

Appendix B

Soil Boring Logs

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	In drainage channel along Lake Mead Parkway, Henderson, NV
<i>Coordinates:</i>	26715052 N 828359 E <i>Elevation:</i> 1876 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

<i>Sheet:</i>	1 of 1
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Partly cloudy, slight breeze, low 70's	<i>Logged By:</i>	B. Ho, E. Krish	<i>Date/Time Started:</i>	11/3/2006 13:18	<i>Depth of Boring:</i>	10 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/3/2006 13:45	<i>Water Level:</i>	Not Encountered

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
.....	SA1-0.5	⊗		10	3.12	SW		ALLUVIUM: GRAVELLY SAND, moderate brown (5YR 5/4), 15-20% silt, 60-70% fine to coarse sand, with very 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
5	SA1-5	⊗			43.35			
10	SA1-10	⊗		10	2.28			

Total Depth = 10 feet.
Boring Terminated
Target depth achieved

Notes:

<i>Client:</i>	Tronox LLC	
<i>Project Number:</i>	04020-023-401	
<i>Site Description/Location:</i>	Southern end of Tronox by former State Ind. lease (LOU #62), Henderson, NV	
<i>Coordinates:</i>	26715802 N 827573 E	<i>Elevation:</i> 1852 FT
<i>Drilling Method:</i>	Sonic with continuous coring	
<i>Sample Type(s):</i>	Split Spoon and Core	<i>Boring Diameter:</i> 7 In.

<i>Sheet:</i>	1 of 2
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Partly cloudy, slight breeze, low 70's	<i>Logged By:</i>	B. Ho, E. Krish	<i>Date/Time Started:</i>	11/3/2006 14:00	<i>Depth of Boring:</i>	70 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/6/2006	<i>Water Level:</i>	65.4 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
0-0.5	SA2-0.5	0-0.5		10	1.78	SW		CONCRETE, 0-0.5 feet
0-5								ALLUVIUM: GRAVELLY SILTY SAND, moderate yellowish brown (10YR 5/4), 5-10% silt, 70-80% fine to coarse grained sand, with minor very fine and very coarse grained sand, 15-20% gravel - generally 0.5-1 inches in diameter, up to 3 inches maximum, medium dense, dry to moist, no stain/odor
5-6								-at 6 feet caliche nodules present up to 3 inches in diameter
6-7								-at 7 feet material is 90% fine to medium grained sand with minor coarse to very coarse grained sand
10-10	SA2-10	10-10		10	0.76			
15-20								
20-20	SA2-20	20-20		10	3.74			
22-25								-from 22 to 25 feet very fine to coarse grained sand with pea gravel, calcareous grain coatings are common
25-27								
27-31								-from 27 to 31 feet grayish orange caliche, locally hard, in fine to medium grained nodules to 2 inches in diameter
30-30	SA2-30	30-30		10		SM		MUDDY CREEK FORMATION: SILTY SAND, moderate yellow brown (10YR 5/4), 25-30% silt, 65-70% fine to medium grained sand, with minor coarse grains present, 5% gravel up to 3/8 inch in diameter, medium dense, dry, calcareous grain coatings, no stain/odor
35-35								

Notes:

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	Southern end of Tronox by former State Ind. lease (LOU #62), Henderson, NV
<i>Coordinates:</i>	26715802 N 827573 E <i>Elevation:</i> 1852 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

<i>Sheet:</i>	2 of 2
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Partly cloudy, slight breeze, low 70's	<i>Logged By:</i>	B. Ho, E. Krish	<i>Date/Time Started:</i>	11/3/2006 14:00	<i>Depth of Boring:</i>	70 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/6/2006	<i>Water Level:</i>	65.4 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
40	SA2-40			10		SM		MUDDY CREEK FORMATION: SILTY SAND, moderate yellow brown (10YR 5/4), 25-30% silt, 65-70% fine to medium grained sand, with minor coarse grains present, 5% gravel up to 3/8 inch in diameter, medium dense, dry, calcareous grain coatings, no stain/odor (<i>continued</i>)
50	SA2-50			10		SP		SAND TO SILTY SAND, moderate yellow brown (10YR 5/4), 10% silt, 90% very fine to medium grained sand with a trace of coarse grained sand, medium dense, moist, with moderately common caliche grains, no stain/odor
60	SA2-60			10				-from 56 to 57 feet caliche common -from 59 to 60 feet caliche common
65								-from 65 to 67 feet caliche nodules present up to 2 inches in diameter
70				10		SM		SILTY SAND, moderate yellow brown, 35% silt, 65% very fine grained sand to fine grained sand with minor coarse grained sand, medium dense, wet

Notes:

Total Depth = 70 feet.
Boring Terminated
Target depth achieved

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	North of Unit I, Tronox, Henderson, NV
<i>Coordinates:</i>	26717303 N 826954 E <i>Elevation:</i> 1813 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Boring No. SA-3	
<i>Sheet:</i>	1 of 2
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Clear, calm, high to mid 70's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/14/2006	<i>Depth of Boring:</i>	50 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/14/2006	<i>Water Level:</i>	41 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
5	SA3-0.5	0.5		10	20.18	SW		ALLUVIUM: GRAVELLY SAND, moderate brown (5YR 3/4), 10% silt, 60% fine to coarse sand, with minor amounts of very fine and very coarse grained sand, 30% gravel, gravel clasts are generally 1/5 to 3/4 inch in diameter, maximum size is 1.5 inches, medium dense, dry, no stain/odor
10	SA3-10	10		10	7.06			-from 7 to 9 feet locally calichefied
15								-at 15 feet minor caliche present
20	SA3-20	20		10	11.81			-from 22 to 28 feet caliche present, large nodules to 2 inches diameter
25								-from 28 to 30 feet , grayish orange, moist, with abundant caliche
30	SA3-30	30		10	274	ML		MUDDY CREEK FORMATION: SANDY SILT, brown, 75-85% silt, 15-25% very fine grained sand, moist, no odor
35								

Notes:

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	North of Unit I, Tronox, Henderson, NV
<i>Coordinates:</i>	26717303 N 826954 E <i>Elevation:</i> 1813 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Boring No. SA-3	
<i>Sheet:</i>	2 of 2
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Clear, calm, high to mid 70's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/14/2006	<i>Depth of Boring:</i>	50 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/14/2006	<i>Water Level:</i>	41 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	Graphic Log	
40				10		ML		MUDDY CREEK FORMATION: SANDY SILT, brown, 75-85% silt, 15-25% very fine grained sand, moist, no odor <i>(continued)</i>
45						ML		SILT, brown, 5% clay, 95% silt, medium plasticity, damp, no odor -wet at 41 feet
50				10				



Total Depth = 50 feet.
Boring Terminated
Target depth achieved

Notes:

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	North of Unit 2, Tronox, Henderson, NV
<i>Coordinates:</i>	26717490 N 827581 E <i>Elevation:</i> 1812 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Boring No. SA-4	
<i>Sheet:</i>	1 of 2
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Clear, calm, high to mid 70's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/14/2006 11:50	<i>Depth of Boring:</i>	45 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/14/2006 14:15	<i>Water Level:</i>	44 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
5	SA4-0.5	0.5		10	249	SW		ALLUVIUM: GRAVELLY SAND, moderate brown (5YR 4/4), 10-15% silt, 55-75% fine to coarse grained sand with minor very fine and very coarse grained sand, 15-30% gravel, gravel clasts are generally 1/5 to 1 inch diameter, maximum size is 5 inches, subangular to angular, medium dense, dry, no odor/stain -from 1-2 feet predominantly pea gravel, 1/4 to 5/8 inches diameter, with minor volcanic cobbles, 3 to 5 inches diameter, moderately calichified -from 4-6 feet gray orange, moderately calichified zone -from 8-10 feet predominantly pea gravel, 1/4 to 5/8 inches diameter, with minor volcanic cobbles, 3 to 5 inches diameter -from 14-15 feet gray orange, moderately cemented caliche zone -moist at 15 feet -from 19-20 feet gray orange, moderately cemented caliche zone -from 19.5-20 feet hard caliche zone -from 23-25 feet gray orange, moderately cemented caliche zone
10	SA4-10	10		10	235			
15								
20	SA4-20	20		10	279			
25								
30	SA4-30	30		10	239	GM		SILTY SANDY GRAVEL, moderate brown (5YR 5/4), 10% silt, 40 % sand, 50% gravel, gravel clasts are generally 1/4 to 5/8 inch in diameter, maximum size is 3/4 inch, subangular to subrounded, loose, moist, no odor/stain -from 29-36 feet grayish orange with commonly occurring calcareous grain coatings
35								


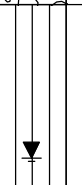
Notes:

BORING LOG 0-4020203-401-LOGS.GPJ ENSR CA.GDT 6/6/07

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	North of Unit 2, Tronox, Henderson, NV
<i>Coordinates:</i>	26717490 N 827581 E <i>Elevation:</i> 1812 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Boring No. SA-4	
<i>Sheet:</i>	2 of 2
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Clear, calm, high to mid 70's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/14/2006 11:50	<i>Depth of Boring:</i>	45 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/14/2006 14:15	<i>Water Level:</i>	44 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	Graphic Log	
..... 40	SA4-40	⊗		10	215	GM		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. SILTY SANDY GRAVEL, moderate brown (5YR 5/4), 10% silt, 40 % sand, 50% gravel, gravel clasts are generally 1/4 to 5/8 inch in diameter, maximum size is 3/4 inch, subangular to subrounded, loose, moist, no odor/stain (continued)
..... 45						ML		MUDDY CREEK FORMATION: SILT, light brown, 0-5% clay, 90% silt, 0-5% sand, moist, no odor/stain -from 40-42 feet with minor "floating" (matrix supported) very coarse sand grains -wet at 44 feet

Total Depth = 45 feet.
Boring Terminated
Target depth achieved

Notes:

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	North of Unit 3, Tronox, Henderson, NV
<i>Coordinates:</i>	26717488 N 827956 E <i>Elevation:</i> 1813 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Boring No. SA-5	
<i>Sheet:</i>	1 of 2
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Clear, calm, high to mid 70's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/14/2006 08:35	<i>Depth of Boring:</i>	40 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/14/2006 09:50	<i>Water Level:</i>	37 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
5	SA5-0.5	0.5		10	312	SW		ALLUVIUM: GRAVELLY SAND, moderate brown (5YR 5/4), 5-15% silt, 70% fine to coarse grained sand, with minor very fine and very coarse grained sand, 15-25% gravel, gravel clasts are generally 1/4 to 1-1/4 inch in diameter, maximum size is 5 inches, angular to subangular, medium dense, dry, no stain/odor
10	SA5-10	10		10	335			-from 9-10 feet grayish orange, moderately hard caliche zone present
20	SA5-20	20		10	160			-from 19-20 feet grayish orange, moderately hard caliche zone present, dry to moist
25								-from 21-27 feet grayish orange, moderately hard caliche zone present, dry to moist
30	SA5-30	30		10	278			-from 29-32 feet grayish orange, moderately hard caliche zone present, moist
35						ML		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

Notes:

BORING LOG 0-4020203-401-LOGS.GPJ ENSR CA.GDT. 6/6/07

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	North of Unit 3, Tronox, Henderson, NV
<i>Coordinates:</i>	26717488 N 827956 E <i>Elevation:</i> 1813 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Boring No. SA-5	
<i>Sheet:</i>	2 of 2
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Clear, calm, high to mid 70's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/14/2006 08:35	<i>Depth of Boring:</i>	40 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/14/2006 09:50	<i>Water Level:</i>	37 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	Graphic Log	
.....						ML		<p>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.</p> <p>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 (<i>continued</i>)</p> <p>-wet at 37 feet</p>
.....								
.....								
.....								
40				10				

Total Depth = 40 feet.
Boring Terminated
Target depth achieved

Notes:

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	North of Unit 4, Tronox, Henderson, NV
<i>Coordinates:</i>	26717587 N 828169 E <i>Elevation:</i> 1813 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Boring No. SA-6	
<i>Sheet:</i>	1 of 2
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Clear, calm, high to mid 70's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/14/2006 06:25	<i>Depth of Boring:</i>	41.5 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/14/2006 07:45	<i>Water Level:</i>	36 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
5	SA6-0.5	0.5		10	224	SW		ALLUVIUM: GRAVELLY SAND , moderate brown (5YR 5/4) and gray orange in caliche zones, 10-15% silt, 60-75% fine to coarse grained sand with minor very fine and very coarse grained sand, 15-25% gravel, gravel clasts are generally 1/5 to 3/4 inch in diameter, maximum size is 6 inches, angular to subrounded, medium dense, dry, no stain/odor
10	SA6-10	10		10	63.13			-from 4-6 feet gray orange, caliche zone present -from 4-9 feet coarse gravel zone present
15								-from 14-15 feet gray orange, caliche zone present -from 14-16 feet coarse gravel zone present
20	SA6-20	20		10	46.61			-from 19-20 feet gray orange, caliche zone present
25								-from 25-26 feet coarse gravel zone and gray orange caliche zone present
30	SA6-30	30		10	3.08			-moist at 27 feet -from 29-30 feet whitish gray caliche zone present
35						ML		-from 32-34 feet caliche zone present
								MUDDY CREEK FORMATION: SILT , light brown, 5-10% clay, 85-90% silt, 0-5% very fine grained sand and minor sand size caliche nodules, subrounded, no stain/odor

Notes:

BORING LOG 04020203401-LOGS.GPJ ENSR CA.GDT 6/6/07

<i>Client:</i> Tronox LLC
<i>Project Number:</i> 04020-023-401
<i>Site Description/Location:</i> North of Unit 4, Tronox, Henderson, NV
<i>Coordinates:</i> 26717587 N 828169 E <i>Elevation:</i> 1813 FT
<i>Drilling Method:</i> Sonic with continuous coring
<i>Sample Type(s):</i> Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Boring No. SA-6
<i>Sheet:</i> 2 of 2
<i>Monitoring Well Installed:</i> No
<i>Screened Interval:</i>

<i>Weather:</i> Clear, calm, high to mid 70's	<i>Logged By:</i> E. Krish	<i>Date/Time Started:</i> 11/14/2006 06:25	<i>Depth of Boring:</i> 41.5 FT
<i>Drilling Contractor:</i> Prosonic	<i>Backfill:</i> Tremmied grout	<i>Date/Time Finished:</i> 11/14/2006 07:45	<i>Water Level:</i> 36 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	Graphic Log	
.....						ML		<p>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.</p> <p>MUDDY CREEK FORMATION: SILT, light brown, 5-10% clay, 85-90% silt, 0-5% very fine grained sand and minor sand size caliche nodules, subrounded, no stain/odor (continued) -wet at 36 feet</p>
.....								
.....								
.....								
40				10	12.6			

Total Depth = 41.5 feet.
Boring Terminated
Target depth achieved

Notes:

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	North of Unit 5, Tronox, Henderson, NV
<i>Coordinates:</i>	26717605 N 828627 E <i>Elevation:</i> 1814 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Boring No. SA-7	
<i>Sheet:</i>	1 of 2
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	
<i>Weather:</i>	Clear, slight breeze, low 70's
<i>Logged By:</i>	E. Krish
<i>Date/Time Started:</i>	11/20/2006 06:45
<i>Depth of Boring:</i>	40 FT
<i>Drilling Contractor:</i>	Prosonic
<i>Backfill:</i>	Tremmied grout
<i>Date/Time Finished:</i>	11/20/2006 07:50
<i>Water Level:</i>	36 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
5	SA7-0.5	0.5		10	4.45	SW		ALLUVIUM: GRAVELLY SAND, moderate brown (5YR 4/4) and grayish orange in caliche zones, 10-15% silt, 55-75% fine to coarse grained sand with minor very fine and very coarse grained sand, 20-30% gravel, gravel clasts are generally 1/5 to 3/4 inch in diameter, maximum size is 6 inches, angular to subangular, medium dense, dry, no stain/odor
10	SA7-10	10		10	2650			-from 9-10 feet cobble size, sandy gravel zone present -from 9-10 feet grayish orange, moderately cemented caliche zone present
15								
20	SA7-20	20		10				-from 17-21 feet cobble size, sandy gravel zone present -from 19-20 feet grayish orange, moderately cemented caliche zone present
25								
30	SA7-30	30		10				-from 27-30 feet cobble sized, sandy gravel zone present -from 29-30 feet grayish orange, moderately cemented caliche zone present
35								-from 31-35 feet grayish orange, moderately cemented caliche zone present, very hard from 34.5 to 35 feet, moist

Notes:

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	North of Unit 5, Tronox, Henderson, NV
<i>Coordinates:</i>	26717605 N 828627 E <i>Elevation:</i> 1814 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Boring No. SA-7	
<i>Sheet:</i>	2 of 2
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Clear, slight breeze, low 70's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/20/2006 06:45	<i>Depth of Boring:</i>	40 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/20/2006 07:50	<i>Water Level:</i>	36 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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: 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
40				10				

Total Depth = 40 feet.
Boring Terminated
Target depth achieved

Notes:

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	North of Unit 6, Tronox, Henderson, NV
<i>Coordinates:</i>	26717704 N 829062 E <i>Elevation:</i> 1813 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Boring No. SA-8	
<i>Sheet:</i>	1 of 2
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Clear, slight breeze, low 70's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/17/2006	<i>Depth of Boring:</i>	47 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/17/2006	<i>Water Level:</i>	38 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
5	SA8-0.5	0.5		10	107	SW		ALLUVIUM: GRAVELLY SAND, moderate brown (5YR 4/4), 10-15% silt, 65-85% fine to coarse grained sand with minor very fine and very coarse grained sand, 10-20% gravel, gravel clasts are generally 1/5 to 3/4 inch in diameter, maximum size is 4.5 inches, angular to subangular, medium dense, dry, no stain/odor
10	SA8-10	10		10	139			-from 8-9 feet pebble/cobble size gravel present
15								-from 15-25 feet dry to moist
20	SA8-20	20		10	1610			-from 18-20 feet grayish orange moderately cemented caliche zone present
25								-from 21-23 feet pebble/cobble size gravel present
30	SA8-30	30		10	703			-moist at 27 feet -from 29-30 feet pebble/cobble size gravel present -from 29-30 feet grayish orange moderately cemented caliche zone present
35								-from 34-36 feet grayish orange moderately cemented caliche zone present

Notes:

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	North of Unit 6, Tronox, Henderson, NV
<i>Coordinates:</i>	26717704 N 829062 E <i>Elevation:</i> 1813 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Boring No. SA-8	
<i>Sheet:</i>	2 of 2
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Clear, slight breeze, low 70's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/17/2006	<i>Depth of Boring:</i>	47 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/17/2006	<i>Water Level:</i>	38 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
.....						SW		ALLUVIUM: GRAVELLY SAND, moderate brown (5YR 4/4), 10-15% silt, 65-85% fine to coarse grained sand with minor very fine and very coarse grained sand, 10-20% gravel, gravel clasts are generally 1/5 to 3/4 inch in diameter, maximum size is 4.5 inches, angular to subangular, medium dense, dry, no stain/odor <i>(continued)</i> -from 37-38 feet grayish orange moderately cemented caliche zone present -wet at 37 feet
40				10	291	ML		
.....								MUDDY CREEK FORMATION: SANDY SILT, light brown, 5% clay, 70% silt, 25% sand, wet -at 40 feet very fine grained sand and minor scattered "floating" (matrix supported) coarse to very coarse grained sand present
45								

Total Depth = 47 feet.
Boring Terminated
Target depth achieved

Notes:

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	Southwest side of Tronox near LOU #35, Henderson, NV
<i>Coordinates:</i>	26718354 N 826545 E <i>Elevation:</i> 1781 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

<i>Sheet:</i>	1 of 2
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Clear, slight breeze, high 70's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/7/2006	<i>Depth of Boring:</i>	50 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/7/2006	<i>Water Level:</i>	44 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
5	SA9-0.5	0-5		10		SW		ALLUVIUM: GRAVELLY SAND , moderate brown (5YR 5/4), 10-15% silt, 65-75% fine to coarse grained sand with minor very fine and very coarse grained sand, 15-20% moderate pea gravel, gravel clasts are generally 1/5 to 1 inch in diameter, maximum size is 3 inches, angular to subangular, medium dense, dry, no odor/stain -from 0-2 feet strong to moderately cemented caliche zone present
10	SA9-10	5-10		10		SW		-from 9-10 feet strong to moderately cemented caliche zone present
15						SW		-from 13-15 feet pebble/cobble (up to 3 inches) gravel zone
20	SA9-20	10-20		10		SW		-from 18-20 feet strong to moderately cemented caliche zone present, sand and gravel clasts exhibit common calcareous coatings
25						ML		MUDDY CREEK FORMATION: SANDY SILT , moderate brown (5YR 4/4), 0-5% clay, 85% silt, 10-15% very fine grained sand, sparse to moderate caliche nodules to 1 inch, subrounded, medium dense, dry to moist, no odor/stain
30						ML		SILT AND MINOR SANDY SILT, light brown, 0-5% clay, 95-100% silt, 0-5% sand, with minor scattered caliche nodules to 1/2 inch, subrounded, moist, no odor/stain
35								

Notes:

Client: Tronox LLC
Project Number: 04020-023-401
Site Description/Location: Southwest side of Tronox near LOU #35, Henderson, NV
Coordinates: 26718354 N 826545 E *Elevation:* 1781 FT
Drilling Method: Sonic with continuous coring
Sample Type(s): Split Spoon and Core *Boring Diameter:* 7 In.

Boring No. SA-9

Sheet: 2 of 2
Monitoring Well Installed: No
Screened Interval:

Weather: Clear, slight breeze, high 70's *Logged By:* E. Krish *Date/Time Started:* 11/7/2006 *Depth of Boring:* 50 FT
Drilling Contractor: Prosonic *Backfill:* Tremmied grout *Date/Time Finished:* 11/7/2006 *Water Level:* 44 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	Graphic Log	
.....						ML		<p>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.</p> <p>SILT AND MINOR SANDY SILT, light brown, 0-5% clay, 95-100% silt, 0-5% sand, with minor scattered caliche nodules to 1/2 inch, subrounded, moist, no odor/stain (continued)</p> <p>-wet at 44 feet</p>
40				10				
45							▼	
.....								
50				10				

Total Depth = 50 feet.
 Boring Terminated
 Target depth achieved

Notes:

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	N. of Tronox rail line by fmr Koch Ise (LOU #64), Henderson, NV
<i>Coordinates:</i>	26718137 N 827053 E <i>Elevation:</i> 1786 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Sheet: 1 of 2

Monitoring Well Installed: No

Screened Interval:

<i>Weather:</i>	Clear, slight breeze, high 70's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/7/2006	<i>Depth of Boring:</i>	50 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/7/2006	<i>Water Level:</i>	40 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
5	SA10-0.5	0.5		10		SW		<p>ALLUVIUM: GRAVELLY SAND, moderate brown (5YR 4/4), grayish orange in caliche zones, 10-15% silt, 60-75% sand, 15-25% gravel, gravel clasts are generally 1/5 to 1 inch, maximum size is 2-1/2 inches, angular to subangular, medium dense, dry</p> <p>-from 0-2 feet moderate to strongly cemented caliche zone present</p> <p>-from 3-5 feet pebble/cobble sized gravel zone present</p> <p>-from 8-10 feet grayish orange, moderate to strongly cemented caliche zone present</p> <p>-from 12-14 feet pebble/cobble sized gravel zone present</p> <p>-from 18-20 feet grayish orange, moderate to strongly cemented caliche zone present</p>
10	SA10-10	10		10		SW		
15						SW		
20	SA10-20	20		10		ML		
25						ML		<p>MUDDY CREEK FORMATION: SANDY SILT, light brown, 0-5% clay, 60-70% silt, 25-30% very fine grained sand with minor medium to very coarse grained sand, sand is "floating" (matrix supported), subrounded, dry to moist, minor staining and odor from 20-22 feet</p>
30	SA10-30	30		10		ML		
35						ML		<p>-at 30 feet no odor/stain observed</p>
						ML		<p>SILT TO SANDY SILT, light brown, with minor sandy silt interbedded, 0-5% clay, 90-100% silt, 0-5% sand, subrounded, dry to moist, no odor/stain</p>

Notes:

Client: Tronox LLC
 Project Number: 04020-023-401
 Site Description/Location: N. of Tronox rail line by fmr Koch Ise (LOU #64), Henderson, NV
 Coordinates: 26718137 N 827053 E Elevation: 1786 FT
 Drilling Method: Sonic with continuous coring
 Sample Type(s): Split Spoon and Core Boring Diameter: 7 In.

Boring No. SA-10

Sheet: 2 of 2
 Monitoring Well Installed: No
 Screened Interval:

Weather: Clear, slight breeze, high 70's
 Logged By: E. Krish
 Date/Time Started: 11/7/2006
 Depth of Boring: 50 FT
 Drilling Contractor: Prosonic
 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)	USCS	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. SILT TO SANDY SILT, light brown, with minor sandy silt interbedded, 0-5% clay, 90-100% silt, 0-5% sand, subrounded, dry to moist, no odor/stain (continued) -wet at 40 feet
40	SA10-40	⊗		10		ML	▼	
.....								
45								
.....								
50				10				

Total Depth = 50 feet.
 Boring Terminated
 Target depth achieved

Notes:

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	Within Tronox old P-3 pond, Henderson, NV
<i>Coordinates:</i>	26718417 N 827564 E <i>Elevation:</i> 1782 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Boring No. SA-11	
<i>Sheet:</i>	1 of 2
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	
<i>Weather:</i>	Clear, slight breeze, mid 80's
<i>Logged By:</i>	E. Krish
<i>Date/Time Started:</i>	11/9/2006
<i>Depth of Boring:</i>	35 FT
<i>Drilling Contractor:</i>	Prosonic
<i>Backfill:</i>	Tremmied grout
<i>Date/Time Finished:</i>	11/9/2006
<i>Water Level:</i>	32 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
5	SA11-0.5	0.5		10		SW		ALLUVIUM: GRAVELLY SAND , moderate brown (5YR 4/4), 15-20% silt, 60-70% fine to coarse grained sand with minor very fine and very coarse grained sand, 15-20% gravel, gravel clasts are generally 1/5 to 1 inch in 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 4-6 feet pebble/cobble sized gravel zone present
10	SA11-10	10		10		SW		-from 12-15 feet pebble/cobble sized gravel zone present
15								
20	SA11-20	20		10		SW		-from 18-20 feet grayish orange, moderate to strongly cemented caliche zone (locally hard) present
25								
30				10		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 occurring soft caliche present
35								-wet at 32 feet

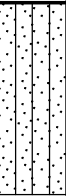
Notes:

BORING LOG 0-4020203-401-LOGS.GPJ ENSR CA.GDT 6/6/07

<i>Client:</i> Tronox LLC
<i>Project Number:</i> 04020-023-401
<i>Site Description/Location:</i> Within Tronox old P-3 pond, Henderson, NV
<i>Coordinates:</i> 26718417 N 827564 E <i>Elevation:</i> 1782 FT
<i>Drilling Method:</i> Sonic with continuous coring
<i>Sample Type(s):</i> Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Boring No. SA-11	
<i>Sheet:</i> 2 of 2	
<i>Monitoring Well Installed:</i> No	
<i>Screened Interval:</i>	

<i>Weather:</i> Clear, slight breeze, mid 80's	<i>Logged By:</i> E. Krish	<i>Date/Time Started:</i> 11/9/2006	<i>Depth of Boring:</i> 35 FT
<i>Drilling Contractor:</i> Prosonic	<i>Backfill:</i> Tremmied grout	<i>Date/Time Finished:</i> 11/9/2006	<i>Water Level:</i> 32 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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, light brown, 5-10% clay, 80-90% silt, 5-10% sand, subrounded, medium dense, moist, no odor/stain, silt and sandy silt interbedded (<i>continued</i>)
								Total Depth = 35 feet. Boring Terminated Target depth achieved

Notes:

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	Within Tronox S-1 pond, Henderson, NV
<i>Coordinates:</i>	26718609 N 827931 E <i>Elevation:</i> 1777 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Boring No. SA-12	
<i>Sheet:</i>	1 of 1
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Clear, slight breeze, low 80's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/10/2006	<i>Depth of Boring:</i>	31.5 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/10/2006	<i>Water Level:</i>	31 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
5	SA12-0.5	0.5		10		SW		ALLUVIUM: GRAVELLY SAND, moderate brown (5YR 4/4), 10-15% silt, 60-75% very fine to coarse grained sand with minor very coarse grained sand, 15-25% gravel, gravel clasts are generally 1/5 to 3/4 inch in diameter, maximum size is 4 inches, angular to subangular, medium dense, dry, no odor/stain
10	SA12-10	10		10				-from 14-15 feet pebble/cobble size gravel zones present
15								-from 16-20 feet pebble/cobble size gravel zones present, 40% pea gravel with 4 inch cobbles
20	SA12-20	20		10				
25								-from 26-28 feet grayish orange caliche zone present, locally hard
30	SA12-30	30		10		ML		MUDDY CREEK FORMATION: SILT, light brown, 0-5% clay, 90-95% silt, 0-5% sand, subrounded, medium dense, moist, no odor/stain
								-wet at 31 feet

Total Depth = 31.5 feet.
Boring Terminated
Target depth achieved

Notes:

BORING LOG 0-4020203-401-LOGS.GPJ ENSR CA.GDT 6/6/07

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	Tronox leach plant area, Henderson, NV
<i>Coordinates:</i>	26718253 N 828661 E <i>Elevation:</i> 1798 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Boring No. SA-13	
<i>Sheet:</i>	1 of 2
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Clear, slight breeze, low 70's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/17/2006 12:55	<i>Depth of Boring:</i>	41.5 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/17/2006 14:50	<i>Water Level:</i>	41 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
5	SA13-0.5	0.5		10	3.7	SW		ALLUVIUM: GRAVELLY SAND, moderate brown (5YR 4/4), 15% silt, 60-75% fine to coarse grained sand with minor very fine and very coarse grained sand, 10-25% gravel, gravel clasts are 1/5 to 1 inch in diameter, maximum size is 5 inches, angular to subangular, medium dense, dry, no stain/odor
10	SA13-10	10		10	1.81			-from 9-10 feet pebble/cobble size gravel present -from 10-11 feet grayish orange, moderately cemented caliche zone present
20	SA13-20	20		10	10.29			-from 20-23 feet pebble/cobble size gravel present -from 20-23 feet grayish orange, moderately cemented caliche zone present
30	SA13-30	30		10	2.01			-from 30-32 feet pebble/cobble size gravel present -from 30-31 feet grayish orange, moderately cemented caliche present, locally thin hard layers, sand and gravel exhibits calcareous grain coatings
35								




Notes:

BORING LOG 0-4020203-401-LOGS.GPJ ENSR CA.GDT. 6/6/07

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	Tronox leach plant area, Henderson, NV
<i>Coordinates:</i>	26718253 N 828661 E <i>Elevation:</i> 1798 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Boring No. SA-13	
<i>Sheet:</i>	2 of 2
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Clear, slight breeze, low 70's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/17/2006 12:55	<i>Depth of Boring:</i>	41.5 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/17/2006 14:50	<i>Water Level:</i>	41 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
.....						SW		ALLUVIUM: GRAVELLY SAND, moderate brown (5YR 4/4), 15% silt, 60-75% fine to coarse grained sand with minor very fine and very coarse grained sand, 10-25% gravel, gravel clasts are 1/5 to 1 inch in diameter, maximum size is 5 inches, angular to subangular, medium dense, dry, no stain/odor (<i>continued</i>)
.....								-from 38-40 feet grayish orange, caliche present, locally thin hard layers, sand exhibits calcareous grain coatings
40	SA13-40			10	0.15			-wet at 41 feet

Total Depth = 41.5 feet.
Boring Terminated
Target depth achieved

Notes:

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	West end of Beta Ditch, Tronox, Henderson, NV
<i>Coordinates:</i>	26718920 N 826525 E <i>Elevation:</i> 1769 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

<i>Sheet:</i>	1 of 2
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Clear, slight breeze, mid 80's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/8/2006	<i>Depth of Boring:</i>	50 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/8/2006	<i>Water Level:</i>	36.7 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.	
5	SA14-0.5	0.5		10		SW		ALLUVIUM: GRAVELLY SAND, moderate brown (5YR 5/4), 10-20% silt, 55-75% fine to coarse grained sand with minor very fine and very coarse grained sand, 15-25% gravel, gravel clasts are generally 1/5 to 1-1/2 inch in diameter, maximum size is 6 inches, angular to subangular, medium dense, dry, no stain/odor	
10	SA14-10	10	10						
15									-from 17-19 feet cobble sized gravel clasts up to 6 inches are present
20	SA14-20	20	10						-from 22-23 feet semi-hard caliche zone present, sand and gravel clasts exhibit calcareous coatings
25						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	
30	SA14-30	30	10						
35									

Notes:



ENSR
1220 Avenida Acaso
Camarillo, CA 93012
805-388-3775
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Client: Tronox LLC
Project Number: 04020-023-401
Site Description/Location: West end of Beta Ditch, Tronox, Henderson, NV
Coordinates: 26718920 N 826525 E Elevation: 1769 FT
Drilling Method: Sonic with continuous coring
Sample Type(s): Split Spoon and Core Boring Diameter: 7 In.

Boring No. SA-14

Sheet: 2 of 2
Monitoring Well Installed: No
Screened Interval:

Weather: Clear, slight breeze, mid 80's Logged By: E. Krish Date/Time Started: 11/8/2006 Depth of Boring: 50 FT
Drilling Contractor: Prosonic Backfill: Tremmied grout Date/Time Finished: 11/8/2006 Water Level: 36.7 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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 <i>(continued)</i> -wet at 36.7 feet
.....								
.....								
40				10				
.....								
45								
.....								
.....								
50				10				

Total Depth = 50 feet.
Boring Terminated
Target depth achieved

Notes:

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	North of Bldg C-1, Tronox, Henderson, NV
<i>Coordinates:</i>	26719002 N 827478 E <i>Elevation:</i> 1768 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Boring No. SA-15	
<i>Sheet:</i>	1 of 2
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Clear, slight breeze, mid 80's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/8/2006	<i>Depth of Boring:</i>	40 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/8/2006	<i>Water Level:</i>	37 FT

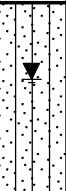
DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	Graphic Log	MATERIAL IDENTIFICATION, color, description of fine grained material (silt and clay) description of coarse grained material (sand and gravel), structural or mineralogical features, density or stiffness, moisture content, odors or staining.
.....	SA15-0.5	⊗		10		SW		ALLUVIUM: GRAVELLY SAND, moderate brown (5YR 5/4), 10-15% silt, 60-75% fine to coarse grained sand with minor very fine and very coarse grained sand, 15-25% gravel, gravel clasts are generally 1/5 to 1 inch in diameter, maximum size is 2 inches, angular to subangular, medium dense, dry, no odor/stain
5								-from 3-5 feet pebble/cobble sized gravel, to 2 inches diameter, common
10	SA15-10	⊗		10				-from 10-13 feet caliche layer, calcareous coatings common on sand and gravel clasts
15								
20	SA15-20	⊗		10				-from 22-24 feet grayish orange caliche layer, soft, calcareous coatings are common on sand and gravel clasts
25								
30	SA15-30	⊗		10				-from 28-32 feet grayish orange caliche layer, semi-hard, calcareous coatings are common on sand and gravel clasts
35						ML		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

Notes:

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	North of Bldg C-1, Tronox, Henderson, NV
<i>Coordinates:</i>	26719002 N 827478 E <i>Elevation:</i> 1768 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Boring No. SA-15	
<i>Sheet:</i>	2 of 2
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Clear, slight breeze, mid 80's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/8/2006	<i>Depth of Boring:</i>	40 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/8/2006	<i>Water Level:</i>	37 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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, 0-5% clay, 85-100% silt, 0-10% very fine sand, subrounded, moist, no odor/stain <i>(continued)</i> -wet at 37 feet
40				10				

Total Depth = 40 feet.
Boring Terminated
Target depth achieved

Notes:

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	N. of AP Ponds 1 & 2 in Beta Ditch, Tronox, Henderson, NV
<i>Coordinates:</i>	26719270 N 827857 E <i>Elevation:</i> 1761 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Sheet: 1 of 1

Monitoring Well Installed: No

Screened Interval:

<i>Weather:</i>	Clear, slight breeze, mid 80's	<i>Logged By:</i>	B. Ho, E. Krish	<i>Date/Time Started:</i>	11/9/2006	<i>Depth of Boring:</i>	31.5 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/9/2006	<i>Water Level:</i>	31.5 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
5	SA16-0.5	0.5		10		SW		ALLUVIUM: GRAVELLY SAND, grayish brown (5YR 3/2), 10-15% silt, 60-75% fine to medium grained sand with minor very fine and very coarse grained sand, 15-25% gravel, gravel clasts are generally 1/5 to 3/4 inches in diameter, maximum size is 2 inches, angular to subangular, medium dense, dry, no odor/staining
10	SA16-10	10		10				-from 6-8 feet coarse gravel to 2 inches diameter common
15								-from 12-14 feet grayish orange, coarse gravel to 2 inches diameter, calcareous coatings and cement common on sand and gravel clasts
20	SA16-20	20		10				-from 20-27 feet color is grayish orange , calcareous grain coatings common on sand and gravel clasts
25								-from 26.5-27 feet hard caliche present
30	SA16-30	30		10		ML		MUDDY CREEK FORMATION: SILT, moderate yellowish brown (10YR 6/6), slightly sandy, 0-5% clay, 90-100% silt, 0-5% very fine grained sand, subrounded, moist, no odor/staining
31.5								-at 31 feet "floating" (matrix supported) coarse to very coarse grains common, wet at 31 feet

Total Depth = 31.5 feet.
Boring Terminated
Target depth achieved

Notes:

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	Within east end of Tronox Beta ditch (LOU #5), Henderson, NV
<i>Coordinates:</i>	26719485 N 828604 E <i>Elevation:</i> 1760 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Sheet: 1 of 1

Monitoring Well Installed: No

Screened Interval:

<i>Weather:</i>	Clear, calm, high to mid 70's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/14/2006 06:57	<i>Depth of Boring:</i>	30 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/14/2006 07:40	<i>Water Level:</i>	24 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
5	SA17-0.5	0.5		10	48.53	SW		ALLUVIUM: GRAVELLY SAND , moderate brown (5YR 5/4), 10-15% silt, 65-80% fine to coarse grained sand with minor very fine and very coarse grained sand, 10-20% gravel, gravel clasts are generally 1/5 to 1 inch in diameter, maximum size is 2 1/2 inches, angular to subangular, medium dense, dry, no stain/odor -from 1-3 feet calcareous cement common -from 2-3 feet pebble/cobble size gravel to 2 1/2 inch diameter present
10	SA17-10	10		10	47.12			-from 12-13 feet pebble/cobble size gravel to 2 1/2 inch diameter present on sand and gravel clasts -from 12-15 feet calcareous grain coatings and caliche cement common
15								-from 17-18 feet pebble/cobble size gravel to 2 1/2 inch diameter present
20	SA17-20	20		10	644			-from 20-23 feet pebble/cobble size to 2 1/2 inch diameter common -from 20-26 feet caliche present
25								-wet at 25 feet -from 25-26 feet strongly cemented caliche zone
30				10		ML		MUDDY CREEK FORMATION: SANDY SILT AND SILT , light brown, 0-5% clay, 85-90% silt, 5-10% very fine sand, subrounded, wet -from 26-27 feet strongly cemented caliche present

266
Total Depth = 30 feet.
Boring Terminated
Target depth achieved

Notes:

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	South of Tronox landfill (LOU #2), Henderson, NV
<i>Coordinates:</i>	26719849 N 826197 E <i>Elevation:</i> 1752 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

<i>Sheet:</i>	1 of 2
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Clear, slight breeze, high 60's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/16/2006 10:10	<i>Depth of Boring:</i>	40 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/16/2006 11:30	<i>Water Level:</i>	31.5 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
5	SA18-0.5	0.5		10	1400	SW		<p>ALLUVIUM: SILTY GRAVELLY SAND, moderate brown (5YR 5/4), 15-20% silt, 55-70% fine to coarse grained sand with very fine and very coarse grained sand, 15-25% gravel, gravel clasts are generally 1/5 to 1 inch in diameter, maximum size is 4 inches, angular to subangular, medium dense, dry, no odor/stain</p> <p>-from 1-3 feet calichified coarse gravel to 3 inch diameter present</p> <p>-from 9-10 feet calcareous coatings common on sand and gravel clasts</p> <p>-from 12-17 feet coarse gravel up to 4 inches in diameter present, partly calichified</p> <p>-from 15-16 feet grayish orange, calcareous coatings on sand and gravel clasts and minor cement common</p> <p>-from 19-20 feet grayish orange, calcareous coatings on sand and gravel clasts and thin cemented layers common</p> <p>-from 22-23 feet gravel up to 4 inches in diameter present</p> <p>-at 24 feet grayish orange, thin calcareous coating zone present</p> <p>-from 29-30 feet grayish orange, thin cemented caliche layers present</p>
10	SA18-10	10		10	3630			
15								
20	SA18-20	20		10	3170			
25								
30	SA18-30	30		10		ML		
35								<p>MUDDY CREEK FORMATION: SILT, light brown, with minor sandy silt, 0-5% clay, 90-100% silt, 0-5% very fine sand, subrounded, moist, moderate caliche nodules scattered throughout up to 1/10 inch size</p> <p>-wet at 31.5 feet</p>

Notes:

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	South of Tronox landfill (LOU #2), Henderson, NV
<i>Coordinates:</i>	26719849 N 826197 E <i>Elevation:</i> 1752 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Boring No. SA-18	
<i>Sheet:</i>	2 of 2
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Clear, slight breeze, high 60's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/16/2006 10:10	<i>Depth of Boring:</i>	40 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/16/2006 11:30	<i>Water Level:</i>	31.5 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	Graphic Log	
.....						ML		<p>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.</p> <p>MUDDY CREEK FORMATION: SILT, light brown, with minor sandy silt, 0-5% clay, 90-100% silt, 0-5% very fine sand, subrounded, moist, moderate caliche nodules scattered throughout up to 1/10 inch size <i>(continued)</i> -from 35-40 feet staining and solvent odor present</p>
.....								
.....								
.....					470			
40			10					

Total Depth = 40 feet.
Boring Terminated
Target depth achieved

Notes:





<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	South of Perchlorate Treatment System, Henderson, NV
<i>Coordinates:</i>	26719560 N 827311 E <i>Elevation:</i> 1755 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Sheet: 1 of 1

Monitoring Well Installed: No

Screened Interval:

<i>Weather:</i>	Clear, slight breeze, high 60's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/16/2006	<i>Depth of Boring:</i>	30 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/16/2006	<i>Water Level:</i>	26 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
5	SA19-0.5	0.5		10		SW		ALLUVIUM: GRAVELLY SAND, moderate brown (5YR 5/4), 15-20% silt, 60-70% fine to coarse grained sand with minor very fine and very coarse grained sand, 15-20% gravel, gravel clasts are generally 1/5 to 1 inch in diameter, maximum size is 3 inches, angular to subangular, medium dense, dry, no stain/odor -from 1-4 feet coarse gravel present, caliche coatings on sand and gravel clasts
10	SA19-10	10		10		SW		-from 10-12 feet coarse gravel present, caliche coatings on sand and gravel clasts
15						SW		SAND, moderate brown (5YR 5/4), 5-10% silt, 80-90% very fine to very coarse sand, 5-10% gravel, gravel clasts are generally 1/10 to 3/4 inch in diameter, maximum size is 3/4 inch, angular to subangular, medium dense, dry, no stain/odor
20	SA19-20	20		10		SW		-from 20-26 feet strongly calichified, locally hard thin layers present, moist
25						ML		MUDDY CREEK FORMATION: SANDY SILT, light brown, 5% clay, 90% silt, 5% very fine grained sand with trace coarse to very coarse grained sand, subrounded, wet, no stain/odor
30				10				

Total Depth = 30 feet.
Boring Terminated
Target depth achieved

Notes:

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	Southeast of Chromium Treatment Plant, Henderson, NV
<i>Coordinates:</i>	26719775 N 827676 E <i>Elevation:</i> 1752 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Sheet: 1 of 1

Monitoring Well Installed: No

Screened Interval:

Weather: Clear, slight breeze, high 60's

Logged By: E. Krish

Date/Time Started: 11/16/2006

Depth of Boring: 30 FT

Drilling Contractor: Prosonic

Backfill: Tremmied grout

Date/Time Finished: 11/16/2006

Water Level: 26 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
5	SA20-0.5	0.5		10		SW		ALLUVIUM: SILTY GRAVELLY SAND, moderate brown (5YR 5/4), 15-20% silt, 60-70% fine to coarse grained sand with very fine and very coarse grained sand, 15-25% gravel, gravel clasts are generally 1/5 to 1 inch in diameter, maximum size is 4 1/2 inches, angular to subangular, medium dense, dry, no stain/odor -from 0-12 feet calcareous coatings common on sand and gravel clasts -from 2-12 feet coarse gravel up to 4 1/2 inches common -from 12-14 feet decreased gravel percentage to 5-10%
10	SA20-10	10		10		SW		
15								
20	SA20-20	20		10		SW		GRAVELLY SAND, moderate brown (5YR 5/4), 10% silt, 65-75% very fine to very coarse grained sand, 15-25% gravel, gravel clasts are generally 1/10 to 3/4 inch, maximum size is 1/2 inch, angular to subangular, medium dense, dry, no stain/odor, caliche common
25						SW		SILTY SAND, light grayish brown, 10-20% silt, 75-85% very fine to very coarse grained sand, 5% gravel, gravel clasts are generally 1/10 to 1/2 inch in diameter, maximum size is 1/2 inch, subangular, medium dense, moist, no stain/odor, caliche common as grain coatings
30				10				-wet at 26 feet -from 28-30 feet hard cement common

Total Depth = 30 feet.
Boring Terminated
Target depth achieved

Notes:


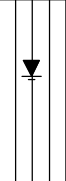
<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	North end of Tronox Landfill (LOU #1), Henderson, NV
<i>Coordinates:</i>	26720981 N 826011 E <i>Elevation:</i> 1732 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Sheet: 1 of 2

Monitoring Well Installed: No

Screened Interval:

<i>Weather:</i>	Clear, breeze, high 60's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/15/2006	<i>Depth of Boring:</i>	40 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/15/2006	<i>Water Level:</i>	32 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
5				10	0.41	SW		ALLUVIUM: GRAVELLY SAND, moderate brown (5YR 5/4), 15-20% silt, 60-70% fine to coarse grained sand with very fine and very coarse grained sand, 15-20% gravel, gravel clasts are generally 1/5 to 1 inch in diameter, maximum size is 5 inches, angular to subangular, medium dense, dry, no stain/odor -from 1-2 feet coarse gravel zone present
10	SA21-10			10	4.23			-from 9-10 feet caliche and grain coatings common on sand and gravel clasts -from 11-13 feet coarse gravel up to 3 inches diameter present
15								
20	SA21-20			10	4.4			-from 18-20 feet grayish orange, coarse gravel zone present -from 19-20 feet gray orange calcareous grain coatings on sand and gravel clasts and minor cementing common
25								
30	SA21-30			10	234	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
35								

Notes:

<i>Client:</i> Tronox LLC
<i>Project Number:</i> 04020-023-401
<i>Site Description/Location:</i> North end of Tronox Landfill (LOU #1), Henderson, NV
<i>Coordinates:</i> 26720981 N 826011 E <i>Elevation:</i> 1732 FT
<i>Drilling Method:</i> Sonic with continuous coring
<i>Sample Type(s):</i> Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Boring No. SA-21	
<i>Sheet:</i> 2 of 2	
<i>Monitoring Well Installed:</i> No	
<i>Screened Interval:</i>	

<i>Weather:</i> Clear, breeze, high 60's	<i>Logged By:</i> E. Krish	<i>Date/Time Started:</i> 11/15/2006	<i>Depth of Boring:</i> 40 FT
<i>Drilling Contractor:</i> Prosonic	<i>Backfill:</i> Tremmied grout	<i>Date/Time Finished:</i> 11/15/2006	<i>Water Level:</i> 32 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	Graphic Log	
.....						ML		<p align="center">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.</p> <p>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 <i>(continued)</i></p>
.....								
.....								
.....								
40				10				

Total Depth = 40 feet.
Boring Terminated
Target depth achieved

Notes:

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	North of Tronox Pond GW-11, Henderson, NV
<i>Coordinates:</i>	26721020 N 826869 E <i>Elevation:</i> 1726 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Boring No. SA-22	
<i>Sheet:</i>	1 of 1
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Clear, slight breeze, high 60's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/16/2006 08:25	<i>Depth of Boring:</i>	30 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/16/2006 08:50	<i>Water Level:</i>	21 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
5	SA22-0.5	0.5		10	3.4	SW		ALLUVIUM: GRAVELLY SAND , moderate brown (5YR 5/4), 10-15% silt, 55-75% fine to medium grained sand with very fine and coarse/very coarse grained sand, 20-30% gravel, gravel clasts are generally 1/8 to 1/2 inch in diameter, maximum size is 2 1/2 inches, angular to subangular, loose, dry, no odor/stain -from 1-2 feet calcareous coatings on sand and gravel clasts common -from 3-12 feet coarse gravel, up to 2 1/2 inches diameter -from 9-16 feet grayish orange, calcareous coatings on sand and gravel clasts common, moderate caliche cement -from 13.75-14 feet material is very hard
10	SA22-10	10		10	77.1			
15								
20	SA22-20	20		10		SW		SAND , grayish brown, 5% silt, 90% very fine to very coarse grained sand, 5% gravel, gravel clasts are generally 1/10 to 1/2 inch in diameter, maximum size is 1/2 inch, subangular, medium dense -wet at 21 feet
25						ML		MUDDY CREEK FORMATION: SILT AND SANDY SILT (INTERBEDDED) , light brown, 0-5% clay, 85-90% silt, 5-10% very fine grained sand, moderate caliched nodules, subrounded, wet
30				10				

Total Depth = 30 feet.
Boring Terminated
Target depth achieved

Notes:

BORING LOG 0-4020203-401-LOGS.GPJ ENSR CA.GDT. 6/6/07

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	North of Tronox Pond WC-1 (LOU #22), Henderson, NV
<i>Coordinates:</i>	26720832 N 827631 E <i>Elevation:</i> 1728 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Sheet: 1 of 1

Monitoring Well Installed: No

Screened Interval:

Weather: Clear, slight breeze, low 80's

Logged By: E. Krish

Date/Time Started: 11/9/2006

Depth of Boring: 31.5 FT

Drilling Contractor: Prosonic

Backfill: Tremmied grout

Date/Time Finished: 11/9/2006

Water Level: 27 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
5	SA23-0.5	0.5		10		SW		ALLUVIUM: GRAVELLY SAND , moderate brown (5YR 5/4), 15-20% silt, 60-70% fine to medium grained sand with minor very fine and coarse/very coarse grained sand, 15-20% gravel. gravel clasts are generally 1/5 to 3/4 inch in diameter, maximum size is 2 1/2 inches, angular to subangular, medium dense, dry, no stain/odor -from 3-7 feet coarse gravel, up to 2 1/2 inches diameter
10	SA23-10	10		10		SW		-from 10-12 feet grayish orange, calcareous coatings on sand and gravel clasts with minor cement common
15						SW		-from 17-18 feet grayish orange, calcareous coatings on sand and gravel clasts with minor cement common
20	SA23-20	20		10		SW		-from 20-28 feet grayish orange with common calcareous coatings on sand and gravel clasts, abundant caliche cement
25						SW		
27						SW		-wet at 27 feet
30				10		ML		MUDDY CREEK FORMATION: SILT AND SANDY SILT , light brown, 0-5% clay, 85-90% silt, 5-7% very fine to very coarse grained sand "floating" (matrix supported), subangular to subrounded, wet

Total Depth = 31.5 feet.
Boring Terminated
Target depth achieved

Notes:

Client: Tronox LLC
Project Number: 04020-023-401
Site Description/Location: SE corner of Tronox Dillon Potter Ise site, Henderson, NV
Coordinates: 26720958 N 828571 E *Elevation:* 1727 FT
Drilling Method: Sonic with continuous coring
Sample Type(s): Split Spoon and Core *Boring Diameter:* 7 In.

Boring No. SA-24

Sheet: 1 of 1

Monitoring Well Installed: No

Screened Interval:

Weather: Partly cloudy, slight breeze, low 70's

Logged By: B. Ho, E. Krish

Date/Time Started: 11/3/2006

Depth of Boring: 30 FT

Drilling Contractor: Prosonic

Backfill: Tremmied grout

Date/Time Finished: 11/3/2006

Water Level: 26 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
5	SA24-0.5			10	6.38	SW		ALLUVIUM: GRAVELLY SAND, grayish brown (5YR 3/2), 5-15% silt, 65-85% fine to medium grained sand with very fine and coarse/very coarse grained sand, 10-20% gravel, gravel clasts are generally 1/5 to 3/4 inch in diameter, maximum size is 4 inches, angular to subangular, medium dense, dry, no odor/stain -from 0-5 feet coarse gravel, up to 3 inches diameter and calcareous coatings common on sand and gravel clasts -from 2-6 feet minor caliche cement present
10	SA24-10			10	4.86			-from 8-9 feet coarse gravel present
15								-from 11-18 feet calcareous coatings on sand and gravel clasts and minor cement common
20	SA24-20			10	5.65			-from 20-21 feet coarse gravel up to 4 inches in diameter present
25								-from 25-28 feet calcareous coatings on sand and gravel clasts and minor cement common
								-wet at 26 feet
30				10		SP		SAND, dusky brown, 10% silt, 80% fine to coarse grained sand, 10% gravel, gravel clasts are generally 1/5 to 3/4 inch in diameter, maximum size is 3/4 inch, moderate caliche, subrounded, medium dense, wet, no odor/stain
						ML		MUDDY CREEK FORMATION: SILT, light brown, 5% clay, 90% silt, 5% fine to coarse grained sand, no odor/stain

Total Depth = 30 feet.
 Boring Terminated
 Target depth achieved

Notes:

Client: Tronox LLC
Project Number: 04020-023-401
Site Description/Location: West end of NW drainage ditch, Henderson, NV
Coordinates: 26722639 N 825242 E *Elevation:* 1691 FT
Drilling Method: Sonic with continuous coring
Sample Type(s): Split Spoon and Core *Boring Diameter:* 7 In.

Boring No. SA-25

Sheet: 1 of 1

Monitoring Well Installed: No

Screened Interval:

Weather: Partly cloudy, slight breeze, low 70's

Logged By: B. Ho, E. Krish

Date/Time Started: 11/3/2006 09:52

Depth of Boring: 21.5 FT

Drilling Contractor: Prosonic

Backfill: Tremmied grout

Date/Time Finished: 11/3/2006 10:45

Water Level: 17 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
5	SA25-0.5	0.5		10	0.78	SM		ALLUVIUM: SILTY SAND, dark yellowish brown (10YR 4/2), 25% silt, 65% fine to medium grained sand with very fine and coarse/very coarse grained sand, 10% gravel, gravel clasts are generally 1/5 to 1/4 inch in diameter, maximum size is 1/4 inch, subangular, loose, moist, no odor/stain
10	SA25-10	10		10	1.18	SW		GRAVELLY SAND, dark yellowish brown (10YR 4/2), 5% silt, 75% fine to coarse grained sand with minor very fine and very coarse grained sand, 20% gravel, gravel clasts are generally 1/5 to 3/4 inch in diameter, maximum size is 1 inch, angular to subrounded, medium dense, moist, faint odor
15	SA25-15	15			2.62			-wet at 17 feet
20	SA25-20	20		10	41.75	ML		MUDDY CREEK FORMATION: SILT, moderate yellowish brown (10YR 5/4), moderate solvent-like odor

Total Depth = 21.5 feet.
Boring Terminated
Target depth achieved

Notes:

<i>Client:</i>	Tronox LLC
<i>Project Number:</i>	04020-023-401
<i>Site Description/Location:</i>	North end of Pick-a-part, Henderson, NV
<i>Coordinates:</i>	26722653 N 827421 E <i>Elevation:</i> 1694 FT
<i>Drilling Method:</i>	Sonic with continuous coring
<i>Sample Type(s):</i>	Split Spoon and Core <i>Boring Diameter:</i> 7 In.

Boring No. SA-26	
<i>Sheet:</i>	1 of 1
<i>Monitoring Well Installed:</i>	No
<i>Screened Interval:</i>	

<i>Weather:</i>	Clear, slight breeze, low 70's	<i>Logged By:</i>	E. Krish	<i>Date/Time Started:</i>	11/20/2006	<i>Depth of Boring:</i>	15 FT
<i>Drilling Contractor:</i>	Prosonic	<i>Backfill:</i>	Tremmied grout	<i>Date/Time Finished:</i>	11/20/2006	<i>Water Level:</i>	10 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
5	SA26-0.5	0.5		10		SW		ALLUVIUM: GRAVELLY SAND, moderate brown (5YR 5/4), 10-15% silt, 60-75% fine to coarse grained sand with minor very fine and very coarse grained sand, 15-25% gravel, gravel clasts are generally 1/5 to 1 inch in diameter, maximum size is 3 inches, angular to subangular, medium dense, dry, no odor/stain -from 1-3 feet calcareous coatings and caliche cement common on sand and gravel clasts -from 3-5 feet coarse gravel up to 3 inches common
10	SA26-10	10		10				-from 9-10 feet calcareous coatings on sand and gravel clasts and cement common -wet at 10.5 -from 11-13 feet coarse gravel up to 3 inches common
15								

Total Depth = 15 feet.
Boring Terminated
Target depth achieved

Notes:

Client: Tronox LLC
Project Number: 04020-023-401
Site Description/Location: Northeast most corner of Tronox site, Henderson, NV
Coordinates: 26723851 N 826396 E Elevation: 1678 FT
Drilling Method: Sonic with continuous coring
Sample Type(s): Split Spoon and Core Boring Diameter: 7 In.

Boring No. SA-27

Sheet: 1 of 1

Monitoring Well Installed: No

Screened Interval:

Weather: Clear, slight breeze, low 70's

Logged By: B. Ho, E. Krish

Date/Time Started: 11/2/2006

Depth of Boring: 25 FT

Drilling Contractor: Prosonic

Backfill: Tremmied grout

Date/Time Finished: 11/2/2006

Water Level: 21.4 FT

DEPTH (ft)	Sample ID	Sample Depth (ft)	Blows per 6"	Recovery (ft)	Headspace (ppm)	USCS	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.
5	SA27-0.5			10		SW		ALLUVIUM: GRAVELLY SAND, moderate yellowish brown (10YR 5/4), 10-15% silt, 70-80% fine to coarse grained sand with minor very coarse grained sand, 10-15% gravel, gravel clasts are generally 1/5 to 3/4 inch in diameter, maximum size is 2 inches, angular to subangular, medium dense, dry, no stain/odor -from 0-3 feet minor caliche cement present
10	SA27-10			10		SP		SILTY SAND, moderate brown (5YR 4/4), 20% silt, 75% fine to medium grained sand with minor coarse grained sand, 5% gravel, gravel clasts are generally 1/5 to 1/2 inch in diameter, maximum size is 2 inches, angular to subrounded, medium dense, dry, no stain/odor
20	SA27-20			10		SW		SAND, grayish brown (5YR 3/2), 5-10% silt, 70-80% fine to coarse grained sand with very coarse grained sand, 15-20% gravel, gravel clasts are generally 1/5 to 3/4 inch in diameter, maximum size is 1 inch, angular to subangular, medium dense, moist, no stain/odor -wet at 21.4 feet

Total Depth = 25 feet.
Boring Terminated
Target depth achieved

Notes: