Sample Length (ntronding (print) (ntronding (print)	Discoloration	diqa() (jool)	ā	DESCRIPTION		200
						<u>Remarks:</u>
				200 4-TTISA		·No analytroal soil samples were collected
					1	from test trench
			Brown sitty and (34)	(MS) pues 141 s uniong		Sec4-7715
OCY- TrisA 0.0 None	ne None	4	Ared brown sitty loess	Light brown poorly	133	
N 0.0 451LL	Nore Nor	- 	Light brown poorly (graded Sarred (5P),		<u><u><u></u></u></u>	
						ELEVATIO.
					376	
						Figure
						Barr Engineering Co. 4700 W 77th St. Suite 200 Edina MN 55435
	_	_			35	EADE Telephone: 952-832-260



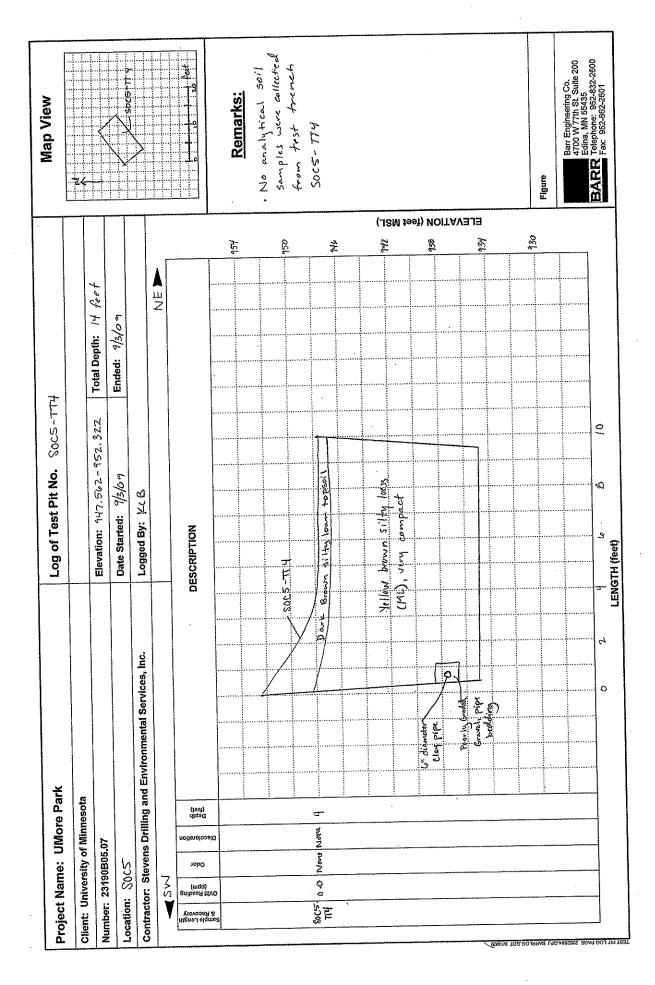
Map view	2			Secs-TR1			<u>Remarks:</u>	·No analytical soil	sample was collected	Soc5-77						-		Figure	Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435	BARR Telephone: 952-832-2600 Fax 952-852-2601
								950	848		946	פר)		3) NO	7% 7% TAVE	046	:			
Soc 5 - TT)		758' MSL Total Depth: 5 feet	Ended: 9/3/01		×							Pipe budding								01
Log of Test Pit No. S		Elevation: 949.540 - 949.758' MSL	Date Started: 1/3/09	Logged By: KCB		DESCRIPTION		Secs-111	Dark Brown Learny Topsoil	Light brann Borry graded sarred (SP)	ie" diameters. Clarge PIPE	1 1. manual las adad Sand (SS)	ight stored in fuel of 0							<u> </u>
rk			na Andre mannen weren defenden an en en en en der eine en en der eine eine eine eine eine eine eine ei	Contractor: Stevens Drilling and Environmental Services, Inc.																
UMore Park	linnesota			Drilling an		Discoloration Depth (feet)	· ·						۲۵ چ			 				
	ity of M	JB05.07		evens D		Odor	<u> </u>						None None			 				
Project Name:	Client: University of Minnesota	Number: 23190B05.07	Location: Soc5	ractor: Ste	2	(mqq) Bullacending Briscovery Vravcading digeo 2 equation							3655 0.6 TT			 				_

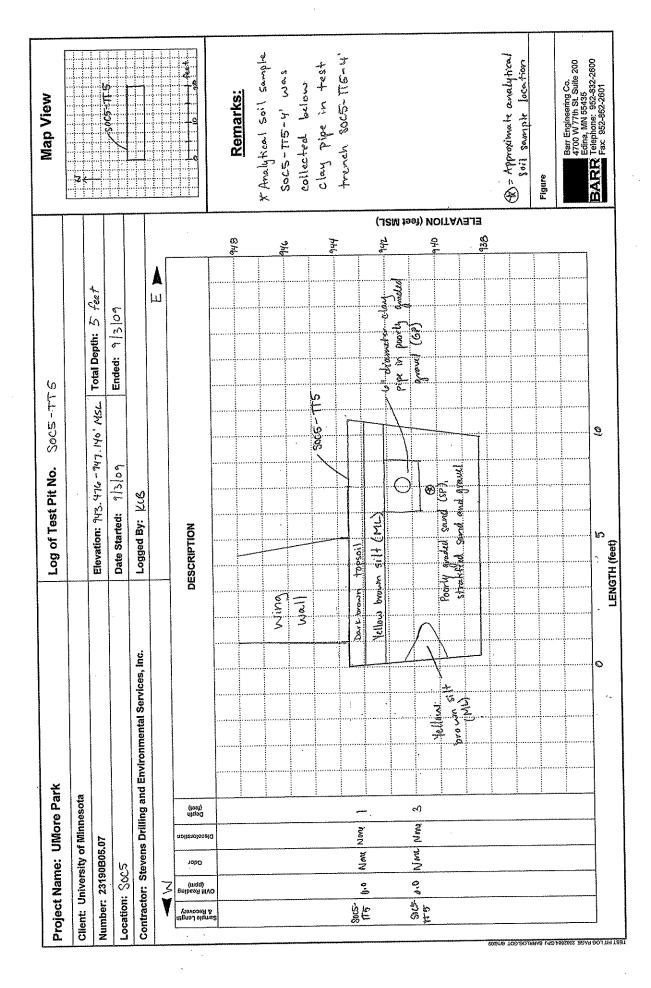
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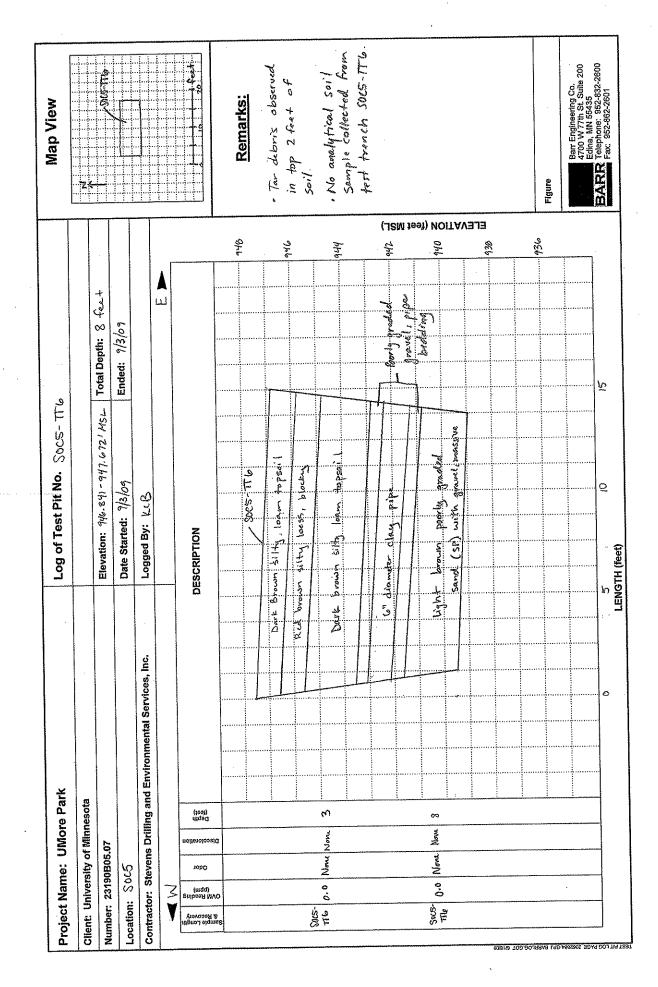


	72	7 feet 7 feet 7 feet 136	60				aud Bemarks:	·No analytical soil	Angle collected at	test trench 3005-173	(Jhr		1				934	43L Figure	Barr Engineering Co. 4700 W 77th St Suite 200 Edina. M1 55435	DADD Telephone: 952-832-260
Log of Test Pit No. Socs-713		Elevation: 942.167- 942 361' MSL Total Depth:	Date Started: 9/1 [04 Ended: 9/1/09	Logged By: KCG		DESCRIPTION				Dark brown sitt		(IM) stand by		Light Cross hours and their poorts grand			Poorty graded			
				Environmental Services, Inc.		α.			0.51-0.00	Dark brown land		Red brown silty			Light brawn poorty					
Project Name: UMore Park	Client: University of Minnesota	Number: 23190B05.07	Location: SACS		NN	Bend Jagmas A Recovery (mag) Discoloration Discoloration (feet)				Row Nove 2	TEAN CONTRACT	<u>i</u>				Secs- 0.0 None Vone		 		

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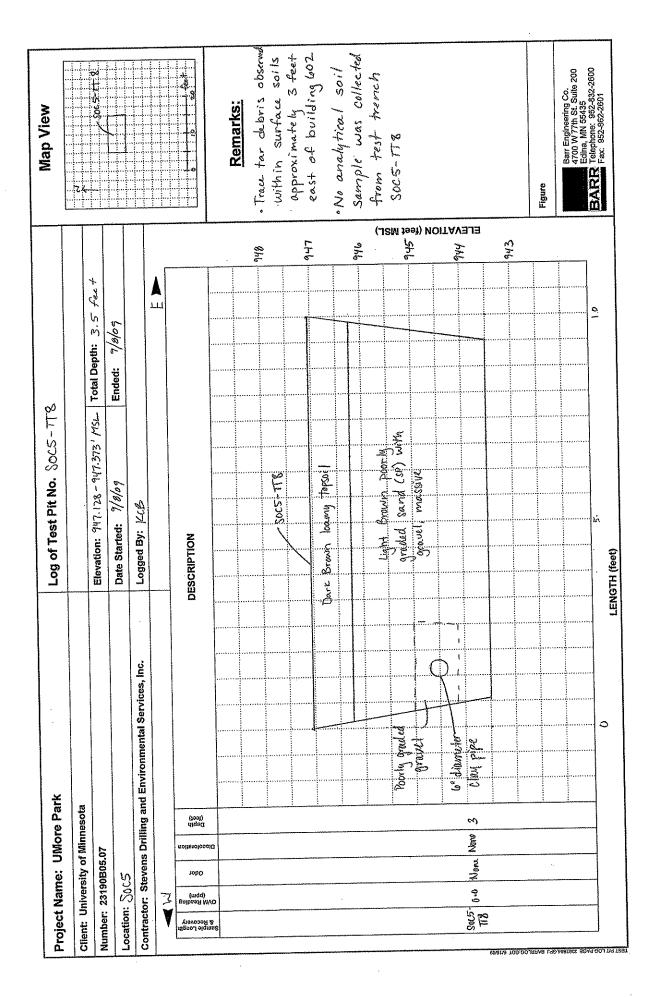


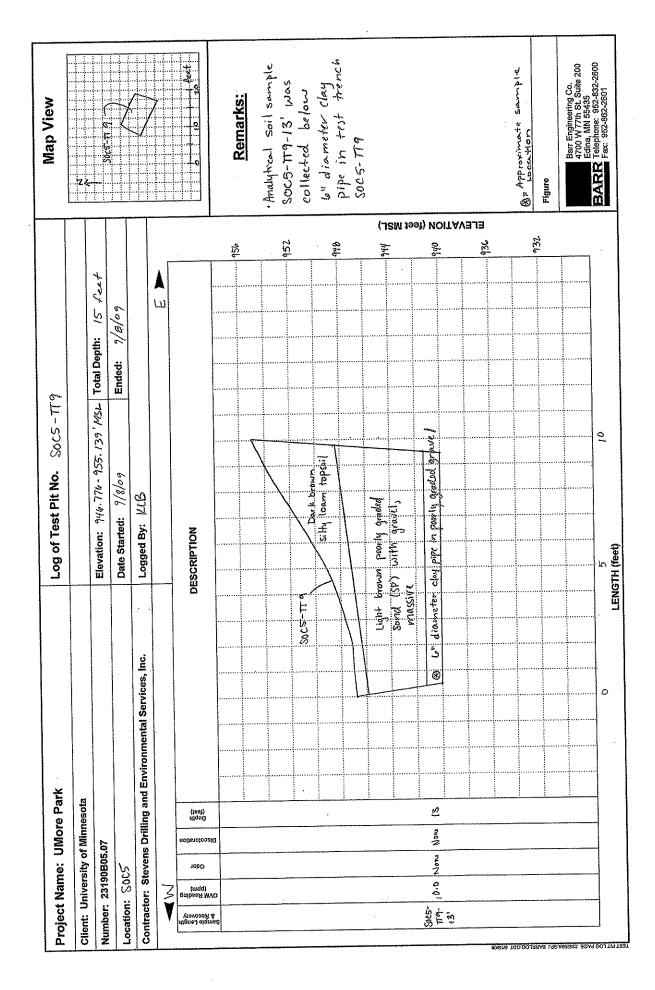


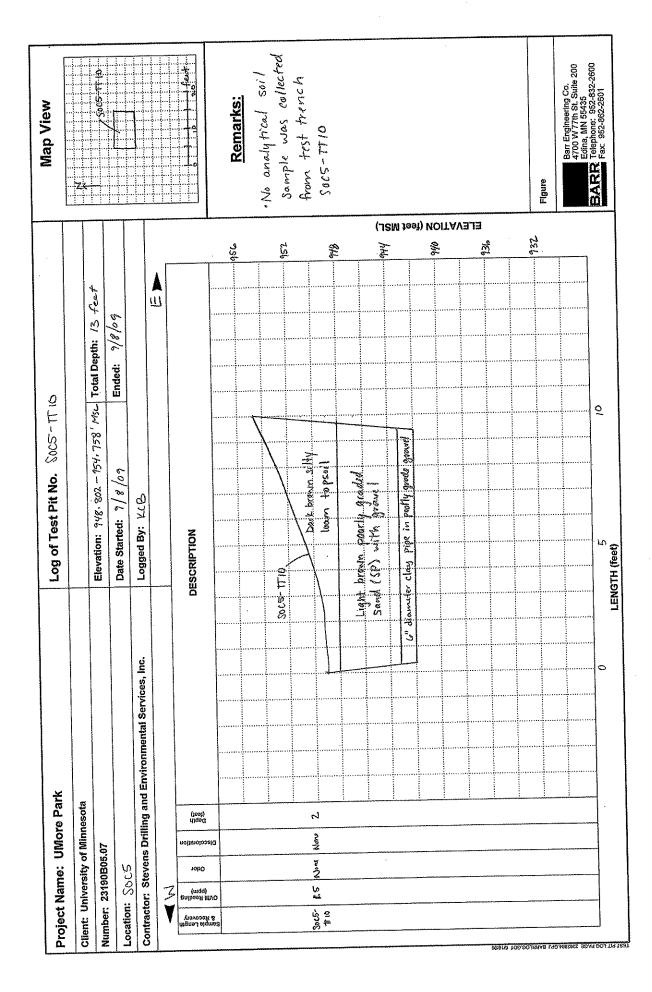


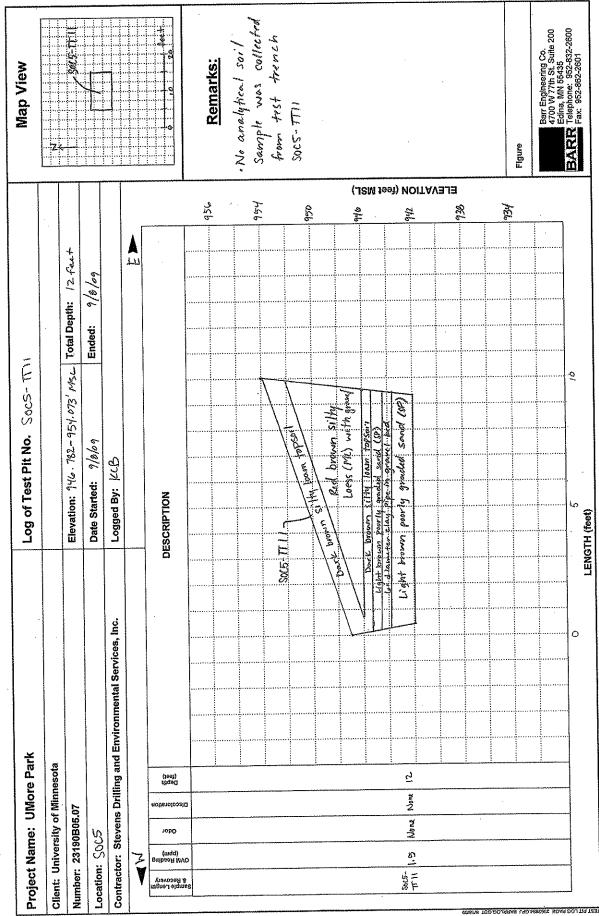
a 1997 - The American State of the State of

Map View	×						Remarks:	946 .5" diameter pipes	appreximately two		(TSM Jəc	Collected from test thench SUCS-177		Figure	Barr Engineering Co. 4700 W 77th St. Suite 200 Edina, MN 55435	BARR Tetephone: 952-832-2500
17		Total Depth: 3.5 fee ≠	Ended: 7/8/09		A				<i>b</i>	- °			<u></u>			1 30
Log of Test Pit No. Socs - TT7		Elevation: 946.849-947.066 MSL	Date Started: 7/8/09	Logged By: K(&		DESCRIPTION			Soc5-11-1	ark gray brainin silt (ML)	ate clay pipe in pearly	Olive brown SILF (ML)				12 18 24
rk				Contractor: Stevens Drilling and Environmental Services, inc.		ā				J.	Two 5" diameter Clay					
Project Name: UMore Park	Client: University of Minnesota	7		Drilling an		notisnotonsid itiqəCi (fəst)				·····	······	Nome 2.5	 			-
e: U	ity of	JB05.0	5	evens		Qeor					·	Nane N				
ect Nam	t: Univers	Number: 23190B05.07	Location: Socs	actor: St	R	(mqq) Saibas MV(Vevose MV(Vevose M						Suc5- 111 0.0	 			

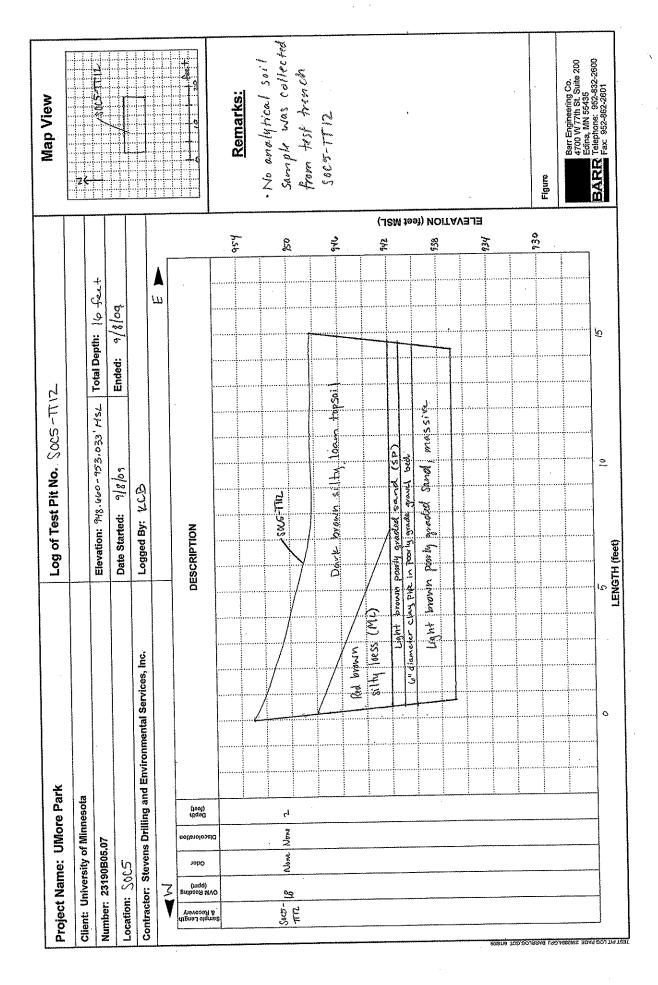








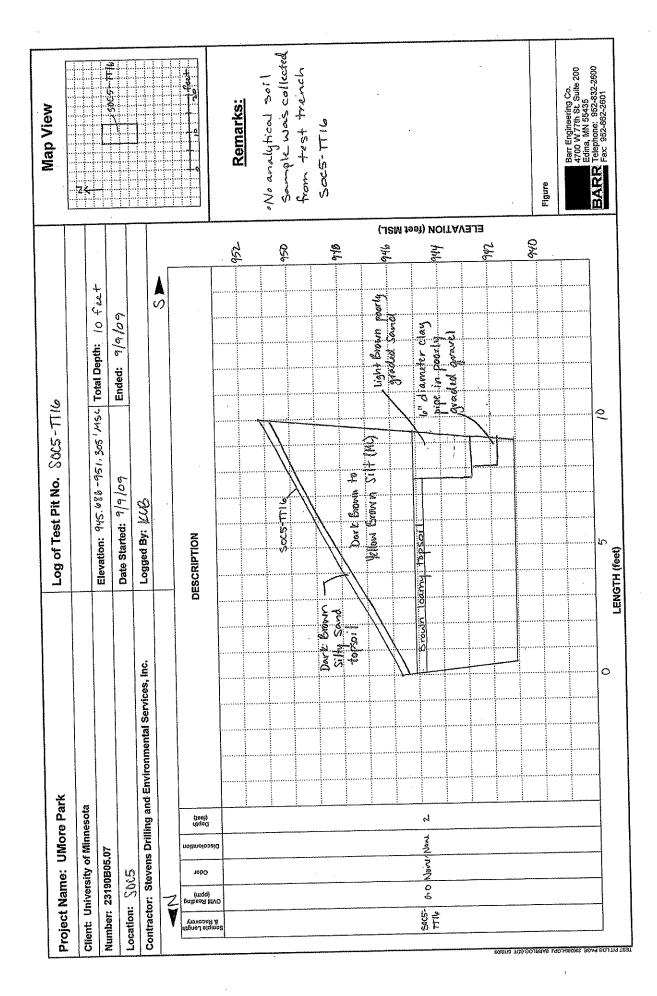
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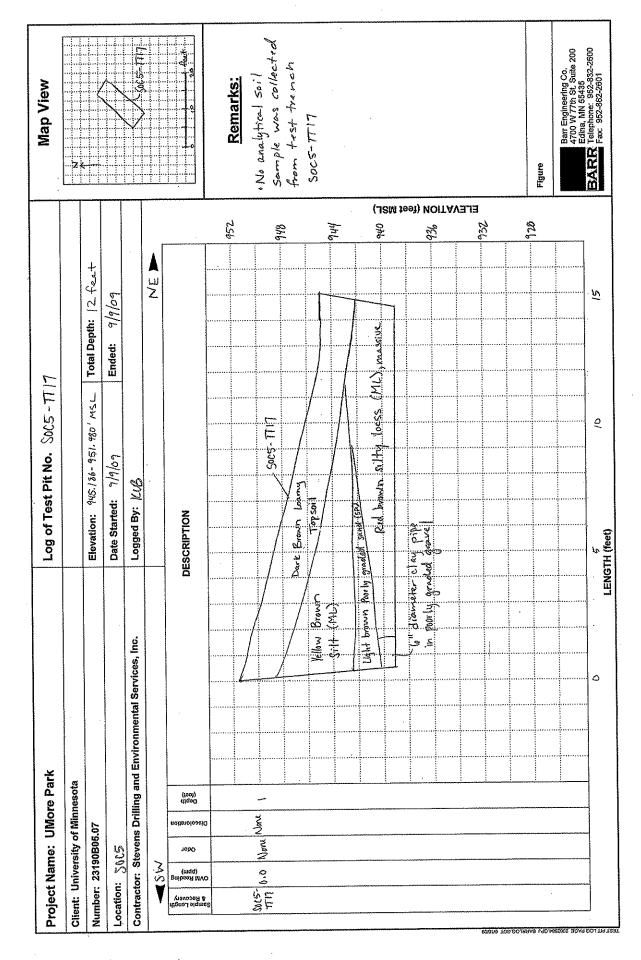


Map view	2	£ (L)-095					<u>Remarks:</u>	* Test trench excavation	extended bulows thoor			of exterior connerron	< 			cley pipe			@= Approximate analytical Sul a sample location	Figure	Barr Engineering Co. 4700 W 77th St. Suite 200 Frima MN 55435	BARR Telephone: 952-832-2600 Fax: 952-862-2601
							948		内外口		put	. .	4		ang ang		\$ \$	2	936	2		•
Log of Test Pit No. Socs-TT (3		Elevation: 946.414-946.459 MSL Total Depth: 7 text	Date Started: 9/10/07 Ended: 9/10/07	Logged By: 노인율		DESCRIPTION) 6" diamiter clay PiPC	Levels gridered grave by Soco-172		ughe Break	magnes yellow brown silty	loess (ML), massive		brown Poor by gradid Sand, marsive				brown poorly graded sond, beddeed				5 10 10 15
Project Name: UMore Park	Client: University of Minnesota	Number: 23190B05.07	Location: SATS	Contractor: Stevens Drilling and Environmental Services, Inc.	2	E Recovery Deptin Deptin Deptin Deptin Deptin Deptin Deptin Deptin Deptin Deptin Deptin Deptin Deptin			the toor Stab			TTS- 6.0 Now Now 3.5						+W017				

	r		t: 3/19/09			Atbanks:	* No analytical soil	たらくら	Li 11 , 2005	(60) annection	* Close c set north east		Por Clear 1	93) NC		Q61	Figure	Barr Engineering Co. 4700 W 77th St. Sulte 200 Edina. MN 55435	2.2500 Telephone: 952-832-2600
Log of Test Pit No. Socs - Trit	F	Elevation: 945. 932-946.3/0 1454 10tal Lepur:	Date Started: $7/10/07$ Ended:	Logged By: //LB	DESCRIPTION		socs-trut	Empon topsoil with trace tom dubits	Light brown poorty gradied gond (SP)	W' American clay pipe in poor's graded or well	(jght browin poorly greated stud (SP)								
Project Name: UMore Park	Client: University of Minnesota	Number: 23190B05.07	۱زېرې	Contractor: Steware Infiling and Environmental Services, Inc.	aligencial ages Provide a second a provide a	0		Control Control			Succ ² , a Mans Norve 3	0.0							

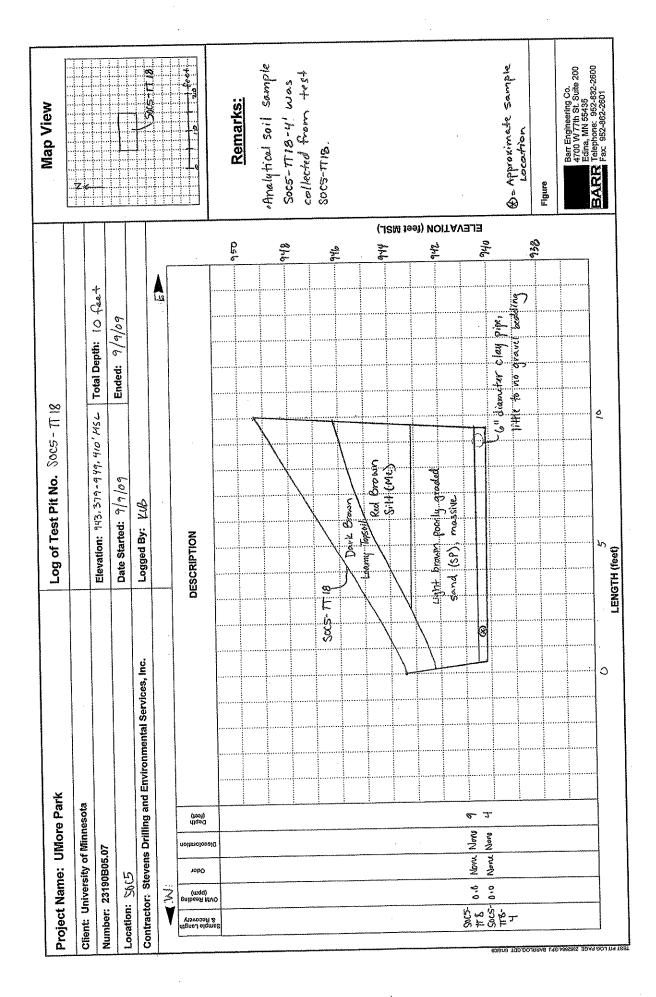
	Log of Test Pit No. Socs - The	
	Elevation: 945, 932-946.065' MSL Total Depth: 3.5 fe	feet
**************************************	Date Started: 9/10/09 Ended: 9/10/09	
Contractor: Stavens Drilling and Environmental Services, Inc.	Logged By: KLG	
		A
	DESCRIPTION	
		વેષષ્ઠ
	2000-4115-	
		946
Dave	brown typesail with frach the deburs	
<u>à</u>	wit browing grand si it (ML), trace tar	11
	I light brown poorly guided Sand	
6º dameter		
Clay Plac M porty graded		2 2 2
grow A L		
		ABTE S
		I
		Barr Engineering Co. 4700 W 77th St. Suffe 200 Edina. M 55435

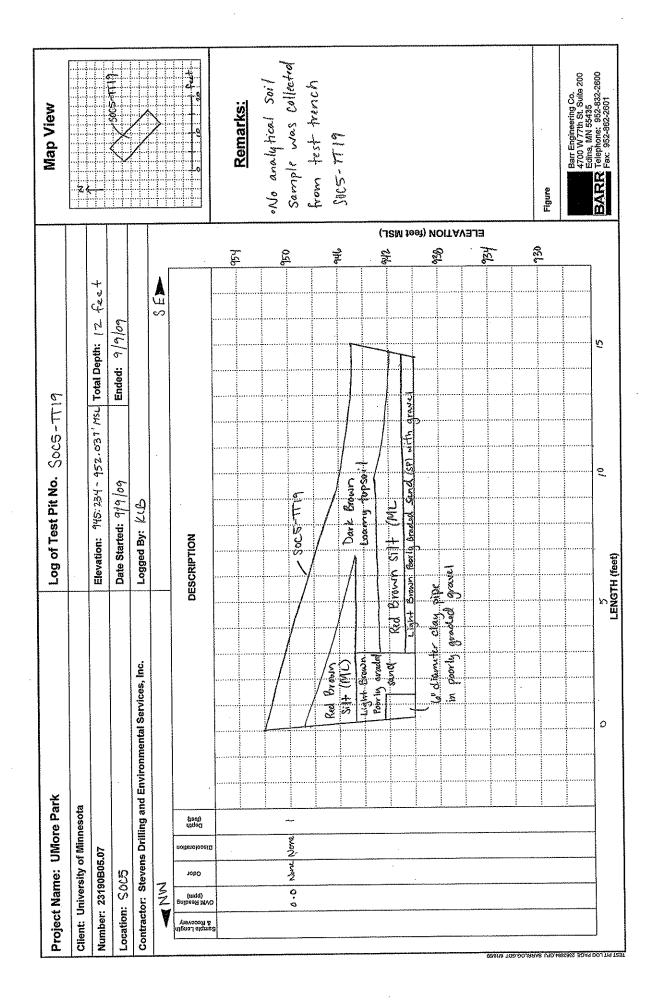


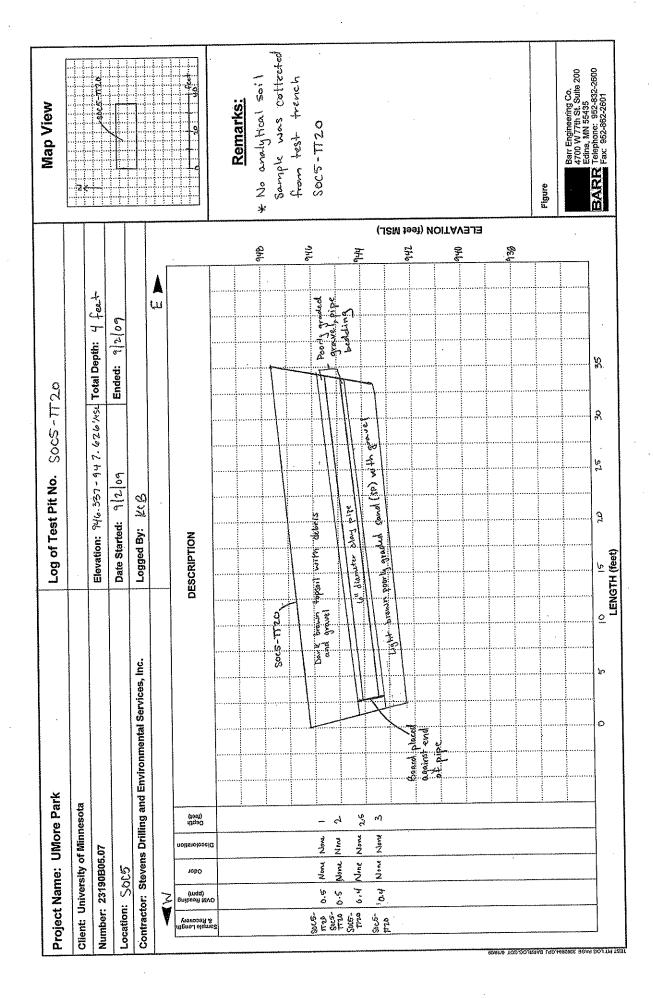


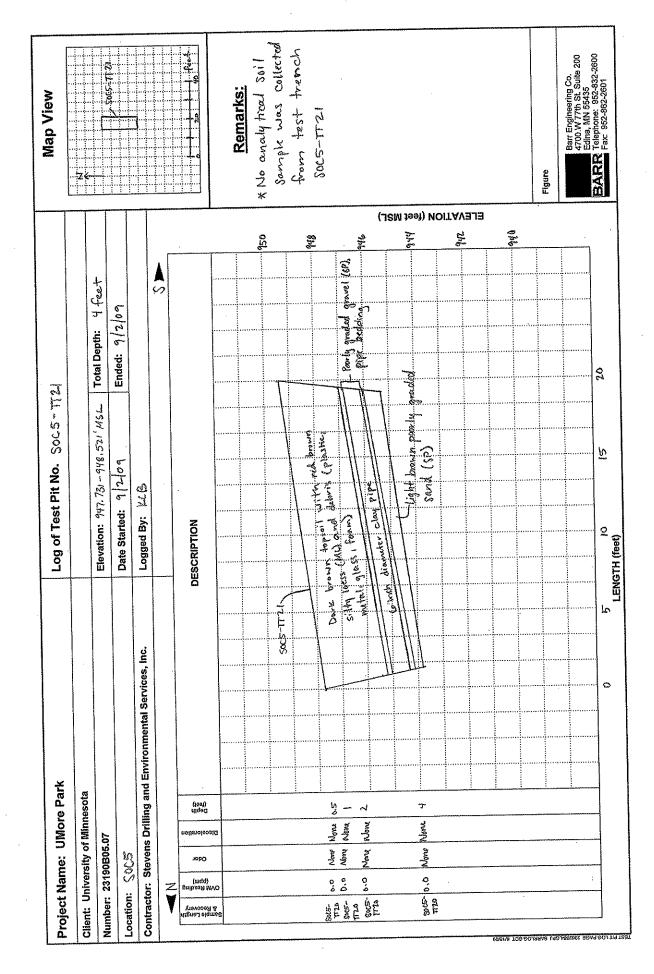
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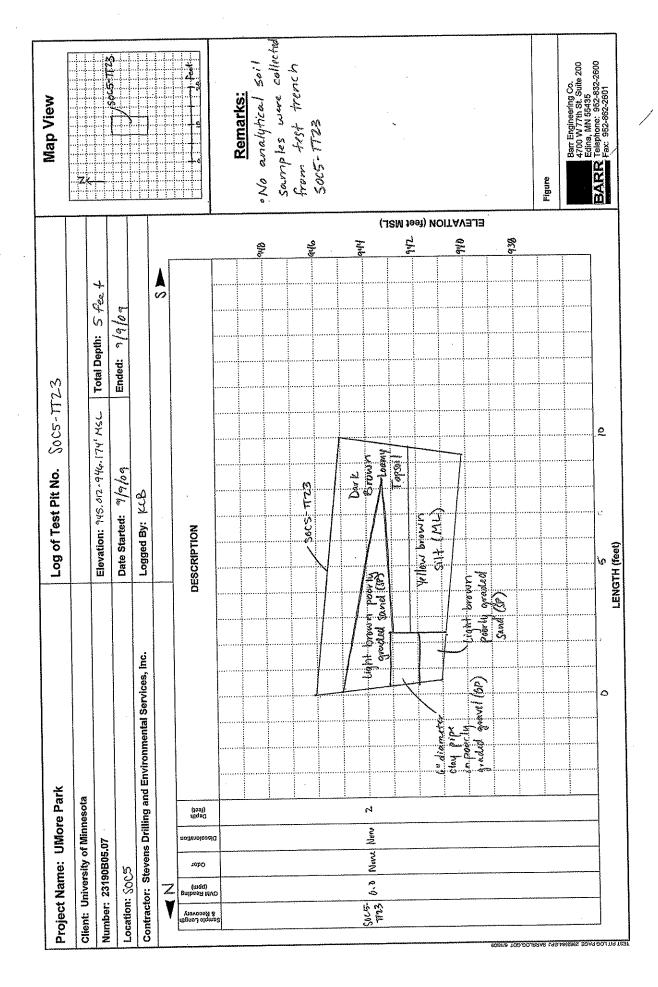


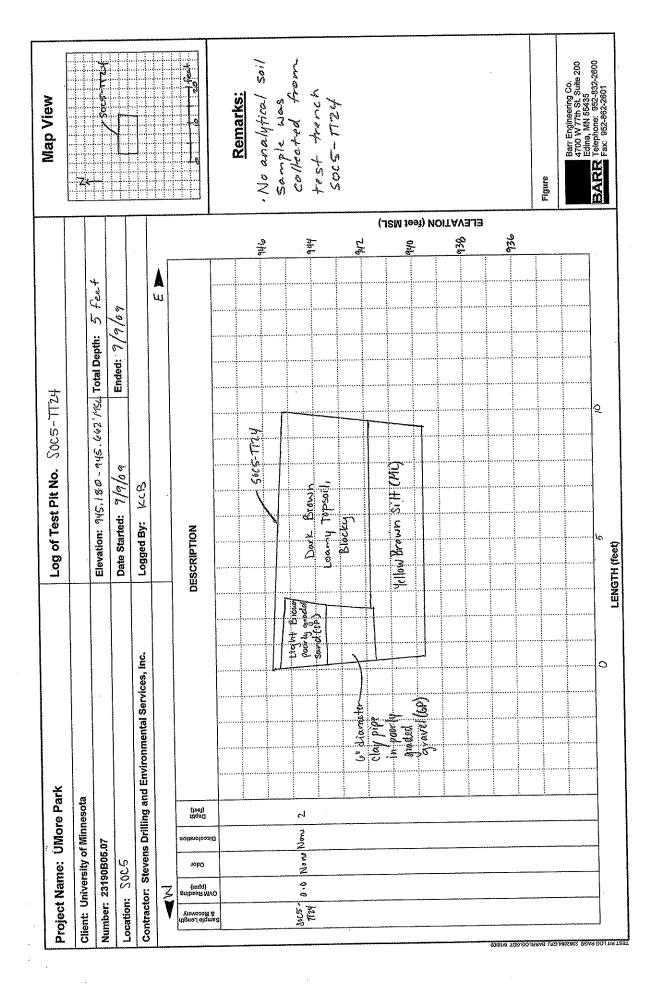


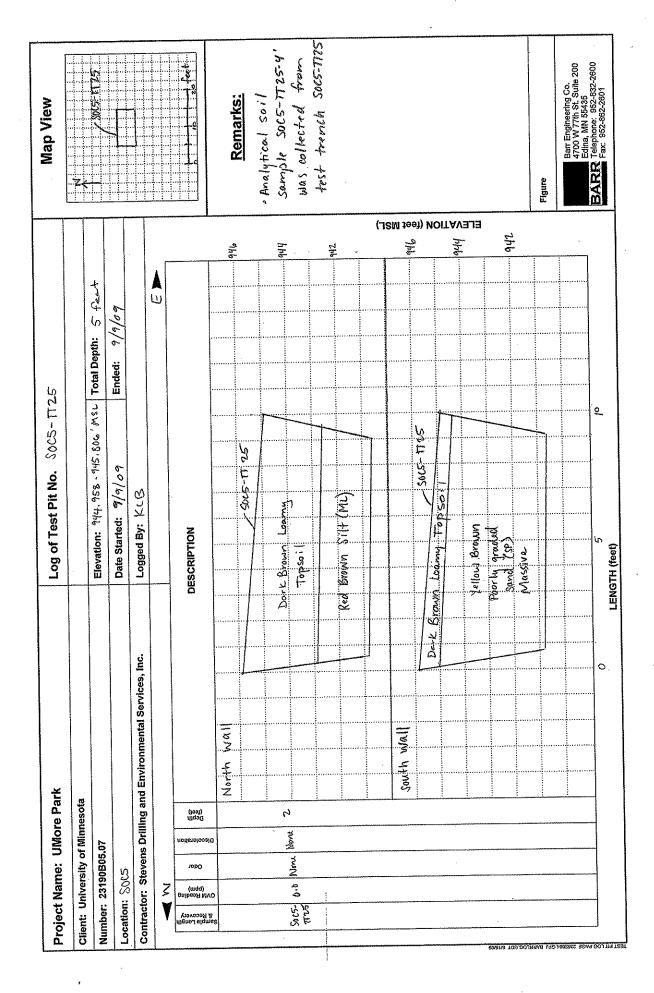
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-TT22-		MSL Total Depth: 10 रिकर	Ended: 7/2/09 - 9/3/09				dso Remarks:	(M1) + disins (M1) + disins (M	45 242 242 242 242 242 242 242 242 242 2	- No analytica	v ,	134 (16 Soc5-1122	erev	926 Figure	
Log of Test Pit No. Socs-TT 22		Elevation: 946.237-948.474' MSL	Date Started: 9/2/09	Logged By: K(&		DESCRIPTION		1727 Jannig Lopsoli with siltylocs (M3) Jannig Lopsoli with siltylocs	Poorly Acodes						
Project Name: UMore Park	Cilent: University of Minnesota	Number: 23190B05.07	Location: Coff	Contractor: Stevens Drilling and Environmental Services, Inc.	A Contraction of the second se	(400) (400) (400) (50) (5	10	A Port	Sucz- TTZ 0.0 Norac Nores 1 Secz- 0.0 Norac Nores 2	han	rithe Calibra 2				

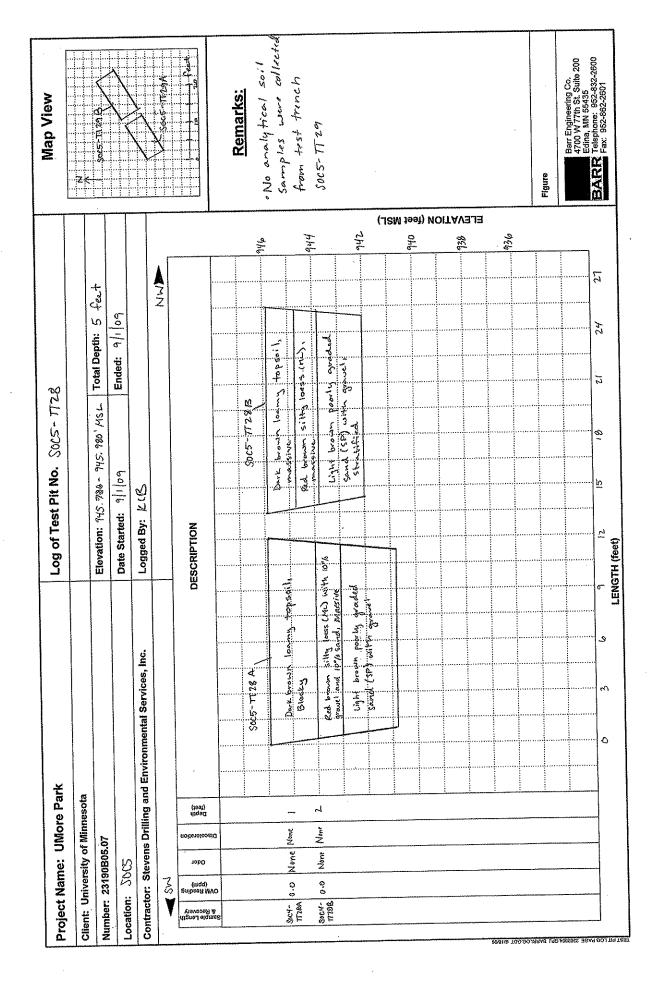


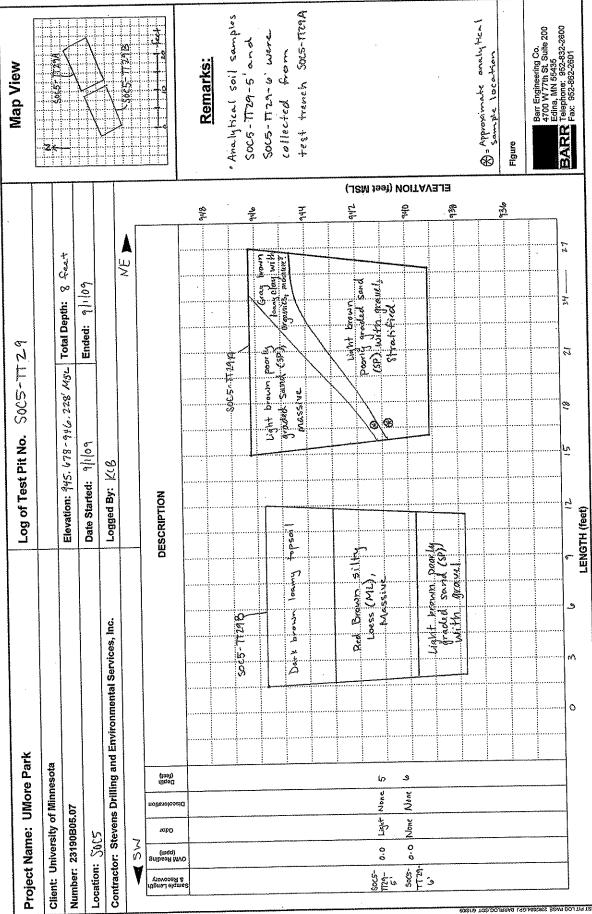


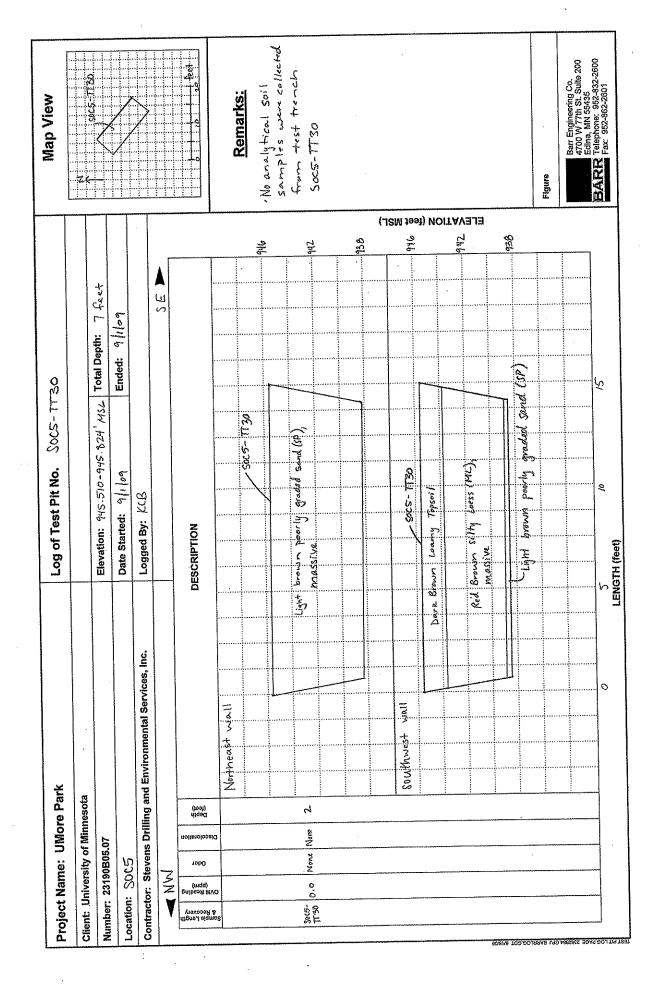


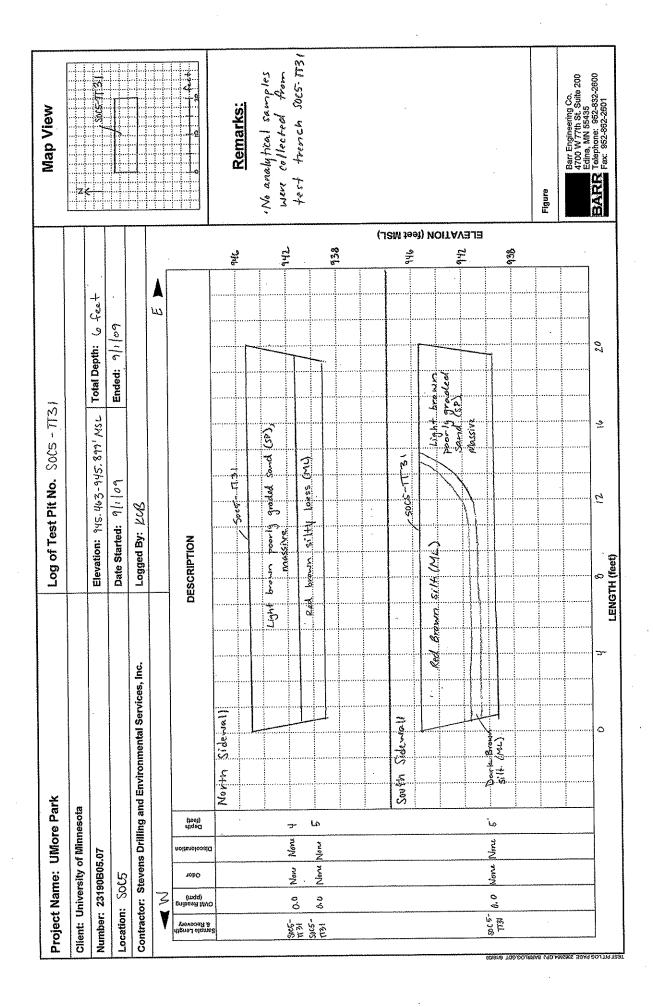
Project Name: UMore Park	OMO	re P.	ark	Log of Test Pit No. Socs - 1726	26	Wap view
Client: University of Minnesota	r of Min	neso	E.	ŀ		
Number: 23190B05.07	05.07			Elevation: 943.133 - 744.130 MSL	Total Depth:	
Location: S005				Date Started: 9/1/09	Ended: 9/1/09	
ntractor: Stev	ens Dri	lling a	Contractor: Stevens Drilling and Environmental Services, Inc.	Logged By: KCB		
Z					×	
ample Length & Recovery DVM Reading (ppm)	Discoloration	hiqaQ (1961)		DESCRIPTION		6 10 10 10 10 10 10 10 10 10 10 10 10 10
-	-	<u> </u>			2 	<u>Remarks:</u>
			Soc 5: T126 7		the state of the s	· No analytical soil campies where the
			Dark Brown Loans			from test moreh
Socs- 0.0 None	nine Nine		Tapsoily massive	Durk Brown	humeot	5005-7726
1		•	Red brown sitty	ppson, massive		
			nassive	Rich stration Silty	Si My Loess (ML)	
			- NO	d Mo		CM 1991)
Secs- TTURN 0.0 No	None None	و	gradeer with w	بنه ب		NOITA
					KE b	Figure
						Barr Engineering Co. 4700 W 77th St. Suite 200 Edina. MN 55435
				10 15: 20	25	BARR Telephone: 952-832-2600

Map View			12444	3		0.000	2 <u>Remarks:</u>	0	8 5025-7727		د 199î) V		132 ELU	130	Figure	Barr Engineering Co. 4700 W 77th St. Suite 200 Edina. MN 55435	AAA
		Total Depth: 13 feet	Ended: 9 1 09		\$		642	0 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2			8-2-1 8-2-1	2		43		°	
Log of Test Pit No. SOCS - TT2-7		Elevation: 940.675 - 940.793 MSL	Date Started: 9/1/09	Logged By: KLG		DESCRIPTION		n loamy tapsail. Massive	reaction to black	۲¢۲		ess (mc),					
				Contractor: Stevens Drilling and Environmental Services, Inc.		Ω		Darti	Dark brown Sithy Joes	2 / 1 / 2 / 2 / 2 / 2 / 2 / 2 / 2 / 2 /		silty locss (MG)					the second se
UMore Park	Client: University of Minnesota			lling and		diq90 (1891)	<u>;</u>	<u> </u>	: 	<u>}</u>	:	1	<u> </u>			:	
	of Mir	35.07		no Sne		Discoloration			16 Norie								
Project Name:	ersity	Number: 23190B05.07	005	Steve		Odor			G Nont								
ct Ni	Univ	er: 23	Location: SOC5	actor:	Z	(nqq) Bribestiy Sample Length Sample Length			0.0 5055-	·····							_

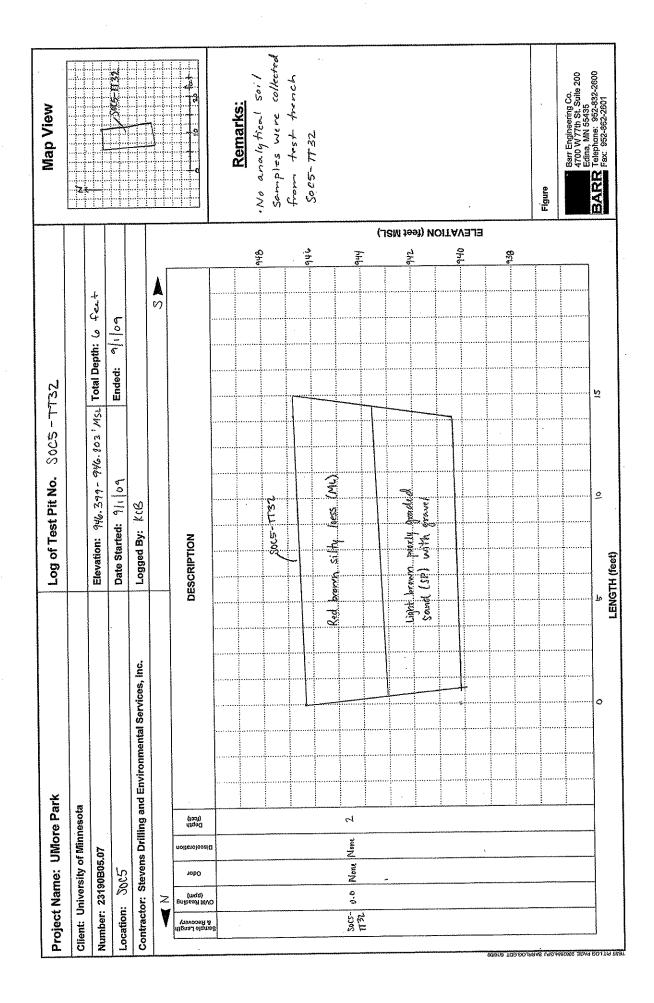


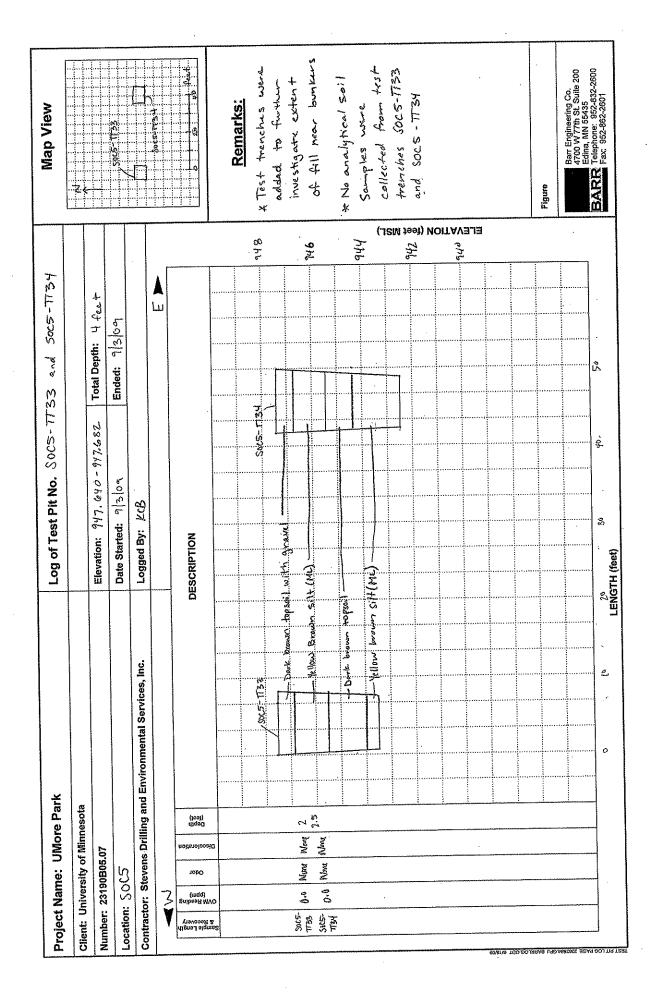






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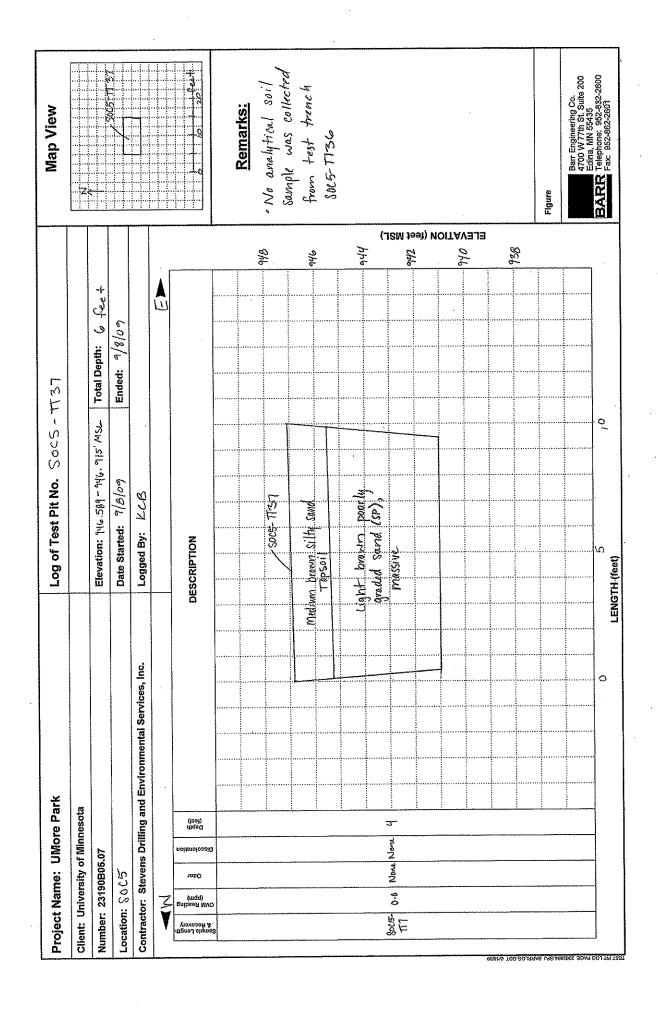




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	Log of Test Pit No. SoCS-7136	Wap view
 	Tratel Darth 2 Co. 4	
	Date Started: $\eta/B/o\eta$ Ended: $\eta/B/o\eta$	
Contractor: Stevens Drilling and Environmental Services, Inc.	Logged By: KtB	
	DESCRIPTION	
		Remarks:
	-17-2	948 × No analytical Soil
		Samples ware collected
	Mis /	946 from test treach
	diameter cley pipe in poorly graded	Soc5- 1735
	deel sand CCPD	* itst trend
		174 added to turtur
		TSIN 3
		DITA Bunker to lo
		No Conn
		Figure
		Barr Engineering Co. 4700 W17th St. Suite 200 Edina MN 55435
		BARR Telephone: 95

Map View			2000-1200				Remarks:	itest trench was	added to lurtour investigate floor drain in DNT	•		noit	ELEVAT	 Figure	BARR Teleptone. 95-2600	Fax: 952-862-2601
Log of Test Pit No. Soc5 - TT 36		Elevation: 946.780-947.097 122 Total Depth: Cofeet	Date Started: $3/8/07$ Ended: $3/8/05$	Logged By: KCS		DESCRIPTION		× 2065-1756	un si ltu sarid tapsoil with debris including glass + Matal	Light brown peerly graded serrid massive	Brown mighted sitt (MC)	brown poorly graded				0
Project Name: UMore Park	Client: University of Minnesota	Number: 23190B05.07	Location: SOCS		Z X	2 #Recovery Depth Depth Depth Depth Depth Depth Depth (foct)			Brain silty		6 Gray Brown	Sees- a O Name None to Sees				Q



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Light
Massive
with gravel, etration and co
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Prown peorly
light hown pourly graded soud, budded, is tratified
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TENCTU (50.4)

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<u>V</u>	akota	lo Donge Ma	Section No.		Ind SEALING RECORD Minnesota Unique Well No. or W-series No. (Leave black if not known) Date Sealed Date Well or Borigg Constructed
wnship Nam	e Township N		Section No. Frac	xion (sm. → ig.) ¼ ¼ ¼ ¼	$\frac{9}{9} = \frac{9}{10} = \frac{9}{10} = \frac{9}{10} = \frac{9}{10} = \frac{9}{10} = \frac{9}{10} = \frac{100}{100} = \frac{100}{1$
IPS	Latitude	degrees	minutes	seconds	Depth Before Sealing <u>44-63</u> ft. Original Depth <u>44-63</u> ft.
OCATION:	Longitude	degrees	minutes	seconds	AQUIFER(S) STATIC WATER LEVEL 9/1-9/1
1605	160 \$7.		Semount	L AAA	Well/BORING
	cation of well or be with "X."	ring	Sketch map o location, show	f well or boring inc proporty in buildings.	Env. Bore Hole Other 42-60 ft. Shelow above land surface
	N	/	Intestituaus a	buildings.	
		-	A.		Steel Kelastic Tile Other
w			- XX	¥t.	Outside: Well House
		160 Th	1++	4 + +	Pitless Adapter/Unit Buried Well Pit Buried Buried
	s				□ Well Pit □ Other
	1 Mile			1	CASING(S)
V. of	MN Kose	mount fil	Serick St	cated above	Diameter Depth Set in oversize hole? Annular space initially grouted?
1605	5 160	' 51. W	5		in. fromtoft. ∧ ↓ Yes □ No □ Yes □ No □ Unknowr
(sto	mount 1	m			in from to ft Yes No Yes No Unknown
WELL OWNE	R'S NAME COMPAN				
¢	ailing address if differe		wner's address ind	icated above	Screen fromtoft. OpenA-ble fromtoft.
	SAA				OBSTRUCTIONS
					Type of Obstructions (Describe)
		COLOR	HARDNESS OR	FROM TO	Obstructions removed? Yes No Describe
	ingigate estimated	/	FORMATION om nearby well or		РИМР
5:1h	5 Jul	Bn	mod	0	Type Removed Vot Present Other
U	m				METHOD USED TO SEAL ANNULAR SPACE BETWEEN 2 CASINGS, OR CASING AND BORE HOLE:
		· · · · · · · · · · · · · · · · · · ·			in from to ft Perforated Removed
					in. from to ft. Perforated, 21 B Removed
		1			
					Type of Perforator Cave Crassical Charles Charl
د 					Type of Perforator CL
					GROUTING MATERIAL(S) (One bag of cement = 94 lbs., one bag of bentonite = 50 lbs.)
					GROUTING MATERIAL(S) (One bag of cement = 94 lbs., one bag of bentonite = 50 lbs.)
			4		GROUTING MATERIAL(S) (One bag of cement = 94 lbs., one bag of bentonite = 50 lbs.)
			4		Grouting Material Mile Content from to 44-65 yards to be the second seco
					Image: Strain
REMARKS,	SOURCE OF DATA				Other
REMARKS,	SOURCE OF DATA				Other
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REMARKS,	SOURCE OF DATA				Other
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REMARKS,	SOURCE OF DATA	A, DIFFICULTIES	S IN SEALING		Image: state of the state
IMPORTA	SOURCE OF DATA	OPERTY		668	Image: structure to the best of my browledge. (Onebag of cement = 94 lbs., one bag of bentonite = 50 lbs.) Grouting Material MW/c from

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Client: U.o.f /	N		Мо	nitoring Po	ۍ sint:	0E4-6	API	
Location:	AGTI UMO	e Park	Dat	e: 9/-	1/09			
Project #: 23/19	- 805		San	nple Time:				
GENERAL				STABI	LIZATION	TEST		
Barr lock:	None							
Casing diameter:	1 ^	Time/ Volume	Temp. ⁰C	Cond. @ 25	pН	Eh	D.O.	Turbidity Appearance
Total well depth:*	44'	Advanced Sec nec	l ford	her to	55'	on 9	10/09	•
Static water level:*		See rec	V GU	mple.	sheet A	om the	t dat	te.
Water depth:*				/				
Well volume: (gal)								
Purge method:								
Sample method:								
Start time:		Odor:		M T 1				
Stop time:		Purge Appear	rance:					
Duration: (minutes)		Sample Appe	arance:					
Rate, gpm:		Comments:	DTW	= 44.80	5-1.5	= 43,2	35 01	2 9/9/07 @ 10
Volume, purged:		Į,	∂ <i>τ</i> ω=	44.60	-1.5	= 43.1	0 01 '	9/10/09 @ 00
Duplicate collected?	No		'n suf	ficient	wite	n to	sam	9/10/09 @ 0= 0 k
Sample collection by:	ESC	CO2-		12-	Fe(T		Fe2-	
Others present: Math	ix (Guy, Pat) Well Co	ondition:					
MW: groundwater monitor	ing well WS: water	supply well	SW: sur	face water	SE: sedir	nent ot	her:	unt
VOC Comi volat	lle- gene	ral- nu	trient-	cyanid	le-	DRO-	Sulfide	-
oil,grease- bacter	ia- total	metal-	filtered	metal-X	- met	hane-	filte	er-
Others:	Decolular	to sil	call.	Lace				



,

Client: Uof /	n		Mor	itoring Po	ک :bint	OC4-	GPI	
Location: 400	& GOLX UME	me Part	Date	e: 9-11	1-09	,,,,,,,,		
Project #: 23	119-1305			ple Time:	090	20		
GENERA				STABIL	IZATION	TEST		1
Barr lock:	Nonl	-						
Casing diameter:	1"	Time/ Volume	Temp. ℃	Cond. @ 25	рН	Eh	D.O.	Turbidity Appearance
Total well depth:*	55'							
Static water level:*	54.9			·.				
Water depth:*	0.1							
Well volume: (gal)								
Purge method:								
Sample method:								
Start time:		Odor:						
Stop time:		Purge Appe	earance:					
Duration: (minutes)		Sample App	pearance:					<u></u>
Rate, gpm:		Comments:	Insur	ficien	twite	ED	samp	n e
Volume, purged:								
Duplicate collected?	Norl							
Sample collection by:		CO2-	Mr	12-	Fe(T)-	Fe2-	
Others present:		Well	Condition:					AA CAC BALL
MW: groundwater monito	ring well WS: water	supply well	SW: sur	ace water	SE: sedim	ient o	ther:	net
VOC- semi-vola	tile- gene	ral- r	nutrient-	cyanid	le-	DRO-	Sulfide	-
oil,grease- bacte	ria- total	metal-	filtered	metal-	meth	nane-	filt	er-
Others:								



Client: Uof M	1	<u></u>	N	Ionitoring Po	oint: کی	DC4-	GP4	
Location: UMON	e Park			· · · · ·	-10-09			
Project #: 23/[9-305		5	ample Time	: 1500)		
GENERAL				STABI	LIZATION	TEST		
Barr lock:	None							
Casing diameter:	1"	Time/ Volume	Temp °C	. Cond. @ 25	pН	Eh	D.O.	Turbidity Appearance
Total well depth:*	601							
Static water level:*	56.7-2.37= 54.33		- · ·					
Water depth:*	6.67							
Well volume: (gal)	0.27							
Purge method:	0.27 Check value Chech							
Sample method:	Check value							
Start time:		Odor: N					· w	
Stop time:		Purge Appe	arance	Tan, op	aque,	clearin	19	
Duration: (minutes)		Sample App	earanc	: Clou	hy '			
Rate, gpm:		For ML Comments:	fals All	M Placed	ILin	unph	esered	plastic
Volume, purged:	Igal		bo	Her the Al	lt the s	silt se h·[teres	A then	plastic decasted placed St le.
Duplicate collected?	No		n	I in the	nesna	L plan	hic bott	<i>le</i> .
Sample collection by:	ESC	CO2-		Mn2-	Fe(T		Fe2-	
Others present: Mar	nx (Guy + Pat) Well (Conditio	n:			- La	
MW: groundwater monitor	ing well WS: water	supply well	SW:	surface water	SE: sedin	nent o	ther:	well
VOC- semi-volat	ile-X gene	ral- n	utrient-	cyanic	de-	DRO-	Sulfide	-
oil,grease- bacter	ia- total	metal-	filter	ed metal-X	metl	nane-	filte	ər-
Others: Nitroge/	Nitrocerlule	rsl			<u>, .,</u>			



Client: Unof	M		Мо	nitoring Po	ۍ sint:	OC &	- GRE	5
Location: UM	love Park		Da		9-10		<u></u>	
Project #: 23 //9			Sa	mple Time:				
GENERAL			I	STABI		TEST		
Barr lock:	None							
Casing diameter:	1 "	Time/ Volume	Temp. °C	Cond. @ 25	pН	Eh	D.O.	Turbidity Appearance
Total well depth:*	62							
Static water level:*	53.62-1.78 =51.84							
Water depth:*	10.16							
Well volume: (gal)	0.41							
Purge method:	Check value							
Sample method:	Chech value Chech value							
Start time:		Odor:	None					
Stop time:		Purge Appe	earance:	Tan to	paque	but clea	ring	quickly
Duration: (minutes)		Sample App	pearance:	Cloudy	,			
Rate, gpm:		Comments:	For m	Cloudy tals san	nple: S	ettled -	> Siph	ored >
Volume, purged:	Igal				F	i livea.	> 110	SUVER
Duplicate collected?	No							
Sample collection by:	ESC	<u>CO2-</u>	N	1n2-	Fe(1	¯)-	Fe2	-
Others present: Mar	trix Clary, Part) Well	Condition				to	no anal 1 3
MW: groundwater monitor	ing well WS: water	supply well	SW: su	rface water	SE: sedi	ment o	ther:	ney
VOC- χ semi-volat	tile- X gene	eral- r	nutrient-	cyanic	le-	DRO-	Sulfide)-
oil,grease- bacte	ria- total	metal-	filtered	l metal- 🗙	mel	hane-	fill	ter-
Others: Nitrage	n Nitrocel	lulase						

*Measurements are referenced from top of riser pipe, unless otherwise indicated.

1 Version: April 2004 UMP018416



Client: Uofh	Λ		Mor	itoring Po	oint: Sa	205.	-GP1	
Location: SOC	,5		Date	e: "	9-2-6	29		
Project #: 23((9-0305		Sarr	ple Time:		150		
GENERAL	DATA			STABIL		TEST		
Barr lock:	nore		-					
Casing diameter:	1"	Time/ Volume	Temp. °C	Cond. @ 25	рН	Eh	D.O.	Turbidity Appearance
Total well depth:*	24'							
Static water level:*	19.02-1.12=							
Water depth:*	6.10							
Well volume: (gal)	0.2501							
Purge method:	Check value			- 				
Sample method:	Choch value							
Start time:	0950	Odor: No	ne					
Stop time:		Purge Appea	irance:	Tan m	uddy_	-504	5	
Duration: (minutes)		Sample Appe	earance:	Almost	clear	- 20f	-5	
Rate, gpm:		Comments:	Collecte	d grak	t dup	for	pestici	des,
Volume, purged:	∂gal Yes (sc		then	grabt d	s/ms0	n 9-3	3-09	
Duplicate collected?	Yes (so	$c 5 - D_{J}$	p1)	Field 1	Altered	L .		
Sample collection by:	ESC	CO2-		12-	Fe(T		Fe2-	
Others present:	Natrix	Well C	condition:					
MW: groundwater monitor		supply well	SW: sur	face water	SE: sedir	nent o	ther:	mpory nell
VOC- X semi-volat	iile- X Dit	rat X nu	utrient-	cyanic	le-	DRO-	Sulfide	-
oil,grease- bacte	ria- total	metal-	PF filtered	۳ metal- X	met	hane-	filt	er-
Others: Perchlora	te, Ni tracellu	lose, Li	5+ 1+ 2	Pest.	OCF	estici	des	



Client: UJ /	M		Mor	itoring Po	oint: <i>SO</i>	<u>(5</u> -	GPZ	
Client: U.J. M Location: So	205		Date				3-09	
Project #: 23//9	-B05		Sam	ple Time:	290	6	•	
GENERAL	DATA			STABI		EST		
Barr lock:	None							
Casing diameter:	1 "	Time/ Volume	Temp. °C	Cond. @ 25	рН	Eh	D.O.	Turbidity Appearance
Total well depth:*	46'						-	
Static water level:*								
Water depth:*								
Well volume: (gal)								
Purge method:								
Sample method:								
Start time:		Odor:	None					
Stop time:		Purge Appe	earance:					
Duration: (minutes)		Sample App	pearance:		*		3 4	t
Rate, gpm:		Comments:	Dry c	n q z	109 inn	redian	fely as	ter dri llin
Volume, purged:			Dry or	1 9/3/0	09 0 0	900		
Duplicate collected?	No		Not	samp	led			
Sample collection by:	ESC	CO2-	Mr		Fe(T)-		Fe2-	1
Others present: Mad	nx (huy, Pat)	Well	Condition:				40	MARCALY
MW: groundwater monitor	,	supply well	SW: sur	ace water	SE: sedime	ent d	ther:	well
VOC- semi-volat	ile- gene	ral- r	nutrient-	cyanic	de- D	RO-	Sulfide	-
oil,grease- bacter	ria- total	metal-	filtered	metal-	metha	ane-	filt	er-
Others:								



Client: Wof	March Jam		Mor	nitoring Po	bint: C	= P-3.	N S S		<u>.</u>
Location: Soc			Dat	e: 9	-3-09	to	<u>a/a/c</u>	27	
Project #: 23((9- 305		San	nple Time:	1100)			
GENERAL	DATA	-		STABI		TEST		Antonio S. Generalista Antonio Antonio S.	-
Barr lock:	nore		-					Turbidity	
Casing diameter:	L ¹¹	Time/ Volume	°C	Cond. @ 25	pĻ	Eh 🕓	D.O.	Appearance	1. 1. 1.
Total well depth:*	50						1	2 · · · · · · · · · · · · · · · · · · ·	- 0
Static water level:*	40.36 42.53-2.17		Second Second		110 10				-
Water depth:*	9.64					No. Contraction	A the stage of the	eta 1 <u>3</u> Serve Congressional Congression	
Well volume: (gal)	0.40					i .		· •	
Purge method:	check value								-
Sample method:	Check value								-
Start time:	1100	Odor: A	R						-
Stop time:		Purge Appear	ance:	tan, o	gague				-
Duration: (minutes)		Sample Appea		•	8			1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1. 1	-
Rate, gpm:		Comments:	Porged	Le 100	20 1 halfur	w) @ 11	00		
Volume, purged:	0.5gal No		Collect	ted 1 L	C lloc		Q 1500] List 1	421
Duplicate collected?	No		-16	6 12-		- •		o List 1.	
Sample collection by:	ESC	CO2-	М	n2-	Fe(Г)-	Fe2-	(over	Hor -
Others present: Ma	tix	Well Co	ondition:						_
MW: groundwater monitor	ring well WS: water	supply well	SW: su	face water	SE: sedi	ment of	ther:	aci	Д
VOC- X semi-vola	tile- X gene	ral- nut	trient-	cyani	de-	DRO-	Sulfide	-	-
oil,grease- bacte	ria- total	metal-	filtered	metal- X	me	thane-	filt	er-	_
Others: List	1+ 2 Pestic	ides, OC	-Pest	icides	Nito	gen, l) itroge	ildase	



Client: 105W	١		Mon	itoring Po	<u>ک</u> :oint	225-	6P4	
Location: SOC	5-GP4 6	etston	- Date		-1-09			
Project #: >3	19-0305		Sam	ple Time:	090	0		
GENERAL	. DATA			STABI	LIZATION	TEST		
Barr lock: Na	temporary well							
Casing diameter:	ر ۳	Time/ Volume	Temp. °C	Cond. @ 25	рН	Eh	D.O.	Turbidity Appearance
Total well depth:*	52							
Static water level:*	5.3 K							
Water depth:*	S.3 47.2-2.5= 46.7							
Well volume: (gal)	0.22							
Purge method:	Check alve							
Sample method:	Check value					I		
Start time:		Odor:	one					
Stop time:		Purge Appe	arance:	opaque	tan	5 e	,f5	
Duration: (minutes)		Sample Apr	bearance:	3.5 .	1 5			
Rate, gpm:		Comments:	field	filtered	d met	uls		
Volume, purged:	3 gallons 3 volumes							
Duplicate collected?	No							
Sample collection by: ٤	SC Matrix	CO2-	Mr	12-	Fe(T)-	Fe2-	
Others present: Ma	utix	Well	Condition:					
MW: groundwater monitor	ing well WS: water	supply well	SW: sur	face water	SE: sedin	nent o	ther:	well
VOC- X semi-volat	ile- X gene	ral- r	nutrient-	cyanio	de-	DRO-	Sulfide	-
oil,grease- bacter	ria- total	metal-	filtered	pL metal- X	met	hane-	filt	er-
Others: Pesticia	les (OC and	1+2) · Ni-	Nogen;	Nitro	cellula:	Se	



Client: 11.0-	Client: U.o.FM Location: # SOCS UMore Pork					Monitoring Point: SOCS-GP9						
Location:	SOCS U	More Pork	Date	Date: 9-9-0 9								
Project #: 23/	19-B05		Sam	ple Time:								
GENERAL				STABIL	IZATION	TEST						
Barr lock:	None											
Casing diameter:	1"	Time/ Volume	Temp. ℃	Cond. @ 25	рН	Eh	D.O.	Turbidity Appearance				
Total well depth:*	£ 53'											
Static water level:*	- 2.1											
Water depth:*	· · · · · · · · · · · · · · · · · · ·											
Well volume: (gal)												
Purge method:												
Sample method:	· · · · · · · · · · · · · · · · · · ·											
Start time:	· · · · · · · · · · · · · · · · · · ·	Odor: N	orl									
Stop time:		Purge Appear	ance:									
Duration: (minutes)		Sample Appe	arance:				13 0					
Rate, gpm:		Comments:	Pry	on 9/	9/07 im	media	tely att	er drilling				
Volume, purged:			Pry 2	m 9/10/0	900	F30.						
Duplicate collected?	No		<u>N07</u>	_samp	ea.							
Sample collection by:	236	CO2-	Mr	12-	Fe(T)	-	Fe2-					
Others present: Mac	nix Couy, Pat) Well Co	ondition:				For	AADTAL				
MW: groundwater monitor	ing well WS: water	supply well	SW: sur	face water	SE: sedim	ent c	other:	nell				
VOC- semi-volat	tile- gene	eral- nu	trient-	cyanic	de-	DRO-	Sulfide	-				
oil,grease- bacte	ria- total	metal-	filtered	metal-	meth	ane-	filte	er-				
Others:												



Client: Uof	- M		Mon	Monitoring Point: SOC5-GP10						
	SOLS		Date	Date: 9-8-09						
	3/19-305		Sam	Sample Time: (300						
GENERAL				STABIL	IZATION	TEST	1			
Barr lock:	No									
Casing diameter:	l "	Time/ Volume	Temp. ℃	Cond. @ 25	рН	Eh	D.O.	Turbidity Appearance		
Total well depth:*	68' 63.18-2.75=									
Static water level:*	63.18-2.78									
Water depth:*	7.57						-			
Well volume: (gal)	0.31									
Purge method:	Check value Check value									
Sample method:	check value			ý						
Start time:	1300	Odor:	None							
Stop time:	1400	Purge Appe	earance: 1	Tan, op	aque_	but c	learing	quickly		
Duration: (minutes)		Sample Ap	pearance:	Clov	dy			•		
Rate, gpm:	· · · · · · · · · · · · · · · · · · ·	Comments	Field	. filtere	d m	tals				
Volume, purged:	Igal		Grout Alle	ed up to pomp	on 9 indet	18/09 Stelu				
Duplicate collected?	NO	-	noe		o moder	7				
Sample collection by:	EBC	CO2-	Mi	12-	Fe(1	-)-	Fe2-	-		
Others present: M	Others present: Matrix Well Condition:									
MW: groundwater monito	MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:									
VOC-X semi-vola	tile- X Vity		nutrient-	cyanic	de-	DRO-	Sulfide	}-		
oil,grease- bacte	eria- total	metal-	filtered	metal- 🗙	me	hane-	fill	er-		
Others: Nitroc										



Client: Uof M				Monitoring Point: SOC5 - GP11							
Location: 🙀 S	065		Date	Date: 9-9-09							
	19-305		Sam	Sample Time: 0900							
GENERAL	DATA			STABIL	IZATION	TEST					
Barr lock:	None	4									
Casing diameter:)"	Time/ Volume	Temp. °C	Cond. @ 25	pН	Eh	D.O.	Turbidity Appearance			
Total well depth:*	68'		•								
Static water level:*	61.24										
Water depth:*	6.76										
Well volume: (gal)	0.27			ę							
Purge method:	check value										
Sample method:	Check value Check value										
Start time:			Vone								
Stop time:		Purge Appe Sample App Comments:	arance: -	Tan, of	ague,	g clear	ing 7	uickly			
Duration: (minutes)		Sample App	earance:	<u> </u>	vdi/						
Rate, gpm:		Comments:	Field	filtered	('	defiri	tely				
Volume, purged:	Zgal		Able	to produ		0.0.1	0				
Duplicate collected?	No										
Sample collection by:	EBC	CO2-	Mr	12-	Fe(T)-	Fe2-				
Others present: Guy, Pat (Matrix) Well Condition:											
MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:											
VOC- X semi-volatile- X general- nutrient- cyanide- DRO- Sulfide-											
oil,grease- bacteria- total metal- filtered metal-X methane- filter-											
Others: Listl+											



Barr Engineering Company Field Log Data Sheet

Client: UMO	<u>RE</u>		Monitoring Point: WSW - 207607							
Location: Ro.	Sennount	70	Dat	te: 9	15/09	>				
Project #: Z3/	19-0B0560	JAS	Sai	Sample Time: 1235						
GENERAL				STABILIZATION TEST						
Barr lock:	no lock									
Casing diameter:		Time/ Volume								
Total well depth:*		1200	1200 9.79 561 7.36 76 3.49 clea							
Static water level:"		[210	9.75	558	7.35	82	3.38	6(
Water depth:*		1220	9.71	555	7-34	85	3.30	L		
Well volume: (gal)										
Purge method:	Dedicated Grab									
Sample method:	Grab									
Start time:	1150 Odor: none letected									
Stop time:	1220	Purge Appe	arance: (lear			, 			
Duration: (minutes)	30 .	Sample App	earance:	clear						
Rate, gpm:	= 10-15	Comments:	M≤	/msl) <i>Co</i>	leFe	ed a	2		
Volume, purged:	300-450100	1		U 207						
Duplicate collected?	ms/msp	•								
Sample collection by:	KSY	CO2-	M	n2-	Fe(T))-	Fe2-			
Others present:	· · · · · · · · · · · · · · · · · · ·	· ·						-		
WELL INSPECTION (answ	ver for each category, s	tate if lock rep	laced, detail	any repairs r	ieéded on ba	ack of form)				
CASING & CAP:	CASING & CAP: COLLAR: LOCK: OTHER:									
MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:										
voc-9 semi-volati	voc-9 semi-volatile-12 general-3 nutrient-2 cyanide- DRO- Sulfide-									
oil,grease- bacter	ia- total r	netal-	filtered	metal-	meth	ane-	filte	۲-		
Others:					•					

'Measurements are referenced from top of riser pipe, unless otherwise indicated.

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Barr Engineering Company Field Log Data Sheet

Client: UMC	RE	****	Мо	nitoring Po	oint: 10	SW - :	2084	02	
Location: Ros	Senount		Dat		115/0	-			
Project #: 23/19	7-0805 F	21 200	San	ple Time:	. 14	00			
GENERAL	DATA		· · · · · · · · · · · · · · · · · · ·	STABI	LIZATION	TEST	_		
Baπ lock:	no lock	• •		-					
Casing diameter:		Time/ Volume	Temp. "C	Cond. @ 25	рH	Eh	D.O.	Turbidíty Appearance	
Total well depth:*		1320	9:54	564	7.28	96	0.25	Clear	
Static water level:*		1330	9.95	564	7.27	88	Ø,60	"	
Water depth:"		1390	9,97	564	720	<u>81</u>	\$.36	łi –	
Well volume: (gal)		1350	10.04	563	7.20	77	9.30	<i>lt</i>	
Purge method:	Dedicated								
Sample method:	Grab								
Start time:									
Stop time:	1350	Purge Appe		lear	······				
Duration: (minutes)	40 .	Sample App	Address of the owner owner owner	Clew			<i></i>		
Rate, gpm:	58	Comments:	WSW.	. 2084 Dould	102:0	olles	red f	rom	
Volume, purged:	320 Jal	Spigo	50	build	iý fi	rout,	diret	\$ly	
Duplicate collected?	No	fro	m ta	p.					
Sample collection by:	KSJ	CO2-	Мп	2-	Fe(Ť)	+	Fe2-		
Others present:	· · ·	· ·							
WELL INSPECTION (answ	er for each category, s	tate if lock repi	laced, detail	any repairs n	eeded on ba	ick of form)			
CASING & CAP:	COLL	AR:	• •	LOCK:			OTHER;		
MW; groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:									
voc-3 semi-volatil	ie- <u>5</u> gener	al-1 n	utrient- (cyanid	e- [DRO-	Sulfide-	···	
oil,grease- bacteria- total metal- / filtered metal- methane- filter-									
Others:	, ,		· ·						

'Measurements are referenced from top of riser pipe, unless otherwise indicated.

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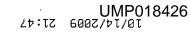


Barr Engineering Company Field Log Data Sheet

Client: UMO	RE .	· · · · ·	Mo	nitoring P	oint: W.	SW-	2084	05		
Location: Ro	Semount		Dat	~	15/0	9	<u></u>			
Project #: 23/1	9-0BOS,175	(R) ZOO	Sar	nple Time	: 15	15	·			
GENERAL	DATA			STABILIZATION TEST						
Barr lock:	no lock	· .								
Casing diameter:		Time/ Volume	Temp. °C	Cond. @ 25	рН	Eh	D.O.	Turbidity Appearance		
Total well depth:*		1450	9.44	693	2.21	109	Ø63	clear		
Static water level:*		1500	9.41	595	71/8	103	Ø.59	ч		
Water depth:*		1510	9.40	597	7.17	101	0.61	11		
Well volume: (gal)		4				· · · · · · · · · · · · · · · · · · ·				
Purge method:	Dedicated 6rab		·					:		
Sample method:	6rab									
Start time: 14/4/0 Odor: none detected										
Stop time:	1510	Purge Appe	arance:	clear	`					
Duration: (minutes)	30	Sample App	earance:	Claw	· .					
Rate, gpm:	₹8.	Comments: Fap	WSU	1-2.08	405	cioli	le De	I I I		
Volume, purged:	240 Jul	tap	e b	ack .	st h	ou se				
Duplicate collected?	20									
Sample collection by:	KST	CO2-	Mn	2-	Fe(T)	-	Fe2-			
Others present:	· · · · · · · · · · · · · · · · · · ·	· ·		, 						
WELL INSPECTION (answ	er for each category, si	ate if lock repl	aced, detail	any repairs n	eéded on ba	ick of form)				
CASING & CAF:	COLLA	NR:	•	LOCK:			OTHER:			
MW: groundwater monitorin	WW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:									
voc-3 semi-volatil	e- 6 gener	al- I ni	utrient-	cyanide	≥ 〔	DRO-	Sulfide-			
oil,grease- bacteri:	a- total n	netal-	filtered r	netal-	meth	ane-	filter	<u>. </u>		
Others:										

'Measurements are referenced from top of riser pipe, unless otherwise indicated.

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BARR ENGINEERING COMPANY METER CALIBRATION SUMMARY.

4064232676

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PROJECT U-MORE

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WEATHER CONDITIONS

Wind	Wind Speed	Temperature F	Cloud Cover	Comments
		62-84	20%	
			· · · ·	
		· · · ·		
		1		
		1		e transformer en
		, 1		
- · · ·		1		
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Barr Engineering Company Field Log Data Sheet

Client: UMO	Client: UMORE Monitoring Point: WSW 207605									
	semount			Monitoring Point: WSW 207605 Date: 9/29/09						
Project # 23/	19-0BOSSIR	1 300	·~~		le Time		Ser -	al,		
GENERA	L DATA		~~~~ <u>~</u>	***		ILIZATION	TEST			
Sam lock:	none	· ·			· · · ·	T			· · ·	
Casing diameter:		Time/ Volume	Temp. °C		Cond. @ 25	рH	Ęh	D.O.	Turbidity Appearance	
Total well depth:*		1100	R.1	0 3	530	1,32	-44	1107	clear	
Static water level:*	· · ·	1110	11,5	93	28	7.38	- 27	1.00	<i>It</i>	
Water depth:*		1120	1.10	25	2.9	7.35	-48	Ø,98	11	
Well volume: (gal)		1/30	10,40	0 5	30	7.37	-45	1.03	4	
Purge method:	Dedicated	1140	/8.89	1 5.	31	7,39	-41	.97	:	
Sample method:	Grab	1/50	10.74	5	32	7.40	-43	1.0Z	h	
Start fime;	1050	Odor:	<u>none</u>	d	ete	cted	,		· · ·	
Stop time:	1150	Purge Appea	nance:	ĊĽ	Lar.					
Duration: (minutes)	60.	Sample Appe	, earance:	C	lear					
Rate, gpm:	= 1510	Comments:				1		- • • • • • • • • • • • • • • • • • • •	· · ·	
Volume, purged:	= 600 gel			•			. ,	,		
Duplicate collected?						,				
Sample collection by:	KSJ	CO2-	M	n2-		Fe(T)-		Fe2-		
Others present:	· ·								· · ·	
WELL INSPECTION (answe	r for each category, sta	tte if lock replac	ed, detail	l àny re	pairs, ne	eded on bac	k of form)			
CASING & CAP:	COLLAI	2	· ·	L	OCK:		, 	OTHER:		
MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:										
voc- <u>3</u> semi-volatile	<u>8</u> general	1- 1 nutr	nont-	/	yanide-	DF	30-	Sulfide-	· · · · · · · · · · · · · · · · · · ·	
oil,grease- bacteria-	- totel me	ebsl-	filtered i	metal-		methar)e-	កែដែះ	, ,	
Others:	·. ·.	•	9			,	,			

'Measurements are referenced from top of riser pipe, unless otherwise Indicated.

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Barr Engineering Company Field Log Data Sheet

Client Linto	e.E.	Monitoring Point LEWSU - 207607							
Location: ROS	emount		Date: 9/30/09						
Project #: 23	19-07305511	ei 300	Şa,	mple Time		The Value of Lot			
GENERA	LDATA		STABILIZATION TEST						
Barr lock:		· ;							
Casing diameter:		Time/ Valume	Temp. °C	Cond. @ 25	рH	Eh	D.O.	Turbidity Appearance	
Total well depth:*	·	1345	fr ~	552	7.38	122	2,76	claw	
Static water level?"		1315	9.49	557	7.34	115	z.59	•1	
Water depth:*									
Well volume: (gal)	· · · · · · · · · · · · · · · · · · ·								
Purge method:	Dedicated							·	
Sample method:	Gram								
Start time:	1335	Odor: 7	one.	<u>clear</u>	free est		·······		
Stop time:	1355	Purge Appe	ಶಿಗ್ರಾರ್ಯ:	clear		••			
Duration: (minutes)	20	Sample App	earance:	class	<u>`````````````````````````````````````</u>	• • • • • • •			
Rate, gpm:	²⁹ 15	Comments:	•		:	<u> </u>	. .		
Volume, purged:	~ 300 gal	Re-	colle	J 100	kisna t	vr Li	: \$7 2	~	
Duplicate collected?	ms/msD	1	,	,					
Sample collection by:		CO2-	Мл	2-	re(1)-		Fe2-		
Others present:	, , ,	، بر		·	^		·····		
WELL INSPECTION (answ	er for each category, st	ate if lock repla	nted, detail	any repairs ne	eded on bac	k of form)			
CASING & CAP: COLLAR: LOCK: OTHER:									
MW: groundwater monitorin	IW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:								
voc- semi-volatil	e- <u>6</u> genera	al- nu	tnent-	cyanide	- <u>D</u>	R0-,	Sulfide-	, ,	
oil,grease- bacteri:	a- total m	ietsl-	filtered n	netal-	metha	n o -	filter-		
Others:			i		•				

'Measurements are referenced from top of riser pipe, unless otherwise indicated.

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Barr Engineering Company Field Log Data Sheet

and the second state of th									
	emount		Da	te: 9	130/0	79			
Project #: 23/	19-0B05 S/RI	3070	Sa	mple Time	: 15.	10			
GENERA	LDATA			STABI	LIZATION	TEST	,		
Barr lock:								· · ·	
Casing diameter:		Time/ Volume	Temp. °C	Cond. @ 25	PH	Eh	ס.ס.	Turbidity Appearance	
Total well depth:"		14.50	9.54	583	7.43	141	1.09	Cler	
Static water level:*	· ·	1500	9.65	587	7.45	149	,98	<i>v1</i>	
Water depth:*									
Well volume: (gal)				· ·		· *********			
Purge method:	Residential						,		
Sample method:	brab					,			
Start time:	1440	Odor: 7/	10712 0	devert	scl		····		
Slop time:	15000	Purge Appea	arandò:	Clear					
Duration: (minutes)	20	Sample App			<u>\</u>	,			
Rate, gpm:	= 10	Comments:	Re- a	colled	- volum	ene: 40	r Lis	ST 72	
Volume, purged:	= 200 gal				،		•	. '	
Duplicate collected?	200	,							
Sample collection by:	KSJ	CO2-	Mn	2	Fe(1)-		Fe2-		
Others present:		, 		,	• • • • • • • • • • • • • • • • • • •				
WELL INSPECTION (answ	er for each category, st	ate if lock repla	ced, detail	any repairs ne	eded on hac	k of form)			
CASING & CAP:	COLLA	R:		LOCK:	w		OTHER:		
MW: groundwater monitoring well WS: water supply well SW: surface water SE: sediment other:									
VOC- semi-volatile	e- 🢪 genera	il- nui	tnent-	cyanide	- ÚI	RŬ-	Sulfide-		
oil,greaso- bacteria	- total m	otal-	filterød n		metha	n&	filter-		
Others:	· ·	•			1 		<u></u>		

'Measurements are referenced from top of riser plpe, unless otherwise indicated.

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Barr Engineering Company Field Log Data Sheet

Client: UMORE. Monitoring Point: WSW-208402								
Location: RC	Location: RO.Semount				9/291	09		
Project #: 23/19-0 BOS 5/RI 300 Sample Time: / 320					••••••••••••••••••••••••••••••••••••••			
GENERA	LDATA	, ,		STAB	LIZATION	TEST	4 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2 2	
Bar lock:	Mone.			·				
Casing diameter;		Time/ Volume	Temp. ℃	Cond. @ 28	pH	Eh	D.O.	Turbidity Appearance
Total well depth:*		1250	9.66	556	726	71	Ø.27	Clear
Static water level:		/300	9.60	556	7.24	SZ	Ø.35	"
Water depth:"		1310	9.53	557	7.23	48	Ø.31	и
Vvell volume: (gal)								
Purge method:	Dedicated Grab							: ,
Sample method:	Grab							
Start fime:	1240	Odor: Y	10m	deter	tech	,		
Slop вто:	1310	Purge Appea	arance:	clio			, ,	
Duration: (minutes)	30	Sample App	earance:	Clin	•			
Rate, gpm:	₩10°	Comments:	List	1 re	- Sarap	ole: A	of Br	aun
Volume, purged:	= 300,gal						,	
Duplicate collected?	20			,				
Sample collection by:	KSJ	CO2-	Mn	č-	Fe(T)-		Fe2-	
Others present:	·	, ' ·						,
	er for each category, st	ate if lock repla	ced, detail e	ny repairs ne	eded on bac	k of form)		
CASING & CAP:	COLLA	R:	۲ ۱	LOCK:	,	·	OTHER:	
WW: groundwater monitoring	g well WS: water s	upply well	SW: surfa	ce water	SE: sedimer	nt oth	er	
/OC- semi-volatile	- 6 genera	il- nut	rient-	cyanide		30-	Sulfide-	
nî,greze- bacteria	total m	etal-	filtered m	etul-	metha	ne~	filtur-	
Others:	, 			•	. ^		-	

'Measurements are referenced from top of riser pipe, unless otherwise indicated.

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METER	CALIERATIO	N SUMMARY

PROJECT U-MORE

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WEATHER CONDITIONS

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. Date	Direction	Speed	Teropenatice	Cloud Cover	Comments
9/29/09	NW	5-15	11-60	50%	
7/30/09	SE	5-15	42-62	cléar.	
10/2/09	SE		177 57	A1.10.0.15	
10/2/01		5-10	46-56	overcast	Nam / drive
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Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Surface Sample	Surface Sample	Surface Sample
Station Name	SOC5-SS1-0.5	SOC5-SS2-0.5	SOC5-SS3-0.5
Latitude/Easting/X Coordinate	4951531.721	4951513.498	4951321.645
Longitude/Norhting/Y Coordinate	492308.8035	492233.6225	492233.026
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	946.931	944.537	943.324
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Surface Sample	Surface Sample	Surface Sample
Station Name	SOC5-SS4-0.5	SOC5-SS5-0.5	SOC5-SS6-0.5
Latitude/Easting/X Coordinate	4951318.603	4951188.04	4951195.719
Longitude/Norhting/Y Coordinate	492304.766	492231.9605	492292.9319
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	944.52	942.118	945.571
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Surface Sample	Surface Sample	Surface Sample
Station Name	SOC5-SS7-0.5	SOC5-SS8-0.5	SOC5-SS9-0.5
Latitude/Easting/X Coordinate	4951218.861	4951131.618	4951063.594
Longitude/Norhting/Y Coordinate	492358.0965	492354.8096	492288.1418
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	937.949	936.08	946.785
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Surface Sample	Surface Sample	Surface Sample
Station Name	SOC5-SS10-0.5	SOC5-SS11-0.5	SOC5-SS12-0.5
Latitude/Easting/X Coordinate	4951032.292	4951022.725	4951515.744
Longitude/Norhting/Y Coordinate	492352.6042	492378.9428	492275.0998
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	937.468	944.843	949.4
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Surface Sample	Surface Sample	Surface Sample
Station Name	SOC5-SS14-0.5	SOC5-SS16-0.5	SOC5-SS18-0.5
Latitude/Easting/X Coordinate	4951507.161	4951387.787	4951383.279
Longitude/Norhting/Y Coordinate	492263.0262	492262.2957	492274.7382
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	955.202	947.093	947.05
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Comments

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Surface Sample	Surface Sample	Surface Sample
Station Name	SOC5-SS19-0.5	SOC5-SS20-0.5	SOC5-SS21-0.5
Latitude/Easting/X Coordinate	4951382.238	4951376.241	4951369.536
Longitude/Norhting/Y Coordinate	492279.2525	492268.3884	492266.9474
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	947	946.556	946
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Comments

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Surface Sample	Surface Sample	Surface Sample
Station Name	SOC5-SS22-0.5	SOC5-SS23-0.5	SOC5-SS24-0.5
Latitude/Easting/X Coordinate	4951255.156	4951259.825	4951249.505
Longitude/Norhting/Y Coordinate	492261.2328	492261.0284	492273.9551
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	946.815	946	945.867
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Comments

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Surface Sample	Surface Sample	Surface Sample
Station Name	SOC5-SS25-0.5	SOC5-SS26-0.5	SOC5-SS27-0.5
Latitude/Easting/X Coordinate	4951251.542	4951244.283	4951239.767
Longitude/Norhting/Y Coordinate	492277.3947	492261.815	492262.4255
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	945	946.71	946
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Surface Sample	Surface Sample	Surface Sample
Station Name	SOC5-SS28-0.5	SOC5-SS30-0.5	SOC5-SS32-0.5
Latitude/Easting/X Coordinate	4951122.945	4951117.648	4951112.279
Longitude/Norhting/Y Coordinate	492261.3374	492272.6764	492261.7816
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	947.937	947.911	949.262
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Comments

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Surface Sample	Surface Sample	Surface Sample
Station Name	SOC5-SS39-0.5	SOC5-SS43-0.5	SOC5-SS44-0.5
Latitude/Easting/X Coordinate	4951302.69	4951060.268	4951051.801
Longitude/Norhting/Y Coordinate	492390.3594	492383.4856	492404.848
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	946	945	945
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Comments

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Surface Sample	Surface Sample	Surface Sample
Station Name	SOC5-SS45-0.5	SOC5-SS46-0.5	SOC5-SS47-0.5
Latitude/Easting/X Coordinate	4951039.036	4951292.958	4951067.284
Longitude/Norhting/Y Coordinate	492388.696	492238.0137	492242.9819
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	950	945.8	945.958
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Comments

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Surface Sample	Surface Sample	Test Trench Sample
Station Name	SOC5-SS48-0.5	SOC5-SS49-0.5	SOC4-TT6-0.5
Latitude/Easting/X Coordinate	4951281.979	4951100.46	4951244.673
Longitude/Norhting/Y Coordinate	492367.214	492366.1126	492588.9596
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	945.347	943.931	937.22
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Comments

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Test Trench Sample	Test Trench Sample	Test Trench Sample
Station Name	SOC4-TT9-6	SOC4-TT12-0.5	SOC5-TT2-3
Latitude/Easting/X Coordinate	4951002.86	4950923.207	4951507.582
Longitude/Norhting/Y Coordinate	492364.3554	492298.2038	492249.3177
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	944.417	935.874	948.159
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Test Trench Sample	Test Trench Sample	Test Trench Sample
Station Name	SOC5-TT5-4	SOC5-TT7-4	SOC5-TT9-13
Latitude/Easting/X Coordinate	4951440.899	4951388.049	4951321.739
Longitude/Norhting/Y Coordinate	492376.6613	492274.8787	492376.3734
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	943.476	946.849	946.776
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Test Trench Sample	Test Trench Sample	Test Trench Sample
Station Name	SOC5-TT13-3	SOC5-TT18-4	SOC5-TT25-5
Latitude/Easting/X Coordinate	4951243.666	4951176.567	4951044.523
Longitude/Norhting/Y Coordinate	492249.6728	492380.272	492379.4855
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	946.459	949.41	945.806
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Test Trench Sample	Test Trench Sample	Boring
Station Name	SOC5-TT29-5	SOC5-TT29-6	SOC4-GP1
Latitude/Easting/X Coordinate	4951338.964	4951331.598	4951431.325
Longitude/Norhting/Y Coordinate	492333.5999	492319.3356	492604.4824
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	946.228	945.678	945.933
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Comments

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Boring	Boring	Boring
Station Name	SOC4-GP2	SOC4-GP3	SOC4-GP4
Latitude/Easting/X Coordinate	4951179.348	4951067.333	4950954.27
Longitude/Norhting/Y Coordinate	492567.7894	492497.4974	492343.4617
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	942.448	942.805	939.097
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Comments

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Boring	Boring	Boring
Station Name	SOC4-GP5	SOC4-GP6	SOC4-GP7
Latitude/Easting/X Coordinate	4950894.733	4950813.464	4950994.842
Longitude/Norhting/Y Coordinate	492254.5299	492141.11	492259.1584
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	935.505	934.79	941.424
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Comments

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Boring	Boring	Boring
Station Name	SOC5-GP1	SOC5-GP2	SOC5-GP3
Latitude/Easting/X Coordinate	4951536.378	4951468.39	4951386.106
Longitude/Norhting/Y Coordinate	492407.2573	492408.7569	492378.4167
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	946.721	947.125	941.617
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Comments

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Boring	Boring	Boring
Station Name	SOC5-GP4	SOC5-GP5	SOC5-GP6
Latitude/Easting/X Coordinate	4951405.73	4951394.833	4951394.986
Longitude/Norhting/Y Coordinate	492321.9564	492233.5946	492251.8891
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	940.44	946.575	947.207
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Comments

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Boring	Boring	Boring
Station Name	SOC5-GP7	SOC5-GP8	SOC5-GP9
Latitude/Easting/X Coordinate	4951367.046	4951371.969	4951326.859
Longitude/Norhting/Y Coordinate	492236.2143	492247.3127	492411.7566
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	946.094	946.7	947.914
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Comments

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Boring	Boring	Boring
Station Name	SOC5-GP10	SOC5-GP11	SOC5-GP12
Latitude/Easting/X Coordinate	4951194.974	4951060.805	4951446.312
Longitude/Norhting/Y Coordinate	492410.026	492409.4853	492359.6918
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	945.156	945.266	939.331
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Comments

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Boring	Boring	Boring
Station Name	SOC5-GP13	SOC5-GP14	SOC5-GP15
Latitude/Easting/X Coordinate	4951425.744	4951460.177	4951454.083
Longitude/Norhting/Y Coordinate	492358.6116	492394.1487	492388.1066
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	938.775	946.774	950.013
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Comments

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Boring	Boring	Boring
Station Name	SOC5-GP16	SOC5-GP17	SOC5-GP18
Latitude/Easting/X Coordinate	4951447.622	4951441.577	4951323.016
Longitude/Norhting/Y Coordinate	492403.0876	492390.8548	492394.2439
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	949.56	950.783	951.705
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Comments

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Boring	Boring	Boring
Station Name	SOC5-GP19	SOC5-GP20	SOC5-GP21
Latitude/Easting/X Coordinate	4951318	4951307.529	4951189.03
Longitude/Norhting/Y Coordinate	492402.7831	492385.5201	492389.9239
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	949.533	951.236	950.366
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Comments

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Boring	Boring	Boring
Station Name	SOC5-GP22	SOC5-GP23	SOC5-GP24
Latitude/Easting/X Coordinate	4951182.546	4951176.027	4951057.248
Longitude/Norhting/Y Coordinate	492403.9153	492391.5475	492383.6965
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	947.722	949.293	945.562
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Boring	Boring	Boring
Station Name	SOC5-GP25	SOC5-GP26	SOC5-GP27
Latitude/Easting/X Coordinate	4951051.507	4951044.649	4951429.911
Longitude/Norhting/Y Coordinate	492400.8401	492389.2464	492375.5406
Collection Method	GPS - Survey Quality	GPS - Survey Quality	GPS - Survey Quality
Collection Date	9/23/2009	9/23/2009	9/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	946.254	952.005	943.173
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Comments

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Bottom Screen Elevation

Comments

Feature Location Data

Station Type	Boring	Surface Sample	Surface Sample
Station Name	SOC5-GP28	SOC5-SS2A	SOC5-SS2B
Latitude/Easting/X Coordinate	4951327.757	492233.6439	492233.4339
Longitude/Norhting/Y Coordinate	492328.9738	4951518.531	4951508.45
Collection Method	GPS - Survey Quality	Interpolation-DOQ	Interpolation-DOQ
Collection Date	9/23/2009	9/25/2009	9/25/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	947.239	944	944
Unique Well Number			
Top Screen Elevation			

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Surface Sample	Surface Sample	Surface Sample
Station Name	SOC5-SS2B	SOC5-SS2B	SOC5-SS2C
Latitude/Easting/X Coordinate	492233.4339	492235.163	492234.8243
Longitude/Norhting/Y Coordinate	4951508.45	4951512.628	4951542.065
Collection Method	Interpolation-DOQ	Interpolation-DOQ	Interpolation-DOQ
Collection Date	11/10/2009	12/23/2009	11/10/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	944	944	944
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Comments

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Surface Sample	Surface Sample	Surface Sample
Station Name	SOC5-SS2D	SOC5-SS2E	SOC5-SS2F
Latitude/Easting/X Coordinate	492224.7956	492230.8822	492238.5054
Longitude/Norhting/Y Coordinate	4951514.278	4951509.853	4951510.84
Collection Method	Interpolation-DOQ	Interpolation-DOQ	Interpolation-DOQ
Collection Date	11/10/2009	11/10/2009	11/10/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	946	946	946
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Comments

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Surface Sample	Surface Sample	Surface Sample
Station Name	SOC5-SS2G	SOC5-SS2H	SOC5-SS2I
Latitude/Easting/X Coordinate	492231.5462	492233.0811	492238.0172
Longitude/Norhting/Y Coordinate	4951482.98	4951482.51	4951484.409
Collection Method	Interpolation-DOQ	Interpolation-DOQ	Interpolation-DOQ
Collection Date	11/10/2009	11/10/2009	11/10/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	946	944	946
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Surface Sample	Surface Sample	Surface Sample
Station Name	SOC5-SS2J	SOC5-SS2J	SOC5-SS2K
Latitude/Easting/X Coordinate	492235.838	492235.838	492235.143
Longitude/Norhting/Y Coordinate	4951524.294	4951524.294	4951497.734
Collection Method	GPS -Receiver	GPS -Receiver	GPS -Receiver
Collection Date	12/23/2009	12/23/2009	12/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	944	944	944
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Comments

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Surface Sample	Surface Sample	Surface Sample
Station Name	SOC5-SS2K	SOC5-SS2L	SOC5-SS2M
Latitude/Easting/X Coordinate	492235.143	492237.966	492237.675
Longitude/Norhting/Y Coordinate	4951497.734	4951521.609	4951504.046
Collection Method	GPS -Receiver	GPS -Receiver	GPS -Receiver
Collection Date	12/23/2009	12/23/2009	12/23/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	944	946	946
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Surface Sample	Surface Sample	Surface Sample
Station Name	SOC5-SS2N	SOC5-SS2O	SOC5-SS2O
Latitude/Easting/X Coordinate	492226.079	492228.664	492228.664
Longitude/Norhting/Y Coordinate	4951533.765	4951515.902	4951515.902
Collection Method	GPS -Receiver	GPS -Receiver	GPS -Receiver
Collection Date	12/24/2009	12/25/2009	12/26/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	946	946	946
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Surface Sample	Surface Sample	Surface Sample
Station Name	SOC5-SS2P	SOC5-SS2Q	SOC5-SS2R
Latitude/Easting/X Coordinate	492226.944	492218.607	492219.85
Longitude/Norhting/Y Coordinate	4951495.722	4951526.48	4951508.161
Collection Method	GPS -Receiver	GPS -Receiver	GPS -Receiver
Collection Date	12/27/2009	12/28/2009	12/29/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	946	946	946
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Surface Sample	Surface Sample	Surface Sample
Station Name	SOC5-SS2T	SOC5-SS2T	SOC5-SS1A
Latitude/Easting/X Coordinate	492235.556	492235.556	4951528.344
Longitude/Norhting/Y Coordinate	4951504.872	4951504.872	492302.2471
Collection Method	GPS -Receiver	GPS -Receiver	Interpolation-DOQ
Collection Date	12/30/2009	12/31/2009	9/25/2009
Organization Name	Barr Engineering Company	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant	Consultant
Ground Elevation	944	944	946
Unique Well Number			
Top Screen Elevation			
Bottom Screen Elevation			

Feature Location Data Reporting Form

Background

Remediation Program: Superfund Site Program ID: Site Name: UMore Park - UMore Mining Area

Feature Location Data

Station Type	Surface Sample	Surface Sample
Station Name	SOC5-SS1B	SOC5-SS1C
Latitude/Easting/X Coordinate	4951538.021	4951527.928
Longitude/Norhting/Y Coordinate	492309.6348	492314.6293
Collection Method	Interpolation-DOQ	Interpolation-DOQ
Collection Date	9/25/2009	9/25/2009
Organization Name	Barr Engineering Company	Barr Engineering Company
Organization Type	Consultant	Consultant
Ground Elevation	946	946
Unique Well Number		
Top Screen Elevation		
Bottom Screen Elevation		
Comments		