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SUPPLEMENTAL SUBSURFACE INVESTIGATION RD INVESTIGATIVE ACTIVITIES WASTE DISPOSAL, INC. SUPERFUND SITE Volume II

Prepared for

United States Environmental Protection Agency

Prepared by

TRC

Irvine, California

Project No. 94-256

~~January~~ February 2001

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APPENDIX A

LOGS OF OUTSIDE DIRECT PUSH BORINGS

BORING NO. WD1-SB-BP-1

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: CME
SAMPLER TYPE: Continuous Core
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: K Waite
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM

DATE BEGAN: 10/2/00
DATE FINISHED: 10/2/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE (recovery)	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0		NA	CC			2 inches Asphalt
				SM		Silty sand, brown to gray, gravel, asphalt, moderate odor (Fill)
5			16"	Cl		(3-5') sandy clay, brown, no odor, gravel, (fill)
			25'	SM		(5-9') silty sand, wet, no staining no odor tan, (fill)
10			4'	Cl		clay, red-brown - stiff, fat, clay, no staining, no odor (9-13')
						clay, red brown, stiff fat - no staining, no odor (13'-17')
15			NR	Cl		clay, red-brown - stiff - fat clay, no staining, no odor.
			4'			(17-20') clay, red brown, stiff-fat - no staining, no odor. (native)
20	11 PID 1.5 FID			ml		(21') silty sand, brown fine grained, trace of mica, no staining, no odor.
25						
30						
35						TD = 21'
						Waste not encountered
						NM = Not Measured
						NR - No Recovery
40						Ground water not encountered
						NA = Not applicable
						CC = continuous core
45						

FID

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PROJECT NO.: 94-256

LOCATION: Santa Fe Springs, CA

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SHEET 1 OF 1

BORING NO. WDI-SB-DP-2

DRILLING CO.: West Hazmat
RIG TYPE: CME 75
SAMPLER TYPE: Continuous Core
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM
DATE BEGAN: 10/2/00
DATE FINISHED: 10/2/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE (recovery)	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0		NA	CC	SM		Concrete 4-6" Silty sand, brown, gravel - no odor, no staining
5				CL		clay - gray to black possible staining, slight odor.
			4'	CL		(5-6') gray to black clay, possible staining, no odor.
10			4'	CL		(6-9') red-brown fat clay - no staining no odor. (9-13') red-brown sandy clay - no staining no odor
15			4'	SC		gray-black - stained no odor (13-17') sandy clay
				ML		sand, brown fine-grained, no staining no odor.
20			4'	ML		(17-21') Sand, brown - fine grained, trace of mica, no staining no odor.
	7.5 pid 1.5 fid					sand, brown - fine grained sand no staining, no odor
25						
30						
35						TD = 21' Waste not encountered NM = Not Measured Ground Water not encountered NA = Not applicable CC = continuous core
40						
45						

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PROJECT NO.: 94-256

LOCATION: Santa Fe Springs, CA

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SHEET 1 OF 1

BORING NO. WD1-SB-DP-3

DRILLING CO.: West Hazmat
RIG TYPE: CME 75
SAMPLER TYPE: Continuous core
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM
DATE BEGAN: 10/2/00
DATE FINISHED: 10/2/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0		NA	CC			2 inches asphalt.
				Sm		Silty sand, brown, gravel, asphalt - no odor, no staining
			1ft			(3-5')
5				Sm		silty sand, brown, gravel, micro clay - no odor no staining
						(5-9')
				Sm		silty sand, red-brown - clayey gravel - no odor no staining fill
10			18"			(9-13')
				SC		sandy clay, red brown - no odor no staining, trace of gravel
						(13-17')
15			3.5'	cl		clay, red-brown - stiff - fat - no odor no staining
			NR			(17-21')
	5pd 1fid			ml		sand - red-brown - fine grained, no odor, no staining native
20						
25						
30						
35						TD = 21'
						Waste Not encountered
						NM = Not measured.
						Ground water not encountered
40						NA = Not applicable
						CC = continuous core
45						

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LOCATION: Santa Fe Springs, CA

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SHEET 1 OF 1

BORING NO. WD1-SB-DP-4

DRILLING CO.: West Hazmat
RIG TYPE: CME 75
SAMPLER TYPE: Continuous Core
AND DIMENSION:
FIELD ENGINEER/
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM
DATE BEGAN: 10/2/00
DATE FINISHED: 10/2/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0		NA	NCORE CC	sm		2" asphalt silty sand, brown, gravel, no staining no odor.
5			3.4'	cl		(5-9) silty clay, dk brown, trace of gravel - no odor no staining
10			2'	cl		(9-13') silty clay, dk brown trace of gravel - no odor no staining
15			4'	cl		(13-17') clay dk brown, no odor no staining
20			4'	cl		(17-21') clay dk brown no odor, no staining.
	7. 1.5	pid fid		ml		sand, brown, fine grained - trace of mica, no odor no staining
25						
30						
35						TD = 21' Water not encountered NM = Not measured ground water not encountered. NA = not applicable CC = continuous core.
40						
45						

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PROJECT NO.: 94-256

LOCATION: Santa Fe Springs, CA

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SHEET 1 OF 1

BORING NO. WDI-SB-DP-5

DRILLING CO.: West Hazmat
RIG TYPE: CME 75
SAMPLER TYPE: Continuous Core
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: Kimberly Waite
EDITED BY:
CHECKED BY:

COORDINATES N. nm E. nm

DATE BEGAN: 10/3/00
DATE FINISHED: 10/3/00
GROUND SURFACE EL.: nm

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE (RECOVERY)	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0		NA	CC		ml	(0-4') silt, brown, no odor, no staining
					cl	(4.5) Silty clay, brown, no odor, no staining.
5			2'		cl	(5.9') silty clay, brown no odor, no staining
10			1'		cl	(7-13) Clay, brown, trace of silt, no odor, no staining.
			4'		cl	14' - clay, black-gray stained, moderate odor.
15	1.5 ppm 2.5 ppm				cl	15.5' clay - red-brown - no staining no odor
			4'		cl	17-18' clay black-gray stained slight odor
20					cl	(18-21') clay - red-brown fat stiff - no staining, no odor
25						
30						TD=21'
35						NM= Not measured
						CC= continuous core
						Ground water not encountered
40						
45						

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PROJECT NO.: 94-256

LOCATION: Santa Fe Springs, CA

10' 8"
3' 4" off building

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SHEET 1 OF 1

BORING NO. WDI-SB-DP-6

DRILLING CO.: WEST HAZMAT
RIG TYPE: CME 75
SAMPLER TYPE: CONTINUOUS CORE
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: CARINA CHEN
EDITED BY:
CHECKED BY:

COORDINATES N. E.

DATE BEGAN: 10/3/00
DATE FINISHED: 10/3/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0		NA	recovery CC	ml		(0'-5') silt, brown, no odor, no staining
5			4'	cl		(5'-9') clay, dark brown, no odor, no staining
10			3'	cl		(9'-13') silty clay, brown, no odor, no staining
						clay, gray/black, stained, moderate odor
15			2½'	cl		(13'-17') clay, grey/black, stained, moderate odor
						(17'-21')
20			2'	cl/ml		silty clay, tan, no odor, no staining
25						
30						TD = 21'
35						NA = Not available NM = Not measured CC = Continuous core
40						Ground Water not encountered
45						

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CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: Santa Fe Springs, CA

10.0' 3.5' of building

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SHEET 1 OF 1

BORING NO. WDI-SB-DP-7

DRILLING CO.: WEST HAZMAT
RIG TYPE: CME 75
SAMPLER TYPE: CONTINUOUS CORE
AND DIMENSION:
FIELD ENGINEER:
GEOLOGIST: CARINA CHEN
EDITED BY:
CHECKED BY:

COORDINATES N. E.

DATE BEGAN: 10/3/00
DATE FINISHED: 10/3/00
GROUND SURFACE EL.: NM

	DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE (Recovery)	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
7:30am	0		NA	CC	ml		2" asphalt silt, brown, no odor, no staining
					ml/cl		silty clay, brown, no odor, no staining
	5			3'	cl		(5-9') clay w/ trace of silt, red brown, no odor, no staining
	10			4'	cl		(9-13) clay, red brown, no odor, no staining
	15			4'	ml		(13-17) Fine grained sand, tannish brown, trace of mica, no odor or staining
10:10				3'	sc		(17-21') Clayey sand, brownish red, no odor or staining
	20						
	25						TD=21' NA: Not applicable NM: Not measured CC: Continuous core Ground water not encountered
	30						
	35						
	40						
	45						

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PROJECT NO.: 94-256

LOCATION: Santa Fe Springs, CA

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SHEET 1 OF 1

BORING NO. WDI-SB-DP-8

DRILLING CO.: West Hazmat
RIG TYPE: CME 75
SAMPLER TYPE: Continuous Core
AND DIMENSION:
FIELD ENGINEER/
GEOLOGIST: K. Waite / C. Chen
EDITED BY:
CHECKED BY:

COORDINATES N. n.m E. n m

DATE BEGAN: 10/3/00
DATE FINISHED: 10/3/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE (recovery)	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0		NM	CC			1.5" Asphalt HAND AUGER REFUSAL, concrete - asphalt.
5			3'	cl		(4-8') silty clay, grey/black, moderate odor, stained
			3'			
10				cl		10-12' clay, red brown, no odor, no staining
			4'	cl		(12-14') clay, black, strong odor, stained, very moist
15				cl		sandy clay, red brown, no odor, no staining (14-16')
			3'	cl		(16-20) clay, dark grey/black, strong odor, stained, very moist
				ml		silt, tannish brown, no odor, no staining
20			1'	sp		(20-24) sand, greyish tan, no odor, no staining
25						TD = 24" Ground water not encountered. NM = not measured CC = continuous core.
30						
35						
40						
45						

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PROJECT NO.: 94-256

LOCATION: Santa Fe Springs, CA

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BORING NO. WDI-SB-DP-9

SHEET 1 OF 1

DRILLING CO.: WEST HAZMAT
RIG TYPE: CME 75
SAMPLER TYPE: DIRECT PUSH
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: CARINA CHEN
EDITED BY:
CHECKED BY:

COORDINATES N. nm E. nm

DATE BEGAN: 10/4/00

DATE FINISHED: 10/4/00

GROUND SURFACE EL.: Nm

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
:55 0		NA	recovery CC	sm		2" Asphalt silty sand with gravel, brown, no odor, no staining
	4.5 2.5					
			4'	cl		(4-5') silty clay, red brown, no odor, no staining
5				ml		(5-8') clayey silt, grey/black, slight odor, stained
			3.5'	cl		(8-11') sandy clay, grey, moderate odor, stained
10						(11-12') clay, red brown, no odor, no staining
			4'	ml		(12-16) silty w/ gravel, brown, no odor, no staining
15				cl		16 sandy clay, gray, moderate odor, stained
			2'			(16-20) clay with a trace of silt, red brown, slight odor, slight staining
				cl		
				ml		fine silty clay, tan, no odor, no staining very dry
:35 20	0 0					
25						TD = 20'
						nm = not measured
30						NA = Not applicable
						CC = Continuous core
						Groundwater not encountered
35						
40						
45						

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PROJECT NO.: 94-256

LOCATION: Santa Fe Springs, CA

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BORING NO. WDI-SB-DP-10

SHEET 1 OF 1

DRILLING CO.: WEST HAZMAT
RIG TYPE: CME 75
SAMPLER TYPE: DIRECT PUSH
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: CARINA CHEN
EDITED BY:
CHECKED BY:

COORDINATES N. nm E. nm

DATE BEGAN: 10/4/00
DATE FINISHED: 10/4/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE (recovered)	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0		NA	CC			2" Asphalt Base coarse
			4'			(4-5') Asphalt + base coarse, free product
5	3 50			cl		silty, grey, moderate odor, stained, free product
			3'			(8-12)
10						
				cl		silty clay, grey/black, strong odor, stained, free product
			3'			(12-16)
15						
				cl		sandy clay, greenish grey, moderate odor, stained
						(16-20) clay, grey, strong odor, stained, wet
				ml		silt, greenbrown, slight solvent odor, not stained
20						could not push any further
25						
						TD=20'
30						nm = Not Measured NA = Not applicable CC = continuous core Ground water not encountered
35						
40						
45						

10:00am

10:50

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SHEET 1 OF 1

BORING NO. WDI-SB-DP-11

DRILLING CO.: WEST HAZMAT
RIG TYPE: CME 75
SAMPLER TYPE: DIRECT PUSH
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: CARINA CHEN
EDITED BY:
CHECKED BY:

COORDINATES N. nm E. n.m

DATE BEGAN: 10/4/00
DATE FINISHED: 10/4/00
GROUND SURFACE EL.: NM

11:28

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0				sm		silty sand with gravel, brown, no odor, no staining
	2 0.8 3W			cl		3.5' clay, grey black, strong odor, stained (4-8)
5			2.5'			
				cl		clay, grey black, moderate odor, stained
			3'			(8-12)
10				cl		clay w/ trace of sand, reddish brown, no odor, no staining
			4'			(12-16) clay, grey black, moderate odor, stained
				cl		sandy clay, red brown, no odor, no stain
15						(16-20)
				ml		sand, red brown, no odor no stain
20						
						TD = 20'
25						nm = Not measured NA = Not applicable cc = continuous core
30						Ground Water not encountered
35						
40						
45						

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LOCATION: SANTA FE SPRINGS, CA

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BORING NO. WDI-SB-DP-12

SHEET 1 OF 1

DRILLING CO.: WEST HAZMAT
RIG TYPE: CME 75
SAMPLER TYPE: DIRECT PUSH
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: CARINA CHEN
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM

DATE BEGAN: 12/5/00
DATE FINISHED: 10/5/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0		NA	cc	SW		0-2½ gravelly sand; brown, no odor, no staining
				cl		2½ sandy clay w/ gravel, reddish brown no odor, no staining
5			4'	cl		(4-8) clay, reddish brown, no odor, no staining
			4'	cl		(8-12) sandy clay, brown, no odor no staining
10			3'	cl		(12-16) silty clay, brown, no odor, no staining
15			2'	ml		(16-20) clayey silt, tannish brown, no odor, no staining
20						
25						TD = 20'
30						NA = not applicable nm = not measured cc = continuous core Ground water not encountered
35						
40						
45						

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PROJECT NO.: 94-256

LOCATION: SANTA FE SPRINGS, CA

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BORING NO. WDI-SB-DP-13

SHEET 1 OF 1

DRILLING CO.: WEST HAZMAT
RIG TYPE: CME 75
SAMPLER TYPE: DIRECT PUSH
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: CARINA CHEN
EDITED BY:
CHECKED BY:

COORDINATES N. nm E. nm

DATE BEGAN: 10/5/00
DATE FINISHED: 10/5/00
GROUND SURFACE EL.: Nm

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE (recovery)	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0		NA	CC			
				cl		clay, dark brown, no odor, no staining
			4'	cl		(4-8') clay, dark brown, no odor no staining
5	4.5					greyish white sandy crushed concrete?
	6.5			cl		silty clay, reddish brown, no odor no staining
			4'	cl		(8-12) silty clay, reddish brown, no odor, no staining
10						
			2.5'			(12-16)
15				ml		gravelly silt, tan, no odor, no staining, dry
						(16-20)
			2.5'	cl		silty clay, red brown, no odor, no staining
20				ml		clayey silt w/ gravel, tanrish brown, no odor, no staining
25						
						TD = 20'
30						NA = not applicable NM = not measured CC = continuous core Ground water not encountered
35						
40						
45						

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PROJECT NO.: 94-256
LOCATION: Santa Fe Springs

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BORING NO. WDI-SB-DP-14

SHEET 1 OF 1

DRILLING CO.: WEST HAZMAT
RIG TYPE: CME 75
SAMPLER TYPE: DIRECT PUSH
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: CARINA CHEN
EDITED BY:
CHECKED BY:

COORDINATES N. nm E. nm

DATE BEGAN: 10/5/00
DATE FINISHED: 10/5/00
GROUND SURFACE EL.: NM

	DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE (recovered)	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
1:40	0		NA	cc			CONCRETE
		12/35			cl		clay, grey/black, strong odor, stained
				4'	cl		(4-8) silty clay, grey/black, moderate odor, stained
	5				cl		sandy clay, reddish brown, no odor, no staining
				1½'	cl		(8-12) clay, grey/black, moderate odor, stained, very moist
	10			3.5'	cl		Sandy clay, brown, no odor, no staining, very dense (12-16)
					ml		silt, tan, no odor or staining
1:45	15						samples getting stuck, unable to remove since clay. Stopped boring.
	20						
							TD = 16'
	25						NA = not applicable nm = not measured cc = continuous core
							ground water not encountered
	30						
	35						
	40						
	45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal Inc.

PROJECT NO.: 94-256

LOCATION: Santa Fe Springs, CA

TRC

BORING NO. WD1-SB-DP-15

SHEET 1 OF 1

DRILLING CO.: WEST HAZMAT
RIG TYPE: CME 75
SAMPLER TYPE: DIRECT PUSH
AND DIMENSION:
FIELD ENGINEER:
GEOLOGIST: C. CHEN
EDITED BY:
CHECKED BY:

COORDINATES N. nm E. nm

DATE BEGAN: 10/5/00
DATE FINISHED: 10/5/00
GROUND SURFACE EL.: nm

standard soil tubes

	DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE (recovery)	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
2:45	0		NA	CC			concrete
					cl		1.5' clay, grey black, strong odor, stained
							greyish white, powdery? took sample (lime?)
:00				4'	cl		(4-8) sandy clay, greyblack, moderate odor, stained
	5				cl		silty clay brown, slight odor, slightly stained
				4'	cl		(8-12) sandy clay, greyblack, moderate odor, stained
					ml		clayey silt, brown, no odor, no staining
	10						
				2'			(12-16)
					cl		clay, grey/black, slight odor, stained
					cl		clay, brown, no odor, no staining
	15			0'			(16-20)
							unable to recover sample
	20						
							TD = 20'
	25						nA = not applicable
							nm = not measured
							cc = continuous core
							ground water not encountered
	30						
	35						
	40						
	45						

00-115SIP-05 REV. 4/21/00

CLIENT: WASTE DISPOSAL INC

PROJECT NO.: 94-253

LOCATION: SANTA FE SPRINGS, CA

TRC

SHEET 1 OF 1

BORING NO. WDI-SB-DP-16

DRILLING CO.: WEST HAZMAT
RIG TYPE: CME 75
SAMPLER TYPE: DIRECT PUSH
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: CCHEN
EDITED BY:
CHECKED BY:

COORDINATES N. nm E. nm
DATE BEGAN: 10/5/00
DATE FINISHED: 10/5/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0		NA	recovered	SW		sand & gravel, tan, no odor, no staining
	7 4		4'	cl		(4-8) sandy clay, brown, no odor, no staining
5				cl		clay, red brown, no odor, no staining
			2'			(8-12)
10				cl		clay, brown, no odor, no staining
			3'	cl		(12-16) clay, red brown, no odor, no staining
15				ml		silt, tannish brown, no odor, no staining
20						
25						TD = 16' (stopped when it was too hard to push) NA = not applicable nm = not measured cc = continuous core groundwater not encountered
30						
35						
40						
45						

00-115SIP-05 REV. 4/21/00

CLIENT: WASTE DISPOSAL INC

PROJECT NO.: 94-256

LOCATION: SANTA FE SPRINGS, CA

TRC

SHEET 1 OF 1

BORING NO. WDI-SB-DP-17

DRILLING CO.: WEST HAZMAT
RIG TYPE: CME 75
SAMPLER TYPE: DIRECT PUSH
AND DIMENSION:
FIELD ENGINEER:
GEOLOGIST: Carina Chen
EDITED BY:
CHECKED BY:

COORDINATES N. nm E. nm
DATE BEGAN: 10/5/00
DATE FINISHED: 10/5/00
GROUND SURFACE EL.: nm

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE (recovered)	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0		NA	CC			concrete base
			3'			(4-8)
5				cl		clay, grey/black, strong odor, stained, very moist
				cl		clay, brown, no odor, no stain
			4'			(8-12)
10				cl		clay, grey/black, strong odor, stained, very moist *
			3'	cl		sandy clay, red brown, no odor, not stained (12-16)
15				ml		flayey silt, tannish brown, no odor, not stained
20						
25						TD = 16'
						nm = not measured
						na = not applicable
						CC = continuous core
30						
35						
40						*Note: waste is liquid and maybe seeping down the bore hole.
45						

00-115SIP-05 REV. 4/21/00

CLIENT: WASTE DISPOSAL INC

PROJECT NO.: 94-256

LOCATION: SANTA FE SPRINGS, CA

TRC

SHEET 1 OF 1

BORING NO. WDI-SB-DP-18

DRILLING CO.: West Hazmat
RIG TYPE: LAR
SAMPLER TYPE:
AND DIMENSION:
FIELD ENGINEER:
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. nm E. nm
DATE BEGAN: 10/10/00
DATE FINISHED: 10/10/00
GROUND SURFACE EL.: nm

	DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
7:30	0	3 4	NA	hand auger NS	cl	NA	6" concrete silty clay, brown - no odor, no staining
	5			SBR	cl		silty clay, brown - no odor, no staining
	10			SBR	cl		silty clay, red-brown - no odor, no staining
	15			SBR	sp		sand, brown - medium-grained, no odor no staining micaceous.
	20			SBR	sp		sand, brown - medium grained, no odor, no staining micaceous.
9:15	25						TD= 20' NM= Not Measured NA= Not Applicable No ground water encountered NS = No sample collected.
	30						
	35						8' from wall
	40						
	45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.
PROJECT NO.: 94-256
LOCATION: SFS, CA

TRC

SHEET 1 OF 1

BORING NO. WDI-SB-DP-19

DRILLING CO.: West Hazmat
RIG TYPE: LAR
SAMPLER TYPE:
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. nm E. nm
DATE BEGAN: 10/10/00
DATE FINISHED: 10/10/00
GROUND SURFACE EL.: nm

	DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
10:45	0		NA	hand auger NS	ml	NA	6" concrete sandy silt, brown, trace gravel no staining, no odor.
	5			SBR	ml		sandy silt, brown, no staining, no odor.
	10		.3 pid .5 fid	SBR	Cl		sandy clay, black - possible staining, no odor.
	15			SBR	Sm		silty sand, brown - no odor no staining
	20			SBR	sp		sand, brown, med-to coarse grained, no odor no staining.
	25						TD= 20' NM= Not Measured NA= Not Applicable No ground water encountered NS= No sample collected
	30						
	35						
	40						
	45						

00-115SIP-05 REV. 4/21/00

IENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: SFS, CA

TRC

SHEET 1 OF 1

BORING NO. WDI-SB-DP-20

DRILLING CO.: West Hazmat
RIG TYPE: LAR
SAMPLER TYPE:
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. nm E. nm
DATE BEGAN: 10/10/00
DATE FINISHED: 10/10/00
GROUND SURFACE EL.: nm

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0		NA	CC 4'	SM	NA	silty sand, brown - gravel no odor no staining
5			NR			silty sand, brown - no odor no staining
10			SBR	cl		clay gray-black - stained, moderate odor
15			SBR	cl / sm		clay, gray-black - stained, moderate odor. silty sand, red-brown - no staining no odor.
20			SBR	sp		sand, red brown - fine grained, no staining no odor.
25						TD = 20'
30						NM = Not Measured
35						NA = Not Applicable
40						No ground water encountered
45						CC = Continuous core
						NR = No recovery.

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.
PROJECT NO.: 94-256
LOCATION: SFS, CA

TRC

SHEET 1 OF 1

BORING NO. WDI-SB-DP-21

DRILLING CO.: West Hazmat
RIG TYPE: LAR
SAMPLER TYPE:
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. nm E. nm

DATE BEGAN: 10/10/00
DATE FINISHED: 10/10/00
GROUND SURFACE EL.: nm

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0	0/4	NA	CC 4'	cl	NA	6" concrete. clay. black, stained slight odor.
				sm		Silty sand, brown, no staining no odor.
5						
10			SBR	cl		clay, gray possible staining, no odor
15			SBR	cl		clay gray, stained, slight odor - wet
				cl		clay red-brown - stiff no odor no staining
20			SBR	SP		sand medium to fine-grained red-brown - no odor no staining
						TD= 20'
						NM= Not Measured
25						NA= Not Applicable
						No ground water encountered
						CC= Continuous core.
30						
35						
40						
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: SFS, CA

TRC

SHEET 1 OF 1

BORING NO. WDI-SB-DP-22

DRILLING CO.: West Hazmat
RIG TYPE: LAR
SAMPLER TYPE:
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. nm E. nm

DATE BEGAN: 10/10/00
DATE FINISHED: 10/10/00
GROUND SURFACE EL.: nm

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0	3 2)	NA	CC 3.5'	ml	NA	Silt, gravel, asphalt, no staining, musty odor
				cl		sandy med-grained clay black, moderate odor · stained fairly dry
5			CC 4'			
				cl		sandy clay - fine-grained, black - possibly stained, no odor.
10				cl		sandy clay Red-Brown, medium-grained, no staining no odor.
15				cl		sandy clay Red Brown, med. grained no staining no odor
20				sp		sand, brown - coarse grain, no staining no odor.
						TD= 20'
						NM= Not Measured
25						NA= Not Applicable
						No ground water encountered
						CC= continuous core
30						
35						
40						
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.
PROJECT NO.: 94-256
LOCATION: SFS, CA

TRC

BORING NO. WDI-SB-DP-23

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: L&R
SAMPLER TYPE:
AND DIMENSION:
FIELD ENGINEER:
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. nm E. nm

DATE BEGAN: 10/10/00
DATE FINISHED: 10/10/00
GROUND SURFACE EL.: nm

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
3:40 0	0 0	NA	4' CC	cl	NA	sandy clay, brown - no staining, musty (stagnant water) odor
5			CC	cl		sandy clay, brown, no staining, musty odor
				cl		clay, black-gray - possible staining, no odor.
10			NR			
15			SBR	cl		sandy clay, red-brown - no staining, no odor.
20			SBR	sp		sand, brown, med to coarse-grained, no staining no odor.
25						TD= 20'
						NM= Not Measured
						NA= Not Applicable
						No ground water encountered
30						CC= continuous core
						NR: No Recovery
35						
40						
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: SFS, CA

TRC

BORING NO. WD1-SB-DP-24

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: LAR
SAMPLER TYPE:
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. — E. —

DATE BEGAN: 10/12/00
DATE FINISHED: 10/12/00
GROUND SURFACE EL.: —

	DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
8:10	0			hand auger	sm		2" asphalt Silty sand, brown, gravel, asphalt, concrete
		4 24		CC 3.5'	sm		Sandy silt, black, gravel, stained, moderate odor.
	5						
					ml		silt, white, puddy material (lime) fine-grained
	10				cl cl		sandy clay, black, gravel, stained, moderate odor. Clay, red-brown, stiff, no staining, no odor.
					ml		silt - brown - gray, very fine grained - no staining no odor
1:15	15				ml		sand, fine - grained - brown, micaceous, no odor, no staining
	20						
							TD = 16'
	25						Stopped at 16' as it was very difficult to push the last 6".
	30						
	35						
	40						measurement 66' from fence 27' from wall
	45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: Santa Fe Springs, CA

TRC

SHEET 1 OF 1

BORING NO. WDI-SB-DP-25

DRILLING CO.: West Hazmat
RIG TYPE: LAR
SAMPLER TYPE:
AND DIMENSION:
FIELD ENGINEER:
GEOLOGIST: K. Warte
EDITED BY:
CHECKED BY:

COORDINATES N. — E. —

DATE BEGAN: 10/12/00
DATE FINISHED: 10/12/00
GROUND SURFACE EL.: —

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0						3" uncrete
	6 28			cl		clay, black, trace of sand, stained, odor.
						concrete - put point on & drilled through
5				cl		clay - red-brown - no staining no odor.
10				cl		clay - black, stained, slight odor.
15				sm		silty sand - very fine-grained, tan - micaceous, no odor, no staining
20	12:30			ml		sand, very fine-grained, tan, micaceous, no staining no odor.
25						
30						
35						
40						measurement. 23' from Gold Coast Wall 27' from RV fence
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.
PROJECT NO.: 94-250
LOCATION: SFS, CA 92688

TRC

SHEET 1 OF 1

BORING NO. WDI-SB-DP-26

DRILLING CO.: West Hazmat
RIG TYPE: LAR
SAMPLER TYPE:
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: K Waite
EDITED BY:
CHECKED BY:

COORDINATES N. nm E. nm
DATE BEGAN: 10/13/00
DATE FINISHED: 10/13/00
GROUND SURFACE EL.: nm

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0		NA		SP		2" asphalt sand, medium to coarse - grained gravel, brown - no staining no odor.
				cl		clay dk brown, trace gravel no staining no odor slightly moist
5			CC 4'			
10			SBR	Cl		clay, red-brown - stiff, no staining, no odor.
				ml		clayey silt gray brown - no staining no odor
15			SBR	ml		clayey silt red brown - micaceous - no staining no odor.
20			SBR	me		clayey silt gray brown - no staining, no odor
25			SBR	cl		clay, gray soft - no staining no odor.
30						TD = 25' NM = Not measured NA = Not applicable Groundwater not encountered
35						
40						
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.
PROJECT NO.: 94-256
LOCATION: SFS, CA

TRC

BORING NO. WDI-SB-DO-27

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: LAR
SAMPLER TYPE:
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. — E. —
DATE BEGAN: 10/13/00
DATE FINISHED: 10/13/00
GROUND SURFACE EL.: —

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0		NA				5" concrete
			CC 4'	sm		sandy silt - black, grained. stained sulfur odor
5				cl		clay black, stained odor, very moist
			CC NR			
				ml		sand, fine-grained, red-brown - no staining, no odor
10			SBR			
15			SBR	ml		sand, fine-grained, brown, no staining no odor
			SBR	ml		
20						siltysand, fine-grained, brown, no staining no odor
						TD = 19
25						NA = Not applicable
						— = Not measured
30						
35						
40						
45						

00-115SIP-05 REV. 4/21/00

LIENT: Waste Disposal, Inc

ROJECT NO.: 94-2516

LOCATION: SFS, CA

TRC

* when sample waste (wet) wash screens — push the sampler in and then scoop up the waste.

BORING NO. WDI-SB-DP-28

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: CME 75
SAMPLER TYPE: ~~[illegible]~~
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: R. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM

DATE BEGAN: 10/14/00

DATE FINISHED: 10/14/00

GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0		NA		ml		3" concrete silt-black no staining, organic odor - sawdust, rocks hand auger refusal
				ml		silt black no staining, organic, sawdust rocks
5				cl		clay, black moist, stained, moderate odor.
10				SM		silty sand, fine grained brown - no staining, no odor.
15				SM		silt brown-gray - no staining no odor -
20						TD=16- NM= Not measured. NA= Not applicable
25						Stop at 16' due to refusal
30						
35						
40						Measurement 17' from airbrake side 75' from back fence.
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: SPS, CA

TRC

BORING NO. WDI-SB-LP-29

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: CME 75
SAMPLER TYPE: ~~[illegible]~~
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM

DATE BEGAN: 10/14/00

DATE FINISHED: 10/14/00

GROUND SURFACE EL.: NM

	DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
4:00	0						2" asphalt concrete slab
					sm		sandy silt, brown - dry, no staining, no odor
	5			SBR	cl		clay, black-gray, moist, stained, odor
							↓
	10			SBR	cl		9 1/2 clay, red-brown, stiff, no staining, no odor.
					cl		clay, black-gray, moist, staining, odor
	15			SBR	sm		silty sand fine-grained, brown, no odor no staining
	20			SBR	sp		sand, coarse-grained, brown, no odor no staining
1:50							
	25						TD = 20'
							NM = Not measured
							NA = Applicable
	30						Groundwater not encountered
	35						
	40						measurement
	45						

26' from air brake side
135' from back fence

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: SPS, CA

TRC

BORING NO. WDI-SB-DP-30

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: CME 75
SAMPLER TYPE: ~~continuous core~~
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM

DATE BEGAN: 10/14/00
DATE FINISHED: 10/14/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0		NA				2" asphalt concrete
				Cl		silty clay, brown, no staining no odor.
5				cl		clay, black, stained, moderate odor very moist.
10				cl		clay, red-brown - no staining, no odor.
15				SM		silt, trace of sand, gray brown, no staining, no odor.
20				Sp		sand, coarse-grained, brown, no staining, no odor
25						TD = 20'
						nm = Not measured
						nA = not applicable
30						Groundwater NOT encountered
35						
40						
45						measurement 60' from Sisneros Side 80' from back fence

5:10

:40

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: SPS, CA

TRC

BORING NO. WDI-SB-DP-31

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: CME 75
SAMPLER TYPE: continuous core
AND DIMENSION: —
FIELD ENGINEER:
GEOLOGIST: R. Waite
EDITED BY: —
CHECKED BY: —

COORDINATES N. NM E. NM

DATE BEGAN: 10/14/00
DATE FINISHED: 10/14/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0		NA		ml		2" asphalt silty gravel, bricks no odor no staining
				cl		sandy clay, black, stained, no odor
5			SBR	cl		clay black, stained, moderate odor - dry
				cl		clay, black, stained, moderate odor, moist
10			SBR	cl		sandy clay, red-brown, no staining no odor
				cl		clay, black, stained moderate odor, moist
15			SBR	sm		silty sand, fine-grained, gray brown — no odor no staining
20			SBR	sp		sand, med. grained - brown no staining no odor
25						TD = 20' NM = Not measured NA = Not applicable Groundwater not encountered
30						
35						
40						measurement 46' back fence 34' from HSA-8
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: SPS, CA

TRC

SHEET 1 OF 1

BORING NO. WDI-SB-DP-32

DRILLING CO.: Gregg Drilling
RIG TYPE: DP-10
SAMPLER TYPE: Continuous
AND DIMENSION: 4' long
FIELD ENGINEER:
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. — E. —
DATE BEGAN: 10/20/00
DATE FINISHED: 10/20/00
GROUND SURFACE EL.: —

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
7:15 0		NA				Concrete 3"
	14.2 3.6 0.0			ml		Silt, 32x4y brown, asphalt, trace gravel. no staining no odor
5				cl		clay, black - stained, medium odor
			cc 4'	cl		sandy clay, red-brown - stiff - no staining, no odor
10			cc 4'	ml		11' clayey silt, brown no staining no odor.
15			cc 4'			clayey silt, brown, no staining. no odor
20			cc 4'			
5						TD - 21'
25						— = Not measured
						NA = Not applicable
						cc - continuous core
30						
35						
40						
45						

M. Clemens

00-115SIP-05 REV. 4/21/00

CLIENT: WDI-
PROJECT NO.: 94-256
LOCATION: SFS, CA

TRC

SHEET 1 OF 1

BORING NO. WD1-SB-DP-33

DRILLING CO.: Gregg Drilling
RIG TYPE: DP-10
SAMPLER TYPE: Continuous core
AND DIMENSION: 4' long
FIELD ENGINEER: K. Waite
GEOLOGIST:
EDITED BY:
CHECKED BY:

COORDINATES N. — E. —

DATE BEGAN: 10/20/00
DATE FINISHED: 10/20/00
GROUND SURFACE EL.: —

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0.15						asphalt
0		NA		cl		silty clay, brown - gray - no staining, no odor
5			cc 4'	cl		clay, brown, trace of fine-sand, no staining no odor.
				cl		sandy clay, red brown, no staining, no odor
10			cc 4'			
15			cc 4'	sp		sand, med-grained, most red brown - micaceous no odor no staining
			cc 4'	sp		sand, med-grained, most brown, micaceous no odor no staining
20						
25						TD = 21
						— = Not measured
						NA = Not applicable
						CC = Continuous core
30						
35						6.5' from building wall
						14.5' from fence
40						
45						

00-115SIP-05 REV. 4/21/00

CLIENT: WD1

PROJECT NO.: 94-256

LOCATION: SFS, CA

TRC

SHEET 1 OF 1

BORING NO. WD1-SB-DP-34

DRILLING CO.: Gregg Drilling
RIG TYPE: DP-10
SAMPLER TYPE: Continuous
AND DIMENSION: 4' long
FIELD ENGINEER: K. Waite
GEOLOGIST:
EDITED BY:
CHECKED BY:

COORDINATES N. — E. —

DATE BEGAN: 10/20/00
DATE FINISHED: 10/20/00
GROUND SURFACE EL.: —

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
1:05 0		NA		cl		asphalt. 1 inch Sandy clay, brown, no staining, no odor.
5	0.0		cc 4'	cl		clay, green black - stained, slight to moderate odor.
10			cc 4'	ml		1.25' silt, brown, no staining, no odor
15			cc 4'	ml		
			cc 4'	sp		Sand, brown - fine - to medium - grained, no staining no odor.
20						
25						TD = 21' — = Not measured NA = Not applicable CC = continuous core
30						
35						
40						Measurement. side wall 8' front wall 18'
45						

00-115SIP-05 REV. 4/21/00

CLIENT: WD1

PROJECT NO.: 94-296

LOCATION: SFC, CA

TRC

SHEET 1 OF 1

BORING NO. WDI-SB-DP-35

DRILLING CO.: Gregg Drilling
RIG TYPE: DP-10
SAMPLER TYPE: Continuous core
AND DIMENSION: 4' long
FIELD ENGINEER: K. Waite
GEOLOGIST:
EDITED BY:
CHECKED BY:

COORDINATES N. — E. —

DATE BEGAN: 10/20/00
DATE FINISHED: 10/20/00
GROUND SURFACE EL.: —

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0		NA				asphalt
				cl		sandy clay brown - no staining no odor
5			cc 4'	cl		clay green black moist stained - slight to moderate odor
10			cc 4'	ml		silt, brown - no staining, no odor
15			4' cc	sm		silty sand, brown no staining, no odor, micaceous
20			cc 4'	sp		sand, brown, no staining, no odor, micaceous

TD = 21'
— = Not measured
NA = Not applicable
CC = Continuous core

Measurement
55' from side of building - 88 concrete pad.
22.3' from front of building

00-115SIP-05 REV. 4/21/00

CLIENT:
PROJECT NO.:
LOCATION:

TRC

SHEET 1 OF 1

BORING NO. WD1-SB-DP-36

DRILLING CO.: Gregg Drilling
RIG TYPE: DP-40
SAMPLER TYPE: Continuous core
AND DIMENSION: 4' long
FIELD ENGINEER: K. Waite
GEOLOGIST:
EDITED BY:
CHECKED BY:

COORDINATES N. — E. —

DATE BEGAN: 10/20/00
DATE FINISHED: 10/20/00
GROUND SURFACE EL.: —

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
1:50 0		NA		ml		asphalt sandy silt, brown - gravel - no odor, no staining
5	7.3 3.4			cl		clay, gray black - stained, moderate odor.
			CC, 4'	cl		sandy clay - red-brown - no staining, no odor
10			CC 4'			
				sp		sand, red-brown - fine grained - moist - no odor no staining
15			4' CC			
				sp		sand, brown - fine grained, moist, no odor, no staining
			3' CC			
20						
25						TD = 21'
						— = Not measured
						NA = Not applicable
30						CC = Continuous core.
35						
40						29' from front wall. 43' from DP-38 measurement
45						

00-115SIP-05 REV. 4/21/00

CLIENT: WD1

PROJECT NO.: 94-256

LOCATION: SFS, QA

TRC

SHEET 1 OF 1

BORING NO. WDI-SB-DP-37

DRILLING CO.: Gregg
RIG TYPE: DP-100
SAMPLER TYPE: Continuous core
AND DIMENSION: 4' long
FIELD ENGINEER:
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. — E. —
DATE BEGAN: 10/20/00
DATE FINISHED: 10/20/00
GROUND SURFACE EL.: —

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0		NA				asphalt = 1 inch.
				Sm		Silty sand, brown - no staining, no odor, micaceous
5			4' CC	Sm		Silty sand, brown - no staining no odor, micaceous
10			4 CC'	Sm		Silty sand, red-brown no staining, no odor, micaceous
15			3' CC	SP		sand, brown, slightly moist micaceous, qtz, no staining no odor.
20			CC	ml		sand, brown very fine-grained, micaceous, no staining no odor
25						TD=21'
						— = Not measured
						NA = Not applicable
						CC = continuous core
30						
35						30' from front wall 31' from side wall - forms the L measurement
40						
45						

00-115SIP-05 REV. 4/21/00

CLIENT: WDI

PROJECT NO.: 94-256

LOCATION: SFS, CA

TRC

BORING NO. WDI-SB-DP-38

SHEET 1 OF 1

DRILLING CO.: Gregg Drilling
RIG TYPE: DP-10
SAMPLER TYPE: Continuous core
AND DIMENSION: 4' long
FIELD ENGINEER\
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. — E. —

DATE BEGAN: 10/20/00
DATE FINISHED: 10/20/00
GROUND SURFACE EL.: —

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0		NA				asphalt -
				SM		silty sand, brown - no staining, no odor
5				CL		sandy clay, brown, no staining, no odor
				CL		clay, black-gray - stained, odor
				CL		sandy clay, red-brown - no staining no odor
10						
				CL		
15						
				CL		
20				SP		sand, brown, medium grained, no staining, no odor.
25						TD = 21'
						— = Not measured.
						NA = Not applicable
						CC = continuous core.
30						
35						27' from Sisneros' wall 150' from LOS Nietos measurement
40						
45						

00-115SIP-05 REV. 4/21/00

CLIENT: WDI-

PROJECT NO.: 94-256

LOCATION: SFS, CA

TRC

SHEET 1 OF 1

BORING NO. WDI-SB-DP-39

DRILLING CO.: Gregg Drilling
RIG TYPE: DP
SAMPLER TYPE: Continuous core
AND DIMENSION: 4' long
FIELD ENGINEER\
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. — E. —
DATE BEGAN: 10/23/00
DATE FINISHED: 10/23/00
GROUND SURFACE EL.: —

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
3:30 0	103		hand auger	SM		6" concrete silty sand, gravel, dk. brown, no odor, no staining
				CL		clay, black, strong odor, stained, very moist, some free product within clay.
5			CC 4'			
*				CL		clay, sandy, red-brown - no staining no odor.
10			CC 4'			
				SM		silty sand, red-brown, no staining no odor
			35' CC	SP		sand, red-brown - med. to fine-grained, no staining no odor.
			4' CC	SP		sand, red brown, moist, fine-grained, no staining no odor micaceous
20						
						TD = 20' NA = Not applicable — = Not measured CC = continuous core
25						
30						
35						
40						measurement 40' from air liquid wall 66' from back fence (reservoir side)
45						

00-115SIP-05 REV. 4/21/00

CLIENT: WDI
PROJECT NO.: 94-256
LOCATION: SFS, CA

* pushed more samples in before sampling very moist waste

TRC

BORING NO. WD1-SB-DP-40

SHEET 1 OF 1

DRILLING CO.: Gregg Drilling
RIG TYPE: DP-98
SAMPLER TYPE: Continuous core
AND DIMENSION: 4' long
FIELD ENGINEER\ GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. — E. —

DATE BEGAN: 10/23/00
DATE FINISHED: 10/23/00
GROUND SURFACE EL.: —

	DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
1:20	0		NA	hand auger	SM		concrete 4" silty sand, brown, gravel, no staining, no odor
*		31		cc 4'	CL		clay, black, stained, strong odor, wet
	5				CL		clay, red-brown, stiff trace of sand, no staining no odor
				3' cc			
	10			4' cc	ML		SILT, brown, no odor, no staining
	15			4' cc	CL		clay brown, trace of sand, no staining, no odor
	20						
	25						TD = 19'
							NA = Not applicable
							— = Not measured
							CC = continuous core
	30						
	35						
	40						measurement 100' from back wall (air liquide) 100' from back fence (reservoir
	45						

00-115SIP-05 REV. 4/21/00

CLIENT: WD1

PROJECT NO.: 94-256

LOCATION: SFS, CA

* push liner prior to sampling wet waste

TRC

BORING NO. W01-SB-02-41

SHEET 1 OF 1

DRILLING CO.: Gregg Drilling
RIG TYPE: DP-10
SAMPLER TYPE: Continuous core
AND DIMENSION: 4' long
FIELD ENGINEER\
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. — E. —

DATE BEGAN: 10/23/00
DATE FINISHED: 10/23/00
GROUND SURFACE EL.: —

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0:00 0		NA	hand auger	ml		Silt, brown, concrete-gravel, no staining no odor
	25			cl		clay, black, stained slight odor.
				cl		clay, red-brown, no staining, no odor
5	—		4' CC	sc		staining sandy fine grained, red-brown, micaceous, no staining no odor
			4'	cl		clay, red-brown, no staining no odor
10			CC	ml		silt, brown, no staining no odor.
			4' CC	ml		clayey silt, brown no staining no odor
15			4' CC	cl		silty clay, brown, no staining no odor
20	—					
25						TC = 21"
						NA = Not applicable
						— = not measured
						CC = Continous core
30						
35						Measurement 8' from side fence (eastbound) 19' from street fence
40						
45						

00-115SIP-05 REV. 4/21/00

CLIENT: WD1

PROJECT NO.: 94-256

LOCATION: SFS, CA 92688

TRC

BORING NO. WDI-SB-DP-42

SHEET 1 OF 1

DRILLING CO.: Gregg Drilling
RIG TYPE: DP
SAMPLER TYPE: Continuous core
AND DIMENSION: 4' long
FIELD ENGINEER\
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. — E. —

DATE BEGAN: 10/23/00
DATE FINISHED: 10/23/00
GROUND SURFACE EL.: —

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0			hand auger			Concrete 12"
	1.5			cl		clay, red brown, no staining, no odor
						concrete
				ml		silt, brown, gravel
5				cl		clay, black, gravel, staining, moderate odor
			18" CC			
10			4 CC	cl		Sandy clay, red-brown, no staining no odor
				ml		silt, brown-red, no staining, no odor
				ml		silt, brown, no staining, no odor.
15			CC			
20			CC	cl		Sandy clay, brown, no staining, no odor.
25						TD = 21'
						NA = Not applicable
						NM = Not measured
30						CC = Continuous core
35						
40						measurement 11' from dialog building 82' from street fence
45						

00-115SIP-05 REV. 4/21/00

CLIENT: WDI

PROJECT NO.: 94-256

LOCATION: SFS, CA

TRC

BORING NO. WDI-SB-DP-43

SHEET 1 OF ____

DRILLING CO.: GREGG
RIG TYPE: M1.3T
SAMPLER TYPE: DIRECT PUSH
AND DIMENSION:
FIELD ENGINEER:
GEOLOGIST: C. CHEN
EDITED BY:
CHECKED BY:

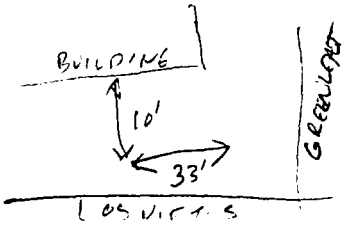
COORDINATES N. NM E. NM

DATE BEGAN: 10/27/00
DATE FINISHED: 10/27/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
7:35 0		NA	recovery CC			0-2" ASPHALT BASE
					cl	3' SANDY CLAY, BROWN, NO ODOR, NO STAINING
5			3½'			(5-9')
					cl	6' CLAY, GREY GREEN, NO ODOR, STAINED
	3.1 FID 2 HNU		2½'		sc	(9-13') Clayey sand, greenish grey, no odor, stained
10					cl	Sandy clay, reddish brown, no odor, no staining
8:35			2½'		sp	coarse grained sand, reddish brown, no odor no staining (13-17')
					cl	Clay, dark red, no odor, no staining
15					cl	Sandy clay, reddish brown, no odor, no staining
9:05						
20						
25						
30						TD = 17' NA = not applicable NM = not measured CC = continuous core groundwater not encountered
35						
40						
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal Inc
PROJECT NO.: 94-256
LOCATION: Santa Fe Springs, CA



TRC

APPENDIX B

LOGS OF INSIDE DIRECT PUSH BORINGS

BORING NO. WDI-SB-IDP-1

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: CME 75
SAMPLER TYPE: continuous core
AND DIMENSION:
FIELD ENGINEER:
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM

DATE BEGAN: 10/9/00

DATE FINISHED: 10/9/00

GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
9:00 0	4.5 4.5	NA		ml	NA	4 inches concrete
						clayey silt, reddish brown -
				cl		silty clay; black stained, slight odor
5			CC 4'	cl		clay, black stained, strong odor -
			4'	cl		clay, black stained, strong odor
10						
15			SBR	cl		silty clay, brown - no odor no staining
				cl		silty clay, brown, gray, no odor, no staining
20			SBR	ml		sand, brown, no staining no odor. fine-grained
25						TD = 20'
						No ground water encountered
						NM = Not Measured
30						NA = Not Applicable
						CC = continuous core
						SBR = Split Barrel Ring
35						13'5" from side wal
						15' from second hole
40						
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: SPS, CA

TRC

BORING NO. SB WDI-IDP-2

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: CME 75
SAMPLER TYPE: continuous core
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: R. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM

DATE BEGAN: 10/9/00
DATE FINISHED: 10/9/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0	4 16	NA		Cl	NA	4" concrete silty clay brown no staining no odor
			CC			
5			27"	cl		sandy clay black, stained, strong odor
			4'	cl		sandy clay, black, stained strong odor.
10						
15			SBR	cl		clay brown, stiff - no staining, no odor.
20			SBR	ml		clayey slt, brown - no staining, no odor.
25						TD= 20' No groundwater encountered NM = Not Measured NA = Not Applicable CC = Continuous core SBR = Split-Barrel Ring
30						
35						
40						21' from front opening 18' from side wall.
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: SPS, CA

TRC

BORING NO. WDI-SB-IDP-3

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: CME 75
SAMPLER TYPE: continuous core
AND DIMENSION:
FIELD ENGINEER/
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM
DATE BEGAN: 10/9/00
DATE FINISHED: 10/9/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0	1.9 pid 19 fid	NA		ml	NA	4" concrete sandy silt, dk brown, trace of gravel. no staining no odor.
5			SBR	ml		sandy silt, brown, no staining, no odor
10			SBR	cl		silty clay - brown red, no staining, no odor.
15			SBR	ml		clayey silt, brown, trace of sand, no staining no odor.
20			SBR	ml		sand, brown - med-grained, no staining no odor
25						TD = 20' No ground water encountered NM = Not Measured NA = Not Applicable
30						SBR = Split-Barrel Rig
35						
40						measurement: 8' from back wall 12.9' feet from side wall.
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: SPS, CA

TRC

BORING NO. WDI-SB-IDP-4

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: CME 75
SAMPLER TYPE: continuous core
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM

DATE BEGAN: 10/9/00
DATE FINISHED: 10/9/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
3:00 0	.5 4	NM		cl	NA	5" concrete Silty clay, black - stained, moderate odor, dry
5			CC 4'			
10	8 51		NR	cl		silty clay, black, stained, moderate odor - dry.
4 4 15			SBR	ml		silt, brown, no staining, no odor.
20			SBR	ml		sand, brown - medium-grained, no staining, no odor
:45						TD = 20' No ground water encountered NM = Not Measured NA = Not Applicable NR = Not Recovered CC = continuous core SBR = Split Barrel Ring.
25						
30						
35						
40						measurement - 6' from windowed wall 7.5' from side wall
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: SPS, CA

TRC

BORING NO. WDI- SB-10P-5

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: CME 75
SAMPLER TYPE: continuous core
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM

DATE BEGAN: 10/9/00
DATE FINISHED: 10/9/10
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0	3 10	NA		ml	NA	2" inches asphalt silt, brown red, no staining, no odor.
				cl		clay, black, stained, moderate odor, moist
5			NR	cl		clay, black stained, moderate odor, moist
10			SBR	ml		silt - black - appears stained, no odor - could be interface
15			SBR	ml		silt, brown, no staining, no odor
20			SBR	ml		sand, med. grain brown no staining no odor
25						TD = 20' No ground water encountered NM = Not measured NA = Not applicable. NR = Not recovered SBR = Split Barrel Ring.
30						
35						measurement = just outside door
40						
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: SPS, CA

TRC

SHEET 1 OF 1

BORING NO. WDI-SB-1 DP-6

DRILLING CO.: West Hazmat
RIG TYPE: B LAR
SAMPLER TYPE:
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: R. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. nm E. nm
DATE BEGAN: 10/10/00
DATE FINISHED: 10/10/00
GROUND SURFACE EL.: nm

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
						3" concrete
0	0 0	NA	hand auger NS	sm	NA	Silty sand, brown med. grained gravel, no odor, no staining
5			SBR	sm		silty sand, brown - fine grained no odor no staining
10			NR	ml		sandy silt, brown - no odor no staining
15			SBR	cl		silty clay, reddish brown - stiff - no odor, no staining
20			SBR	sp		sand, medium grained brown - no odor, no staining
25						TD = 20'
						NM = Not Measured
						NA = Not applicable
						Ground water not encountered
30						NS = No sample collected.
35						
40						7' 9" from front
						4' 8" from side wall
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.
PROJECT NO.: 94-256
LOCATION: SFS, CA

TRC

SHEET 1 OF 1

BORING NO. WDI-SB-IDP-7

DRILLING CO.: West Hazmat
RIG TYPE: LAR
SAMPLER TYPE:
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. — E. —
DATE BEGAN: 10/12/00
DATE FINISHED: 10/12/00
GROUND SURFACE EL.: —

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0:18 0			hand auger			5" concrete
				sm		Subgrade, brown, gravel, no staining, no odor.
	3		cc	cl		sandy clay, black, stained, slight odor.
	2.6		3.5'	cl		clay, black, stained, moderate odor.
5				cl		6-6.5 clay - red-brown, stiff no staining no odor.
10			SBR	ml		sand, fine grained - red, no staining no odor.
15			SBR	ml		sand, fine grained, red, no staining no odor
0:50						
20					TD=16'	
25						Stop drilling at 16' very difficult to push and drive samplers
30						
35						
40						Measurement = 27'3" from outside wall 14' from back wall.
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.
PROJECT NO.: 94-256
LOCATION: SFS, CA

TRC

SHEET 1 OF 1

BORING NO. WDI-SB-IDP-8

DRILLING CO.: West Hazmat
RIG TYPE: LAR
SAMPLER TYPE:
AND DIMENSION:
FIELD ENGINEER:
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. — E. —

DATE BEGAN: 10/12/00
DATE FINISHED: 10/12/00
GROUND SURFACE EL.: —

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0				ml		3" asphalt; silt, brown - granitic gravel - no staining no odor
				sw		gravelly sand, red-brown, no staining no odor
5			CC 4'	cl		sandy clay, brown-black - stained, slight odor
10				cl		clay, black, stained slight odor (drilling mud)
15				cl		clay, red-brown - stiff - no odor, no staining
20				sp		sand, brown, medium-grained - micaceous, no odor, no staining.
25						
30						
35						
40						
45						

51' from back fence
26' from back canopy wall.

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.
PROJECT NO.: 94-256
LOCATION: SFS, CA

TRC

BORING NO. WDI-SB-10P-9

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: LAR
SAMPLER TYPE:
AND DIMENSION:
FIELD ENGINEER:
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. — E. —

DATE BEGAN: 10/13/00
DATE FINISHED: 10/13/00
GROUND SURFACE EL.: —

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
1:00 0	14 4	NA		sm		4" concrete hand auger refusal - silty sand, gravel. no staining no odor
				ml		clayey silt - dk brown - minor staining - staining smells organic - burnt wood
5			SBR			
				sm/ml		sandy silt, brown - trace of clay - slight moist. minor staining organic
10			SBR	sm/ml		sandy silt, brown, trace of clay. slightly moist no odor, no staining
15				cl		clay, brown-gray, no odor, no staining moist
			SBR	cl		sandy clay, red brown stiff - no odor, no staining - well compacted
20			SBR	ml		sand, red-brown, fine-grained micaceous, no staining no odor.
						TD = 20' — = not measured NA = Not applicable Ground water not encountered
25						
30						
35						
40						12' from back wall 35.5' from side wall
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: SFS, CA

TRC

BORING NO. WDI-SB/DP-10

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: LAR
SAMPLER TYPE:
AND DIMENSION:
FIELD ENGINEER:
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. —
E. —

DATE BEGAN: 10/13/00
DATE FINISHED: 10/13/00
GROUND SURFACE EL.: —

	DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
12:05	0	nm	NA				5" concrete.
					sm		hand auger refusal - silty sand, brown gravel, rocks, no staining no odor
				cc	sm		silty sand, gravel - brown - black - slight odor. stained.
	5			4'			
					cl		sandy clay, black - staining, moderate odor -
				cc			
	10			4'			
					cl		clay - black - moist - stained - strong odor
					cl		clay - gray - moist, no staining, no odor
	15			SER	cl		clay - red brown, stiff, medium, no staining no odor.
	20			SER			
							TD = 20'
1:55	25						NM = Not measured
							— = Not available
							NA = Not applicable.
	30						CC = continuous core
							Ground water not encountered.
	35						
	40						
							11'4" from frontwall
							53.5' from backwall
	45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: Santa Fe Springs, CA

TRC

BORING NO. WDI-SB IDP-11

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: ~~CME-75~~ LAR
SAMPLER TYPE: ~~[illegible]~~
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM

DATE BEGAN: 10/13/00
DATE FINISHED: 10/13/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
:05 0	NM	NA		sm		6" concrete silty sand, brown, gravel, trace of clay, slightly moist, no staining, no odor.
5			SBR	cl		silty clay, red brown, stiff, no staining, no odor.
10			SBR	cl		clay, red brown, stiff, no staining, no odor.
15			SBR	ml		sand, red-brown, fine-grained, no staining, no odor, micaceous
20			SBR	ml		sand, gray brown, fine-grained, micaceous, no staining, no odor
:60 25						TD = 20' NM = Not measured NA = not applicable Ground water not encountered
30						
35						
40						5' from sidewall 13 from back wall
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: SPS, CA

TRC

BORING NO. WDI-~~SB~~-IDP-12

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: ~~CME-75~~ LAR
SAMPLER TYPE: ~~continuous core~~
AND DIMENSION:
FIELD ENGINEER/
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM

DATE BEGAN: 10/13/00
DATE FINISHED: 10/13/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0				ml		6" Concrete silty sand, dk brown - gravel, no odor no staining
				sl		sandy clay, black stained - moderate odor, dry
5		SBR		cl		sandy clay, brown - no staining, no odor.
10		NR				
15		SBR		ml		Sand, fine-grained, brown, no staining no odor, moist
20		SBR				
25						TD = 20' NM = Not measured NA = Not applicable NR = No Recovery
30						Ground water not encountered
35						
40						18'9" from back wall 50.5 from side wall
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: SPS, CA

TRC

BORING NO. WDI-SB-DP-13

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: ~~CME 75~~ LAR
SAMPLER TYPE: ~~continuous core~~
AND DIMENSION:
FIELD ENGINEER/
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM

DATE BEGAN: 10/13/00
DATE FINISHED: 10/13/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
:50 0	1	NA		SM		6" concrete, silty sand, gravel, brown, no staining no odor
	7			CL		sandy clay, black, stained, moderate color
5			SBR			
				CL		clay, black, stained, moderate odor - very moist
10			SBR			
				CL		clay, red-brown, no staining no odor.
15			SBR	CL		clay, red-brown, no staining, no odor
				CL		clay, red-brown, no staining no odor
20			SBR			
						TD=20'
						NM= Not measured
25						NA= Not applicable
						Groundwater not encountered
30						
35						
						13'5" from back wall
40						15.5' from side wall
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: SPS, CA

TRC

BORING NO. WDI- SB - IDP-14

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: ~~CME 75~~ LAR
SAMPLER TYPE: ~~continuous core~~
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: R. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM

DATE BEGAN: 10/14/00
DATE FINISHED: 10/14/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
3:00 0		NA		cl		4" concrete Sandy clay, dk brown, slightly moist, no staining no odor
:34 5	10 50		SBR	cl		sandy clay, black-gray-stiff, stained, slight odor
:00 10			SBR	cl		clay-black gray. stained, moderate odor-very moist
15			SBR			
:25				ml		sand, black-stained, fine grained, moderate odor-
20			SBR	ml		sand-brown fine grained no staining, no odor
25						TD= 20'
						NM= Not measured
						NA= Not applicable
30						Groundwater not encountered.
35						
40						13'4" from back wall
						50' from wall
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: SPS, CA

* simple wet waste 1½ pushes on cores samples or an scooping the waste out.

TRC

BORING NO. WDI-SB-IDP-15

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: ~~CME-75~~ LAR
SAMPLER TYPE: ~~continuous core~~
AND DIMENSION:
FIELD ENGINEER:
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM

DATE BEGAN: 10/14/00
DATE FINISHED: 10/14/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0	NM	NA				5" concrete
				cl		Sandy clay, dk brown, slightly moist, no staining no odor
5			SBR	cl		clay, black, slightly moist. Stained - slight odor.
						concrete layer.
10			SBR	ml		Sand, black, stained moderate odor
				cl		clay, black, stained strong odor
15			SBR	cl		Gray-red-brown, no staining, no odor.
20			SBR	SM		Sandy silt - graybrown - no staining - slight sweet odor
25						TD = 20'
						NM = Not measure
						NA = Not applicable
30						Groundwater not encountered
35						
40						15' 3" from Back wall
						19' from side wall
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: SPS, CA

TRC

BORING NO. WDI-SB-1DP-16

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: ~~CME-75~~ LAR
SAMPLER TYPE: ~~continuous core~~
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM

DATE BEGAN: 10/14/00
DATE FINISHED: 10/14/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0:25 0						5" concrete
				Sm		sandy silt, gravel, red-brown no staining, no odor
5		10 55	SBR	cl		sandy clay, black-gray, stained, moderate odor
				cl		clay, black-gray, stained, slight odor.
10			SBR	cl		sandy clay, black-stained, slight odor
15			SBR			
						strong odor
20			SBR	sm		silty sand, brown gray- no staining no odor
						TD = 20'
25						NM = Not measured
						NA = Not applicable
						Groundwater not encountered
30						
35						
40						19' from side wall
						6'8" from front wall
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: SPS, CA

TRC

BORING NO. WDI-SB-IDP-17

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: [redacted]
SAMPLER TYPE: [redacted]
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM

DATE BEGAN: 10/14/00
DATE FINISHED: 10/14/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0 (1:15)		NA	hand auger	SM		sandy silty - brown - gravel - no staining no odor.
(1:20)				CL		sandy clay - black - stained, slight odor.
5						
10						
15						TD = 5'
						NM = Not measured
						NA = Not applicable
						Ground water not encountered
20						
25						
30						
35						
40						
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: SPS, CA

TRC

BORING NO. WDI-SB-IDP-18

SHEET 1 OF ____

DRILLING CO.: GREGG
RIG TYPE: M1.3T
SAMPLER TYPE: DIRECT PUSH
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: C. CHEN
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM

DATE BEGAN: 10/27/00
DATE FINISHED: 10/27/00
GROUND SURFACE EL.: NM

	DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
1:40	0		NA	recovery CC			8" concrete
				4'		cl	3½' sandy clay, grey/black, moderate odor, stained
	5					cl	(4-8') sandy clay, red brown, no odor, no staining
:45				4'		cl	(8-12') sandy clay, red brown, no odor, no staining
	10			3½'		SC	clayey sand, brown, no odor, no staining
						cl	(12-16') sandy clay, brown, no odor no staining
						SP	coarse grained sand, brown, no odor no staining
:15	15					ML	clayey silt, tan, no odor, no staining
	20						
	25						TD = 16'
							NA = not applicable
							NM = not measured
							CC = continuous core
							groundwater not encountered
	30						
	35						
	40						
	45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal Inc
PROJECT NO.: 94-256
LOCATION: Santa Fe Springs CA

Chillers

TRC

BORING NO. WDI-SB-IDP-19

SHEET 1 OF ____

DRILLING CO.: GREGGT
RIG TYPE: M1.3T
SAMPLER TYPE: DIRECT PUSH
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: C. CHEN
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM

DATE BEGAN: 10/27/00
DATE FINISHED: 10/27/00
GROUND SURFACE EL.: NM

	DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
:30	0		NA	CC (recovered)			5½" CONCRETE LAYER
							4" CONCRETE LAYER
		11 PID				CL	(2-2½') SANDY CLAY, GREY BLACK, MODERATE ODOR, STAINED
						SC	CLAYEY SAND, TAN, NO ODOR, NO STAINING
:30		4 PID		1'		CL	(4-8') CLAY, GREY BLACK, STRONG ODOR, STAINED
	5						5' REFUSAL
	10						
	15						TD = 5'
							NA = not applicable
							NM = not measured
							CC = continuous core
	20						groundwater not encountered
	25						
	30						
	35						
	40						
	45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal Inc

PROJECT NO.: 94-256

LOCATION: Santa Fe Springs, CA

Stancells

TRC

BORING NO. WDI-SB-IDP-20

SHEET 1 OF ____

DRILLING CO.: GREGG
RIG TYPE: M 1.3T
SAMPLER TYPE: DIRECT PUSH
AND DIMENSION:
FIELD ENGINEER:
GEOLOGIST: C. CHEN
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM

DATE BEGAN: 10/27/00
DATE FINISHED: 10/27/00
GROUND SURFACE EL.: NM

	DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE (recovery)	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
1:10	0	18	NA	CC		cl	6" concrete sandy clay, grey/black, slight odor, stained mixed w/ asphalt and wood chunks
1:40	5			4'		cl	(5-9') sandy clay, grey black, moderate odor, stained
				4'		cl	silty clay, gray brown, slight odor, stained (9-13)
	10					cl	silty clay, brown, no odor, no staining
				3'		cl	(13-17) clay w/ gravel, tan (marbled), no odor no staining
	15			2'			(17-20)-
1:45	20					sp	coarse grained sand, tan, no odor, no staining
	25						
	30						TD = 20' NA = not applicable NM = not measured CC = continuous core groundwater not encountered
	35						
	40						
	45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal Inc
PROJECT NO.: 94-256
LOCATION: Santa Fe Springs, CA

1 2 3 4 5 6 7

TRC

APPENDIX C

LOGS OF HOLLOW-STEM AUGER BORINGS

SHEET 1 OF 1

BORING NO. WDI-SB-HSA-1

DRILLING CO.: West Hazmat
RIG TYPE: CME 75
SAMPLER TYPE: 140 hammer
AND DIMENSION: 30 in drop
FIELD ENGINEER:
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. nm E. nm
DATE BEGAN: 10/3/00
DATE FINISHED: 10/3/00
GROUND SURFACE EL.: nm

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0				ml	NA	silt, gravel - asphalt - no odor no staining.
5		8 8 11	SBR	ml		clayey silt - dk brown - no staining, no odor
10	2 9.5		S	Cl		clay, grey black - stained moderate odor
15			NS			clay, grey black - stained moderate odor
20		16 18 28	SBR	ml		sand, medium fine-grained gray - no staining, no odor
25		28 50	SBR	SP		sand - light brown coarse grained - quartz, feldspar, mica - no staining no odor
30		26 50	SBR			sand - brown coarse grained - qtz, feldspar, mica - slightly moist no staining no odor
35		15 28 37	SBR	Cl		clay - brown red - fat stiff - trace of silt and sand no staining no odor
40		19 25 40	SBR			clay brown red - fat stiff - trace of silt no staining no odor

TD = 40 feet
SBR = Split Barrel Ring
S = Shelby tube

Ground water not encountered

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc
PROJECT NO.: 94-256
LOCATION: Santa Fe Springs, CA

TRC

SHEET 1 OF 1

BORING NO. WD1-SB-HSA-2

DRILLING CO.: West Hazmat
RIG TYPE: CME 75
SAMPLER TYPE: 140 lb hammer 30 in drop
AND DIMENSION:
FIELD ENGINEER:
GEOLOGIST: R. Waite / C. Chen
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM
DATE BEGAN: 10/3/00
DATE FINISHED: 10/3/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
1:30 0	NA			SM		asphalt - black - dry - silty - sandy asphalt - odor, stained
5		9 10 9	SBR			asphalt, black - dry - silty sand odor stained
10		NM	S	Cl		clay, black stained odor
15		11 15 23	SBR			clay black - stained odor
20		19 28 25	SBR	Cl		clay, brown no staining no odor, moist
25		24 50	SBR	SP		sand, grey-brown coarse qtz, kspar mica - moist, no staining no odor
30		16 25 50	SBR			sand, grey brown coarse qtz, kspar mica - moist, no staining no odor
35		17 22 36	SBR	SM		fine grained silty sand, brown qtz-kspar mica-moist, no staining no odor
40 .00		13 17 23	SBR	Cl		clay, brown, no staining no odor
45						

TD = 40 feet
SBR = Split Barrel Ring
S = Shelby Tube

No Ground water encountered
NM = Not Measured
NA = Not available

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.
PROJECT NO.: 94-256
LOCATION: Santa Fe Springs, CA

TRC

BORING NO. WDI-SB-HSA-3

SHEET 1 OF 1

DRILLING CO.: WEST HAZMAT
RIG TYPE: CME 75
SAMPLER TYPE: HOLLOW STEM AUGER
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: VERINA CHEN
EDITED BY:
CHECKED BY:

COORDINATES N. nm E. nm

DATE BEGAN: 10/4/00
DATE FINISHED: 10/4/00
GROUND SURFACE EL.: NM

	DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
	0						3" ASPHALT
					sm		sandy silt w/gravel, brown, no odor, no staining
1:45	5	32 1.2	16 9	SBR	cl		silty clay, dark brown, no odor, no staining
	10		12 16 27	SBR	cl		sandy clay, brown, no odor, no staining
	15		16 20 28	SBR	ml		sand, brown, no odor, no staining
	20		17 31 50	SBR	sp		coarse grained sand, tan brown, no odor, no staining
	25		50	SBR	sp		coarse grained sand w/gravel, brown, no odor, no staining
	30		10 14 21	SBR	sm		sandy silt, brown, no odor, no staining
2:30pm	35		37 50	~~SBR~~ NR	sm		sandy silt, brown, no odor, staining
							TD = 35 ft
							nm = not measured
	40						NA = Not applicable
							ground water not encountered.
	45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc

PROJECT NO.: 94-256

LOCATION: Santa Fe Springs, CA

TRC

BORING NO. WDI-SB-HSA-4

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: CME 75
SAMPLER TYPE: Split-Barrel Ring
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM

DATE BEGAN: 10/6/00
DATE FINISHED: 10/6/00
GROUND SURFACE EL.: nm

	DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
7:40	0	2.1			ml		Silt, dk brown, asphalt, concrete
					cl		clay, black-gray stained, strong odor, stiff.
	5		3 6 9	SBR	cl		clay, black-gray-stained, strong odor, moist
	10		12 24 38	SBR	cl		clay, black-gray stained strong odor, moist
					cl		clay, red-brown stiff no staining, slight odor.
	15		20 24 30	SBR	ml		clayey silt, tan - trace of sand, no staining, slight odor
	20		18 50	SBR	sm		silty sand, fine-grained, light tan, micaceous, no staining no odor.
	25	2.8 1.9	50	SBR	sp		sand, brown-coarse grained, qtz, feldspar, no staining no odor.
	30		35 50	SBR	sp		sand, brown coarse grained, qtz, feldspar, no staining no odor.
					cl		clay, red-brown, no staining no odor.
	35		50	NR	SW		sandy gravel, coarse grained, brown - no staining no odor.
							TD = 35'
:40	40						n.m = not measured Ground water not encountered SBR: Split Barrel Ring NR: Not Recovered
	45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: SFS, CA

TRC

BORING NO. WDI-SB-HSA-5

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: CME 75
SAMPLER TYPE: Split Barrel Ring
AND DIMENSION: 2½" x 1"
FIELD ENGINEER\ GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. nm E. nm

DATE BEGAN: 10/6/00
DATE FINISHED: 10/6/00
GROUND SURFACE EL.: nm

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0				ml		Silt red brown - no staining, no odor
				cl		clay, black-gray, staining, moderate odor moist.
5	13 43	6 7 11				
10		3 4 4		cl		sandy clay - black - gray stained, moderate odor, moist
15		18 28 40		cl		sandy clay, red-brown - no staining, no odor
20		20 50		sc		clayey sand, red-brown - no staining, no odor
25		37 50		cl sp		sandy clay - red-brown - no staining, no odor Sand - brown coarse-grained - gravel, qtz, feldspar, mica no staining no odor.
30		50		sp		sand - coarse grained brown - gravel, qtz, feldspar, mica no staining, no odor
35		15 19 25		sc		clayey sand - medium-grained - brown, no staining, no odor
40		32 50		ml		Sandy silt - brown - no staining no odor, micaceous TD = 40'
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.
PROJECT NO.: 94-256
LOCATION: SFS, CA

TRC

BORING NO. WDI-SB-HSA-6

SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: CME 75
SAMPLER TYPE: Split-Barrel Ring
AND DIMENSION: 2½" x 1"
FIELD ENGINEER:
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. nm E. nm

DATE BEGAN: 10/6/00
DATE FINISHED: 10/6/00
GROUND SURFACE EL.: nm

	DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
1:35	0				cl		2" asphalt clay, black-gray, stained, moderate odor
		4			ml		clayey silt, brown-red, no odor no staining
		2					white silt-puddy material (lime) (possible odor control?)
		13	4		ml		clayey silt, brown, trace of sand, no odor no staining
	5	32	6				
			9				
					cl		sandy clay, black-gray, moderate odor, stained, moist
	10		3				
			7				
					cl		sandy clay-black gray-moderate odor staining, moist
	15		50				silty clay, red brown, stiff-no odor no staining.
			14				
	20		19		cl		sandy clay, red brown stiff, no odor, no staining.
			21				
	25		50		sp		sand, brown, coarse grained, gravel qtz, k-spar mica, no odor no staining.
	30		50		sp		sand, gray brown coarse-grained, trace qtz, k-spar mica, no odor no staining.
							sandy silt, fine-grained, micaceous, brown, no odor, no staining.
	35		50		ml		sandy silt, fine-grained, micaceous, brown, no odor, no staining.
	40						
							TD = 35' nm = not measured
:40	45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.
PROJECT NO.: 94-256
LOCATION: SFS, CA

TRC

SHEET 1 OF 1

BORING NO. WDI-SB-HSA-7

DRILLING CO.: West Hazmat
RIG TYPE: CME 75
SAMPLER TYPE: Split Barrel Ring
AND DIMENSION: 2½" x 1"
FIELD ENGINEER\
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. nm E. nm

DATE BEGAN: 10/6/00
DATE FINISHED: 10/6/00
GROUND SURFACE EL.: nm

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
0				ml		3" asphalt, Silt, brown, gravel, asphalt, no odor, no staining.
				cl		sandy clay, black-gray, moderate odor, stained moist
5		3 5 12	SBR			
10	36	22 33 45	SBR	cl		clay, gray-stiff, stained, no odor,
15		50	SBR	ml		clayey silt, brown, trace sand, no staining no odor
20		30 50	SBR	cl		clay brown stiff, no staining, no odor
				sm		Silty sand, fine-grained, brown, no odor, no staining
25		50	NR	sm		silty sand, fine-grained, brown, no odor, no staining micaceous
30		27 50		sp		sand coarse grained, brown, qtz, feldspar, heavy staining no odor.
				sm		Sand, fine-grained, gray, micaceous
35		50		sw		sandy gravel - brown gray, coarse-grained no odor, no staining -
40						
						TD=35'
45						

00-115SIP-05 REV. 4/21/00

CLIENT: Waste Disposal, Inc.

PROJECT NO.: 94-256

LOCATION: SFS, CA

TRC

BORING NO. WDI-SB-HSA-8 SHEET 1 OF 1

DRILLING CO.: West Hazmat
RIG TYPE: CME 75
SAMPLER TYPE: ~~continuous core~~
AND DIMENSION:
FIELD ENGINEER\
GEOLOGIST: K. Waite
EDITED BY:
CHECKED BY:

COORDINATES N. NM E. NM
DATE BEGAN: 10/14/00
DATE FINISHED: 10/14/00
GROUND SURFACE EL.: NM

DEPTH IN FEET	PID OR FID (ppm)	PENETRATION RESISTANCE (BLOWS PER FOOT)	SAMPLE NO. AND TYPE	U.S.C.S.	PROFILE/LITHOLOGY	DESCRIPTION
11:15 0	12 3			sm		3" asphalt black - burned wood sandy silt
		ST	ST	sm		sandy silt, black stained slight odor gravel, brick tile
5	5 15	ST	ST	cl		clay, black stained slight odor pieces of brick
		ST	ST	cl		clay, black, stained, moderate odor, moist
10	26 350	16 31 50	SBR	cl		sandy clay, black, stained, dense - moderate odor
15		40 50	SBR	sm		sandy silt brown - no staining, no odor
20		31 50	SBR	sp		sand, coarse-grained, brown, no staining no odor, trace clay.
25		35 50	SBR	sp		sand, brown, trace clay, no staining, no odor. coarse grained
30		50	SBR	sp		sand, brown coarse-grained no staining no odor
35 11:15		50	SBR	sp		sand, brown, coarse-grained, no stained, no odor.
40						TD = 35' NM = Not measured Ground water not encountered.
45						measurement 45' from back fence 45' from side fence

CLIENT: Waste Disposal, Inc.
PROJECT NO.: 94-256
LOCATION: SPS, CA

00-115SIP-05 REV. 4/21/00

TRC

APPENDIX D

DISKS OF ANALYTICAL LABORATORY REPORT

UNSCANNABLE MEDIA

See Document # 90047
for scanned image(s) of the media document(s) label(s).

To use the unscannable media document(s),
contact the Superfund Records Center.

APPENDIX E

GRAZIANO GEOTECHNICAL REPORT

MOORE & TABER • Engineers • Geologists

PHONE (714) 525-0242 • 1125 E. TRUSLOW AVE. • FULLERTON, CALIF., 92631

September 14, 1965

Job No. 25-134 T

Mr. A. Ortega
12702 Biola
La Mirada, California

Dear Mr. Ortega:

Subject: Foundation Alternates, Commercial Building
Los Nietos Avenue, Santa Fe Springs, California

This letter supplements our Report of Compacted Fill of July 15, 1965 (Job No. 25-134 T) and presents alternate foundation recommendations in lieu of a footing setback due to questionable compacted trench backfills within the influence of the proposed footings. Since space requirements are critical, the 5-foot setback recommended in the report can be waived if one of the following alternates is selected.

deepened

1. The continuous footing along the east property line could be deepened so that the base of the footing is founded in firm material below the adjacent existing 6-inch sewer. The depth of the footing would be approximately 6 feet at the southeastern corner of the proposed building and would decrease to about 2 feet at the northeasterly corner.

2. A second alternative would be to reduce the design load of the footings to 1,000 p.s.f. and place the footings no closer than 3.5 feet (horizontal) to the sewer. The footing should be placed at least 18 inches below the finished grade.

For either case, it is recommended that the footing be reinforced with at least one No. 4 bar placed at the top and bottom of the footing. In addition, a soils engineer should examine the footing trench prior to placing reinforcing steel or pouring the footing to insure penetration into firm material.

All other conditions and recommendations noted in our previous report are still considered valid.

Respectfully submitted,

MOORE & TABER

Jack T. Hagen

Jack T. Hagen
JTH/ro
[illegible]

R. F. Moore

Reviewed by R. F. Moore
Registered Civil Engineer 8300

MOORE & TABER • Engineers · Geologists

PHONE (714) 525-0262 • 1125 E. TRUSLOW AVE. • FULLERTON, CALIF., 92631

REPORT OF COMPACTED FILL

Industrial Building
Los Nietos Road, near Green Leaf Ave.
Santa Fe Springs, California

Client
A. Ortega

July 15, 1965

Job No. 25-134 T

REPORT OF COMPACTED FILL

Introduction

This report presents the results of our field inspections and field and laboratory tests performed during the grading operations on the subject site. The results of previous inspections and tests performed during the grading operations on adjacent sites with similar conditions were covered in our Reports of Compacted Fill of December 2, 1964 (Job No. 24-270 T), May 14, 1965 (Job No. 25-94 T) and June 28, 1965 (Job No. 25-132 T). These soils engineering services were conducted in compliance with a request by Mr. A. Ortega, the owner of the property.

Grading Procedures

The grading was performed by Luther Graham from June 14, to July 5, 1965, and consisted of the removal of old fill, oil sump materials, and debris from the proposed building area and replacing some of the excavated materials and imported soils in a compacted conditon. The area was previously part of an oil sump and the excavated materials consisted mainly of sandy silt with considerable soft clay (old drilling mud) and scattered debris.

The old fill and unsuitable materials were excavated beneath the proposed building down to undisturbed natural ground to a maximum depth of about 12 feet in the northeast portion of the building area. The extent of removal was 5 feet outside the building line on the north, south and west sides, and up to the east property line. The majority of the excavated materials were air dried, cleaned of miscellaneous debris and replaced as

compacted fill. Some additional materials from adjacent sites were needed to bring to grade. The fills were placed in thin lifts and compacted by a vibratory roller. The maximum depth of compacted fill was approximately 12 feet.

The location and elevation of filled ground is shown on the attached drawing, which is a modification of a plot plan supplied to us by the owner. The elevations, limits of removal and depth of fill were obtained by measurements taken in the field by a representative from this office during and subsequent to the grading operations.

Testing

The maximum density and optimum moisture of the representative soil used in the fill was determined by AASHO test method T 180-57, modified to use three layers in lieu of five. The result was: brown fine sandy silt with clay, maximum dry density - 114.0 lbs/cu.ft., optimum moisture content - 13.5 per cent.

Twelve relative compaction tests were taken during the fill placement operations to control compacted density. The samples were obtained by the drive cylinder method described in the ASTM publication "Procedures for Testing Soils," April, 1958. The moisture content was determined by weighing a sample of each test before and after exposure in an oven set at a constant temperature of 105° C for at least four hours.

Results of the relative compaction tests are tabulated below and the test locations are shown on the attached drawing.

Test No.	Date	Elevation	Moisture (%)	Dry Density (lbs/cu.ft.)	Relative Compaction (%)
1	6-28	99	17.6	104	92
2	"	96	17.2	103	91
3	"	92	18.8	102	90
4	"	92	17.2	104	92
5	6-29	97	13.2	110	97
6	"	97	13.6	111	97
7	"	96	14.5	105	92
8	"	98	15.6	105	92
9	6-30	99	16.3	108	95
10	"	98	18.5	105	92
11	6-30	98	17.3	107	94
12	"	99	17.2	108	95

Conclusions and Recommendations

Grading operations were conducted in accordance with good engineering practice and accepted grading methods. On the basis of our field inspections and tests, it is concluded that the backfills have been properly placed and compacted to a minimum of 90 per cent relative compaction. The fill is considered satisfactory for support of the proposed structure.

Laboratory tests indicated the soil was non-expansive; therefore, special design of the foundations for expansive soils is not considered necessary.

Design loads of 1,500 p.s.f. may be used for continuous footings, with a maximum width of two feet, placed at a depth of at least 12 inches below finished grade in the compacted fill. These loads are applicable to light single-story commercial or industrial buildings and are based on our experience with soils of the type constituting the building area and with the

values given in the Uniform Building Code for soils of similar classification. For larger buildings with heavier design loads, a separate foundation study is recommended.

Due to the proximity of the proposed building to a pre-existing sewer which is covered with loose fill, we recommend that the structure be set back five feet from the east property line. This recommended building line is shown on the attached drawing.

drawing.

Respectfully submitted,

MOORE & TABER

Richard L. Gerhold

Richard L. Gerhold

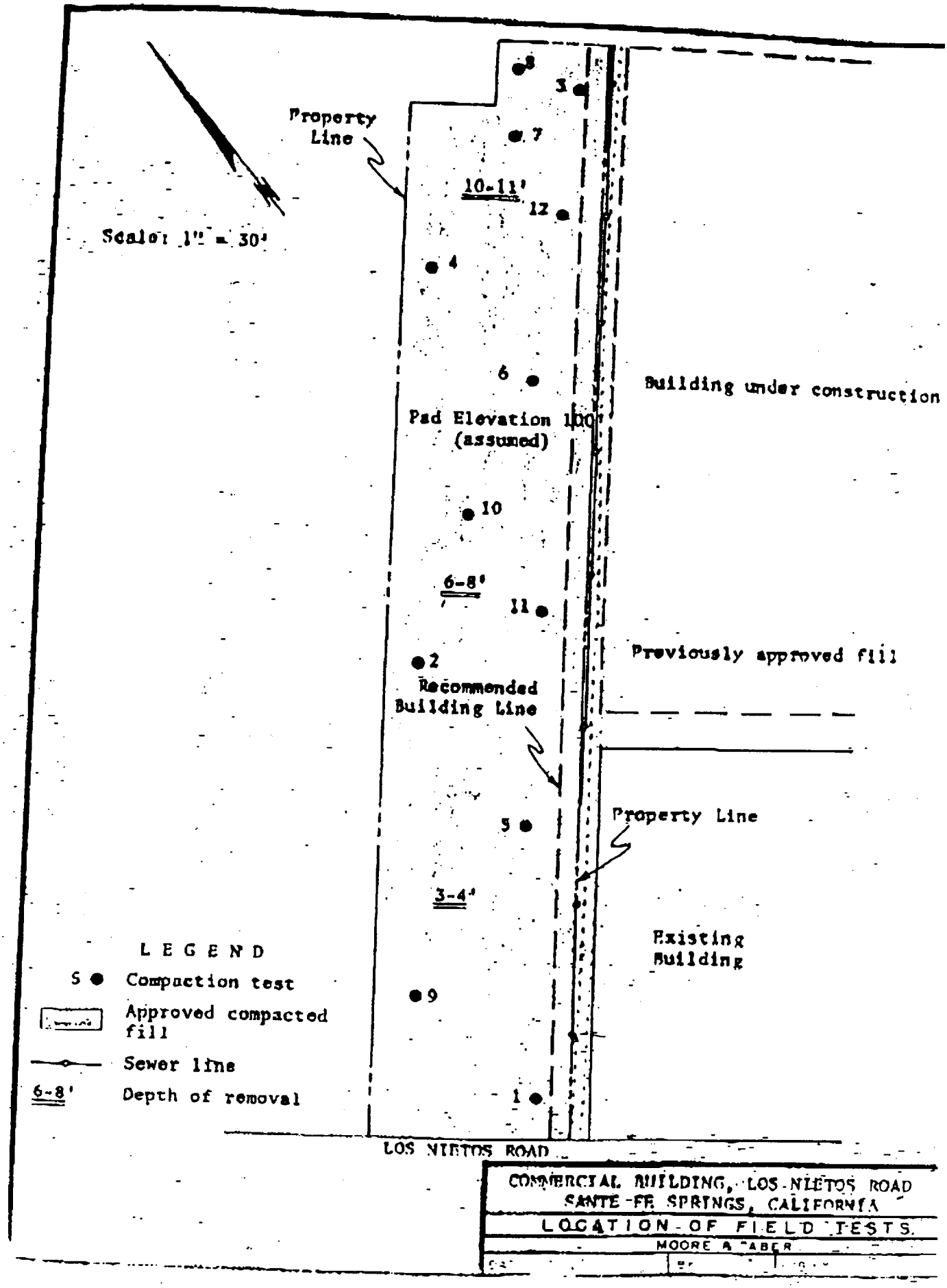
R. F. Moore

Reviewed by R. F. Moore
Registered Civil Engineer 8369

RLG/co

Attachments:
Plan

Distribution:
(4) Ortega


Property Line
Scale: 1" = 30'
8
3
7
10-11'
12
4
6
Building under construction
Pad Elevation 100'
(assumed)
10
6-8'
11
2
Previously approved fill
Recommended
Building Line
Property Line
5
3-4'
Existing
Building
LEGEND
S ● Compaction test
Approved compacted fill
Sewer line
6-8' Depth of removal
9
1
LOS NIETOS ROAD
COMMERCIAL BUILDING, LOS NIETOS ROAD
SANTE FE SPRINGS, CALIFORNIA
LOCATION OF FIELD TESTS.
MOORE & TABER

APPENDIX F

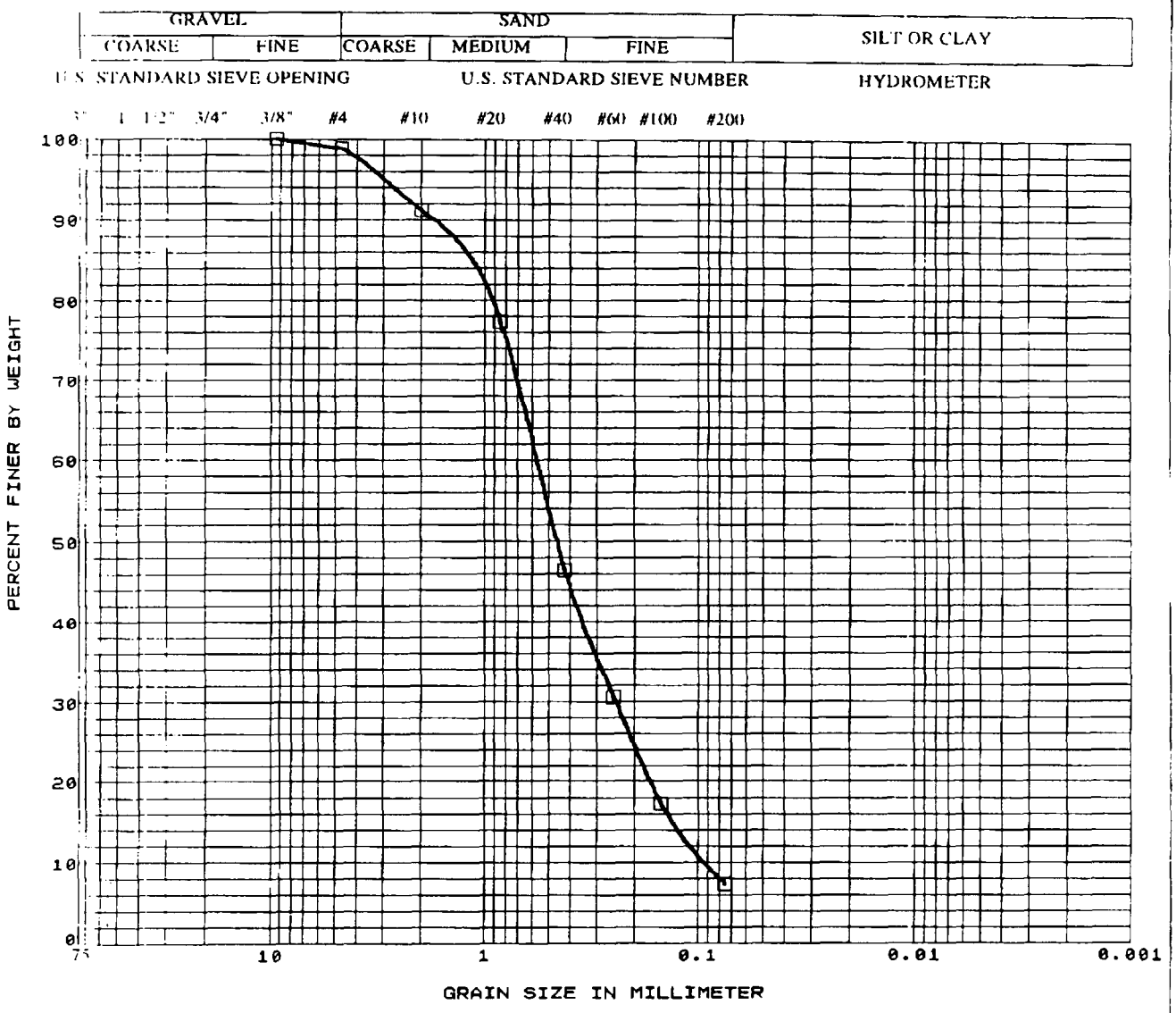
GEOTECHNICAL LABORATORY REPORT

SUMMARY OF INDEX PROPERTIES TEST RESULTS

PROJECT NAME: WDI
PROJECT NO.: 94-256
DATE: 1-18-01

KTL NO.: 01-056-001
CLIENT: TRC ENV. SOLUTIONS
SUMMARIZED BY: K. Tan

SAMPLE ID	DEPTH (FT)	MOISTURE CONTENT (%)	DRY DENSITY (PCF)	GRAIN SIZE DIST. GR:SA:FI
SA-1	5	19.7	97.5	
	10	18.1	103.9	
	25	2.2	89.4	
	30	12.2	95.9	
	35	18.4	110.1	
	40	8.9	105.6	
SA-2	5	12.1	109.3	
	20	9.9	98.6	
	25			1:92:7
	30	6.2	102.3	
	35	18.1	99.4	
SA-3	15	16.0	116.3	
	20	3.7	95.5	
	25	2.2	88.2	
	30	10.2	90.6	
SA-4	10	13.0	120.7	
	20			0:61:39
	25	3.4	94.0	
	30	10.5	105.1	
SA-5	15	13.1	122.8	
	25	4.8	107.5	
	30	17.3	93.7	
	35	17.7	103.0	
	40	24.0	104.5	
SA-6	15			0:69:31
	20	15.1	113.3	
	25	6.2	99.9	
	30			7:87:6
SA-7	10	14.2	121.6	
	20	6.4	99.3	
	30	16.4	105.4	
	35	5.5	97.9	5:93:2
SA-8	15	24.6	95.6	
	20	2.9	95.6	
	25	4.5	96.9	
	30	3.1	98.4	



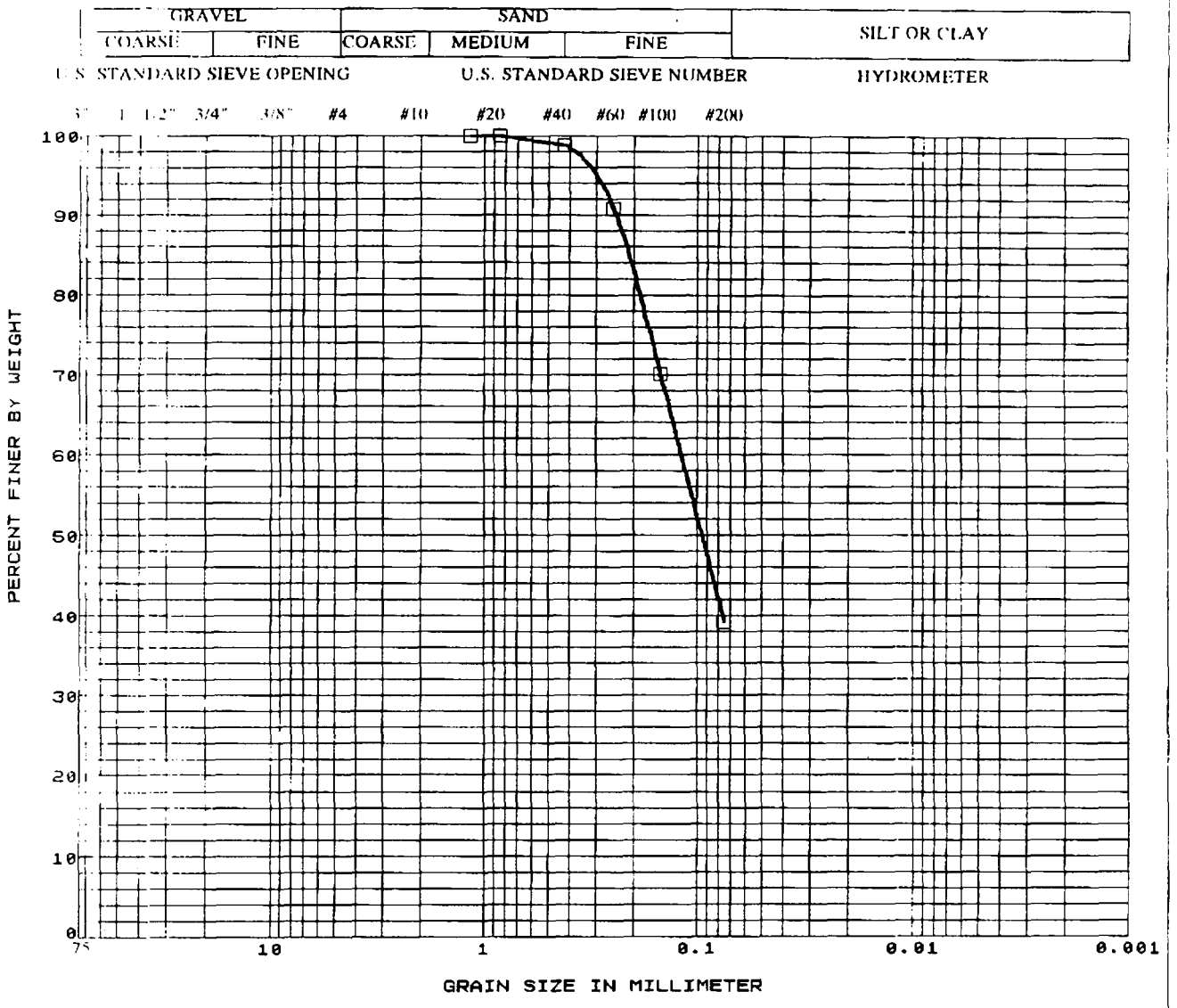
SYMBOL	SAMPLE ID.	DEPTH (ft)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTI-CITY INDEX
□	HSA-2	25	RING	SP-SM		

KEANTAN LABORATORIES	PROJECT NAME: WDI

GRAIN SIZE DISTRIBUTION CURVE

1/01

FIGURE



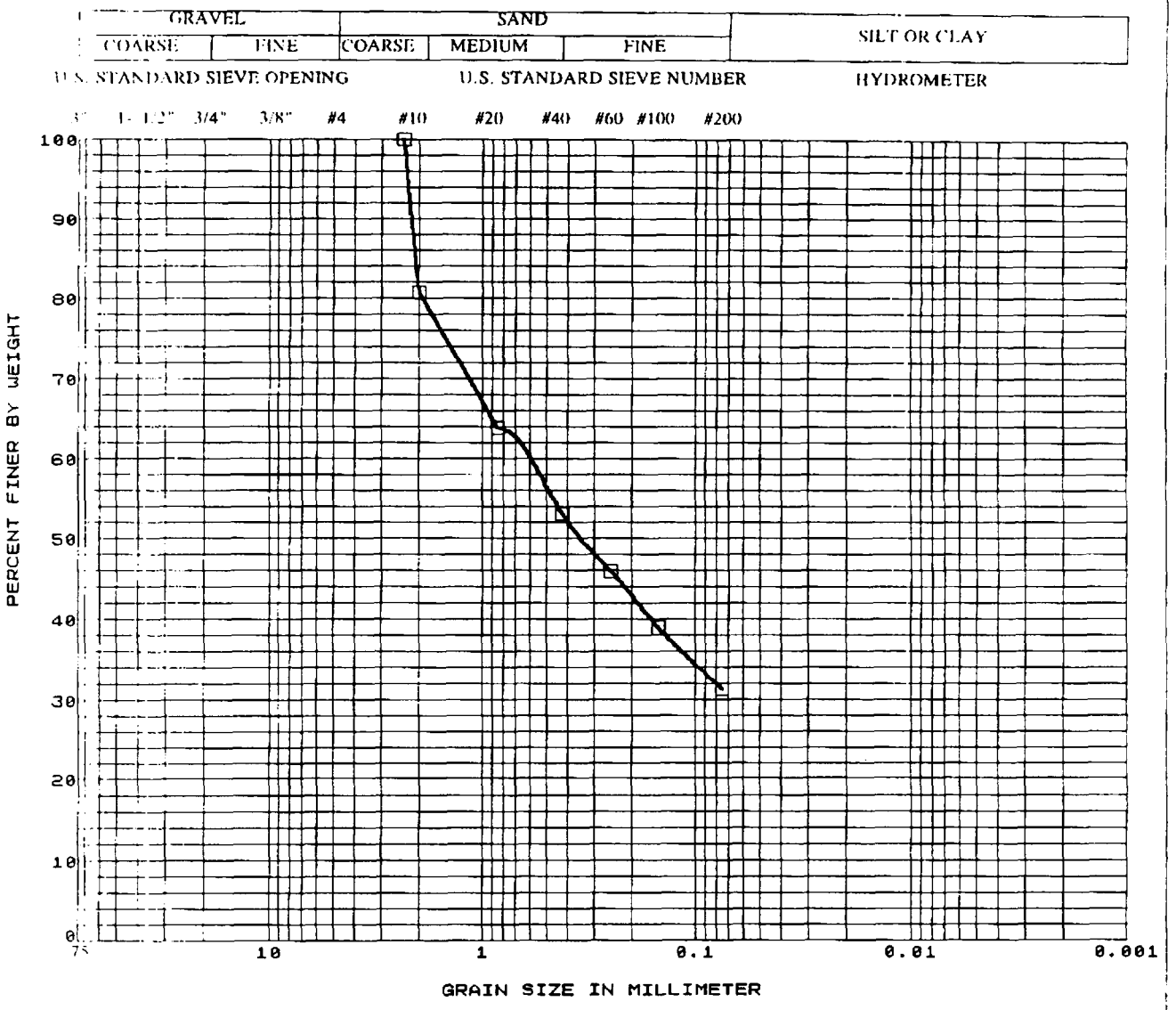
SYMBOL	SAMPLE ID.	DEPTH (ft)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTICITY INDEX
[]	HSA-4	20	RING	SC		

KEANTAN LABORATORIES	PROJECT NAME: WDI

GRAIN SIZE DISTRIBUTION CURVE

1/01

FIGURE



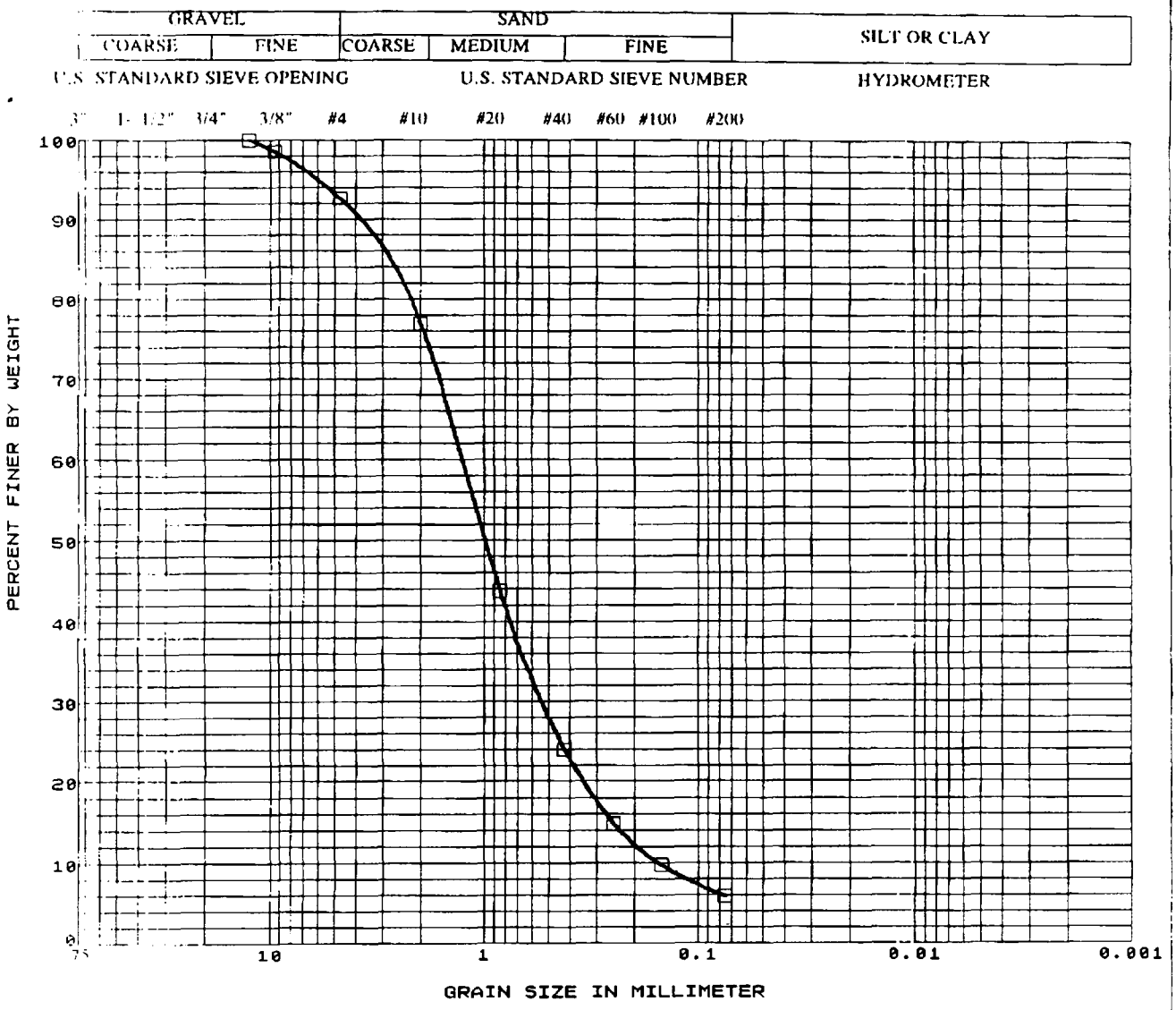
SYMBOL	SAMPLE ID.	DEPTH (ft)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTI-CITY INDEX
[illegible]	HSA 6	15	RING	SC		

KEANTAN LABORATORIES	PROJECT NAME: WDI

GRAIN SIZE DISTRIBUTION CURVE

1/01

FIGURE

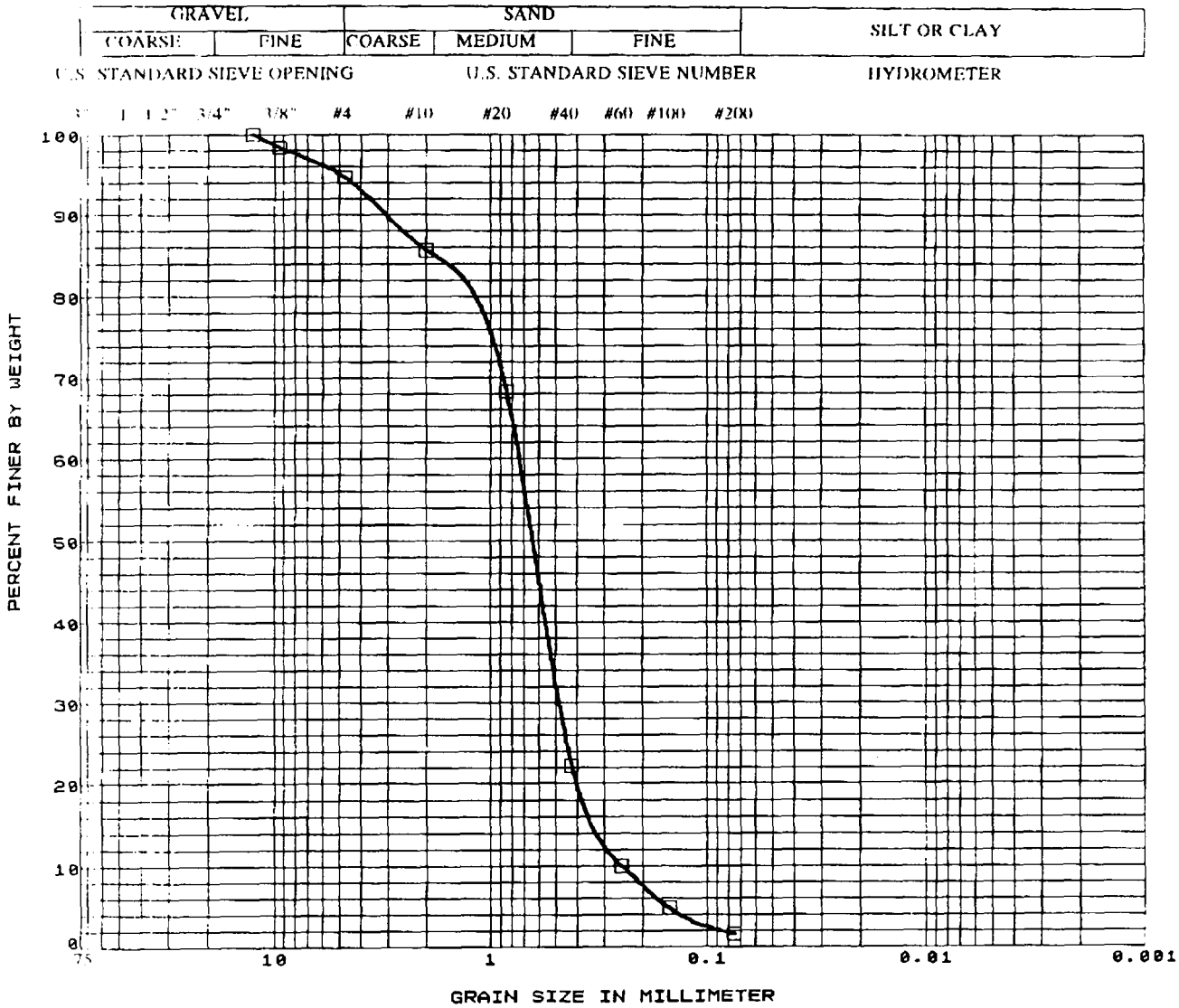


SYMBOL	SAMPLE ID.	DEPTH (ft)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTI-CITY INDEX
◻	HSA-6	30	RING	SP-SM		

KEANTAN LABORATORIES	PROJECT NAME: WDI

GRAIN SIZE DISTRIBUTION CURVE

1/01 FIGURE



SYMBOL	SAMPLE ID.	DEPTH (ft)	SAMPLE TYPE	SOIL TYPE	LIQUID LIMIT	PLASTI-CITY INDEX
☐	HSA-7	35	RING	SP		

KEANTAN LABORATORIES	PROJECT NAME: WDI

GRAIN SIZE DISTRIBUTION CURVE

1/01

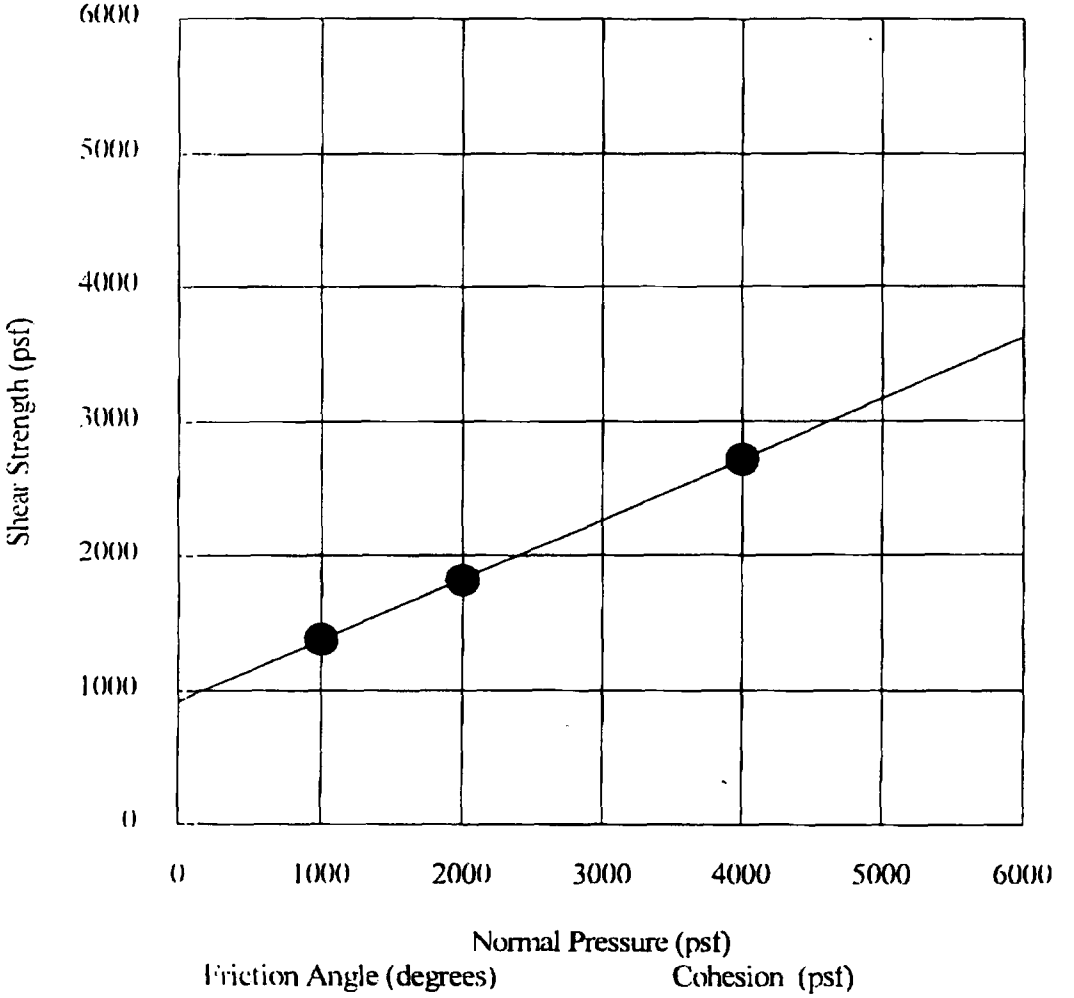
FIGURE

Direct Shear (CD) Test Results
ASTM D 3080

PROJECT NAME: WDI
PROJECT NO.: 94-256
DATE: JAN 2001
BORING NO.: HSA-4
SAMPLE NO.: N/A
SAMPLE TYPE: RINGS
RING DIAMETER: 2.42 IN.
RING HEIGHT: 1.0 IN.
MOISTURE CONTENT: 10.1 percent

KTL NO.: 01-056-001
CLIENT: TRC
DEPTH (ft): 20
USCS CLASS.: SC

SATURATED: YES
DRY DENSITY: 98.5 pcf



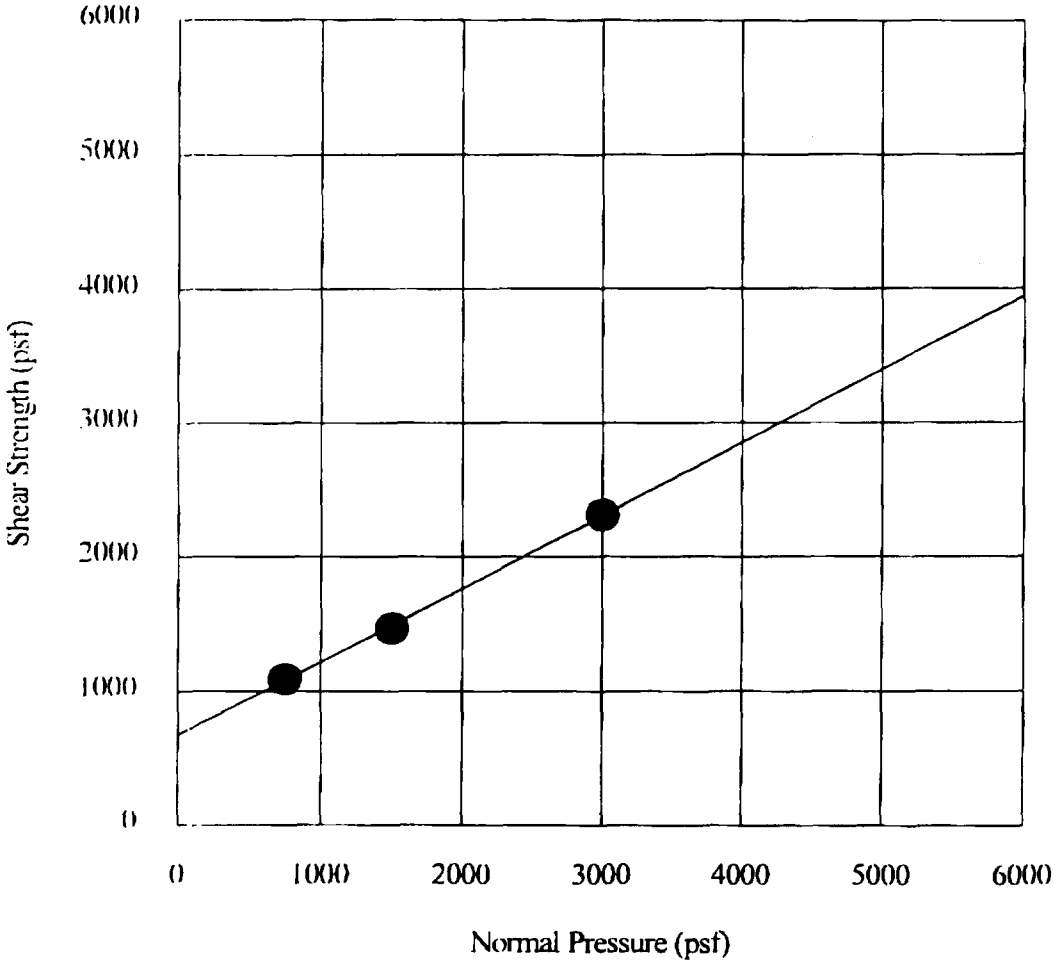
	Friction Angle (degrees)	Cohesion (psf)
Peak	24	922

Direct Shear (CD) Test Results
ASTM D 3080

PROJECT NAME: WDI
PROJECT NO.: 94-256
DATE: JAN 2001
BORING NO.: HSA-6
SAMPLE NO.: N/A
SAMPLE TYPE: RINGS
RING DIAMETER: 2.42 IN.
RING HEIGHT: 1.0 IN.
MOISTURE CONTENT: 17.2 percent

KTL NO.: 01-056-001
CLIENT: TRC
DEPTH (ft): 15
USCS CLASS.: SC

SATURATED: YES
DRY DENSITY: 110.4 pcf



	Friction Angle (degrees)	Cohesion (psf)
Peak	29	672

Unconfined Compression Test Results
ASTM D 2166

PROJECT NAME: WDI
PROJECT NO.: 94-256
DATE: JAN 2001

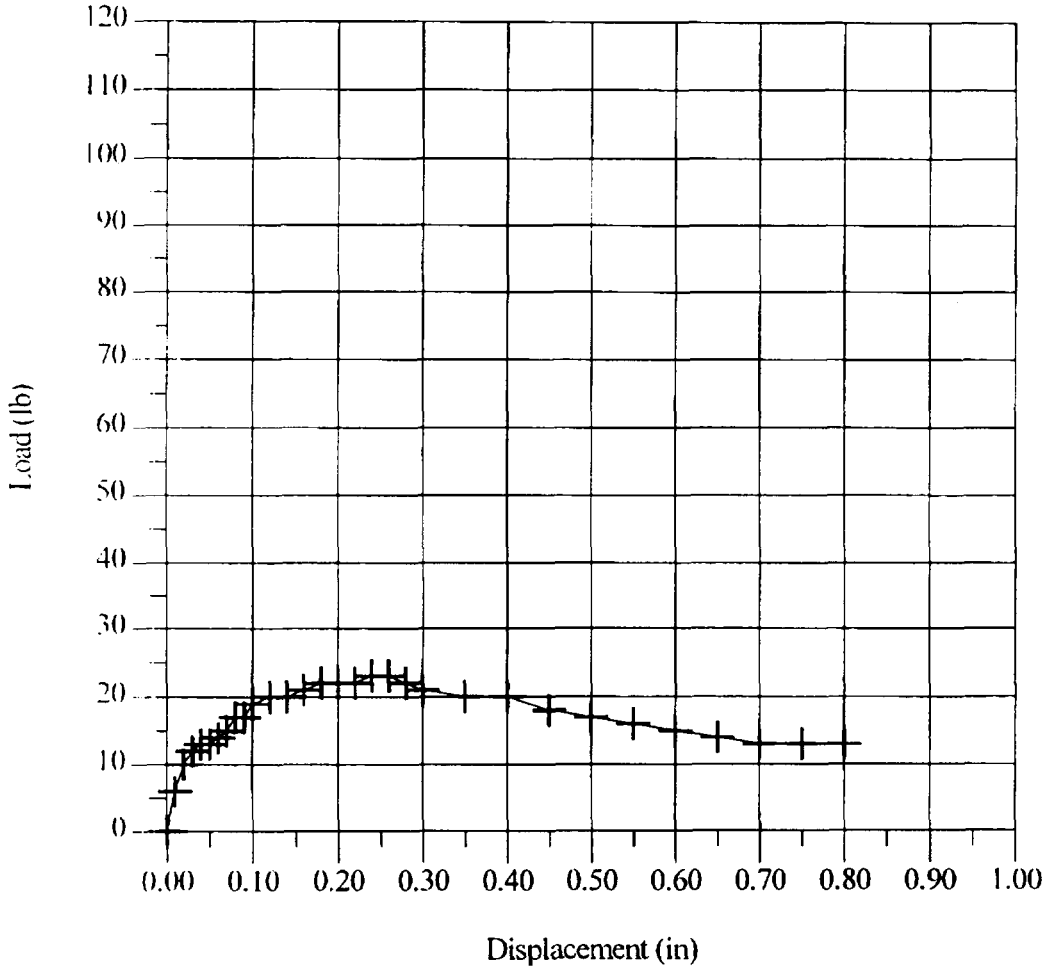
KTL NO.: 01-056-001
CLIENT: TRC

BORING NO.: HSA-4
SAMPLE NO.: n/a

DEPTH (ft): 5
USCS CLASS.: CL

SAMPLE TYPE: RING
DIAMETER: 2.42 IN.
HEIGHT: 4 IN.

MOISTURE CONTENT (%): 44.4
DRY DENSITY (pcf): 66.2



UNCONFINED COMPRESSIVE STRENGTH (psi): 5.0

Unconfined Compression Test Results
ASTM D 2166

PROJECT NAME: WDI
PROJECT NO.: 94-256
DATE: JAN 2001

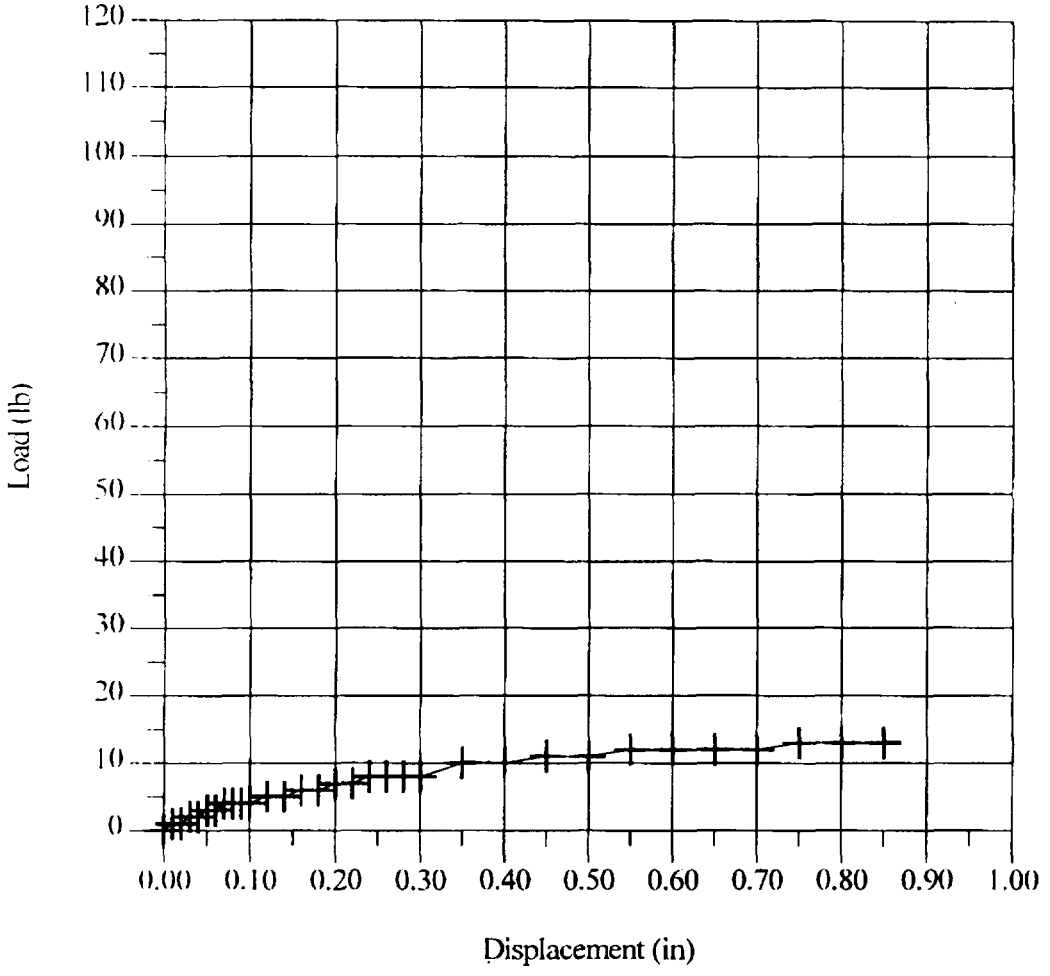
KTL NO.: 01-056-001
CLIENT: TRC

BORING NO.: HSA-5
SAMPLE NO.: n/a

DEPTH (ft): 10
USCS CLASS.: CL

SAMPLE TYPE: RING
DIAMETER: 2.42 IN.
HEIGHT: 5 IN.

MOISTURE CONTENT (%): 38.3
DRY DENSITY (pcf): 80.6



UNCONFINED COMPRESSIVE STRENGTH (psi): 2.8

Unconfined Compression Test Results
ASTM D 2166

PROJECT NAME: WDI
PROJECT NO.: 94-256
DATE: JAN 2001

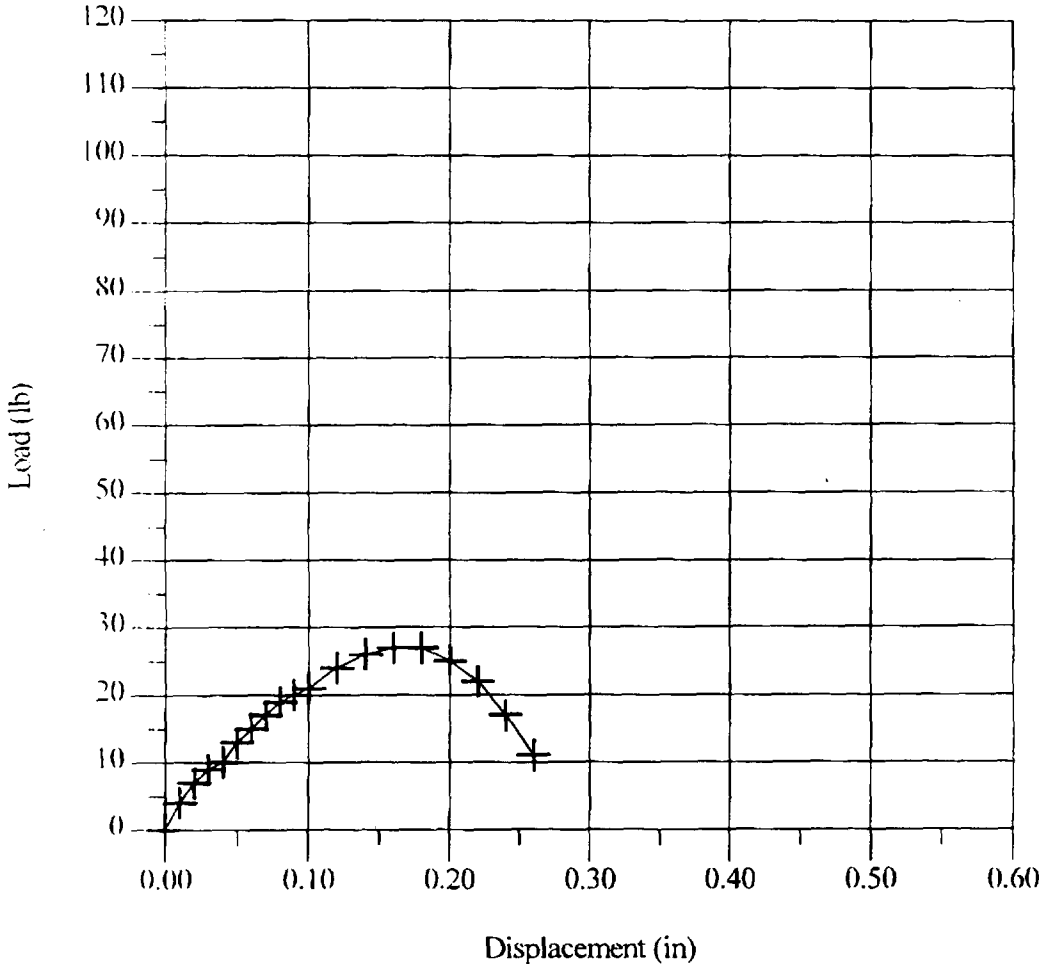
KTL NO.: 01-056-001
CLIENT: TRC

BORING NO.: HSA-6
SAMPLE NO.: n/a

DEPTH (ft): 10
USCS CLASS.: SM

SAMPLE TYPE: RING
DIAMETER: 2.42 IN.
HEIGHT: 5 IN.

MOISTURE CONTENT (%): 18.0
DRY DENSITY (pcf): 103.7



UNCONFINED COMPRESSIVE STRENGTH (psi): 5.8

Unconfined Compression Test Results
ASTM D 2166

PROJECT NAME: WDI
PROJECT NO.: 94-256
DATE: JAN 2001

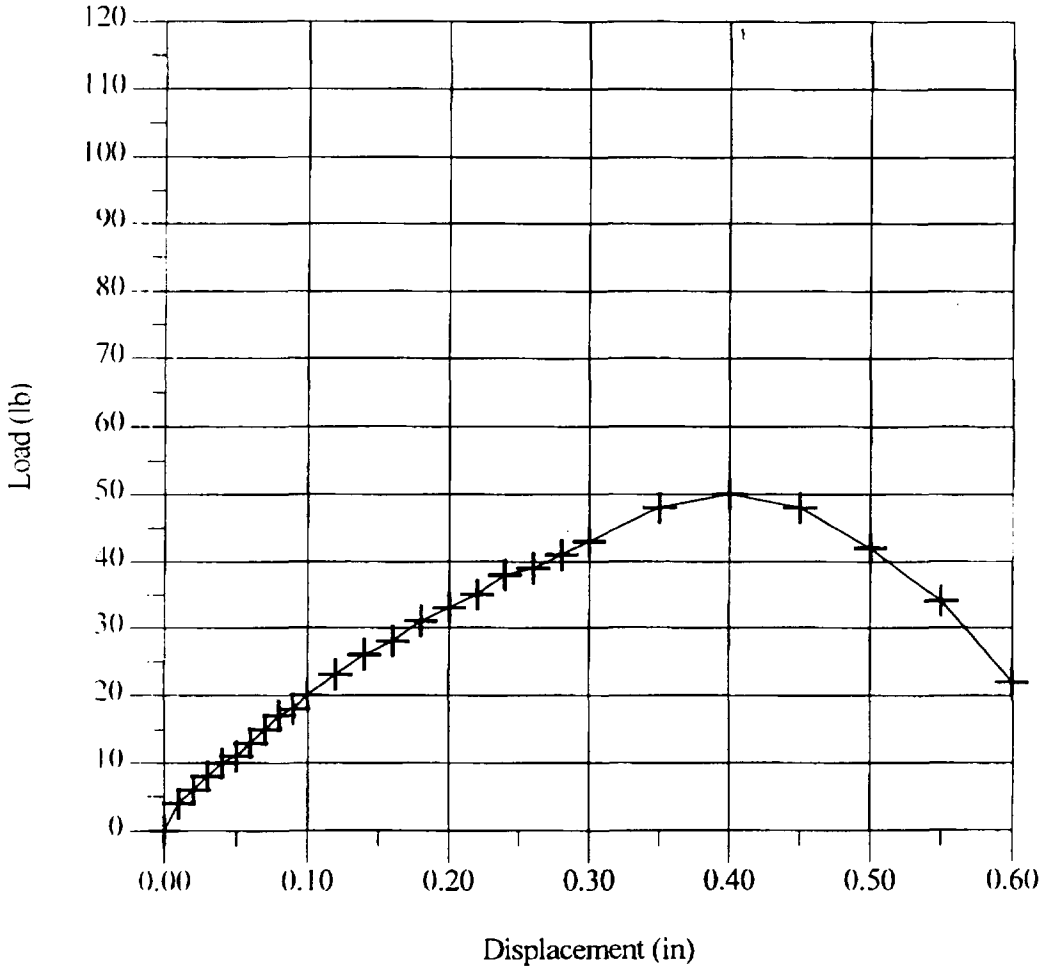
KTL NO.: 01-056-001
CLIENT: TRC

BORING NO.: HSA-7
SAMPLE NO.: n/a

DEPTH (ft): 5
USCS CLASS.: SC

SAMPLE TYPE: RING
DIAMETER: 2.42 IN.
HEIGHT: 5 IN.

MOISTURE CONTENT (%): 19.2
DRY DENSITY (pcf): 107.3



UNCONFINED COMPRESSIVE STRENGTH (psi): 11.0