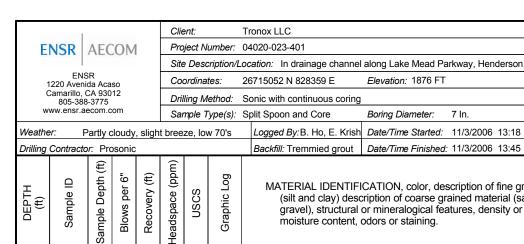
## Appendix B

**Soil Boring Logs** 



43.35

2.28

SA1-0.5

SA1-5

10

Client: T	ronox LLC					
Project Number: 0	4020-023-401	Boring No. SA-1				
Site Description/Lo	cation: In drainage channel	along Lake Mead Pa	arkway, Henderson, NV			
Coordinates: 2	6715052 N 828359 E	Elevation: 1876 FT		Sheet: 1 of 1		
Drilling Method: S	Sonic with continuous coring			Monitoring Well Installed: No		
Sample Type(s): S	Split Spoon and Core	Boring Diameter:	7 In.	Screened Interval:		
t breeze, low 70's	Logged By:B. Ho, E. Krish	Date/Time Started:	11/3/2006 13:18	Depth of Boring: 10 FT		

Water Level:

Not Encountered

Headspace (ppm) Graphic Log MATERIAL IDENTIFICATION, color, description of fine grained material (silt and clay) description of coarse grained material (sand and **USCS** gravel), structural or mineralogical features, density or stiffness, moisture content, odors or staining. ALLUVIUM: GRAVELLY SAND, moderate brown (5YR 5/4), 15-20% silt, 60-70% fine to coarse sand, with very 10 3.12 fine and very coarse grained sand, 15-20% gravel, medium dense, moist, no stain/odor, gravel clasts are generally 1/5 to 1 inch, maximum size is 3 inches -from 2 feet to 7 feet weak to moderately cemented caliche present, dry -from 4 feet to 7 feet coarse gravel present

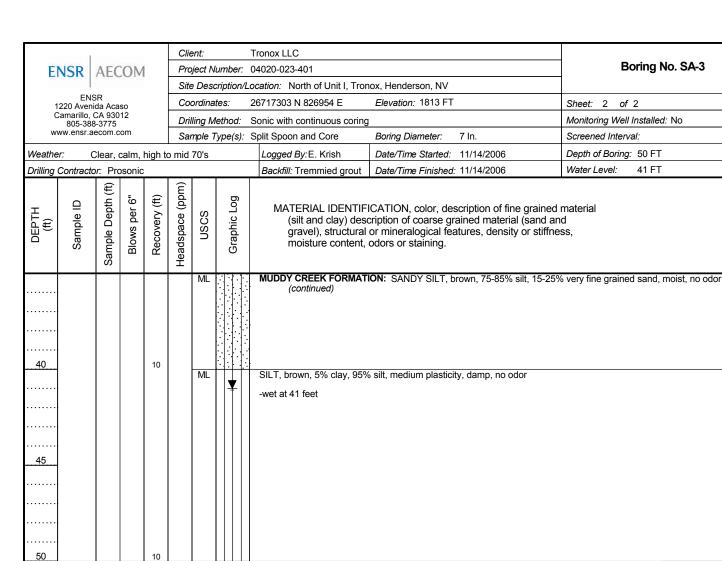
> Total Depth = 10 feet. Boring Terminated Target depth achieved

BORING LOG 04020023401-LOGS.GPJ ENSR CA.GDT 6/6/07

25.5	n so roote	2 =0.4		,		ent:		Tronox LLC	Poving No. CA 2				
E	NSR	AEC	ON	M		•		04020-023-401	Boring No. SA-2				
	ENS					ordina	•	ocation: Southern end of Tronox by former State Ind. lease (LOU #62), Hei 26715802 N 827573 E Elevation: 1852 FT	· · · · · · · · · · · · · · · · · · ·				
	220 Aveni Camarillo,	CA 930							Sheet: 1 of 2  Monitoring Well Installed: No				
w	805-388 ww.ensr.a		om					Sonic with continuous coring  Split Spoon and Core Boring Diameter: 7 In.	Screened Interval:				
Weathe	\r' [	Dorth ( a	Jaud	lu aliak	1				Depth of Boring: 70 FT				
	Contracto				it bree	ze, io	w 70's	Logged By:B. Ho, E. Krish Date/Time Started: 11/3/2006 14:00  Backfill: Tremmied grout Date/Time Finished: 11/6/2006	Water Level: 65.4 FT				
		(£	9		(mdd)		go.	MATERIAL IDENTIFICATION, color, description of fine grained					
DEPTH (ft)	Sample ID	Sample Depth (	Blows per	Recovery (ft)	Headspace (ppm)	nscs	Graphic Log	(silt and clay) description of coarse grained material (sand ar gravel), structural or mineralogical features, density or stiffne moisture content, odors or staining.	nd				
	SA2-0.5	$\times$		10	1.78	SW	*****	CONCRETE, 0-0.5 feet  ALLUVIUM: GRAVELLY SILTY SAND, moderate yellowish brown (10YF)	R 5/4), 5-10% silt, 70-80% fine to coarse				
								grained sand, with minor very fine and very coarse grained sand, 15 diameter, up to 3 inches maximum, medium dense, dry to moist, no	5-20% gravel - generally 0.5-1 inches in				
								diameter, up to a mones maximum, medium dense, ary to most, ne	o stall house				
5													
								-at 6 feet caliche nodules present up to 3 inches in diameter					
							*****	' '					
							<b>*</b> `*****	-at 7 feet material is 90% fine to medium grained sand with minor coarse	to very coarse grained sand				
10				10									
	SA2-10	$\times$		"	0.76								
							******						
• • • • • •							******						
							*****						
15													
							*****						
							*****						
20	SA2-20	$\overline{}$		10	3.74		*****						
	07.12.20												
							*****	-from 22 to 25 feet very fine to coarse grained sand with pea gravel, calca	areous grain coatings are common				
25													
25													
								-from 27 to 31 feet grayish orange caliche, locally hard, in fine to medium	grained nodules to 2 inches in diameter				
								= 1.00 1 1000 grapher orange canone, rocally fiard, in line to medium	. g.siod noddiod to 2 mondd in didinotei				
30				10			<b>***</b> *****						
	SA2-30	$\geq$											
						SM		MUDDY CREEK FORMATION: SILTY SAND, moderate yellow brown (10	OYR 5/4), 25-30% silt, 65-70% fine to				
								medium grained sand, with minor coarse grains présent, 5% gravel dry, calcareous grain coatings, no stain/odor	i up το 3/8 inch in diameter, medium dense,				
								· · · · · · · · · · · · · · · · · · ·					
35							科技						
No	otes:												

FN	NSR	AFC	ON	1	Pro	ject N	lumber:	04020-023-401	Boring No. SA-2
-1	Site Description   Site Description						cription/L	ncation: Southern end of Tronox by former State Ind. lease (LOU #62), H	enderson, NV
12			sn		Со	ordina	ites:	26715802 N 827573 E <i>Elevation:</i> 1852 FT	Sheet: 2 of 2
	amarillo,	CA 930			Dri	llina M	lethod:	Sonic with continuous coring	Monitoring Well Installed: No
ww			om					Split Spoon and Core Boring Diameter: 7 In.	Screened Interval:
Neather	r. [	Partly o	loud	, cliah		-		Logged By: B. Ho, E. Krish Date/Time Started: 11/3/2006 14:00	Depth of Boring: 70 FT
	Contracto				LDIEC	26, 10	W 103	Backfill: Tremmied grout   Date/Time Finished: 11/6/2006	Water Level: 65.4 FT
Jillillig C	JOHNACIO		50111	Ť				Backlill. Treffittiled grout   Bate/Time Fillished. 11/0/2000	Water Level. 00.411
DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	SOSN	Graphic Log	MATERIAL IDENTIFICATION, color, description of fine graine (silt and clay) description of coarse grained material (sand a gravel), structural or mineralogical features, density or stiffr moisture content, odors or staining.	and ness,
						SM		MUDDY CREEK FORMATION: SILTY SAND, moderate yellow brown ( medium grained sand, with minor coarse grains present, 5% grav	10YR 5/4), 25-30% silt, 65-70% fine to rel up to 3/8 inch in diameter, medium dens
								dry, calcareous grain coatings, no stain/odor <i>(continued)</i>	er up to 0/0 mer in diameter, medium dent
40				10					
	SA2-40	$\geq$							
45									
50				10		SP		SAND TO SILTY SAND, moderate yellow brown (10YR 5/4), 10% silt, 9 trace of coarse grained sand, medium dense, moist, with modear	
	SA2-50	$\geq$						trace of course granted carra, mediani acrise, moist, with medicar	atory common canonic grame, no ctampose
55									
								-from 56 to 57 feet caliche common	
60				10				-from 59 to 60 feet caliche common	
	SA2-60	$\geq$							
65									
<u>*</u>							₹	-from 65 to 67 feet caliche nodules present up to 2 inches in diameter	
••••••									
						SM		SILTY SAND, moderate yellow brown, 35% silt, 65% very fine grained s	sand to fine grained sand with minor coarse
						JIVI		grained sand, medium dense, wet	Sand to fine granied sand with million coalse
70				10					
	toc:			10	·		1.1.1.	Total Depth = 70 feet.	
65 SM								Boring Terminated Target depth achieved	
								. J	

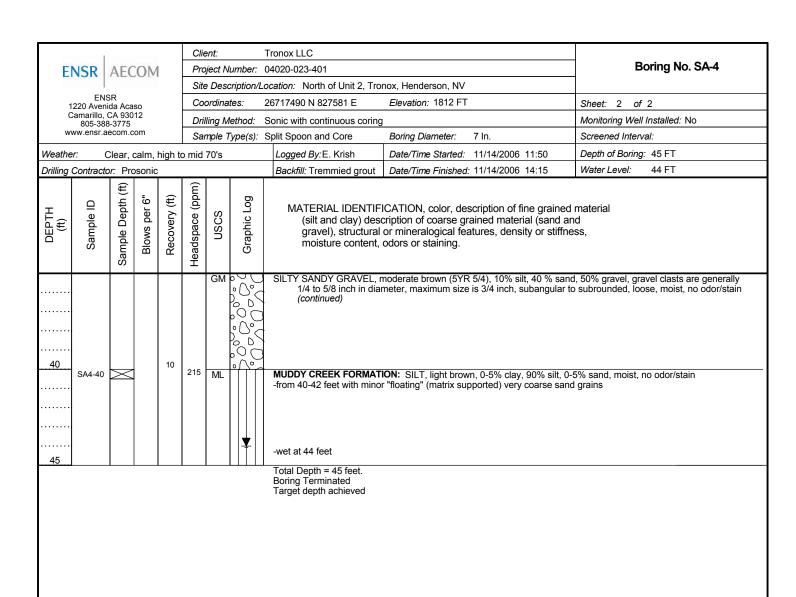
					Clie	ent:		Tronox LLC					
E	Site L						lumber:	04020-023-401			Boring No. SA-3		
	EN(	20			Site	e Des	cription/L	ocation: North of Unit I, Tron	nox, Henderson, NV				
	1220 Aveni	da Aca				ordina		26717303 N 826954 E	Elevation: 1813 FT		Sheet: 1 of 2		
	805-388	3-3775						Sonic with continuous coring			Monitoring Well Installed: No		
					-		Type(s):	Split Spoon and Core	1	In.	Screened Interval:		
Weathe		Clear, o			o mid	70's		Logged By: E. Krish	Date/Time Started: 1		Depth of Boring: 50 FT		
Drilling	Contracto		osonic	; T	_			Backfill: Tremmied grout	Date/Time Finished: 1	1/14/2006	Water Level: 41 FT		
DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	SOSU	Graphic Log	(silt and clay) des gravel), structural moisture content,	cription of coarse grai or mineralogical featu odors or staining.	ription of fine grained ned material (sand an ures, density or stiffne	and		
10	SA3-0.5	X		10	7.06	SW		amounts of very fine diameter, maximum  -from 7 to 9 feet locally cal	and very coarse graine size is 1.5 inches, medi	(37K 3/4), 10% Silt, 60 d sand, 30% gravel, gra um dense, dry, no stain	% fine to coarse sand, with minor vel clasts are generally 1/5 to 3/4 inch in //odor		
20	SA3-20			10	11.81			-at 15 feet minor caliche p					
30 35 No.	SA3-30			10	274	ML		-from 28 to 30 feet , grayis  MUDDY CREEK FORMAT	-		6 very fine grained sand, moist, no odor		
35 No	otes:			ı	ı	ı	1.1.1.4.5						



Total Depth = 50 feet. Boring Terminated Target depth achieved

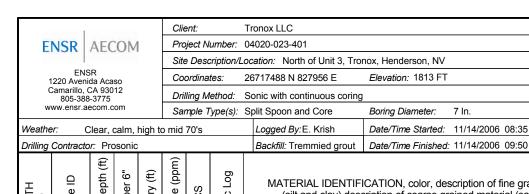
BORING LOG 04020023401-LOGS.GPJ ENSR CA.GDT 6/6/07

El	rilling Contractor: Prosoni		OM	1		ent: oject N		Tronox LLC 04020-023-401			Boring No. SA-4
	ENIG	SR.					· ·	ocation: North of Unit 2, Tro			
	220 Aveni	da Aca						26717490 N 827581 E	Elevation: 1812 FT		Sheet: 1 of 2
	1220 Avenida Acaso Camarillo, CA 93012 805-388-3775   www.ensr.aecom.com   Sample Type(s): Split Spoon and Core   Boring Diameter: 7 In.								71-	Monitoring Well Installed: No	
							Type(s):				Screened Interval:
					o mid	70's					Depth of Boring: 45 FT  Water Level: 44 FT
rilling	Contracto		sonic	; 	_			Backfill: Tremmled grout	Date/Time Finished.	11/14/2006 14:15	Water Level: 44 FT
DEPTH (ft)	Sample ID	Sample Depth (ft	Blows per 6"	Recovery	Headsbace (ppm		Graphic Log	(silt and clay) desigravel), structural moisture content,	cription of coarse gr or mineralogical fea odors or staining.	ained material (sand ar atures, density or stiffne	nd ess,
	SA4-0.5	$\times$		10	249	SW		with minor very fine a diameter, maximum -from 1-2 feet predominan	and very coarse grain size is 5 inches, suba ly pea gravel, 1/4 to	ed sand, 15-30% gravel, Ingular to angular, mediu	gravel clasts are generally 1/5 to 1 inch m dense, dry, no odor/stain
5								-from 4-6 feet gray orange	moderately calichifie	d zone	
10	SA4-10	$\times$		10	235			-from 8-10 feet predomina diameter	ntly pea gravel, 1/4 to	5/8 inches diameter, with	n minor volcanic cobbles, 3 to 5 inches
15								-from 14-15 feet gray oran	ge, moderately ceme	nted caliche zone	
20	SA4-20	<b>&gt;</b>		10	279			-from 19-20 feet gray oran -from 19.5-20 feet hard ca		nted caliche zone	
25								-from 23-25 feet gray oran	ge, moderately ceme	nted caliche zone	
30	SA4-30	<b>&gt;</b>		10	239	GM		SILTY SANDY GRAVEL, r 1/4 to 5/8 inch in dia -from 29-36 feet grayish or	noderate brown (5YR neter, maximum size ange with commonly	5/4), 10% silt, 40 % sand is 3/4 inch, subangular to occuring calcareous grai	d, 50% gravel, gravel clasts are genera o subrounded, loose, moist, no odor/sta n coatings
35											
	otes:		1				101 \				



BORING LOG 04020023401-LOGS.GPJ ENSR CA.GDT 6/6/07

ENCD	A F.C	201			ent:	lumber:	Tronox LLC 04020-023-401		Boring No. SA-5
ENSR	AEC	.UN	l				ocation: North of Unit 3, Tro	nox, Henderson. NV	209 110. 07. 0
EN 1220 Ave	ISR	00			ordina	-	26717488 N 827956 E	Elevation: 1813 FT	Sheet: 1 of 2
Camarillo				Drii	llina N	1ethod:	Sonic with continuous coring		Monitoring Well Installed: No
www.ensr.		om		Screened Interval:					
Weather:	Clear,	calm,	high to	o mid	Depth of Boring: 40 FT				
Drilling Contrac	tor: Pro	osonic	;				Backfill: Tremmied grout	Date/Time Finished: 11/14/2006 0	9:50 Water Level: 37 FT
DEPTH (ft) Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	SOSO	Graphic Log	(silt and clay) des gravel), structural moisture content,	ū	(sand and or stiffness,
5 SA5-0.8			10	312	SW		minor very fine and v diameter, maximum	ery coarse grained sand, 15-25% gr	-15% silt, 70% fine to coarse grained sand, with avel, gravel clasts are generally 1/4 to 1-1/4 inch in ar, medium dense, dry, no stain/odor
20 SA5-20			10	160				range, moderately hard caliche zone range, moderately hard caliche zone	
30 SA5-30			10	278	ML		MUDDY CREEK FORMAT	range, moderately hard caliche zone  ION: SILT, light brown, 0-5% clay, 9 dules, subrounded, medium dense,	0% silt, 0-5% very fine grained sand and minor
Notes:		<u> </u>	<u> </u>	<u> </u>	<u> </u>	1			



Sheet: 2 of 2

Monitoring Well Installed: No Screened Interval:

Depth of Boring: 40 FT

Water Level: 37 FT

Headspace (ppr USCS Graphic Log
nscs
Headspace (ppi
Recovery (ft)
Blows per 6"
Sample Depth (
Sample ID
DEPTH (ft)

MATERIAL IDENTIFICATION, color, description of fine grained material (silt and clay) description of coarse grained material (sand and gravel), structural or mineralogical features, density or stiffness, moisture content, odors or staining.

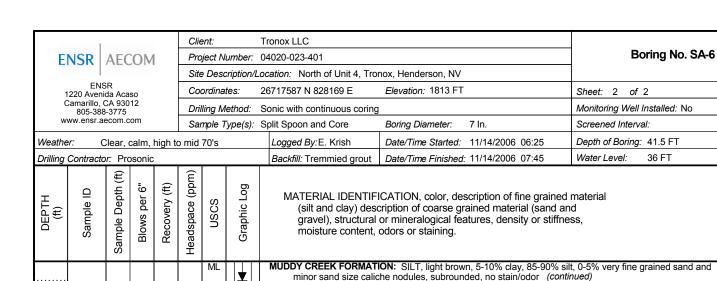
MUDDY CREEK FORMATION: SILT, light brown, 0-5% clay, 90% silt, 0-5% very fine grained sand and minor sand size caliche nodules, subrounded, medium dense, moist (continued)

-wet at 37 feet

Total Depth = 40 feet. Boring Terminated Target depth achieved

Notes:		

					Clie	ent:		Tronox LLC				
E	NSR	AEC	ON	1				04020-023-401		Boring No. SA-6		
	ENS						-	ocation: North of Unit 4, Tro	nox, Henderson, NV  Elevation: 1813 FT	Ohart days 0		
	220 Aveni Camarillo,	CA 930				ordina Ilina N		26717587 N 828169 E Sonic with continuous coring	Sheet: 1 of 2  Monitoring Well Installed: No			
w	805-388 ww.ensr.a		om					Split Spoon and Core	Boring Diameter: 7 In.	Screened Interval:		
Weathe	er: (	Clear, o	calm.	hiah t	-		71- (-).	Logged By:E. Krish	Date/Time Started: 11/14/2006 06:25	Depth of Boring: 41.5 FT		
Drilling	Contracto							Backfill: Tremmied grout	Date/Time Finished: 11/14/2006 07:45	Water Level: 36 FT		
DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	nscs	Graphic Log	(silt and clay) des	ICATION, color, description of fine grains cription of coarse grained material (sand or mineralogical features, density or stiff odors or staining.	and		
10	SA6-0.5			10	63.13	sw		60-75% fine to coars	1/5 to 3/4 inch in diameter, maximum size is odor  , caliche zone present el zone present  ge, caliche zone present	y coarse grained sand, 15-25% gravel, gravel		
20	SA6-20			10	46.61			-from 19-20 feet gray oran	ge, caliche zone present avel zone and gray orange caliche zone pres	ent		
BORING LOG 04020023401-LOGS.GPJ ENSR CA.GDT 6/6/07	SA6-30	<u></u>		10	3.08			-moist at 27 feet  -from 29-30 feet whitish gr  -from 32-34 feet caliche zo				
35						ML		MUDDY CREEK FORMAT	ION: SILT, light brown, 5-10% clay, 85-90% the nodules, subrounded, no stain/odor	silt, 0-5% very fine grained sand and		
BORING LOG 0402002:	otes:			•					and manifest suppliments. In Sidiliverol			



Total Depth = 41.5 feet. Boring Terminated Target depth achieved

BORING LOG 04020023401-LOGS.GPJ ENSR CA.GDT 6/6/07

40

10 12.6

_	NCD	A E (	101	4		ent:	lumber:	Tronox LLC 04020-023-401		Boring No. SA-7
E	NSR	AEC	.UN	4		•		Location: North of Unit 5, Tro	nox Henderson NV	
	EN	SR				ordina		26717605 N 828627 E	Elevation: 1814 FT	Sheet: 1 of 2
	220 Aven Camarillo,	CA 930						Sonic with continuous coring	Lievation. Territ	Monitoring Well Installed: No
w	805-388 ww.ensr.a		om					Split Spoon and Core	Boring Diameter: 7 In.	Screened Interval:
Weathe	/	21	- I: I- 4	h			1 ypc(3).	Logged By: E. Krish	Date/Time Started: 11/20/2006 06:45	Depth of Boring: 40 FT
		Clear,			e, iow	708		Backfill: Tremmied grout	Date/Time Finished: 11/20/2006 07:50	Water Level: 36 FT
Drilling	Contracto		SOIII					Backiiii. Tremimied grout	Date/Time Finished. 11/20/2006 07:50	Water Level. 3011
DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	SOSO	Graphic Log	(silt and clay) deso gravel), structural moisture content,	•	d and iffness,
	SA7-0.5	$\times$		10	4.45	SW		55-75% fine to coars clasts are generally	1/5 to 3/4 inch in diameter, maximum size	yish orange in caliche zones, 10-15% silt, ry coarse grained sand, 20-30% gravel, gravel is 6 inches, angular to subangular, medium
								dense, dry, no stain/o	odor	
							*****			
5										
								}		
								1		
							*****			
									, sandy gravel zone present	
10	SA7-10	$\overline{}$		10	2650		*****	-from 9-10 feet grayish ora	nge, moderately cemented caliche zone p	resent
							*****			
15										
								-from 17-21 feet cobble siz	e, sandy gravel zone present	
							*****			
								from 19-20 feet gravish or	ange, moderately cemented caliche zone	nresent
20	0.47.00			10				-ironi 19-20 feet grayish of	ange, moderately demented danche zone	present
	SA7-20									
								]		
								}		
								\$		
25								1		
ļ								•		
								-from 27-30 feet cobble siz	ed, sandy gravel zone present	
6/6/07									ca, candy graver zone procent	
							<b>*</b>			
08 CA.GDT				10				-trom 29-30 teet grayish or	ange, moderately cemented caliche zone	present
SRC	SA7-30	$\geq$								
								-from 31-35 feet grayish or	ange, moderately cemented caliche zone	present, very hard from 34.5 to 35 feet, moist
								;		
								1		
<mark>구</mark>								]		
35							<u> </u>	]		
<b>N</b>	otes:									
ŏ O										
BORING LOG 04020023401-LOGS										
N N										
8										



	Client:	Tronox LLC				
	Project Number:	04020-023-401		Boring No. SA-7		
	Site Description/L	ocation: North of Unit 5, Tro				
	Coordinates:	26717605 N 828627 E	Elevation: 1814 FT		Sheet: 2	of 2
	Drilling Method:	Sonic with continuous coring			Monitoring V	Well Installed: No
	Sample Type(s):	Split Spoon and Core	7 ln.	Screened In	nterval:	
ze	e. low 70's	Logged By: E. Krish	Date/Time Started:	11/20/2006 06:45	Depth of Bo	oring: 40 FT

Date/Time Finished: 11/20/2006 07:50

(#) HTPD	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	sosn	Graphic Log	
40				10		ML		· -

MATERIAL IDENTIFICATION, color, description of fine grained material (silt and clay) description of coarse grained material (sand and gravel), structural or mineralogical features, density or stiffness, moisture content, odors or staining.

MUDDY CREEK FORMATION: SANDY SILT, light brown, 5% clay, 90-95% silt, 0-5% very fine grained sand, subrounded, medium dense, moist to wet -wet at 36 feet

Water Level:

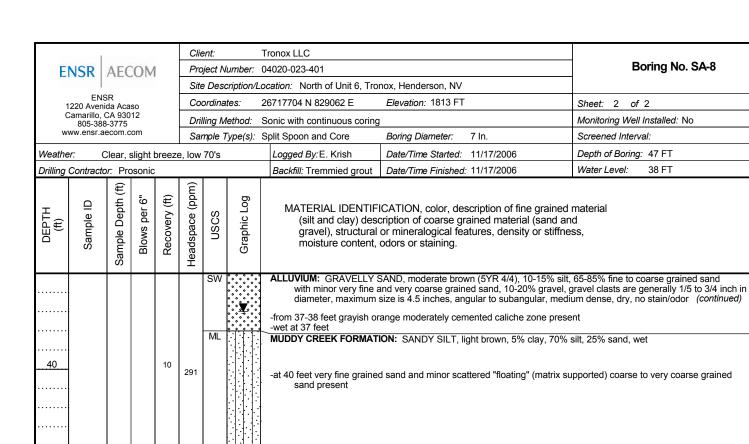
36 FT

Total Depth = 40 feet. Boring Terminated Target depth achieved

Backfill: Tremmied grout

Notes:		

Secondaria Project Number - Galdon Decayoper Location North of Unit 6, Tromox Henderson, NV  Secondaria Project Project Project Secondaria Project Pro	ENSR		Client: Tronox LLC  Project Number: 04020-023-401						Boring No. SA-8		
1220 Avented Aceaso 1230 Avented Aceaso 1230 Avented Aceaso 1231 A	LINOIN		J 1 1		Site	e Des	cription/L	<u></u>			
Solution with control of the property is the property of the p	ENS 1220 Avenio	R da Acas	60		Co	ordina	ates:	26717704 N 829062 E Elevation: 1813 FT			Sheet: 1 of 2
Secretary   Secr	Camarillo, C	CA 9301			Drii	lling N	1ethod:	Sonic with continuous coring			Monitoring Well Installed: No
All Description of Contractors Prosoncy  Backfill: Tremmied grout Dater/time Finished: 11/17/2006 Water Level: 38 FT  MATERIAL IDENTIFICATION, color, description of fine grained material (sill and clay) description of coarse grained material (sand and gravel), structural or minerallogical features, density or stiffness.  MATERIAL IDENTIFICATION, color, description of coarse grained material (sand and gravel), structural or minerallogical features, density or stiffness.  MATERIAL IDENTIFICATION, color, description of coarse grained material (sand and gravel), structural or minerallogical features, density or stiffness.  MATERIAL IDENTIFICATION, color, description of coarse grained material (sand and gravel), structural or minerallogical features, density or stiffness, mosture content, odors or staining.  ALLUVIUM: GRAVELLY SAND, moderate brown (SYR 4/4), 10-15% slit, 65-85% fine to coarse grained san with minor very fine and very coarse grained sand, 10-20% gravel, gravel clasts are generally 1/5 to 3/4 diameter, maximum size is 4.5 inches, singular to subangular, medium dense, dry, no stain odor diameter. maximum size is 4.5 inches, singular to subangular, medium dense, dry, no stain odor diameter. maximum size gravel present  4-from 15-25 feet dry to moist  4-from 21-23 feet grayleh orange moderately cemented caliche zone present  4-from 21-23 feet pebble/cobble size gravel present  4-from 20-30 feet pebble/cobble size gravel present  4-from 20-30 feet pebble/cobble size gravel present	www.ensr.ae	ecom.co	om		Sai	mple 1	Type(s):	Split Spoon and Core	Boring Diameter:	7 ln.	Screened Interval:
All Description of Contractors Prosoncy  Backfill: Tremmied grout Dater/time Finished: 11/17/2006 Water Level: 38 FT  MATERIAL IDENTIFICATION, color, description of fine grained material (sill and clay) description of coarse grained material (sand and gravel), structural or minerallogical features, density or stiffness.  MATERIAL IDENTIFICATION, color, description of coarse grained material (sand and gravel), structural or minerallogical features, density or stiffness.  MATERIAL IDENTIFICATION, color, description of coarse grained material (sand and gravel), structural or minerallogical features, density or stiffness.  MATERIAL IDENTIFICATION, color, description of coarse grained material (sand and gravel), structural or minerallogical features, density or stiffness, mosture content, odors or staining.  ALLUVIUM: GRAVELLY SAND, moderate brown (SYR 4/4), 10-15% slit, 65-85% fine to coarse grained san with minor very fine and very coarse grained sand, 10-20% gravel, gravel clasts are generally 1/5 to 3/4 diameter, maximum size is 4.5 inches, singular to subangular, medium dense, dry, no stain odor diameter. maximum size is 4.5 inches, singular to subangular, medium dense, dry, no stain odor diameter. maximum size gravel present  4-from 15-25 feet dry to moist  4-from 21-23 feet grayleh orange moderately cemented caliche zone present  4-from 21-23 feet pebble/cobble size gravel present  4-from 20-30 feet pebble/cobble size gravel present  4-from 20-30 feet pebble/cobble size gravel present	Veather: C	lear, s	light b	reeze	e, low	70's		Logged By: E. Krish	Date/Time Started:	11/17/2006	Depth of Boring: 47 FT
SAB-10 SW ALLVILLE SAND, moderate brown (SYR 4/4), 10.15% all, 65-85% file to coarse grained san with minor very fire and very coarse grained sand, 10-20% gravel, gravel clasts are generally 15 to 3/4 diameter, maximum size is 4.5 inches, angular to subangular, medium dense, dry, no stain-oder  -from 8-9 feet pebble/cobble size gravel present  -from 15-25 feet dry to moist  -from 18-20 feet grayish orange moderately cemented caliche zone present  -from 21-23 feet pebble/cobble size gravel present  -moist at 27 feet  -rom 29-30 feet pebble/cobble size gravel present -from 29-30 feet grayish orange moderately cemented caliche zone present	Prilling Contracto	r: Pros	sonic					Backfill: Tremmied grout	Date/Time Finished:	11/17/2006	Water Level: 38 FT
with minor very fine and very coarse grained sand, 10-20% gravel, gravel clasts are generally 1/5 to 3/4 diameter, maximum size is 4.5 inches, angular to subangular, medium dense, dry, no stain/odor  -from 8-9 feet pebble/cobble size gravel present  10 SA8-10	DEPTH (ft) Sample ID	Sample Depth (ft)	Blows per 6"		Headspace (ppm)						nd ess,
-from 15-25 feet dry to moist  -from 18-20 feet grayish orange moderately cemented caliche zone present  -from 21-23 feet pebble/cobble size gravel present  -moist at 27 feet  -from 29-30 feet pebble/cobble size gravel present  -from 29-30 feet grayish orange moderately cemented caliche zone present  -from 29-30 feet grayish orange moderately cemented caliche zone present		X				SW		with minor very fine a diameter, maximum	and very coarse grain size is 4.5 inches, an	ed sand, 10-20% gravel, gular to subangular, med	gravel clasts are generally 1/5 to 3/4 inc
	20 SA8-20			10	1610			-from 18-20 feet grayish or	ange moderately cen	·	ent
	SA8-30			10	703			-from 29-30 feet pebble/co -from 29-30 feet grayish or	ange moderatelý cen	nented caliche zone pres	
35						1	lo`o°o°o°o				



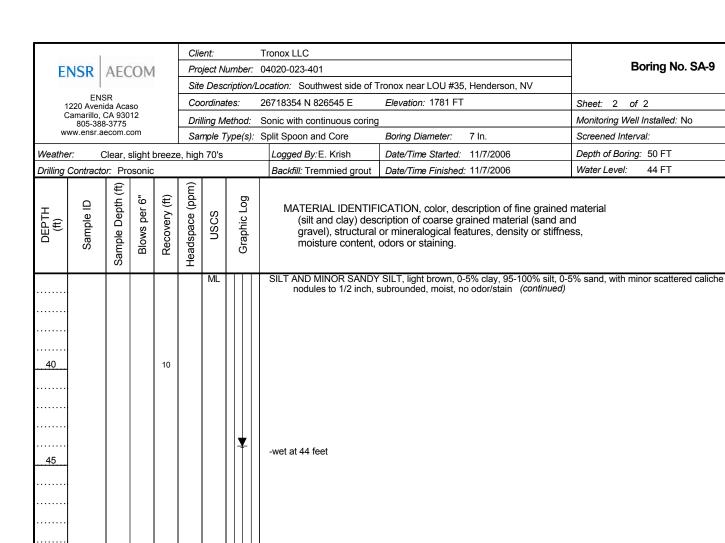
Total Depth = 47 feet. Boring Terminated Target depth achieved

BORING LOG 04020023401-LOGS.GPJ ENSR CA.GDT 6/6/07

45

Notes:	

E'	NCD	ΛE/	O.	Á		lient: roiect N	Jumber	Tronox LLC 04020-023-401			Boring No. SA-9
El	NSR	AE(	.01	VI					Fronox near LOU #35.	Henderson, NV	
	ENS				Site Description/Location: Southwest side of Tronox near LOU #35, Henderson, NV  Coordinates: 26718354 N 826545 E Elevation: 1781 FT						Sheet: 1 of 2
	220 Aven	CA 930						Sonic with continuous corine			Monitoring Well Installed: No
wv	805-388 ww.ensr.a		om					Split Spoon and Core	,	7 ln.	Screened Interval:
/a ath a	<i>(</i>	01	- I: I-	4 1				1	1		
Veathe				t breez	e, niç	gn 70°s		Logged By: E. Krish	Date/Time Started:		Depth of Boring: 50 FT
rilling (	Contracto	1	oson	IC		. 1		Backfill: Tremmied grout	Date/Time Finished:	11///2006	Water Level: 44 FT
DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)		Graphic Log	(silt and clay) des gravel), structural moisture content,	cription of coarse gra or mineralogical feat odors or staining.	cription of fine grained ined material (sand an tures, density or stiffne	d ss,
	SA9-0.5	$\overline{}$		10		SW		ALLUVIUM: GRAVELLY with minor very fine	SAND, moderate brow and verv coarse graine	n (5YR 5/4), 10-15% silt, d sand. 15-20% moderal	65-75% fine to coarse grained sand te pea gravel, gravel clasts are generally
								1/5 to 1 inch in diam	eter, maximum size is	3 inches, angular to suba	angular, medium dense, dry, no odor/sta
• • • • • • • •								-from 0-2 feet strong to mo	oderately cemented ca	iche zone present	
							******	1			
							******	1			
5							******	1			
							******	1			
							******	1			
							,,,,,,,	1			
							*	5	and and the second	-P-lander	
10				10				-from 9-10 feet strong to n	noderately cemented c	aliche zone present	
	SA9-10	$\geq$	1					1			
• • • • • •								1			
								1			
							******	from 12 15 foot makely (c)	hhlo (un to 2 i )	raval zana	
								-from 13-15 feet pebble/co	nuble (up to 3 inches) g	raverzone	
15								•			
·								]			
••••								1			
								1			
							******	from 19 20 foot strong to	moderately coments d	caliche zone present	nd and gravel clasts exhibit segmen
							******	-from 18-20 feet strong to calcareous coatings		canche zone present, sai	nd and gravel clasts exhibit common
20				10				,			
- <u>-</u>	SA9-20	$\geq$	1			ML					, 0-5% clay, 85% silt, 10-15% very fine
••••								grained sand, spars odor/stain	e to moderate caliche r	loaules to 1 inch, subrou	nded, medium dense, dry to moist, no
								1			
								}			
25											
·											
• • • • •								1			
								1			
								}			
30				10							
				"		ML					5% sand, with minor scattered caliche
								nodules to 1/2 Inch,	subrounded, moist, no	บน01/รเลเทิ	
35											
	toc:	1		1		1		1			
NC	tes:										

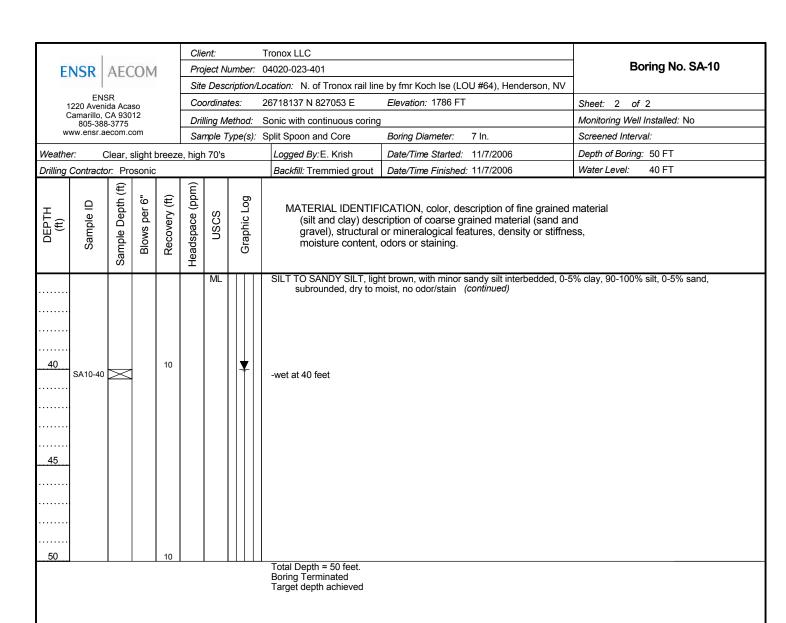


Total Depth = 50 feet. Boring Terminated Target depth achieved

BORING LOG 04020023401-LOGS.GPJ ENSR CA.GDT 6/6/07

50

					Clie	ent:		Tronox LLC		
Е	NSR	AEC	ON	1	Pro	ject ∧	lumber:	04020-023-401		Boring No. SA-10
	ENIG	`D			Site	Des	cription/L	ocation: N. of Tronox rail line	e by fmr Koch Ise (LOU #64), Henderson, NV	
	ENS 220 Aveni 23 Camarillo,	da Aca			Cod	ordina	tes:	26718137 N 827053 E	Elevation: 1786 FT	Sheet: 1 of 2
	805-388 ww.ensr.a	3-3775						Sonic with continuous coring		Monitoring Well Installed: No
					1			Split Spoon and Core	Boring Diameter: 7 In.	Screened Interval:
Weathe		Clear, s			e, high	1 70's		Logged By: E. Krish	Date/Time Started: 11/7/2006	Depth of Boring: 50 FT
Drilling	Contracto		osonic	; 	<u> </u>			Backfill: Tremmied grout	Date/Time Finished: 11/7/2006	Water Level: 40 FT
DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	sosn	Graphic Log	(silt and clay) desc gravel), structural moisture content,	,	nd ess,
10	SA10-0.5			10		SW		60-75% sand, 15-25' to subangular, mediu -from 0-2 feet moderate to -from 3-5 feet pebble/cobbl -from 8-10 feet grayish ora	SAND, moderate brown (5YR 4/4), grayish ora % gravel, gravel clasts are generally 1/5 to 1 in m dense, dry strongly cemented caliche zone present le sized gravel zone present mge, moderate to strongly cemented caliche zone bble sized gravel zone present	ch, maximum size is 2-1/2 inches, angular
20	SA10-20			10		ML		MUDDY CREEK FORMATI with minor medium to	ange, moderate to strongly cemented caliche zoon and caliche zoon services. SANDY SILT, light brown, 0-5% clay, 60-by very coarse grained sand, sand is "floating" (and odor from 20-22 feet	70% silt, 25-30% very fine grained sand
BORING LOG 04020023401-LOGS. GPJ ENSR CA.GDT 6/6/07	SA10-30			10		ML		-at 30 feet no odor/stain ob SILT TO SANDY SILT, light subrounded, dry to m	nt brown, with minor sandy silt interbedded, 0-5	5% clay, 90-100% silt, 0-5% sand,
BORING LOG 040200	otes:									



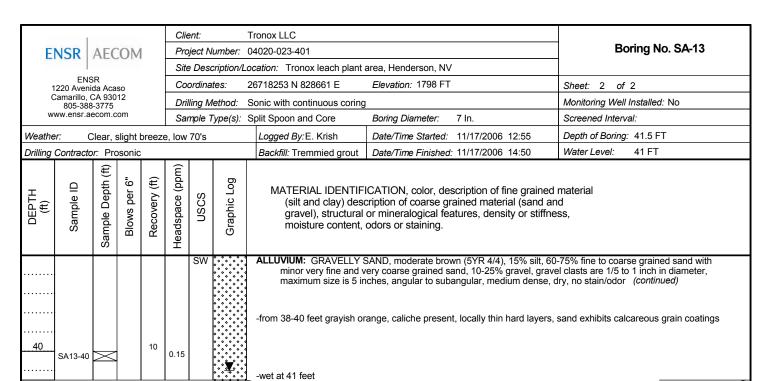
BORING LOG 04020023401-LOGS.GPJ ENSR CA.GDT 6/6/07

See Description Locations: Within Tronzo old P-3 good, Herderson NV Coordinates 2775  Within Methods See	F	NSR	OM	1		ent: oject N	lumber:	Tronox LLC 04020-023-401		Boring No. SA-11			
Existing the continue of the c		1310	/ (L)	V 14			•			P-3 pond, Henderson,	NV		
Caracteristic CA 2012 Bis dials dials CA 2	4	ENS	SR da Aca	60		Co	ordina	ites:	26718417 N 827564 E	Sheet: 1 of 2			
September   Special   Sp		Camarillo, (	CA 930										
Peacher   Clear, slight breeze, mid 80's   Logged By E. Krish   Sacrifit Tremmel grout   Date/Time Planshed: 11/10/2006   Depth of Boring: 35 FT	w			om						·	7 In		
Second contractor   Procents   Second Street	A/4/		N	. 12 . 1. 4				ype(3).	<u> </u>	1			
MATERIAL IDENTIFICATION, color, description of fine grained material (said and day) description of coarse grained material (sand and gravel), structural or mineralogical features, density or stiffness, moisture content, obors or stainent, ob						e, mic	1808					, ,	
SA11-0.5  SW  ALLUVIUM: GRANELLY SAND, moderate brown (SYR 443, 16-30%; sill, 67-70%; fine to coarse grained sand, 15-20%; gravel; gravel todas are generally 1/5 for diameter, maximum size is 3 inches, angular to subangular, medium dense, dry, no odor/stain from 1-2 feet moderate to strongly cemented caliche zone (locally hard) present  from 18-20 feet grayish orange, moderate to strongly cemented caliche zone (locally hard) present  from 18-20 feet grayish orange, moderate to strongly cemented caliche zone (locally hard) present  GRAVELLY SAND, moderate to strongly cemented caliche zone (locally hard) present  from 18-20 feet grayish orange, moderate to strongly cemented caliche zone (locally hard) present  GRAVELLY SAND, moderate brown (SYR 4/4), clean, 5% silt, 75% sand, 20% gravel, gravel clasts are generally in diameter, maximum size is 3/4 inches, angular to subangular, medium dense, dry to moderate in diameter, maximum size is 3/4 inches, angular to subangular, medium dense, dry to moderate in diameter, maximum size is 3/4 inches, angular to subangular, sedium dense, dry to moderate in diameter, maximum size is 3/4 inches, angular to subangular, sedium dense, dry to moderate in diameter, maximum size is 3/4 inches, angular to subangular, sedium dense, dry to moderate in diameter, maximum size is 3/4 inches, angular to subangular, sedium dense, dry to moderate in diameter, maximum size is 3/4 inches, angular to subangular, sedium dense, dry to moderate in diameter, maximum size is 3/4 inches, angular to subangular, sedium dense, dry to moderate in diameter, maximum size is 3/4 inches, angular to subangular, sedium dense, dry to moderate in diameter, maximum size is 3/4 inches, angular to subangular, sedium dense, dry to moderate in diameter, maximum size is 3/4 inches, angular to subangular, sedium dense, dry to moderate in diameter, maximum size is 3/4 inches, angular to subangular, sedium dense, dry to moderate in diameter, maximum size is 3/4 inches, angular to subangular, sedium dense, dry to moderate	Drilling	Contracto		osonic	; 		I		Backfill: Fremmled grout	Date/Time Finished:	11/9/2006	Water Level. 32 F I	
with minor very fine and very coarse grained sand, 15-20% gravel, gravel dash are generally 175 to 1 diameter, maximum size is 3 inches, angular to subangular, medium dense, dry, no odor/stain  10 SA11-10   10	DEPTH (ft)	Sample ID	Sample Depth (ft	Blows per 6"	Recovery (ft)	Headspace (ppm		Graphic Log	(silt and clay) des gravel), structural moisture content,	cription of coarse gra or mineralogical fea odors or staining.	nined material (sand an tures, density or stiffne	d ss,	
10 SA11-10 SA11-10 SA11-10 In Information 12-15 feet pebble/cobble sized gravel zone present  -from 18-20 feet grayish orange, moderate to strongly cemented caliche zone (locally hard) present  SW 2 GRAVELLY SAND, moderate brown (5YR 4/4), clean, 5% silt, 75% sand, 20% gravel, gravel clasts are ger to 3/4 inch in diameter, maximum size is 3/4 inches, angular to subangular, medium dense, dry to modor/stain  ML  MUDDY CREEK FORMATION: SILT AND SANDY SILT, light brown, 5-10% clay, 80-90% silt, 5-10% sand subrounded, medium dense, moist, no odor/stain, silt and sandy silt interbedded  -from 28-30 feet commonly occuring soft caliche present  -wet at 32 feet		SA11-0.5			10		SW		with minor very fine a diameter, maximum -from 1-2 feet moderate to	and very coarse graine size is 3 inches, angul strongly cemented ca	ed sand, 15-20% gravel, of ar to subangular, mediur liche zone (locally hard)	gravel clasts are generally 1/5 to 1 inch n dense, dry, no odor/stain	
SA11-20  SA11-20  SW GRAVELLY SAND, moderate brown (5YR 4/4), clean, 5% silt, 75% sand, 20% gravel, gravel clasts are ger to 3/4 inch in diameter, maximum size is 3/4 inches, angular to subangular, medium dense, dry to modor/stain  ML  MUDDY CREEK FORMATION: SILT AND SANDY SILT, light brown, 5-10% clay, 80-90% silt, 5-10% sand subrounded, medium dense, moist, no odor/stain, silt and sandy silt interbedded  -from 28-30 feet commonly occuring soft caliche present  -wet at 32 feet		SA11-10			10				-from 12-15 feet pebble/co	bble sized gravel zone	e present		
ML Multiple Creek Formation: SILT AND SANDY SILT, light brown, 5-10% clay, 80-90% silt, 5-10% sand subrounded, medium dense, moist, no odor/stain, silt and sandy silt interbedded  -from 28-30 feet commonly occurring soft caliche present  -wet at 32 feet		SA11-20	<b>&gt;</b>		10		SW		GRAVELLY SAND, model to 3/4 inch in diamet	ate brown (5YR 4/4), o	clean, 5% silt, 75% sand,	20% gravel, gravel clasts are generall	
	30				10		ML		subrounded, mediun	n dense, moist, no odo	or/stain, silt and sandy silt		
			<u> </u>		I	l	<u> </u>	1444	[				
Notes:	No	otes:											

	Client: 1	Fronox LLC		
ENSR AECOM	Project Number: 0			Boring No. SA-11
ALCOM		ocation: Within Tronox old P	-3 pond, Henderson, NV	
ENSR 1220 Avenida Acaso	Coordinates: 2	26718417 N 827564 E	Elevation: 1782 FT	Sheet: 2 of 2
Camarillo, CA 93012 805-388-3775	Drilling Method: S	Sonic with continuous coring		Monitoring Well Installed: No
www.ensr.aecom.com		Split Spoon and Core	Boring Diameter: 7 In.	Screened Interval:
Weather: Clear, slight bree:	e, mid 80's	Logged By:E. Krish	Date/Time Started: 11/9/2006	Depth of Boring: 35 FT
Drilling Contractor: Prosonic	,		Date/Time Finished: 11/9/2006	Water Level: 32 FT
, 0	Headspace (ppm)  Headspace (ppm)  By USCS  Solve in the pin in the	MATERIAL IDENTIFI (silt and clay) desc gravel), structural moisture content,	Date/Time Finished: 11/9/2006  CATION, color, description of fine gription of coarse grained material (so mineralogical features, density or odors or staining.	Water Level: 32 FT  grained material sand and r stiffness,  wn, 5-10% clay, 80-90% silt, 5-10% sand,
Notes:				

					Clie	ant.		TronovIIC			
-	NICD	۸٢٨	10	4	Clie		lumher:	Tronox LLC 04020-023-401			Boring No. SA-12
E	NSR	AEC	JUIV	1				Location: Within Tronox S-1	ond Henderson NV	<i>I</i>	
	ENS					ordina	-	26718609 N 827931 E	Elevation: 1777 FT		Sheet: 1 of 1
	1220 Aveni Camarillo,	CA 930									Monitoring Well Installed: No
	805-388 ww.ensr.a	3-3775						Sonic with continuous coring Split Spoon and Core	Boring Diameter:	7 ln.	Screened Interval:
				bree-	-	-	, γρ <del>υ</del> (δ).		-		
Weath	er: ( Contracto	Clear, s			e, IOW	ŏU'S		Logged By: E. Krish  Backfill: Tremmied grout	Date/Time Started:		Depth of Boring: 31.5 FT  Water Level: 31 FT
פוווווווט	Johnacio		J3UI1IC	<u>,                                      </u>	<u>-</u>			Dackiii. Treminied grout	Date/Time Finished	. 11/10/2000	773.07 20701. 0111
DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	nscs	Graphic Log	(silt and clay) deso gravel), structural moisture content,	cription of coarse groor mineralogical features or staining.	scription of fine grained rained material (sand ar atures, density or stiffne	nd ess,
25 25 25 30 NN POESTION OF STATE OF STA	SA12-0.5 SA12-10	$\times$		10 10 10		ML		sand with minor very diameter, maximum  -from 14-15 feet pebble/co  -from 16-20 feet pebble/co	coarse grained sand size is 4 inches, anguable size gravel zone bble size gravel zone properties of the size gravel zone g	d, 15-25% gravel, gravel cular to subangular, mediui	el with 4 inch cobbles  s, 0-5% sand, subrounded, medium
BORING LOG 04020023401	otes:										

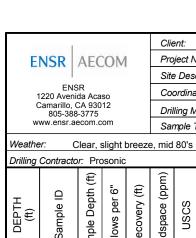
E1	NSR	AEC	OM	1		ent: piect N	lumher:	Tronox LLC 04020-023-401			Boring No. SA-13
E	NON	ALC	.UIV			•		ocation: Tronox leach plant	area. Henderson. NV		1
1 ,	ENS 220 Aveni		00			ordina		26718253 N 828661 E	Elevation: 1798 FT		Sheet: 1 of 2
	amarillo,	CA 930				Drilling Method: Sonic with continuous coring			Monitoring Well Installed: No		
wv	805-388 ww.ensr.a		om					Split Spoon and Core	Boring Diameter:	7 ln.	Screened Interval:
Weathe	er (	Clear, s	sliaht	hreez			31(-)	Logged By: E. Krish	Date/Time Started:		Depth of Boring: 41.5 FT
	Contracto				o, .o			Backfill: Tremmied grout	Date/Time Finished:		Water Level: 41 FT
DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	nscs	Graphic Log	MATERIAL IDENTIF (silt and clay) des gravel), structural moisture content,	material nd ess,		
	SA13-0.5			10	1.81	SW		minor very fine and v	rery coarse grained sa iches, angular to suba	and, 10-25% gravel, grav angular, medium dense, d	
20	SA13-20			10	10.29			-from 20-23 feet pebble/co -from 20-23 feet grayish or	bble size gravel prese ange, moderately cer	ent nented caliche zone pres	ent
30 35 No	SA13-30			10	2.01			-from 30-32 feet pebble/co -from 30-31 feet grayish or exhibits calcareous g	ange, moderately cer	ent nented caliche present, k	ocally thin hard layers, sand and gravel
No.	otes:					ı	<u>18                                    </u>				



Total Depth = 41.5 feet. Boring Terminated Target depth achieved

BORING LOG 04020023401-LOGS.GPJ ENSR CA.GDT 6/6/07

					0"	nt.		Tronov I I C			
-	NICD	۸٢٥	10	4	Clie		lumher:	Tronox LLC 04020-023-401			Boring No. SA-14
E	NSR	AE(	.UIV	I				Location: West end of Beta D	itch Tronox Hender	rson NV	
	ENS					ordina	•	26718920 N 826525 E	Elevation: 1769 FT		Sheet: 1 of 2
	220 Aveni Camarillo,	CA 930						Sonic with continuous corino			Monitoring Well Installed: No
w	805-388 ww.ensr.a		om					Split Spoon and Core	Boring Diameter:	7 ln.	Screened Interval:
Weathe		N	-1:1-4	h		-	rype(s).	1	1		Depth of Boring: 50 FT
	Contracto			breez 、	e, mia	008		Logged By: E. Krish  Backfill: Tremmied grout	Date/Time Started:  Date/Time Finished		Water Level: 36.7 FT
Drilling	Contracto		JSOITIC	<u> </u>	$\overline{}$		Ι	Backiiii. Treminied grout	Date/Time Finished	1. 11/0/2000	Water Level. 30.7 1 1
DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	SOSO	Graphic Log	(silt and clay) desigravel), structural moisture content,	cription of coarse grown or mineralogical fe odors or staining.	escription of fine grained rained material (sand ar atures, density or stiffne	nd
BORING LOG 04020023401-LOGS.GPJ ENSR CA.GDT 6/6/07	SA14-0.5 SA14-10	$\times$		10 10		ML		with minor very fine a in diameter, maximu  -from 17-19 feet cobble siz  -from 22-23 feet semi-hard	and very coarse grain m size is 6 inches, an ted gravel clasts up t I caliche zone preser	ned sand, 15-25% gravel, ingular to subangular, med of inches are present int, sand and gravel clasts	gravel clasts are generally 1/5 to 1-1/2 inch dium dense, dry, no stain/odor  exhibit calcareous coatings  D), light brown, 2-5% clay, 85-95% silt,
401-LOGS.GPJ EN											
35 No	otes:	I	<u> </u>	l	<u> </u>			1			
BORING LOC											



	Client: T	ronox LLC				
	Project Number: 04	4020-023-401				Boring No. SA-14
	Site Description/Loc	cation: West end of Beta D	itch, Tronox, Henders	son, NV		
	Coordinates: 20	6718920 N 826525 E	Elevation: 1769 FT		Sheet: 2	of 2
	Drilling Method: S	onic with continuous coring			Monitoring W	/ell Installed: No
	Sample Type(s): S	plit Spoon and Core	Boring Diameter:	7 ln.	Screened Int	erval:
ze	e, mid 80's	Logged By:E. Krish	Date/Time Started:	11/8/2006	Depth of Bor	ing: 50 FT
_						

Water Level:

36.7 FT

DЕРТН (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	nscs	Graphic Log	MATERIAL IDENTIFICATION, color, description of fine grained material (silt and clay) description of coarse grained material (sand and gravel), structural or mineralogical features, density or stiffness, moisture content, odors or staining.
						ML		MUDDY CREEK FORMATION: SILT AND SANDY SILT (INTERBEDDED), light brown, 2-5% clay, 85-95% silt,
								2-10% sand, subrounded, moist, no stain/odor (continued)
								-wet at 36.7 feet
40				10				
45								
[								
50				10				
50				10				1

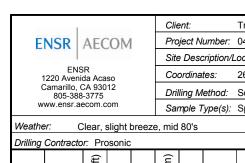
Backfill: Tremmied grout | Date/Time Finished: 11/8/2006

Total Depth = 50 feet. Boring Terminated Target depth achieved

Ш	
23401-LOGS.GPJ	
04020023401	
LOG	

NSR CA.GDT 6/6/07

Peged Nameric - 06229-023-401  Service - 1		ENSR AECOM					ent:	lumber:	Tronox LLC	Boring No. SA-15					
Coordinates: 26719002 N S2779 E Elevation: 1768 FT Sheet 1 of 2  Distiling Method. Sonic with continuous coring Moderate Total Surprise Player(s). Spit Spoon and Core Bordy Dismeter: 7 in. Screened interval: 1. Screened	E	NSK	AEC	.UIV	1		•			Fronox Henderson NV					
Ceresting, CA 8012 Sample Typerial Spall Spoon and Core Boring Dismeter 7 in.  Sample Typerial Spall Spoon and Core Boring Dismeter 7 in.  Meather Clear slight herees, mid 03°s.  Dismed Control of Properties  Backliff Tremmined grout.  B									<del>-</del>			Sheet: 1 of 2			
Weather Clear, sight breazo, mix 9/s   Logoed 8/th Kirsh   Date Time Stander   7 in.   Surgeoid Interval:		Camarillo,	CA 930												
Weather   Ciocar, slight brooze, mid 80's   Logged By E. Krish   Date/Time Started: 118/2006   Dopth of Boring: 49 FT	w			om							ln.				
Deling Contractor   Prosonic   Backfill Tremmied grout   Date/Time Pinshed: 118/2005   Water Level: 37 FT	14/ 11-						-	rype(s).	<u> </u>	T -					
MATERIAL IDENTIFICATION, color, description of fine grained material (sill and clay) description of coarse grained material (sand and gravel), structural or mineralogical features, density or stiffness, mosture content, dods or starting.  SA15-0.5 S						e, mic	180's								
SA15-0.5 SA1	Drilling	Contracto		osonic	;		ı	I	Backfill: Tremmled grout	Date/Time Finished: 1	1/8/2006	water Level: 37 FT			
with minor very fire and very coarse grained sand, 15-25% gravel, gravel clasts are generally 1/5 to 1 inch diameter, maximum size is 2 inches, angular to subangular, medium dense, dry, no odor/stain  -from 3-5 feet pebble/cobble sized gravel, to 2 inches diameter, common  -from 10-13 feet caliche layer, calcareous coatings common on sand and gravel clasts  -from 22-24 feet grayish orange caliche layer, soft, calcareous coatings are common on sand and gravel clasts  -from 22-32 feet grayish orange caliche layer, semi-hard, calcareous coatings are common on sand and gravel clasts  -from 28-32 feet grayish orange caliche layer, semi-hard, calcareous coatings are common on sand and gravel clasts  -from 28-32 feet grayish orange caliche layer, semi-hard, calcareous coatings are common on sand and gravel clasts  -from 28-32 feet grayish orange caliche layer, semi-hard, calcareous coatings are common on sand and gravel clasts  -from 28-32 feet grayish orange caliche layer, semi-hard, calcareous coatings are common on sand and gravel clasts	DEPTH (ft)										d ss,				
-from 10-13 feet caliche layer, calcareous coatings common on sand and gravel clasts  10 SA15-10 10 -from 10-13 feet caliche layer, calcareous coatings common on sand and gravel clasts  15 -from 22-24 feet grayish orange caliche layer, soft, calcareous coatings are common on sand and gravel clasts  25from 28-32 feet grayish orange caliche layer, semi-hard, calcareous coatings are common on sand and gravel clasts  10 -from 28-32 feet grayish orange caliche layer, semi-hard, calcareous coatings are common on sand and gravel clasts  10 -from 28-32 feet grayish orange caliche layer, semi-hard, calcareous coatings are common on sand and gravel clasts  10 -from 28-32 feet grayish orange caliche layer, semi-hard, calcareous coatings are common on sand and gravel clasts		SA15-0.5	$\times$		10		SW		with minor very fine a	and very coarse grained	sand, 15-25% gravel, g	ravel clasts are generally 1/5 to 1 inch in			
-from 10-13 feet caliche layer, calcareous coatings common on sand and gravel clasts  15  20  SA15-20  Afrom 22-24 feet grayish orange caliche layer, soft, calcareous coatings are common on sand and gravel clasts  -from 22-24 feet grayish orange caliche layer, soft, calcareous coatings are common on sand and gravel clasts  Afrom 28-32 feet grayish orange caliche layer, semi-hard, calcareous coatings are common on sand and gravel clasts  MIL TOTAL MUDDY CREEK FORMATION: SILT AND SANDY SILT (INTERBEDDED), light brown, 0-5% clay, 85-100% silt,															
-from 22-24 feet grayish orange caliche layer, soft, calcareous coatings are common on sand and gravel clasts  -from 28-32 feet grayish orange caliche layer, semi-hard, calcareous coatings are common on sand and gravel clasts  ML		SA15-10			10				-from 10-13 feet caliche la	yer, calcareous coatings	s common on sand and	gravel clasts			
Clasts  SA15-30  ML :   MUDDY CREEK FORMATION: SILT AND SANDY SILT (INTERBEDDED), light brown, 0-5% clay, 85-100% silt,		SA15-20			10				-from 22-24 feet grayish o	range caliche layer, soft,	calcareous coatings ar	e common on sand and gravel clasts			
	30	SA15-30			10										
Notes:							ML		MUDDY CREEK FORMAT 0-10% very fine sand	ION: SILT AND SANDY d, subrounded, moist, no	' SILT (INTERBEDDED o odor/stain	), light brown, 0-5% clay, 85-100% silt,			
	NG LOG U402002	otes:													



	Client:	Tronox LLC				
	Project Number:	04020-023-401		Boring No. SA-15		
	Site Description/Lo	ocation: North of Bldg C-1, T	ronox, Henderson, N	IV		
	Coordinates:	26719002 N 827478 E	Elevation: 1768 FT		Sheet: 2	of 2
	Drilling Method:	Sonic with continuous coring			Monitoring	Well Installed: No
	Sample Type(s):	Split Spoon and Core	Boring Diameter:	7 In.	Screened II	nterval:
Zθ	e, mid 80's	Logged By: E. Krish	Date/Time Started:	11/8/2006	Depth of Bo	oring: 40 FT

DEPTH (ft)	Sample ID	Sample Depth (f	Blows per 6"	Recovery (ft)	Headspace (ppm	nscs	Graphic Log	
40				10		ML	*	-we
								Tot

MATERIAL IDENTIFICATION, color, description of fine grained material (silt and clay) description of coarse grained material (sand and gravel), structural or mineralogical features, density or stiffness, moisture content, odors or staining.

Backfill: Tremmied grout | Date/Time Finished: 11/8/2006

MUDDY CREEK FORMATION: SILT AND SANDY SILT (INTERBEDDED), light brown, 0-5% clay, 85-100% silt, 0-10% very fine sand, subrounded, moist, no odor/stain (continued)

Water Level:

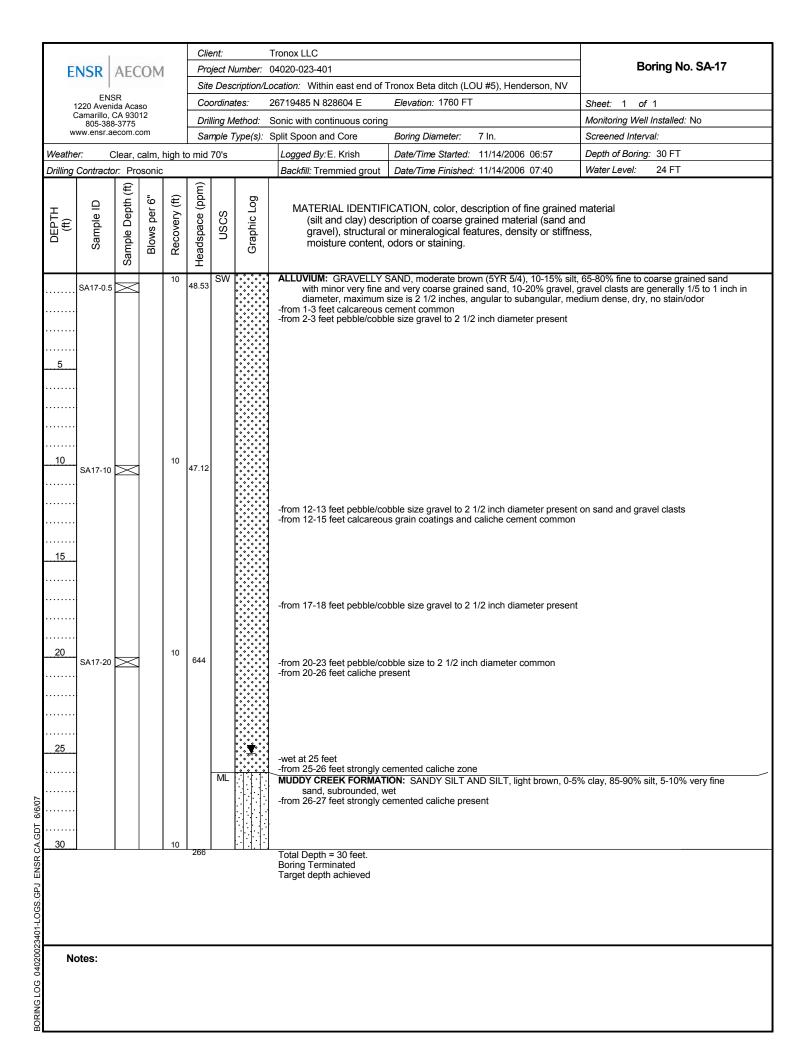
37 FT

wet at 37 feet

Total Depth = 40 feet. Boring Terminated Target depth achieved

Notes:			

Е	NSR	AEC	ON	1		ent: piect N	lumber:	Tronox LLC 04020-023-401	Boring No. SA-16		
E	NON	ALC	JUIV	1				ocation: N. of AP Ponds 1 &	2 in Beta Ditch. Tror	nox. Henderson, NV	7
	ENS					ordina	•	26719270 N 827857 E	Elevation: 1761 FT		Sheet: 1 of 1
	1220 Aveni Camarillo,	CA 930						Sonic with continuous coring			Monitoring Well Installed: No
w	805-388 ww.ensr.a		om					Split Spoon and Core	Boring Diameter:	7 In.	Screened Interval:
Weathe	er. (	Clear, s	sliaht	hreeze			31(-)	Logged By:B. Ho, E. Krish			Depth of Boring: 31.5 FT
	Contracto				o, 11110	1003		Backfill: Tremmied grout	Date/Time Finished		Water Level: 31.5 FT
Brilling	Contracto				<u></u>			Basiami: Hominioa great	Date Time Time Telector		
WATERIAL IDENTIFICATION, color, description of fine graces and the secondary of the seconda										rained material (sand a atures, density or stiffn	ind ess,
	SA16-0.5			10		SW		minor very fine and v diameter, maximum -from 6-8 feet coarse grave	ery coarse grained s size is 2 inches, angu	and, 15-25% gravel, grav ular to subangular, medio er common	60-75% fine to medium grained sand with vel clasts are generally 1/5 to 3/4 inches in um dense, dry, no odor/staining
20	20 SA16-20 SA16-20 -from 20-27 feet color is grayish orange , calcareous grain coatings									reous grain coatings com	nmon on sand and gravel clasts
1								-from 26.5-27 feet hard cal	iche present		
						ML		MUDDY CREEK FORMAT	ON: SILT, moderate		6/6), slightly sandy, 0-5% clay, 90-100%
9/9								silt, 0-5% very fine gr	ained sand, subroun	ded, moist, no odor/stair	ning
<u>30</u>	SA16-30			10							
χ							📗	at 31 fact "factions" (matrix	supported) seems to	None coords areins a	umon, wet at 31 feet
Total Depth = 31.5 feet. Boring Terminated Target depth achieved											inion, wet at 31 leet
MUDDY CREEK FORMATION: SILT, moderate yellowish brow silt, 0-5% very fine grained sand, subrounded, moist, no distribution of the silt, 0-5% very fine grained sand, subrounded, moist, no distribution of the silt, 0-5% very fine grained sand, subrounded, moist, no distribution of the silt, 0-5% very fine grained sand, subrounded, moist, no distribution of the silt, 0-5% very fine grained sand, subrounded, moist, no distribution of the silt, 0-5% very fine grained sand, subrounded, moist, no distribution of the silt, 0-5% very fine grained sand, subrounded, moist, no distribution of the silt, 0-5% very fine grained sand, subrounded, moist, no distribution of the silt, 0-5% very fine grained sand, subrounded, moist, no distribution of the silt, 0-5% very fine grained sand, subrounded, moist, no distribution of the silt, 0-5% very fine grained sand, subrounded, moist, no distribution of the silt, 0-5% very fine grained sand, subrounded, moist, no distribution of the silt, 0-5% very fine grained sand, subrounded, moist, no distribution of the silt, 0-5% very fine grained sand, subrounded, moist, no distribution of the silt, 0-5% very fine grained sand, subrounded, moist, no distribution of the silt, 0-5% very fine grained sand, subrounded, moist, no distribution of the silt, 0-5% very fine grained sand, subrounded, moist, no distribution of the silt, 0-5% very fine grained sand, subrounded, moist, no distribution of the silt, 0-5% very fine grained sand, subrounded, moist, no distribution of the silt, 0-5% very fine grained sand, subrounded, moist, no distribution of the silt, 0-5% very fine grained sand, subrounded, moist, no distribution of the silt, 0-5% very fine grained sand, subrounded, moist, no distribution of the silt, 0-5% very fine grained sand, subrounded, moist, no distribution of the silt, 0-5% very fine grained sand, subrounded, subroun											



		7. =0.4	C764/8-7		-	ent:		Tronox LLC			Poring No. SA 19			
E	NSR	AEC	OM					04020-023-401	45II (I OLL IIO)   Ll d -	ND/	Boring No. SA-18			
	ENS					ordina		ocation: South of Tronox lar 26719849 N 826197 E	Elevation: 1752 FT	erson, inv	Object 4 of 0			
	220 Aveni Camarillo,	CA 930									Sheet: 1 of 2  Monitoring Well Installed: No			
w	805-388 ww.ensr.a		om					Sonic with continuous coring Split Spoon and Core	Boring Diameter:	7 ln.	Screened Interval:			
Weathe	er (	Clear, s	eliaht l	hroozi		-		Logged By: E. Krish	Date/Time Started:		Depth of Boring: 40 FT			
	Contracto				c, mgi	1003		Backfill: Tremmied grout	Date/Time Finished:		Water Level: 31.5 FT			
DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	Graphic Log	MATERIAL IDENTIF (silt and clay) des gravel), structural moisture content,	cription of coarse gra or mineralogical fea	d				
10	SA18-0.5			10	3630	sw		sand with very fine a diameter, maximum -from 1-3 feet calichified co	nd very coarse graine size is 4 inches, angularse gravel to 3 inches coatings common or vel up to 4 inches in coatings.	d sand, 15-25% gravel, gilar to subangular, mediur diameter present	Ow silt, 55-70% fine to coarse grained ravel clasts are generally 1/5 to 1 inch in n dense, dry, no odor/stain  alichified  clasts and minor cement common			
20	SA18-20			10	3170			-from 19-20 feet grayish or -from 22-23 feet gravel up	-from 19-20 feet grayish orange, calcareous coatings on sand and gravel clasts and thin cemented layers common -from 22-23 feet gravel up to 4 inches in diameter present -at 24 feet grayish orange, thin calcareous coating zone present					
BORING LOG 04020023401-LOGS.GPJ ENSR CA.GDT 6/6/07	SA18-30			10		ML		-from 29-30 feet grayish or MUDDY CREEK FORMAT sand, subrounded, moist, wet at 31.5 feet	ION: SILT, light brow	n, with minor sandy silt, 0	-5% clay, 90-100% silt, 0-5% very fine up to 1/10 inch size			
BORING LOG 0402002	Notes:													

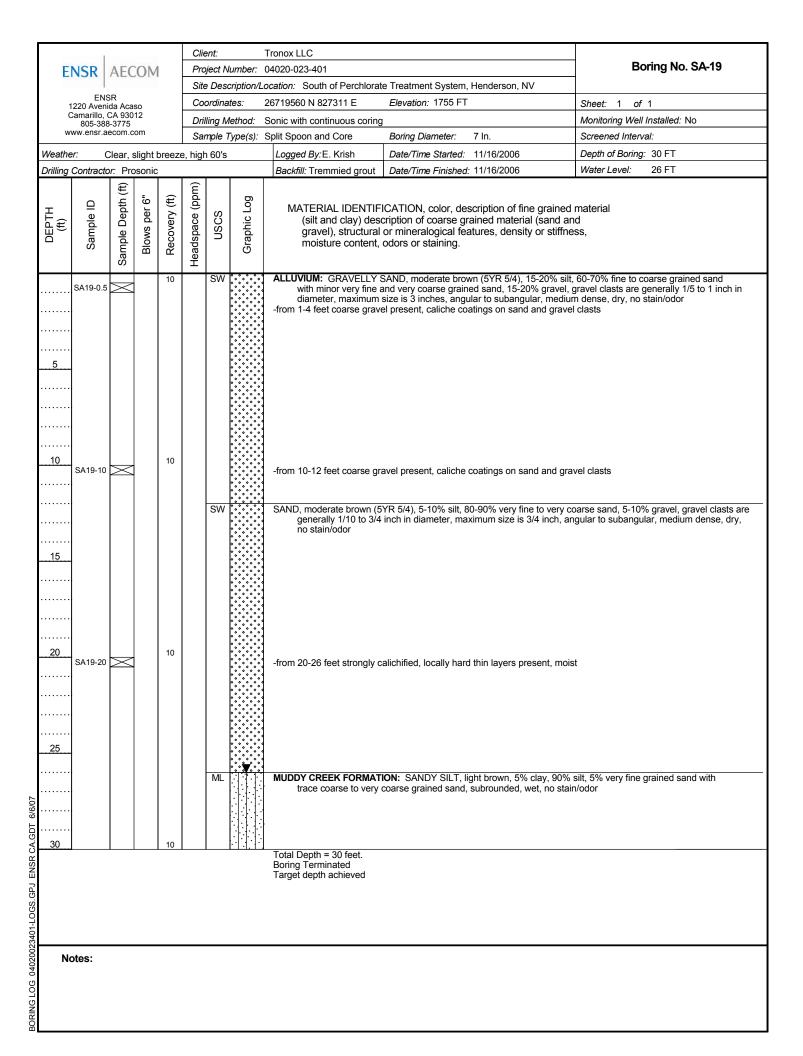


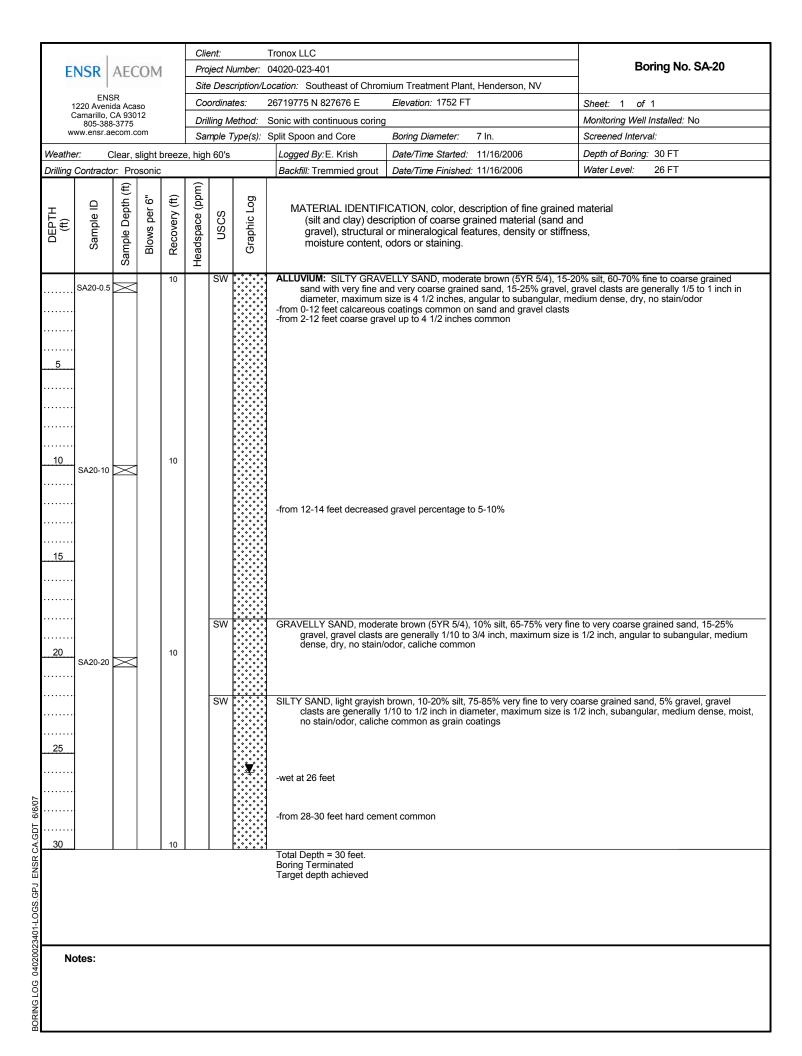
	Client:	Fronox LLC						
	Project Number: 0	)4020-023-401		Boring No. SA-18				
	Site Description/Lo	cation: South of Tronox lan	erson, NV					
	Coordinates: 2	26719849 N 826197 E		Sheet: 2	of 2			
	Drilling Method: S	Sonic with continuous coring			Monitoring	Well Installed: No		
	Sample Type(s): S	Split Spoon and Core	Boring Diameter:	7 ln.	Screened	Interval:		
ze	e, high 60's	Logged By: E. Krish	Date/Time Started:	11/16/2006 10:10	Depth of E	Boring: 40 FT		

	, , ,								<u> </u>	•	
Weathe	r: C	lear, s	slight l	breeze	e, high	n 60's			Logged By:E. Krish	Date/Time Started: 11/16/2006 10:10 Depth of Boring: 40 FT	
Drilling (	Contracto	r: Pro	sonic						Backfill: Tremmied grout	Date/Time Finished: 11/16/2006 11:30	
Sample ID Sample Depth (ft) Blows per 6" Recovery (ft) Headspace (ppm) USCS Graphic Log									(silt and clay) desc	ICATION, color, description of fine grained material cription of coarse grained material (sand and or mineralogical features, density or stiffness, odors or staining.	
ML MUDDY CREEK FORMATION: SILT, light brown, with minor sandy silt, 0-5% clay, 90 sand, subrounded, moist, moderate caliche nodules scattered throughout up to 1/10 i -from 35-40 feet staining and solvent odor present									moderate caliche nodules scattered throughout up to 1/10 inch size (continued)		
	Total Depth = 40 feet.										

Boring Terminated
Target depth achieved

BORING LOG 04020023401-LOGS.GPJ ENSR CA.GDT 6/6/07





					Clie	ent:		Tronox LLC										
El	NSR	AEC	ON	1			lumber:	04020-023-401		Boring No. SA-21								
					Site	e Des	cription/L	ocation: North end of Trono	x Landfill (LOU #1), Her	nderson, NV								
	ENS 220 Aven	da Aca			Со	ordina	ates:	26720981 N 826011 E	Elevation: 1732 FT		Sheet: 1 of 2							
	amarillo, 805-388	3-3775			Dri	lling N	1ethod:	Sonic with continuous coring	I		Monitoring Well Installed: No							
W	ww.ensr.a	ecom.c	om		Sa	mple '	Type(s):	Split Spoon and Core	Boring Diameter: 7	In.	Screened Interval:							
Weathe	er: (	Clear, I	breez	e, high	1 60's			Logged By: E. Krish	Date/Time Started: 1	1/15/2006	Depth of Boring: 40 FT							
Drilling	Contracto		osonic	;		ı	1	Backfill: Tremmied grout	Date/Time Finished: 1	1/15/2006	Water Level: 32 FT							
DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	nscs	Graphic Log	MATERIAL IDENTIF (silt and clay) des gravel), structural moisture content,	nd ess,									
	SA21-10	×		10	4.23	SW		with very fine and ve	ry coarse grained sand, size is 5 inches, angula el zone present	15-20% gravel, gravel r to subangular, mediur	, 60-70% fine to coarse grained sand clasts are generally 1/5 to 1 inch in m dense, dry, no stain/odor							
20	-from 18-20 feet grayish orange, coarse gravel zone present -from 19-20 feet gray orange calcareous grain coatings on sand and gr									atings on sand and grav	el clasts and minor cemeting common							
300 - 300 -	SA21-30  SA21-30  ML  MUDDY CREEK FORMATION: SILT, light brown, interbedded with minor sandy silt, 0-5% clay, 90-100% silt, 0-5% very fine sand, with moderate caliche nodules up to 1 inch, subrounded, moist  -wet at 32 feet																	
BORING LOG 04020023401-LOGS.  NO.	otes:						Notes:											

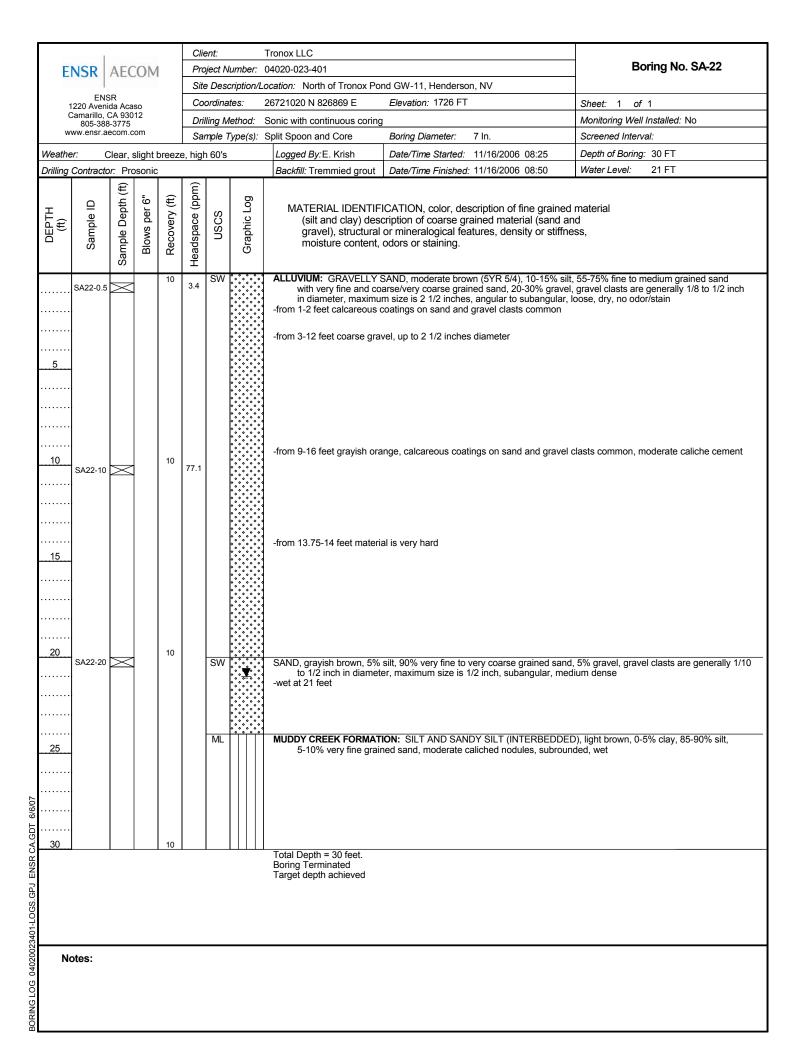


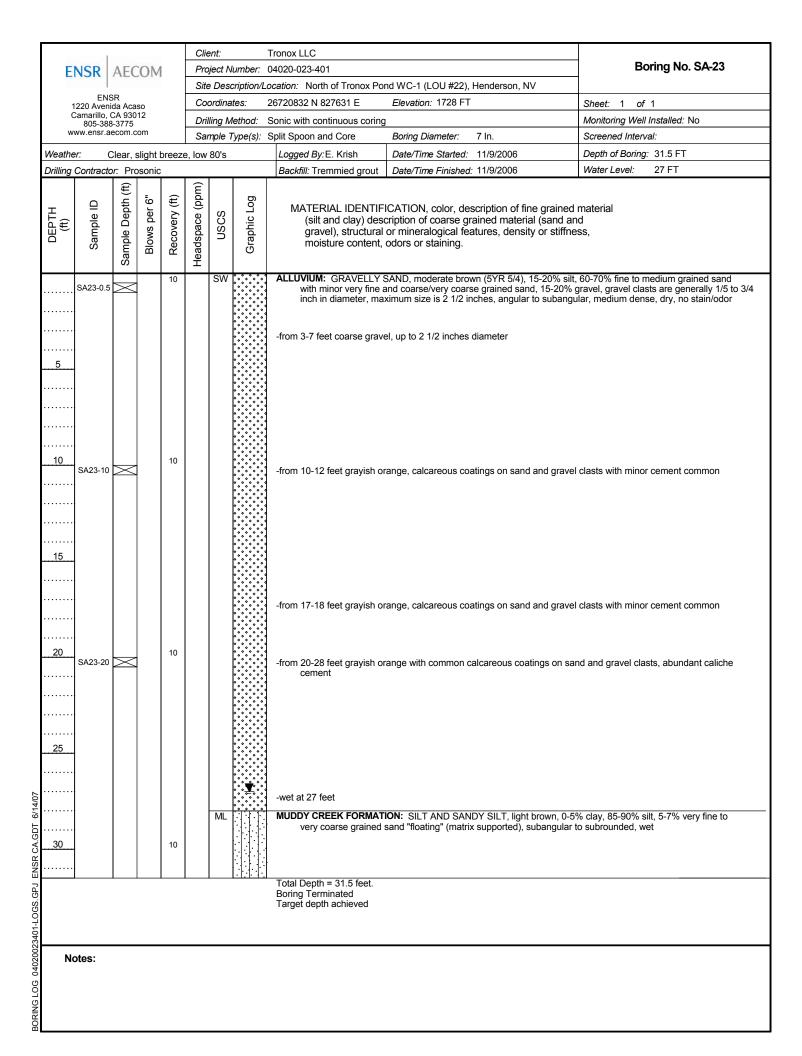
	Client: T	ronox LLC				
	Project Number: 0	4020-023-401			Boring No. SA-21	
	Site Description/Loc	cation: North end of Tronox	lenderson, NV			
	Coordinates: 2	6720981 N 826011 E		Sheet: 2	of 2	
	Drilling Method: S	onic with continuous coring			Monitoring V	Vell Installed: No
	Sample Type(s): S	plit Spoon and Core	Boring Diameter:	7 ln.	Screened In	terval:
gh	60's	Logged By: E. Krish	Date/Time Started:	11/15/2006	Depth of Bo	ring: 40 FT

		, .	·· · · · ·	o,g.							.,			
Drilling	Contracto	r: Pro	osonic	:					Backfill: Tremmied grout	Date/Time Finished: 11/15/2006	Water Level:	32 FT		
Sample ID Sample Depth (ft) Blows per 6" Recovery (ft) Headspace (ppm) USCS Graphic Log							raphic		(silt and clay) deso gravel), structural	MATERIAL IDENTIFICATION, color, description of fine grained material (silt and clay) description of coarse grained material (sand and gravel), structural or mineralogical features, density or stiffness, moisture content, odors or staining.  IUDDY CREEK FORMATION: SILT, light brown, interbedded with minor sandy silt, 0-5% clay, 90-100% silt,				
ML   ML									0-5% very fine sand	ON: SILT, light brown, interbedded with minor with moderate caliche nodules up to 1 inch, so				
	Total Depth = 40 feet.													

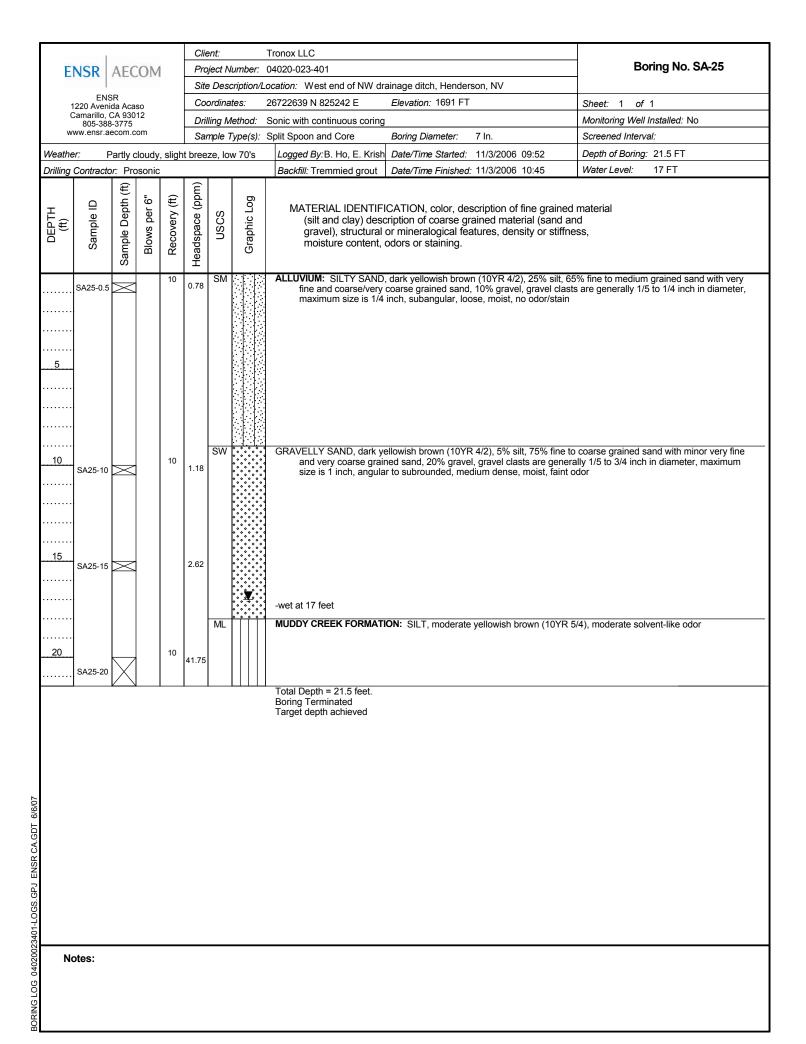
Total Depth = 40 feet. Boring Terminated Target depth achieved

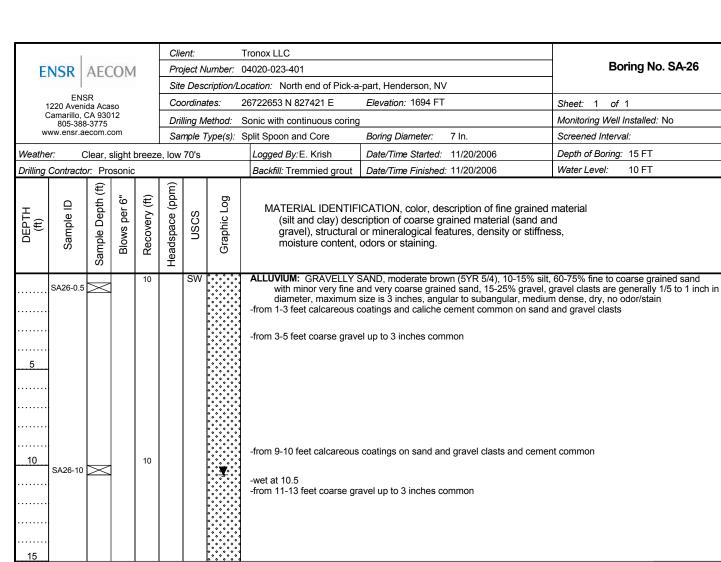
BORING LOG 04020023401-LOGS.GPJ ENSR CA.GDT 6/6/07





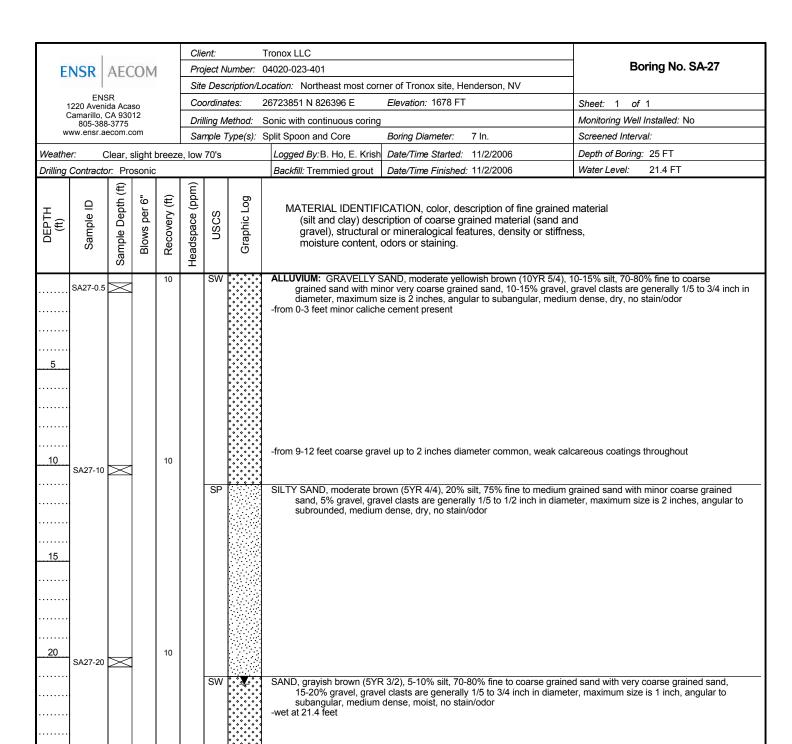
ENICD A ECONA						ent:	lumbor:	Tronox LLC 04020-023-401	Boring No. SA-24			
ENSR   AECOM												
			Site Description/Location: SE corner of Tronox Dillon Potter Ise site, Henderson, NV  Coordinates: 26720958 N 828571 E Elevation: 1727 FT						26.04.4.4.64			
	ENSR 1220 Avenida Acaso Camarillo, CA 93012								Elevation. 1727 1 1		Sheet: 1 of 1	
w	805-388 ww.ensr.a		om					Sonic with continuous coring	Parina Diamatari	7 ln	Monitoring Well Installed: No Screened Interval:	
					-	-		Split Spoon and Core	Boring Diameter:	7 ln.		
Weathe					nt bree	eze, Ic	w 70's	Logged By: B. Ho, E. Krish	Date/Time Started:		Depth of Boring: 30 FT	
Drilling	Contracto		osoni	c T		1	Т	Backfill: Tremmied grout	Date/Time Finished	: 11/3/2006	Water Level: 26 FT	
DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	D Recovery (ft)	Headspace (ppm)	nscs	Graphic Log	MATERIAL IDENTIFICATION, color, description of fine grained material (silt and clay) description of coarse grained material (sand and gravel), structural or mineralogical features, density or stiffness, moisture content, odors or staining.  ALLUVIUM: GRAVELLY SAND, grayish brown (5YR 3/2), 5-15% silt, 65-85% fine to medium grained sand with				
	SA24-0.5	$\geq$		10	6.38	SVV	******	very fine and coarse/	very coarse grained	sand, 10-20% gravel, gr	ravel clasts are generally 1/5 to 3/4 inch in ium dense, dry, no odor/stain	
									I, up to 3 inches dia		oatings common on sand and gravel clasts	
								-ironi 2-o leet millor cancin	e cement present			
								}				
5												
	from 8-9 feet coarse gravel prese								l present			
10	SA24-10			10	4.86							
	3A24-10											
								-from 11-18 feet calcareous	s coatings on sand a	ind gravel clasts and mil	nor cement common	
								}				
45												
15												
								•				
							*****					
								}				
20				10								
<del></del>	SA24-20	$\geq$		10	5.65			-from 20-21 feet coarse gra	ivel up to 4 inches in	diameter present		
								•				
								}				
25								;				
	-from 25-28 feet calcareous coatings on sand and gravel clasts and n							nor cement common				
								-wet at 26 feet				
								}				
9/9						SP	* * * * * * * * * * * * * * * * * * *	SAND, dusky brown, 10%	silt, 80% fine to coars	se grained sand, 10% g	ravel, gravel clasts are generally 1/5 to 3/4	
GDI								inch in diameter, max	timum size is 3/4 inc	h, moderate caliche, su	brounded, medium dense, wet, no odor/stain	
30 30				10	L	ML		MUDDY CREEK FORMATI odor/stain	ON: SILT, light brow	vn, 5% clay, 90% silt, 5%	% fine to coarse grained sand, no	
N N								Total Depth = 30 feet.				
PJ E	Boring Terminated Target depth achieved											
SAND, dusky brown, 10% silt, 80% fine to coarse grained sand, 10% gravel, gravel clasts are generally 1/ inch in diameter, maximum size is 3/4 inch, moderate caliche, subrounded, medium dense, wet, no odor/stain  Total Depth = 30 feet. Boring Terminated Target depth achieved  Notes:												
3401												
No.	otes:											
040												
90												
NG												
S S												
-												





Total Depth = 15 feet. Boring Terminated Target depth achieved

BORING LOG 04020023401-LOGS.GPJ ENSR CA.GDT 6/6/07



Total Depth = 25 feet. Boring Terminated Target depth achieved

Notes:	