OHM Remediation Services Corp.
3347 Michelson Drive, Suite 200
Irvine, CA 92612-1
Tel. 949.261.6441
Fax. 949.474.8309

M60050.000179
MCAS EL TORO
SSIC #5090.3

A Member of The IT Group

the IT group

September 10, 1999

Ms. Bozier H. Demaree, Code 02R.BD
Contracting Officer
Naval Facilities Engineering Command, Southwest Division
1220 Pacific Highway
San Diego, California 92132-5187

Attn: Ms. Lynn Marie Hornecker

Subject: Geologic Boring and Well Construction Logs from SVE wells at IRP Site 24
Contract N68711-93-D-1459, Delivery Order 065, Doc. Control No. SW 5980
Removal and Remedial Actions at IRP Sites, MCAS El Toro, California

Dear Ms. Hornecker:

Attached are two copies of the Geologic Soil Boring Logs and Well Construction Logs from the drilling performed at Site 24 from June to July 1999. Logs are included for following borings:

- 24-SVE 15 A/B
- 24-SVE 32/B
- 24-SVE 35 A/B
- 24-SVE 53 A/B
- 24-SVE 77 A/B
- 24-SVE 89 A/B
- 24-SVE 94 A/B

Should you have any questions or comments, please feel free to contact either of the undersigned at (949) 660-5446.

Sincerely,
OHM Remediation Services Corporation

William Sedlak, P.E.
Sr. Project Manager

cc: Lucreatria Holloway, SWDIV, COTR (1C/1E)
Crispin Wanyoike, Earth Tech (1C/1E)
OHM PMO File (1C/1E)
Project File, Correspondence B.01

Attachments: Boring Logs and Well Construction Logs

OHM Remediation Services Corp.
A Subsidiary of OHM Corporation

OHM TRANSMITTAL/DELIVERABLE RECEIPT

CONTRACT N68711-93-D-1459 **DOCUMENT CONTROL NO: SW5980**

TO: Contracting Officer
Naval Facilities Engineering Command
Southwest Division
Bozier H. Demaree, Code 02R1.BD
1220 Pacific Highway
San Diego, California 92132-5190

Date: 13-Sep-99

D.O.: 65

Location: MCAS EL TORO

FROM: Jane Franklin FOR
Stewart Bornhoft, Program Manager

Edwin G. Bond, Contracts Manager

DESCRIPTION OF ENCLOSURE: ***Geologic Boring and Well Construction Logs from SVE Wells at IRP Site 24, Removal and Remedial Actions at IRP Sites, Dated September 10, 1999***

TYPE: Contract Deliverable ( ) ($) D. O. Deliverable ( ) (Tech) Request for Change ( ) Other (**X**)

VERSION: N/A **REVISION:** 0

ADMIN RECORD: Yes (X) No ( ) Category ( ) Confidential ( )

SCHEDULED DELIVERY DATE: 13-Sep-99 **ACTUAL DELIVERY DATE:** 13-Sep-99

NUMBER OF COPIES SUBMITTED TO THE NAVY: 1/O, 3/C, 2/E
[AS REQUIRED/DIRECTED BY THE (SOW)]

COPIES TO:

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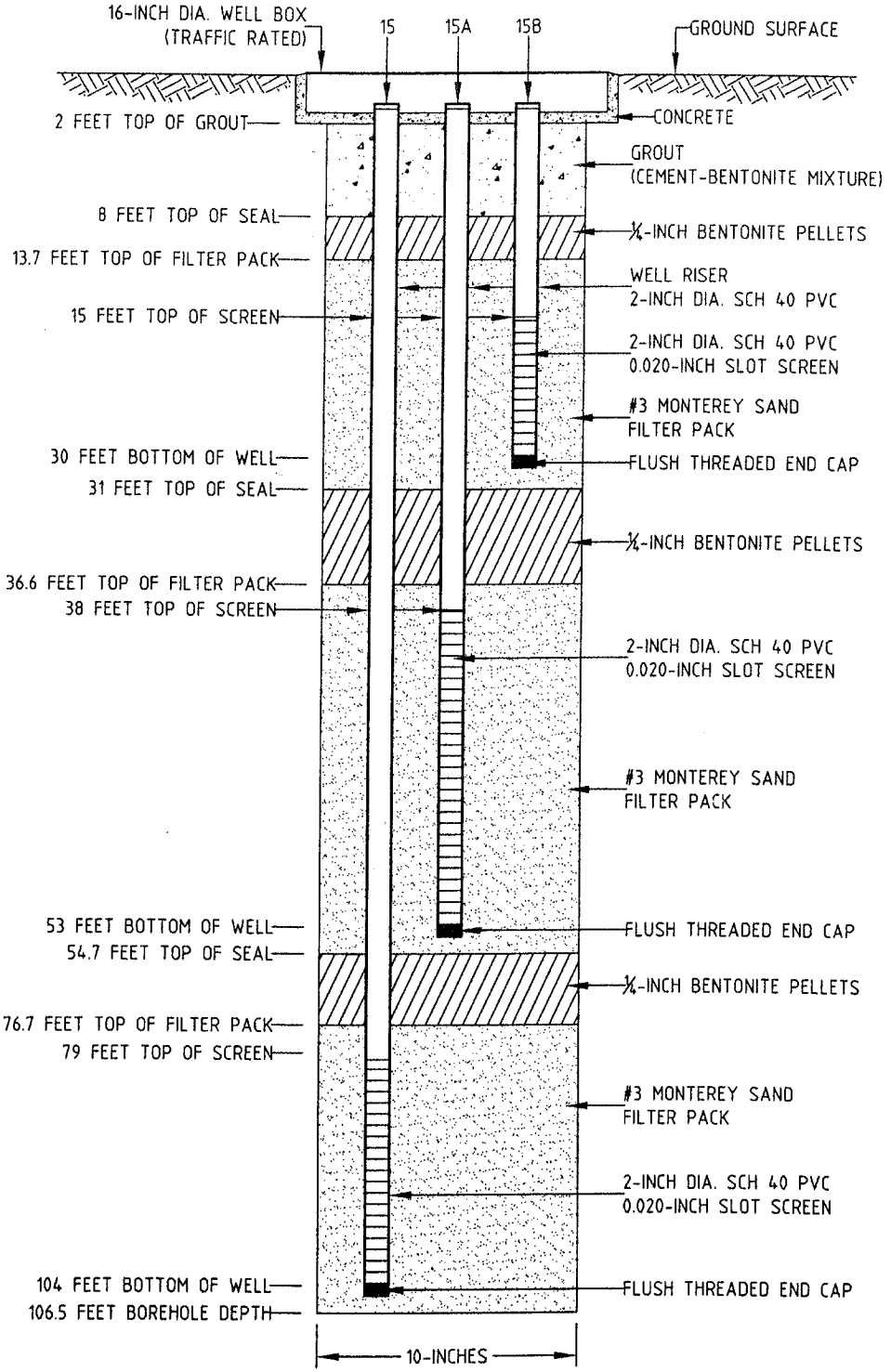
L. Holloway, 3EN.LLH (1C/1E)	File (1C/1E)	D. Silva Admin Rec 2E
L. Hornecker, 5BME.LH (1C/2E)	Chron (1C)	
G. Tinker, 05BM.GT (1C)	W. Sedlak, Irv (1C/1E)	
	D. Rawal, Irv (1C/1E)	

Date/Time Received: _____ / _____

Doc Class: B-06

Well Construction 24-SVE 15/A/B

Project **MCAS/EL TORO**	Northing 2190239.79		Drilling Company LAYNE CHRISTENSEN		
Project Number **918708**	Easting 6108850.84		Drill Rig AP 1000		Begin Drilling 7/9/99
Client SWDIV	TOC Elevation 271.35		Driller MARTIN		End Drilling 7/9/99
Location **SITE 24**	A: 271.34	B: 271.35	Drill Method D.W.R.C.P.H.		Well Completion Date
Geologist A. SIDDIQUI	TOP OF RIM 271.75		DIAGRAM NOT TO SCALE		7/12/99



NOTES:
DEPTHS ARE REFERENCED FROM
0 FEET GROUND SURFACE.
TOC=TOP OF CASING

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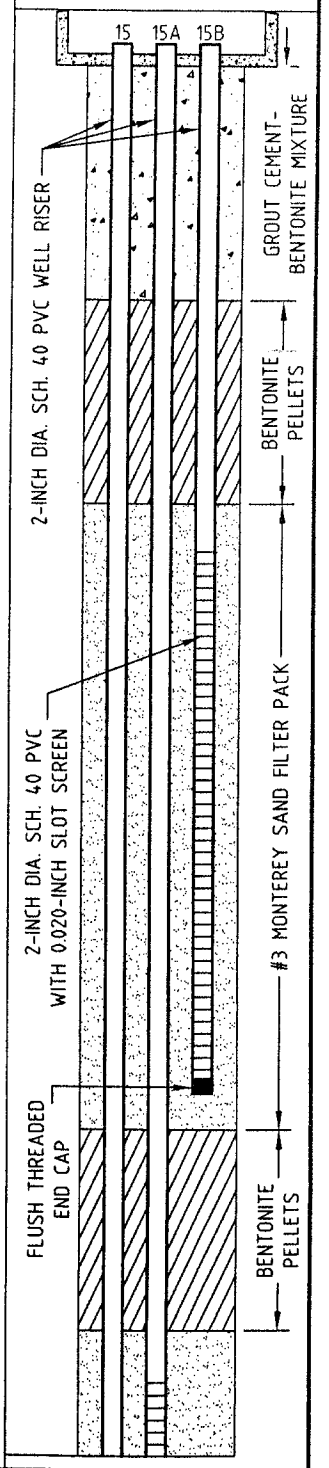
OHM Remediation Services Corp.

Geologic Log of Boring 24-SVE 15/A/B

Project **MCAS/EL TORO**	Northing 2190239.79	Drilling Company LAYNE CHRISTENSEN	
Project Number **918708**	Easting 6108850.84	Drill Rig AP 1000	Begin Drilling 7/9/99
Client SWDIV	TOC Elevation 271.35	Driller MARTIN	End Drilling 7/9/99
Location **SITE 24**	A· 271.34 A· 271.35	Drill Method D.H.R.C.P.H.	Well Completion Date
Geologist A. SIDDIQUI	TOP OF RIM 271.75	DIAGRAM NOT TO SCALE	7/12/99
Borehole Diameter 10-11 INCHES	Total Depth of Borehole 106.5 FEET	Depth to Water N/A	

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 in.	Recovery (inches)
Top 15 feet hand augured for underground utilities clearance.	0, 2, 4, 6, 8, 10, 12						
Silty Sand (SM): Yellowish brown (10YR 5/4), 80% fine sand 20% non to low plastic fines, slightly moist, dense. Interbedded with lenses of sandy silt and poorly graded sand with silt at places.	14, 16	SM				24, 28, 29	6, 6, 6
Not enough recovery. Poorly graded sand.	18, 20, 22					11, 16, 16	1, 0, 0
Sand with gravel in soil cuttings.	24						
Gravel in sampler. Not enough recovery. Gravely sand, ~30% fine to coarse gravel in soil cuttings.	26	SP				50/4"	1
Silty Sand (ML): Brown (10YR 5/3), 90% medium plastic fines, 10% very fine sand, slightly moist, very stiff.	28, 30, 32	ML				9, 11, 15	6, 6, 6
Sandy Silt (ML): Brown (10YR 5/3), 60% low plastic fines, 40% fine sand, slightly moist, very stiff. Interbedded with silty sand.	34, 36	ML				12, 17, 21	6, 6, 6
	38, 40	SP					

BORING DETAIL



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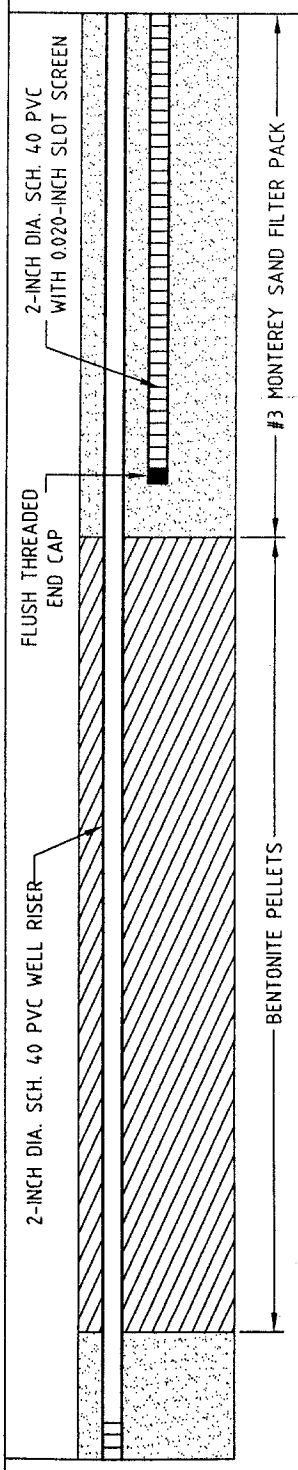
Geologic Log of Well 24-SVE 15/A/B

Project **MCAS/EL TORO** Project No. **918708**

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)
Poorly Graded Sand (SP): Light yellowish brown (10YR 6/3), 100% fine sand, trace fines, slightly moist, dense, well sorted. Little gravel show up in soil cuttings at 43 feet.	40	SP				19 24 25	6 6 6
	42						
Poorly Graded Sand (SP): Light yellowish brown (10YR 6/3), 100% fine sand, trace fine, trace sub rounded gravel, slightly moist, medium dense.	44					21 16 22	6 6 6
	46						
	48						
Poorly graded Sand (SP): Same as above, no gravel.	50	SP				11 12 14	6 6 6
	52						
	54						
Sandy Silt (ML): Dark brown (10YR 3/3), 60% non to low plastic fines, 40% fine sand, slightly moist to moist, very stiff. At places grades into silty sand. Amount of sand 20%-60%.	56	ML				12 14 15	6 6 6
Soil cuttings plugging up the inside of drive casing.	58						
Sandy Silt (ML): Dark yellowish brown (10YR 3/6), 60% low plastic fines, 40% fine sand, slightly moist, very stiff.	60	ML				12 23 47	6 6 6
Silty Sand (SM): Dark yellowish brown (10YR 4/6), 80% fine sand, 20% non plastic fines, slightly moist, dense.	62	SM					
Discharge hose plugged up with soil cuttings.							
Interbedded with thin lenses of silty sand.	64						
Clayey Silt (ML): Dark yellowish brown (10YR 4/6), mottled to olive gray (5Y 5/2), 100% medium to high plastic fines (mostly silt) with clay, trace fine sand, slightly moist, hard.	66	ML				28 31 34	6 6 6
	68						
Inside of drive casing plugging up with soil cuttings.							
Clayey Silt (ML): Dark yellowish brown (10YR 4/4), 90% medium plastic fines, 10% fine sand, slightly moist, very stiff.	70	ML				5 7 11	6 6 6
	72						
	74						
Silty Sand (SM): Dark yellowish brown, (10YR 4/6), 75% fine sand, 25% low plastic fines, slightly moist, dense.	76	SM				13 37 36	6 6 6
Gravel showing up with sand in soil cuttings.	78	SP					
	80						



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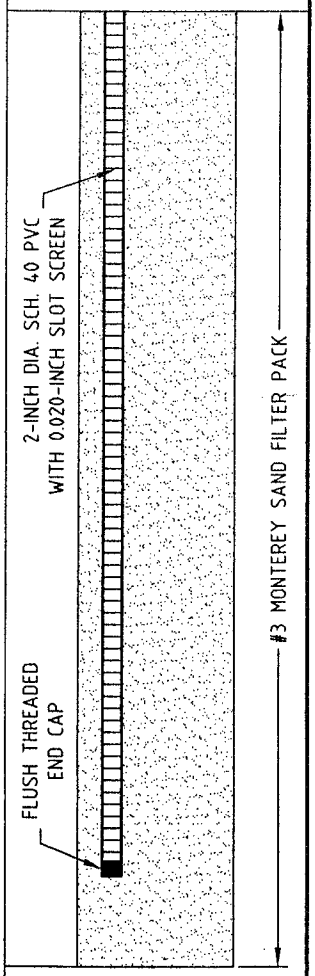
Geologic Log of Well 24-SVE 15/A/B

Project **MCAS/EL TORO** Project No. **918708**

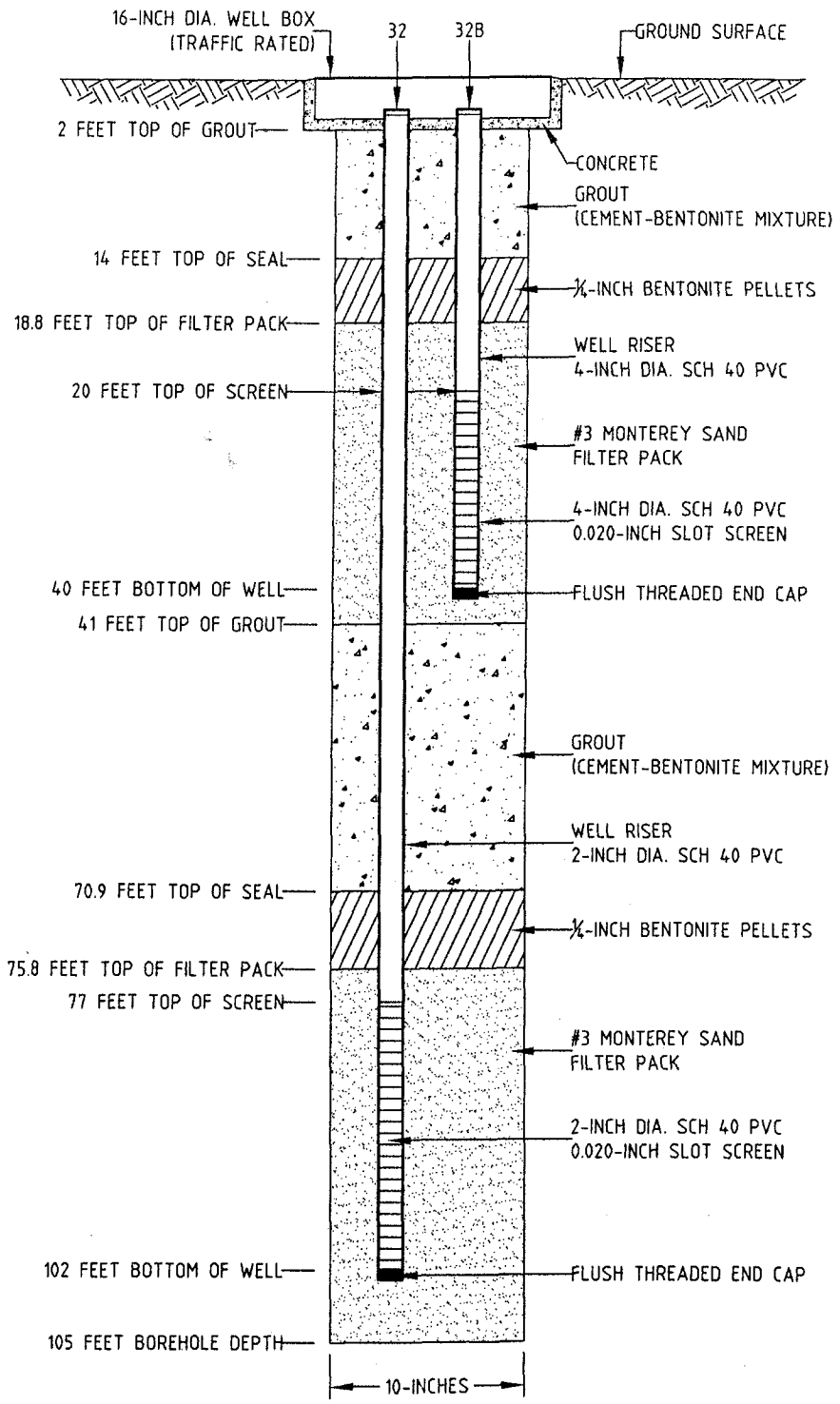
DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)
Poorly Graded Sand (SP): Pale yellow (2.5Y 7/3), 100% fine sand, trace fines, slightly moist, medium dense. Interbedded with light yellowish brown (2.5Y 6/3) color lenses of silty sand at places.	80	SP				12 18 24	6 6 6
Gravel with sand in soil cutting.	82						
	84						
Gravely Sand (SP): Yellowish brown (10YR 5/4), 80% fine (mostly), to medium sand, 20% fine to coarse sub rounded gravel, trace fines, slightly moist to moist, very dense.	86	SP				38 50/1"	6 1
	88						
Not enough recovery. Gravel in sampler. Gravely sands, same as above.	90					28 50/1"	1
	92						
	94	SP/SM					
Poorly Graded Sand With Silt (SP-SM): Light olive brown (2.5Y 5/4), 95% fine sand, 50% fines, moist, very dense.	96					50/1"	6
	98						
Poorly Graded Sand With Silt (SP-SM): Light olive brown (2.5Y 5/4), 95% fine sand, 5% fines, moist, dense.	100	SP/SM				27 34 44	6 6 6
	102						
	104						
Silt Sand (ML): Light olive brown (2.5Y 5/4), 90% medium plastic fines, 10% fine sand, slightly moist, hard.	106	ML				47 42 50	
Total depth = 106.5 feet.	108						
	110						
	112						
	114						
	116						
	118						
	120						

WELL DETAIL



Well Construction 24-SVE 32/B

Project	**MCAS/EL TORO**	Northing	2189071.72	Drilling Company	LAYNE CHRISTENSEN
Project Number	**918708**	Easting	6109732.70	Drill Rig	AP 1000	Begin Drilling	6/16/99
Client	SWDIV	TOC Elevation	277.51	Driller	MARTIN	End Drilling	6/16/99
Location	**SITE 24**	B	277.52	Drill Method	D.W.R.C.P.H.	Well Completion Date	6/17/99
Geologist	A. SIDDIQUI	TOP OF RIM	277.92	DIAGRAM NOT TO SCALE	



NOTES:

DEPTHS ARE REFERENCED FROM
0 FEET GROUND SURFACE.
TOC=TOP OF CASING

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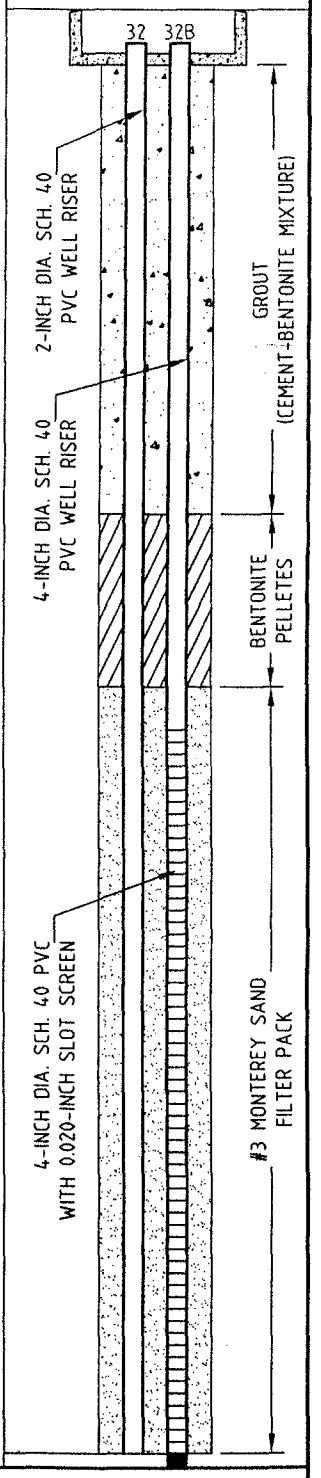
OHM Remediation Services Corp.

Geologic Log of Boring 24-SVE 32/B

Project **MCAS/EL TORO**	Northing 218907.72	Drilling Company LAYNE CHRISTENSEN	
Project Number **918708**	Easting 6109732.70	Drill Rig AP 1000	Begin Drilling 6/16/99
Client SWDIV	TOC Elevation 277.51	Driller MARTIN	End Drilling 6/16/99
Location **SITE 24**	B 277.52	Drill Method D.W.R.C.P.H.	Well Completion Date
Geologist A. SIDDIQUI	TOP OF RIM 277.92	DIAGRAM NOT TO SCALE	6/17/99
Borehole Diameter 10 TO 11-INCHES	Total Depth of Borehole 106.5 FEET	Depth to Water 104.5 FEET	

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 in.	Recovery (inches)
10-inch concrete at surface.	0						
Top 16 feet hand augured for underground utility clearance.	2						
	4						
	6						
	8						
	10	ML					
	12						
Sandy Silt (ML): Dark brown (10YR 3/3), 90% medium fines, 10% fine sand, moist, stiff.	14						
	16				586	3 5 7	6 6 4
	18						
Silty Sand (SM): Yellowish brown (10YR 5/4), 80% fine sand, 20% low plastic fines, slightly moist, medium dense.	20					5 19 22	6 6 5
	22	SM					
Poorly graded Sand (SP): Dark yellowish brown (10YR 5/6), 95% fine (mostly) to medium sand, 5% fine subrounded gravel, trace fines, slightly moist, dense.	24						
	26					14 27 34	6 6 6
	28	SP					
Gravely Sand (SP): Fine to coarse, subrounded gravel in sampler.	30					50/3"	2
	32						
Silty Sand (SM): Dark yellowish brown (10YR 3/6), 80% fine sand, 20% low plastic fines, slightly moist, very dense.	34						
	36	SM				20 50/4"	6 2
Sandy Silt (ML): Dark yellowish brown (10YR 3/6), 80% low plastic fines, 20% very fine sand, slightly moist, hard.	38						
	40	ML					

BORING DETAIL



OHM Remediation Services Corp.

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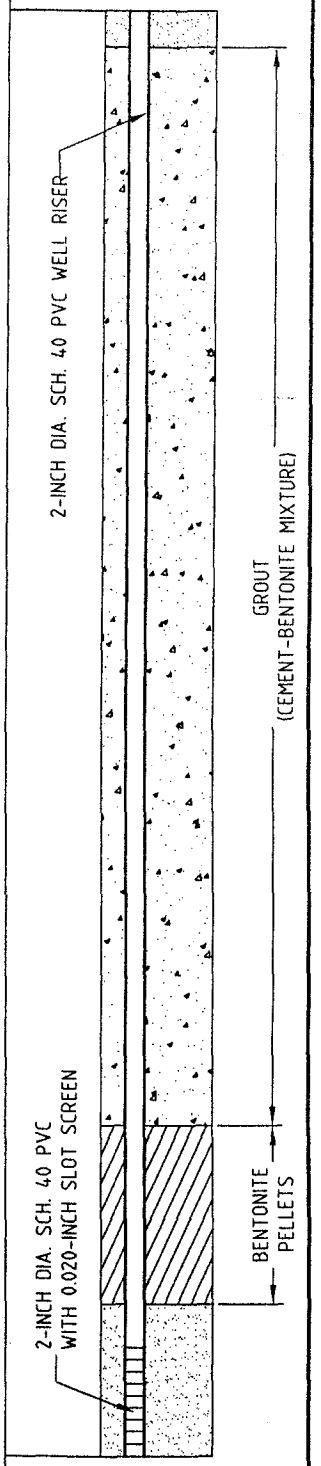
Geologic Log of Well 24-SVE 32/B

Project **MCAS/EL TORO** Project No. **918708**

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)
Sandy Silt (ML): Dark yellowish brown (10YR 3/6), 80% low plastic fines, 20% very fine sand, slightly moist, hard.	40	ML			0	26 27 28	6 6 6
	42						
	44						
Sandy Silt (ML): Dark yellowish brown (10YR 3/6), 80% low plastic fines, 20% very fine sand, slightly moist, very stiff to hard.	46				0	22 18 24	6 6 6
	48						
Silty Sand (SM): Light olive brown (2.5Y 5/4), 75% fine sand, 25% non to low plastic fines, slightly moist, very dense, inter bedded with sandy silt.	50	SM			0	29 50/.5	6 2
	52						
	54						
Sandy Silt (ML): Dark yellowish brown (10YR 4/6), 80% non to low plastic fines, 20% very fine sand, trace caliche, slightly moist, hard.	56				0	22 50	
	58						
Sandy Silt (ML): Dark yellowish brown (10YR 4/6), 75% low plastic fines (silt with some clay), 25% very fine sand, little caliche, slightly moist, hard, interbedded with thin lens of silty sand at places.	60	ML				15 23 27	6 8 2
	62						
	64						
Sandy Silt (ML): Not enough recovery. In soil cutting sandy silt coming out, probably it is predominantly silt and sandy silt interbedded with thin lenses of silty sand at places.	66					50/3	1
	68						
Sandy Silt (ML): Olive brown (2.5Y 4/4), 80% low to medium plastic fines (silt with some clay), 20% very fine sand, slightly moist, hard.	70					26 50/.5	6 5
	72						
	74						
Silty Sand (SM): Olive brown (2.5Y 4/4), 60% fine sand, 40% low plastic fines, slightly moist, very dense, interbeded with silty sand and sandy silt.	76	SM				32 50/.2	6 2
	78	SP					
Poorly graded Sand (SP): Light yellow brown (2.5Y 6/3), 100% fine (mostly) to medium sand, trace fines, slightly moist, dense.	80						

WELL DETAIL

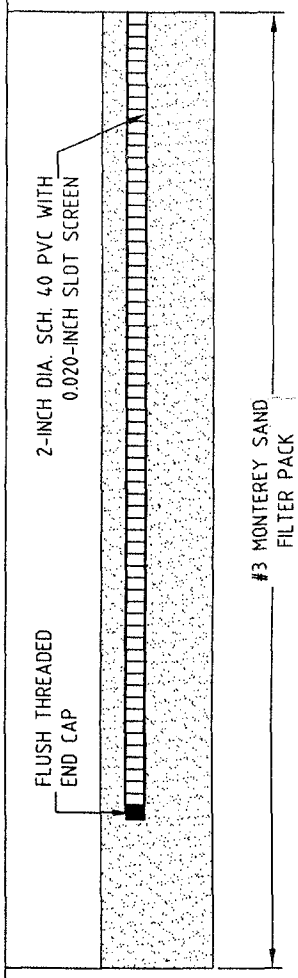


Geologic Log of Well 24-SVE 32/B

Project **MCAS/EL TORO** Project No. **918708**

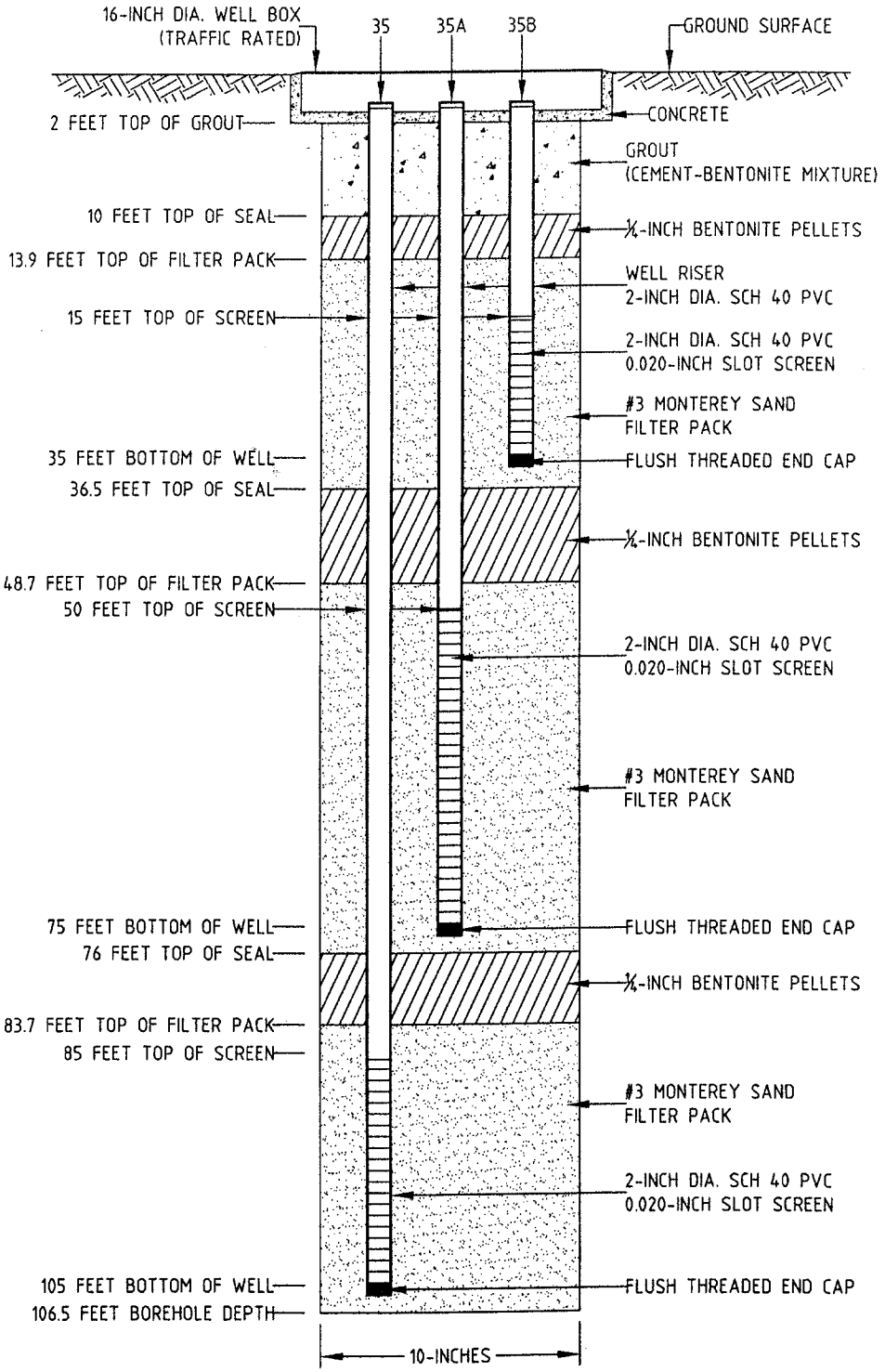
DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 in.	Recovery (6 inches)
Poorly graded Sand (SP): Light yellow brown (2.5Y 6/3), 100% fine (mostly) to medium sand, trace fines, slightly moist, dense.	80	SP				22, 37, 47	6, 6, 6
	82						
Silty Sand (SM): Light olive brown (2.5Y 5/4), 70% fine sand, 30% low plastic fines, slightly moist, very dense, interbedded with sandy silt and poorly graded sand.	84	SM				17, 50/5"	6, 2
	86						
	88						
Silty Sand (SM): Light olive brown (2.5Y 5/4), 75% very fine sand, 25% non plastic fines, slightly moist dense, interbedded with this lenses of sand silty and poorly graded sand.	90					31, 35, 46	6, 6, 4
	92						
Clayey Silt (ML): Olive brown (2.5Y 4/3), 100% medium to high plastic fines, trace very fine sand, stiff, slightly moist.	94	ML				4, 5, 7	
	96						
Silty Sand (SM): Not enough recovery 2" piece of gravel in sampler with silty sand, based on cuttings.	98	SM					
	100					50/3"	
	102						
Clayey Silt (ML): Olive brown (2.5Y 4/3), 100% medium to high plastic fines, slightly moist, very stiff. Totall depth= 106.5 feet.	104	ML				5, 11, 25	4, 6, 6
	106						
	108						
	110						
	112						
	114						
	116						
	118						
	120						

WELL DETAIL



Well Construction 24-SVE 35/A/B

Project **MCAS/EL TORO**	Northing 2188924.12	Drilling Company LAYNE CHRISTENSEN	
Project Number **918708**	Easting 6109513.40	Drill Rig AP 1000	Begin Drilling 6/9/99
Client SWDIV	TOC Elevation -	Driller MARTIN	End Drilling 6/10/99
Location **SITE 24**	B -	Drill Method D.W.R.C.P.H.	Well Completion Date
Geologist A. SIDDIQUI	TOP OF RIM 276.02	DIAGRAM NOT TO SCALE	6/10/99



NOTES:
DEPTHS ARE REFERENCED FROM
0 FEET GROUND SURFACE.
TOC=TOP OF CASING

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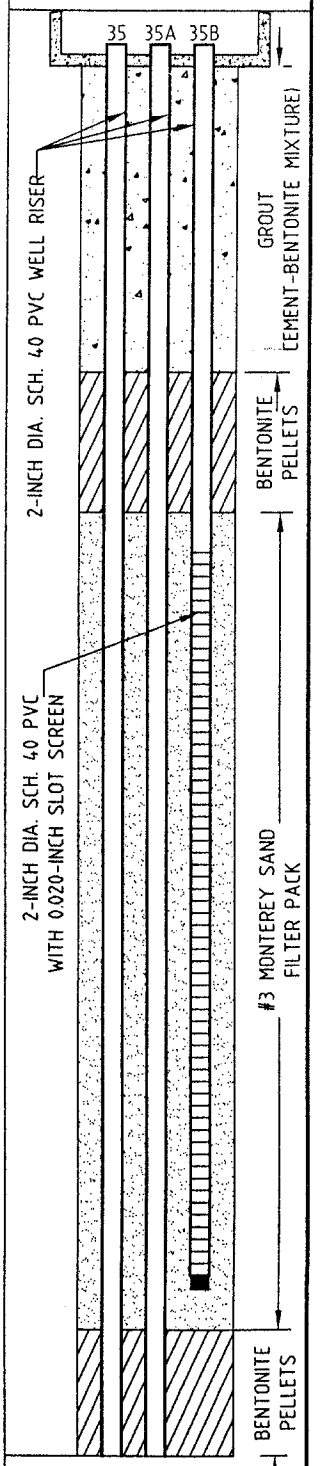
OHM Remediation Services Corp.

Geologic Log of Boring 24-SVE 35/A/B

Project **MCAS/EL TORO**	Northing 2188924.12	Drilling Company LAYNE CHRISTENSEN	
Project Number **918708**	Easting 6109513.40	Drill Rig AP 1000	Begin Drilling 6/9/99
Client SWDIV	TOC Elevation -	Driller MARTIN	End Drilling 6/10/99
Location **SITE 24**	A/B -	Drill Method D.W.R.C.P.H	Well Completion Date
Geologist A. SIDDIQUI	TOP OF RIM 276.02	DIAGRAM NOT TO SCALE	6/10/99
Borehole Diameter 10-11 INCHES	Total Depth of Borehole 106.5 FEET	Depth to Water NOT ENCOUNTERED	

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 in.	Recovery (inches)
Top 15 feet hand augured for underground utilities clearance. 12" concrete at surface.	0, 2, 4, 6, 8, 10, 12, 14	ML					
Silt (ML): Dark brown (10YR 3/3), 75% fine sand, 25% low plastic fines, slightly moist, stiff.	16					7 7 8	6 6 6
	18						
Silty Sand (SM): Dark yellowish brown (10YR 3/4), 75% fine sand, 25% low plastic fines, slightly moist, medium dense.	20, 22	SM				11 14 17	3 6 6
	24						
Poorly graded Sand with Silt (SP-SM): Yellowish brown (10YR 5/4), 90% fine to medium sand, 10% fines, trace fine, subangular gravel, slightly moist, dense, trace caliche. From 27 feet fine to coarse, subrounded gravel coming out of cyclone.	26, 28	SP/ SM				30 41 37	6 6 6
Gravely Sand (SP): Poor recovery, only few subrounded gravel (2-inch max.) in sampler.	30, 32	SP				50/30	2"
	34						
Sandy Silt (ML): Dark yellowish brown (10YR 3/4), 70% medium plastic fines (silt with clay), 30% very fine (mostly) to medium sand, trace coarse sand and fine subrounded gravel, slightly moist, hard.	36, 38, 40	ML				19 25 50/5	6 6 6



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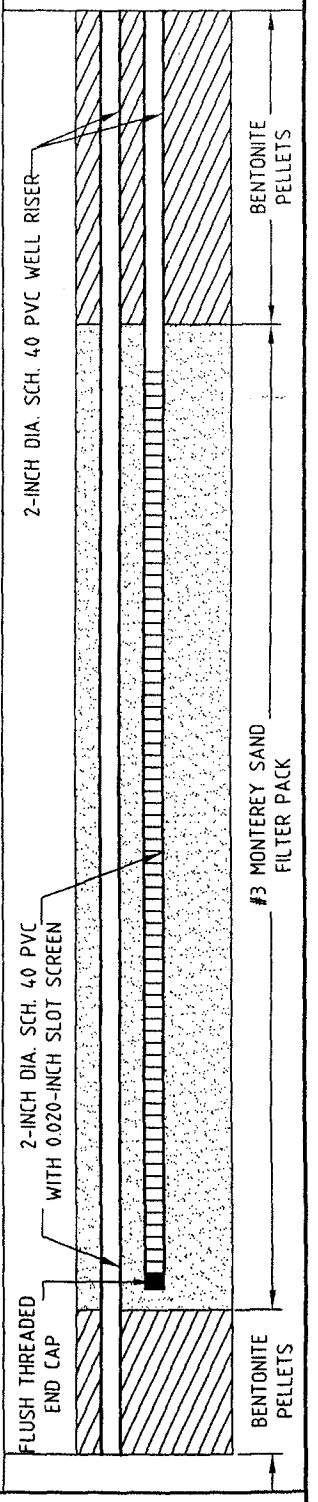
Geologic Log of Well 24-SVE 35/A/B

Project **MCAS/EL TORO** Project No. **918708**

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)
Sandy Silt (ML): Brown (7.5YR 4/4), 75% medium plastic fines (silt with clay), 25% fine sand, slightly moist, hard.	40–42	ML				20 50	6 6
Silty Sand (SM): Dark yellowish brown (10YR 4/6), 80% very fine sand, 20% low plastic fines, slightly moist, very dense, very well sorted.	44–48	SM				50/5"	6
Silty Sand (SM): Dark yellowish brown (10YR 5/4), 70% very fine sand, 30% low plastic fines, slightly moist, very dense, interbedded with sandy silt lenses.	50–54	SM				50/5"	4
Silty Sands (SM): Yellowish brown (10YR /54), 75% fine sand, 25% low plastic fines, slightly moist, dense to very dense, trace caliche, amount of fines is variable 15-30%, interbedded with sandy silt lenses.	56	SM				45 37 45	6 6 6
Poorly graded Sand with silt (SP-SM): Yellowish brown (10YR 5/4), 90% fine sand, 10% fine, slightly moist, dense.	60–62	SP/SM				37 32 28	6 6 6
Silty Sand (SM): Light olive brown (2.5Y 5/4), 60% fine sand, 40% low to medium plastic fines, slightly moist, very dense, interbedded with sandy silt.	66	SM				24 60/5"	6 6
Poorly graded Sand with Silt (SP-SM): Light olive brown (2.5Y 5/4), 90% fine sand, 10% fines, slightly moist, very dense.	70–72	SP/SM				50/5"	4
Sandy Silt (ML): Olive brown (2.5Y 4/4), 80% low to medium plastic fines, 20% fine sand, slightly moist, hard.	76	ML				21 50/5"	6 6

WELL DETAIL



OHM Remediation Services Corp.

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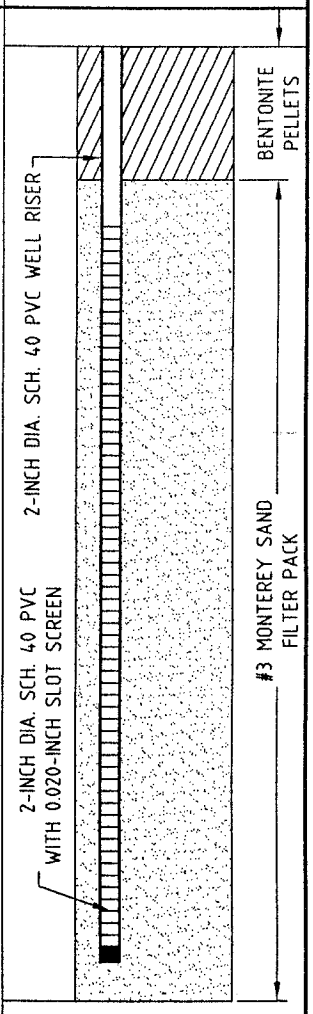
Geologic Log of Well 24-SVE 35/A/B

Project **MCAS/EL TORO** Project No. **918708**

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 in.	Recovery (6 inches)
Sandy Silt (ML): Olive brown (2.5Y 5/4), 85% medium plastic fines, 15% fine sand, slightly moist, hard.	80	ML				22 30 50/4	6 6 6
	82						
	84						
Silty Sand (SM): Light olive brown (2.5Y 5/4), 80% fine sand, 20% low plastic fines, slightly moist, very dense.	86	SM				50/5	6
	88						
Silty Sand (SM): Light olive brown (2.5Y 5/4), 70% very fine sand, 30% low plastic fines, slightly moist, very dense, very well sorted.	90					41 50/5	6 6
	92						
	94						
Silty Sand (SM): Same as above.	96					23 40 45	6 6 6
Poorly graded Sand with silt (SP-SM): Light olive brown (2.5Y 5/4), 90% fine (mostly) to medium sand, slightly moist, dense.		SP/SM					
	98						
Silty Sand (SM): Dark yellowish brown (10YR 3/6), 70% fine sand, 30% low plastic fines, slightly moist, dense, amount of fines is variable (20%-40%), interbedded with sandy silt.	100	SM				26 30 35	6 6 6
	102						
	104						
Clayey Silt (ML): Dark brown (10Y 3/3), 100% medium plastic fines, trace very fine sand, slightly moist to moist, hard.	106	ML				15 28 30	6 6 6
	108						
Total depth = 106.5 feet.	110						
	112						
	114						
	116						
	118						
	120						

WELL DETAIL



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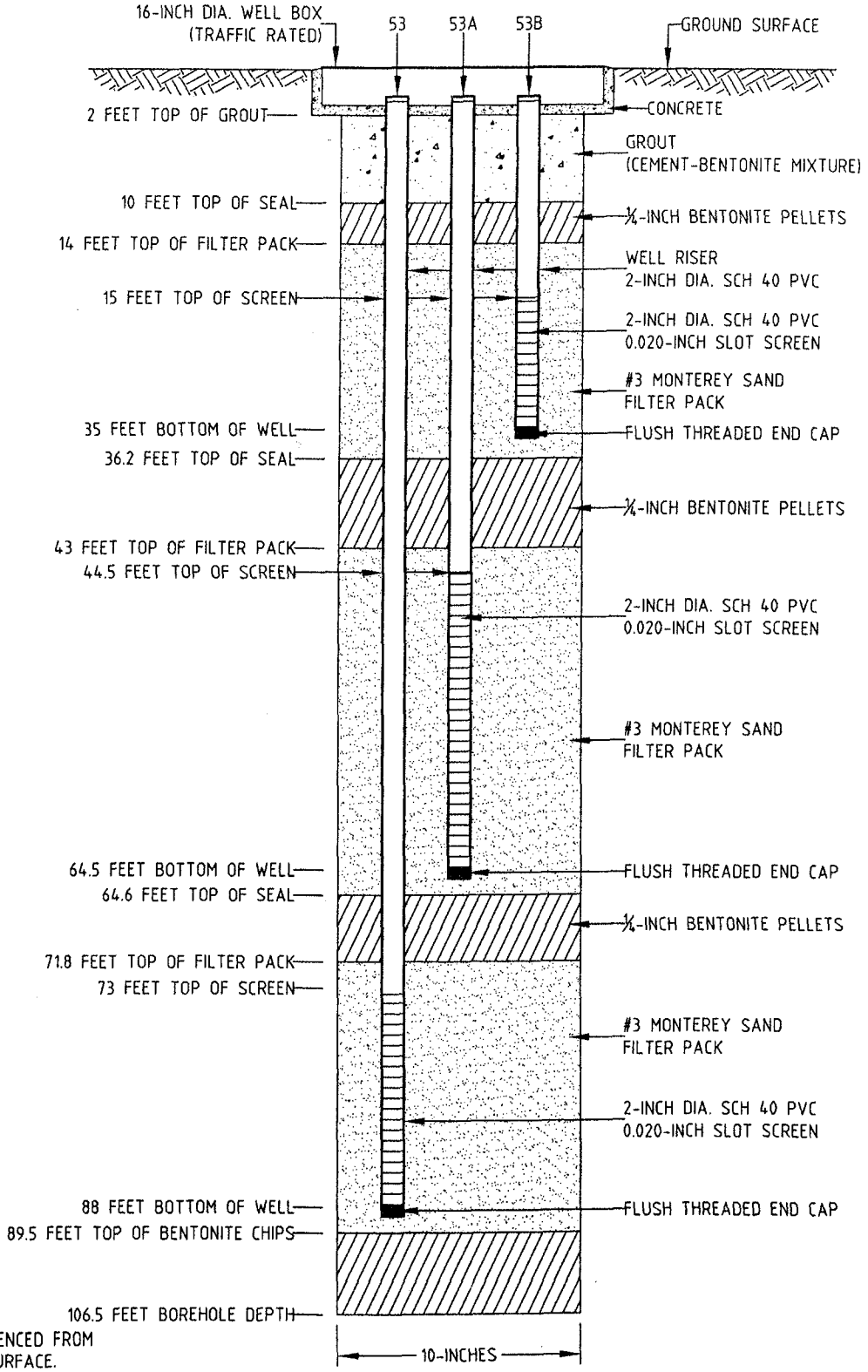
Well Construction 24-SVE 53/A/B

Project **MCAS/EL TORO**	Northing 2188811.96	Drilling Company LAYNE CHRISTENSEN	
Project Number **918708**	Easting 6109950.10	Drill Rig AP 1000	Begin Drilling 6/11/99
Client SWDIV	TOC Elevation 283.35	Driller MARTIN	End Drilling 6/11/99
Location **SITE 24**	A: 283.36 B: 283.34	Drill Method D.W.R.C.P.H.	Well Completion Date
Geologist A. SIDDIQUI	TOP OF RIM 283.86	DIAGRAM NOT TO SCALE	6/14/99



NOTES:
DEPTHS ARE REFERENCED FROM
0 FEET GROUND SURFACE.
TOC=TOP OF CASING

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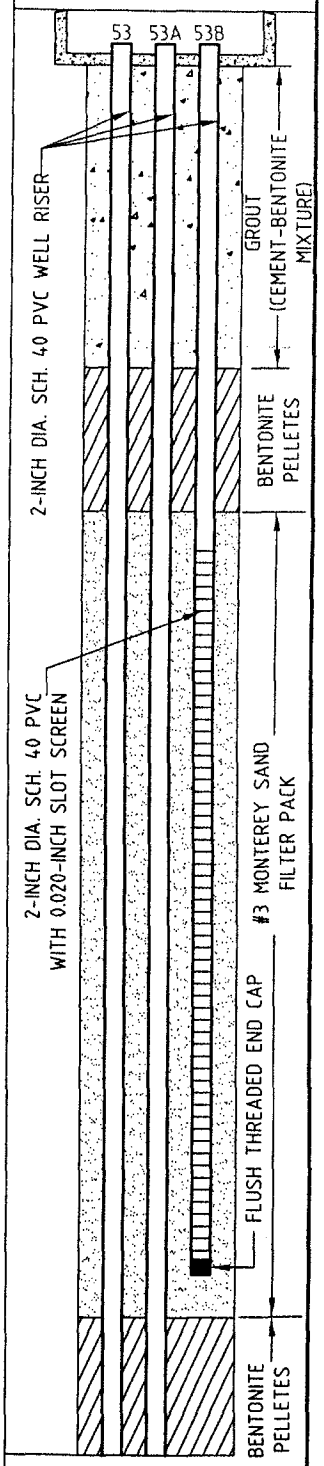
Geologic Log of Boring 24-SVE 53/A/B

Project **MCAS/EL TORO**	Northing 2188811.96	Drilling Company LAYNE CHRISTENSEN	
Project Number **918708**	Easting 6109950.10	Drill Rig AP 1000	Begin Drilling 6/11/99
Client SWDIV	TOC Elevation 283.35	Driller MARTIN	End Drilling 6/11/99
Location **SITE 24**	A/B 283.36/283.34	Drill Method PER. HAMMER AIR	Well Completion Date
Geologist A. SIDDIQUI	TOP OF RIM 283.86	DIAGRAM NOT TO SCALE	6/14/99
Borehole Diameter 10-INCHES	Total Depth of Borehole 106.5 FEET	Depth to Water 105 FEET	

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 in.	Recovery (inches)
10-inch concrete at surface. Top 15-feet hand augured for underground utility clearance.	0, 2, 4, 6, 8, 10, 12, 14	SM					
Silty Sand (SM): Dark yellowish brown (10YR 4/4), 60% fine sand, 40% low to medium plastic fines, slightly moist, loose.	16, 18					7, 6, 6	6, 6, 6
Silty Sand (SM): Yellowish brown (10YR 5/3), 85% fine sand, 15% fines, slightly moist, dense.	20					30, 30, 45	3, 6, 6
Poorly graded Sand (SP): Light yellowish brown (2.5YR 6/3), 95% fine to medium sand, 5% fines, slightly moist; dense fine to coarse subrounded gravel show up in cuttings from 24'.	22, 24	SP					
Poorly Graded Sand (SP): Light olive brown (2.5Y 5/4), 100% fine to medium sand, trace fine to coarse subrounded gravel, trace fines, slightly moist, dense.	26, 28					20, 50	6, 6
Silty Sand (SM): Brown (7.5YR 4/4), 60% fine to medium sand, 40% low to medium fines, trace fine to coarse subrounded to subangular gravel, slightly moist, very dense, grades into sandy silt at place.	30, 32	SM				24, 45, 50/4"	4, 6, 6
Sandy Silt (ML): Dark yellowish brown (10YR 3/6), 70% medium plastic fines, 30% very fine sand, slightly moist, hard.	34, 36, 38, 40	ML				20, 30, 24	6, 6, 6

BORING DETAIL



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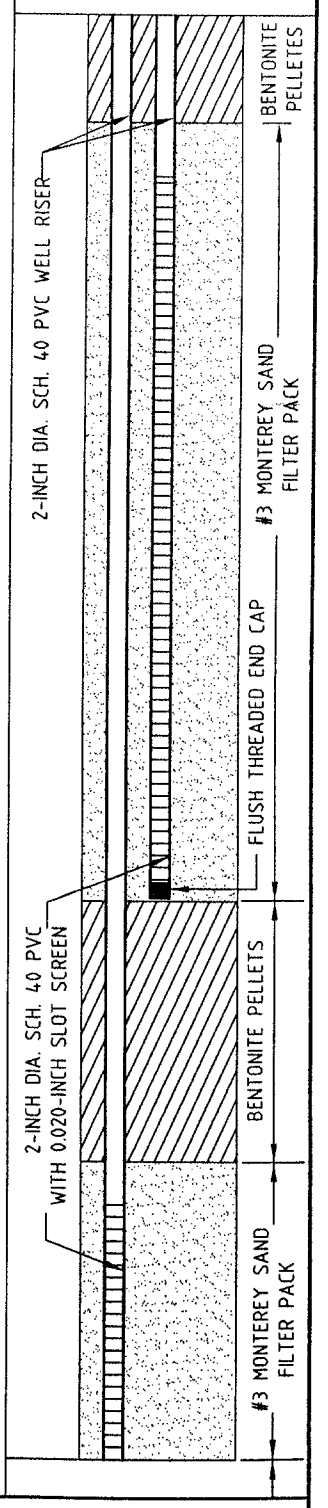
Geologic Log of Well 24-SVE 53/A/B

Project **MCAS/EL TORO** Project No. **918708**

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)
Sandy Silt (ML): Dark yellowish brown (10YR 4/6), 70% low plastic fines, 30% very fine sand, slightly moist, hard.	40	ML				15 20 24	6 6 6
	42						
Silty Sand (SM): Dark yellowish brown (10YR 3/3), 65% fine sand, 35% low plastic fines, slightly moist, very dense, at places grades into sandy silt.	44	SM				40/9 50/4	6 6
	46						
	48						
Silty Sand (SM): Dark yellowish brown (10YR 4/6), 75% fine sand, 25% non to low plastic fines, slightly moist, very dense, trace fine subrounded grave composed of silty sandstone.	50					38 50/2	6 6
	52						
Silty Sand (SM): Dark yellowish brown (10YR 4/4), 85% fine sand, 15% non plastic fines, slightly moist, very dense, very well sorted.	54					20 50/6	6 6
	56						
	58						
Poorly graded Sand (SP): Yellowish brown (10YR 5/4), 95% fine to medium grained sand, less than 5% fines, slightly moist, dense.	60	SP				22 23 37	6 6 6
	62						
	64						
Sandy Silt (ML): Dark yellowish brown (10YR 5/6), 75% low plastic fines, 25% very fine sand, slightly moist, very stiff.	66	ML				5 12 24	6 6 6
	68						
Sandy Silt (ML): dark yellowish brown (10YR 5/4), 80% low to medium plastic fines, 20% very fine sand, slightly moist, hard.	70					27 37 45	6 6 6
	72						
	74						
Poorly graded Sand with Silt (SP-SM): Light olive brown (2.5Y 5/4), 90% fine sand, 10% fines, slightly moist, dense.	76	SP/SM				25 27 32	6 6 6
	78						
	80						



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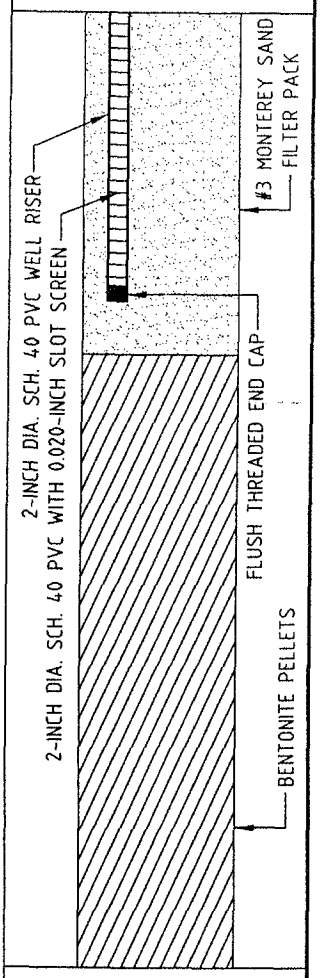
Geologic Log of Well 24-SVE 53/A/B

Project **MCAS/EL TORO** Project No. **918708**

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)
Poorly graded Sand (SP): Light olive brown (2.5Y 5/4), 100% fine sand, trace fines, slightly moist, dense, very well sorted.	80	SP				31 33 44	6 6 6
	82						
	84						
Silty Sand (SM): Light olive brown (2.5Y 5/4), 85% fine sand, 15% non-plastic fines, slightly moist, dense, the amount of fines varies from 5 % to 25%.	86	SM				21 40 45	6 6 6
	88						
Silt (ML): Olive brown (2.5Y 4/4), 90% low to medium plastic fine, 10% fine sand, slightly moist, hard. Amount of sand is variable from 5% to 25%. At places interbedded with sand lenses or grades into silty sand.	90	ML				15 20 37	6 6 6
	92						
	94						
Sandy Silt (ML): Dark yellowish brown (10YR 3/6), 70% low plastic fines, 30% fine sand, slightly moist, hard, interbedded with silty sand.	96					6 14 44	6 6 3
	98						
Silty Sand (SM): Olive brown (2.5Y 4/4)< 75% fine sand, 25% low plastic fines, moist, very dense, interbedded with sandy silt.	100	SM				30 50	6 6
	102						
	104						
Silty Sand (SM): Olive brown (2.5Y 4/4), 70% fine to medium sand, 30% low plastic fines, wet, medium dense, trace subrounded gravel.	106					5 20 22	6 6 6
Total Depth 106.50 feet.	108						
	110						
	112						
	114						
	116						
	118						
	120						

WELL DETAIL



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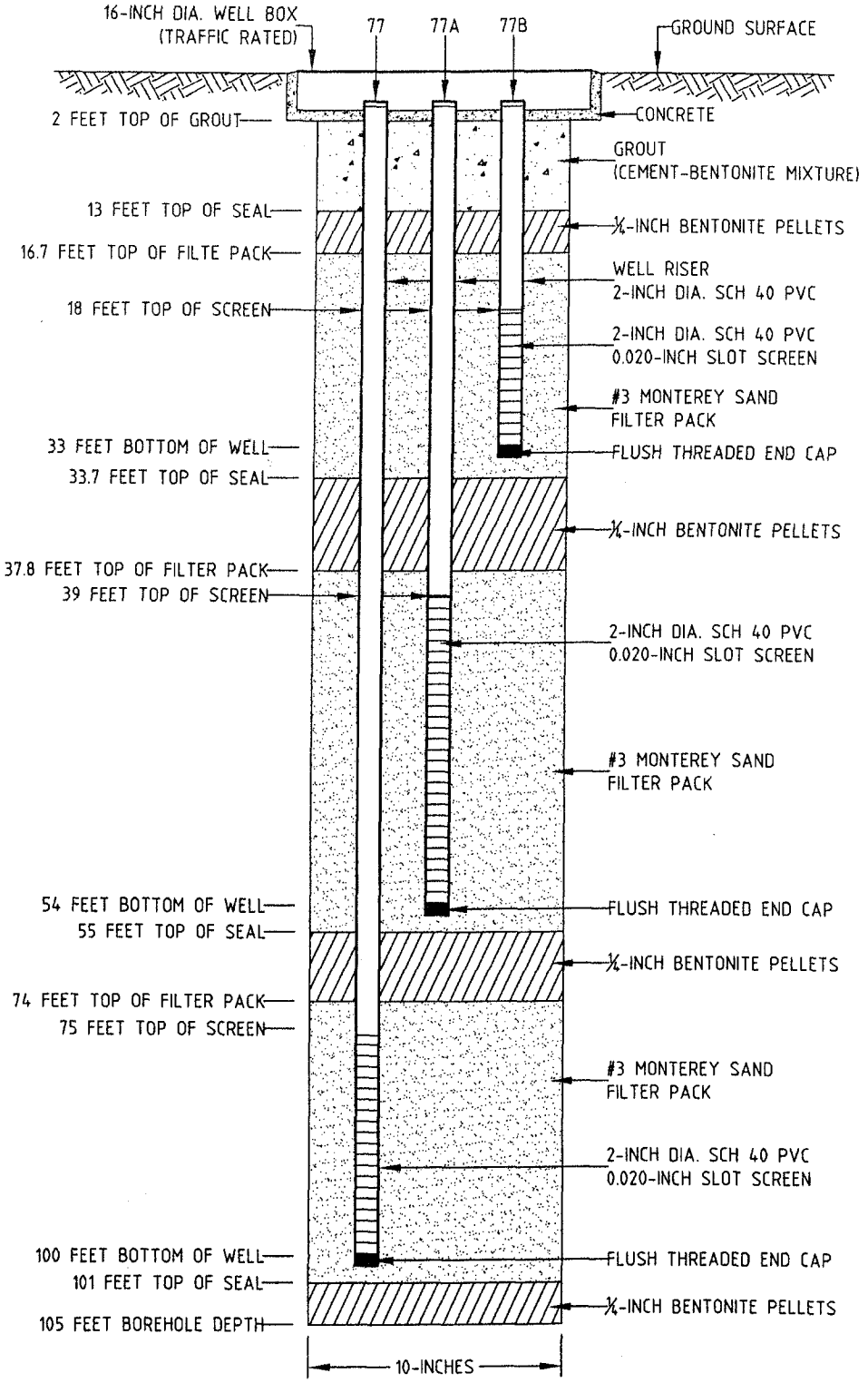
Well Construction 24-SVE 77/A/B

Project **MCAS/EL TORO**	Northing 2188769.62		Drilling Company LAYNE CHRISTENSEN		
Project Number **918708**	Easting 6110032.59		Drill Rig AP 1000		Begin Drilling 6/14/99
Client SWDIV	TOC Elevation 279.25		Driller MARTIN		End Drilling 6/15/99
Location **SITE 24**	A: 279.26	B: 279.25	Drill Method D.W.R.C.P.H.		Well Completion Date
Geologist A. SIDDIQUI/G. BERGER	TOP OF RIM 279.71		DIAGRAM NOT TO SCALE		6/15/99



NOTES:
DEPTHS ARE REFERENCED FROM
0 FEET GROUND SURFACE.
TOC=TOP OF CASING

OHM Remediation Services Corp.

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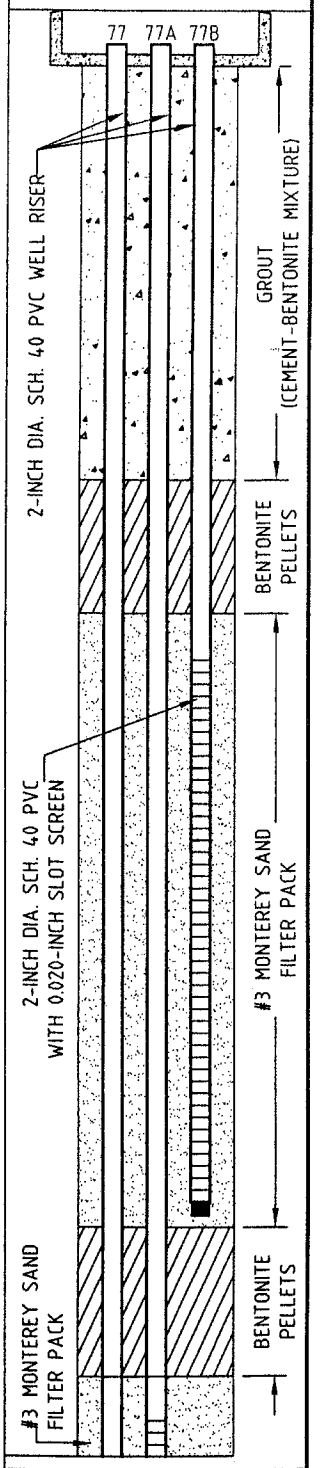
Geologic Log of Boring 24-SVE 77/A/B

Project **MCAS/EL TORO**	Northing 2188769.62	Drilling Company LAYNE CHRISTENSEN	
Project Number **918708**	Easting 6110032.59	Drill Rig AP 1000	Begin Drilling 6/14/99
Client SWDIV	TOC Elevation 279.25	Driller MARTIN	End Drilling 6/15/99
Location **SITE 24**	A: 279.26 B: 279.25	Drill Method PER. HAMMER AIR	Well Completion Date
Geologist A. SIDDIQUI/ G. BERGER	TOP OF RIM 279.71	DIAGRAM NOT TO SCALE	6/15/99
Borehole Diameter 10-11 INCHES	Total Depth of Borehole 106.5 FEET	Depth to Water 105 FEET	

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 in.	Recovery (inches)
Top 15 feet hand augured for underground utilities clearance. 12" concrete at surface.	0, 2, 4, 6, 8, 10, 12, 14						
Sandy Silt (ML): Dark yellowish brown (10YR ¾), 80% low to medium plastic fines, 20% fine sand, slightly moist, stiff.	16	ML				4 5 8	2 6 6
Poorly graded Sand (SP): Light yellowish brown (10YR ⅝), 95% fine (mostly) to medium sand, <5% fines, trace fine, subrounded gravel slightly moist, medium dense to dense.	18, 20, 22	SP				20 22 27	6 6 6
Silty Sand (SM): Olive brown (2.5Y ⅘), 80% fine sand, 20% non plastic fines, slightly moist, dense, interbedded with thin lenses of sandy silt at places.	24, 26, 28	SM				13 21 31	5 6 6
Silty Sand (SM): Dark yellowish brown (10YR ⅜), 65% fine sand, 35% non to low plastic fines, slightly moist, very dense.	30, 32	SM				17 34 50/4"	2 6 6
Sandy Silt (ML): Dark yellowish brown (10YR ⅜), 90% low to medium plastic fines, 10% fine sand, slightly moist hard.	34, 36, 38, 40	ML, SM				20 23 29	6 6 6

BORING DETAIL



OHM Remediation Services Corp.

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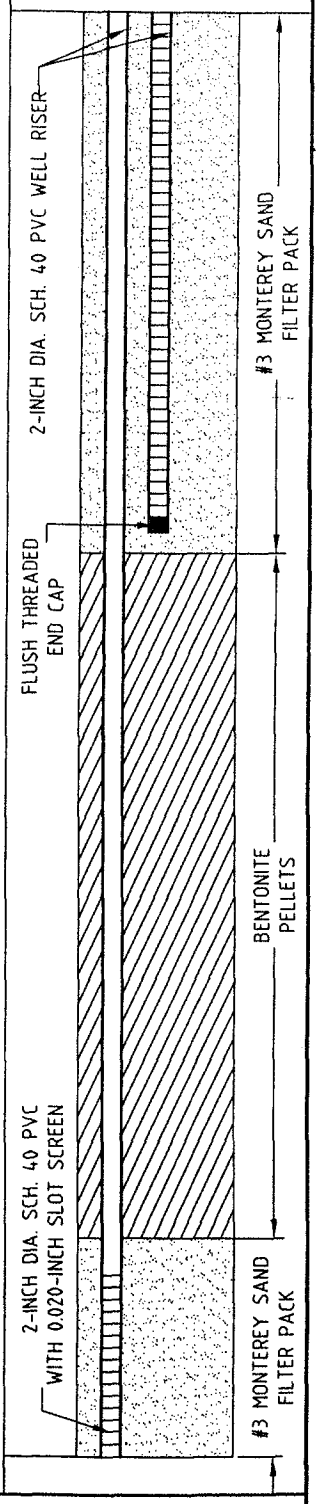
Geologic Log of Well 24-SVE 77/A/B

Project **MCAS/EL TORO** Project No. **918708**

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)
Silty Sand (SM): Dark yellowish brown (10YR 3/6), 70% fine, sand, 30% low to medium plastic fines, slightly moist, very dense.	40	SM				23 34 40	5 6 10
	42						
	44						
Silty Sand (SM): Dark yellowish brown (10YR 4/6), 60% fine sand, 40% low plastic fines, slightly moist, very dense.	46					25 50/1	6 1
	48						
Silty Sand (SM): Dark yellowish brown (10YR 4/6), 70% fine sand, 30% non to low plastic fines, slightly moist, very dense.	50					50/6	4
	52						
	54	ML					
Sandy Silt (ML): Dark yellowish brown (10YR 4/6), 75% low plastic fines, 25% very fine sand, slightly moist, hard.	56					14 15 33	5 6 6
	58						
Sandy Silt (ML): Dark yellowish brown (10YR 4/6), 80% low plastic fine, 20% very fine sand, some caliche, slightly moist, hard.	60					17 50/5	6 4
	62						
Gravel showing up for 61.5 feet. Silty Sand (SM): Light olive (2.5Y 5/4), 65% fine sand, 35% medium plastic fines, trace caliche, slightly moist, dense.	64	SM					
	66					35 50/6	6 4
Clayey Silt (ML): Olive brown (2.5Y 4/3), 90% medium to high plastic fine, 10% fine sand, slightly moist, hard.	68	ML					
Sandy Clay (CL): Dark yellowish brown (10YR 4/6), Very hard, low plasticity clay, 60% silty clay, 40% fine sand, some caliche, moist.	70	CL				19 55	6 6
	72						
	74						
Silty Sand (SM): Yellowish brown (10YR 5/4), 90% fine sand, 10% silt, slightly moist, dense, no odor, well sorted, poorly graded,	76	SM				50/4	4
	78						
	80						

WELL DETAIL



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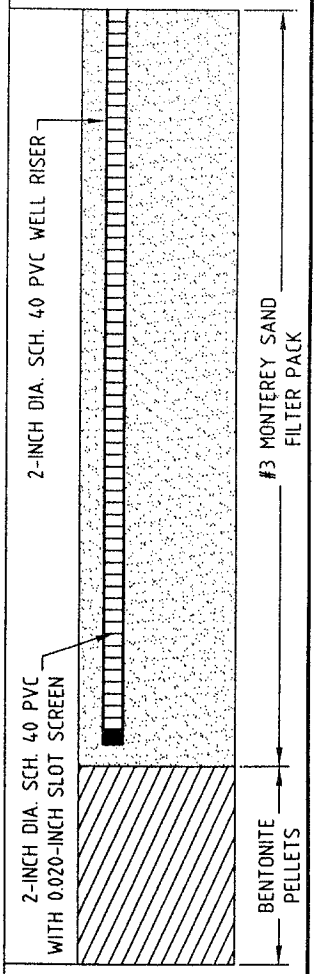
Geologic Log of Well 24-SVE 77/A/B

Project **MCAS/EL TORO** Project No. **918708**

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)
Silty Sand (SM): Yellowish brown, 60% fine sand, 40% silt, moist, dense.	80	SM				32 50 34	
	82						
	84						
Silty Sand (SM): Same as above.	86					11 21 32	
	88						
Silty Sand (SM): Grayish brown (10YR 5/2), 60% fine medium sand, 30% silt and clay, 10% gravel, slight odor.	90	SP				24 25 50/4	
Sand (SP): Yellowish brown (10YR 5/4), fine to medium sand, trace coarse, unconsolidated (loose), moist, apparently dense, no odor.	92						
	94						
Silty Sand (SM): Dense, non plastic, 50% fine sand, 50% silt and clay, very dense some caliche modules, no odor.	96					34 50/1	
	98						
Silty Sand (SM): Same as above.	100	SM				50/6	
	102						
	104						
Silty Sand (SM): Olive brown (2.5Y 4/3), 50% sand, 50% silt, wet, medium dense, micaceous.	106					16 18 24	
Total depth = 106.5 feet.	108						
	110						
	112						
	114						
	116						
	118						
	120						

WELL DETAIL



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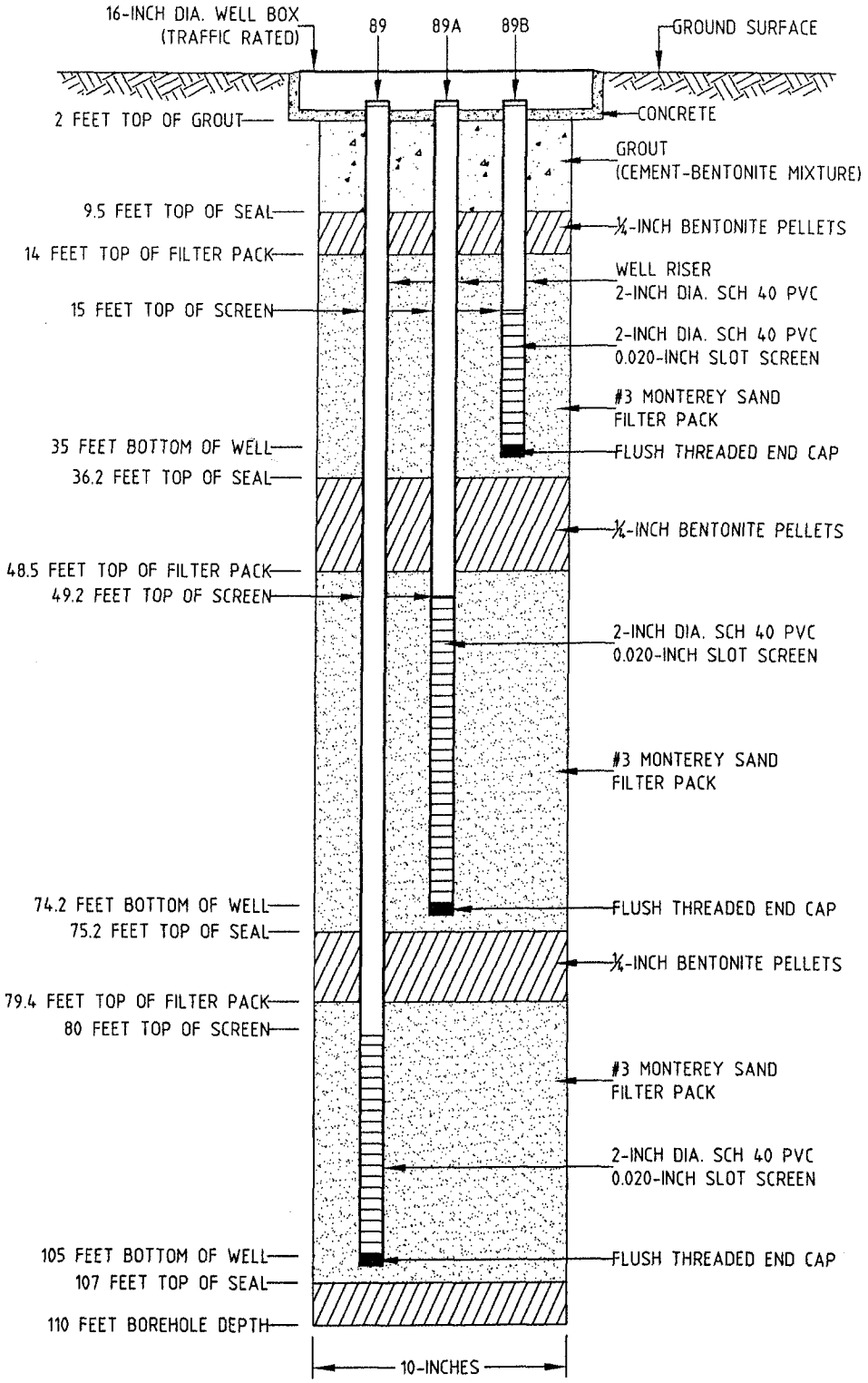
Well Construction 24-SVE 89/A/B

Project **MCAS/EL TORO**	Northing 2188681.44	Drilling Company LAYNE CHRISTENSEN	
Project Number **918708**	Easting 6110175.34	Drill Rig AP 1000	Begin Drilling 6/8/99
Client SWDIV	TOC Elevation -	Driller MARTIN	End Drilling 6/8/99
Location **SITE 24**	A: - B: -	Drill Method D.W.R.C.P.H.	Well Completion Date
Geologist A. SIDDIQUI	TOP OF RIM 290.19	DIAGRAM NOT TO SCALE	6/9/99



NOTES:

DEPTHS ARE REFERENCED FROM
0 FEET GROUND SURFACE.
TOC=TOP OF CASING

OHM Remediation Services Corp.

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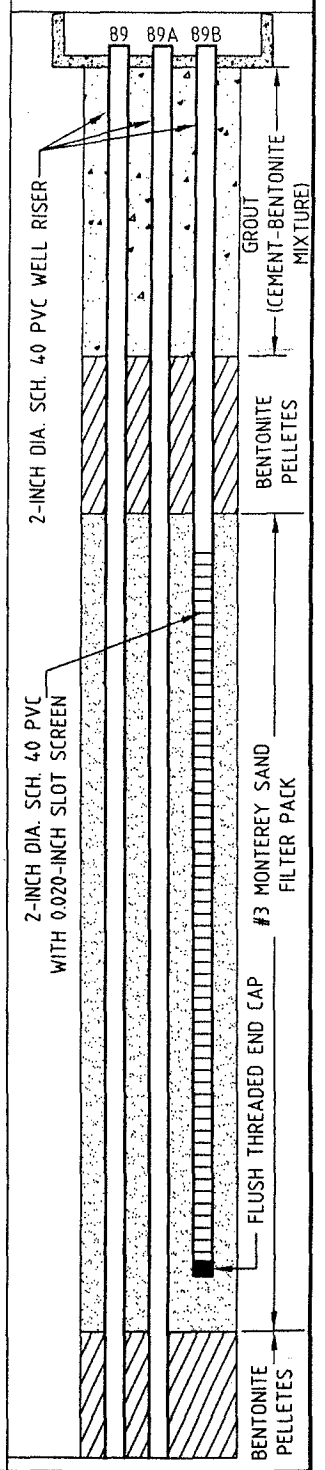
Geologic Log of Boring 24-SVE 89/A/B

Project **MCAS/EL TORO**	Northing 2188681.44	Drilling Company LAYNE CHRISTENSEN	
Project Number **918708**	Easting 6110175.34	Drill Rig AP 1000	Begin Drilling 6/8/99
Client SWDIV	TOC Elevation -	Driller MARTIN	End Drilling 6/8/99
Location **SITE 24**	A/B -	Drill Method D.W.P.HAMMER	Well Completion Date 6/9/99
Geologist A. SIDDIQUI	TOP OF RIM 290.19	DIAGRAM NOT TO SCALE	
Borehole Diameter 11"-10"	Total Depth of Borehole 111.5 FEET	Depth to Water 110 FEET	

DESCRIPTION	Depth (feet)	Soil Group	Samples	Blows/6 in.	Recovery (inches)
10-inch concrete at surface. Top 15-feet hand augured for underground utility clearance.	0				
	2				
	4				
	6				
	8				
	10				
	12				
Silty Sand (SM): Dark yellowish brown (10YR 3/6), 75% fine to medium sand, 25% low plastic fines, slightly moist, medium dense.	14	SM			
				22	6
				16	6
	16			21	6
Sandy Silt (ML): Dark brown (10YR 3/3), 90% low to medium plastic fines, 10% fine sand, slightly moist, very stiff.		ML			
Interbedded silty sand and silt.	18				
Sandy Silt: Same as above.	20			15	6
				14	6
Silty Sand (SM): Olive brown (2.5YR 4/4), 80% fine (mostly) to medium sand, 20% non-plastic fines, slightly moist, medium dense.	22	SM		27	6
	24				
(PID is not working)		SP			
				14	6
				18	6
Poorly Graded Sand (SP): Light olive brown (2.5Y 5/3), 100% fine to medium sand, trace fine sub rounded gravel, trace fines, slightly moist, medium dense.	26			21	6
Fine Gravel showing up in cuttings.	28				
Gravely Sand (SP): Light olive brown (2.5Y 5/4), 85% fine to medium sand, 15% fine to sub rounded gravel, trace fines, slightly moist, very dense.	30	SP		22	6
				50/3	4
Occasional cobbles 4 to 5 inches in diameter show up in cutting.	32				
	34				
Sandy Silt (ML): Dark yellowish brown (10YR 3/6), 75% low to medium plastic fines, 25% very fine sand, slightly moist, hard.		ML		19	6
	36			38	6
				40	6
	38				
	40				

PID/FID (ppm)

BORING DETAIL



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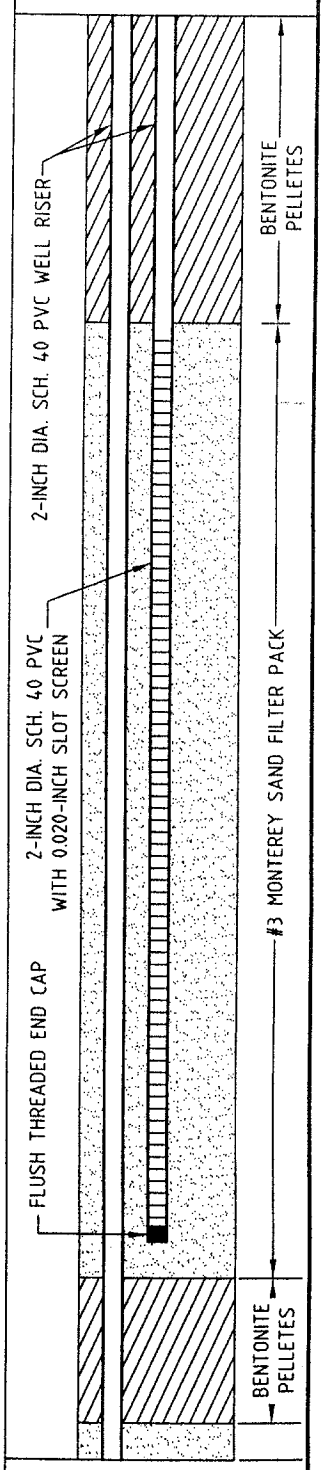
Geologic Log of Well 24-SVE 89/A/B

Project **MCAS/EL TORO** Project No. **918708**

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)
Sandy Silt (ML): Brown (7.5Yr 4/3), 80% low plastic fines, 20% very fine sand, slightly moist, hard.	40					15 23 34	6 6 6
@ 42 feet ~1 foot thick lens of poorly graded sand. Based on soil cuttings.	42	ML					
	44						
Sand Silt (ML): Dark yellowish brown (10YR 3/6), 75% low plastic fines, 25% very fine sand, slightly moist, hard, micaceous.	46	ML				18 40 35	6 6 6
	48						
Sandy Silt (ML): Dark yellowish brown (10YR 3/4), 70% low plastic fines, 30% fine sand, slightly moist, hard.	50	ML				20 37 50/5"	6 6 6
	52						
	54						
Poorly Graded Sand (SP): Yellowish brown (10YR 5/4), 100% fine sand, trace fines, trace coarse sub rounded gravel, slightly moist, very dense.	56	SP				20 50/6"	5 6
	58						
Silty Sand (SM): Dark yellowish brown (10YR 4/4), 70% fine (mostly) to medium sand, 30% non-plastic fines, trace caliche, dense.	60	SM				22 23 37	6 6 6
	62						
Poorly Graded Sand (SP): 95% fine (mostly) to medium sand, 5% fine sub rounded gravel, trace fines, slightly moist, very dense.	64						
	66					50 45 50/4"	5 6 6
	68	SP					
Gravely Sand (SP): Light yellowish brown (2.5Y 6/3), 80% fine (mostly) to medium sand, 15% fine to coarse sub rounded gravel, 5% fines, weakly consolidated with caliche, dry, dense to very dense.	70					23 35 47	6 6 6
	72						
	74						
Silty Sand (SM): Light olive brown (2.5Y 5/4), 65% very fine sand, 35% non to low plastic fines, slightly moist, very dense, trace caliche.	76	SM				50/6"	6
	78						
	80						

WELL DETAIL



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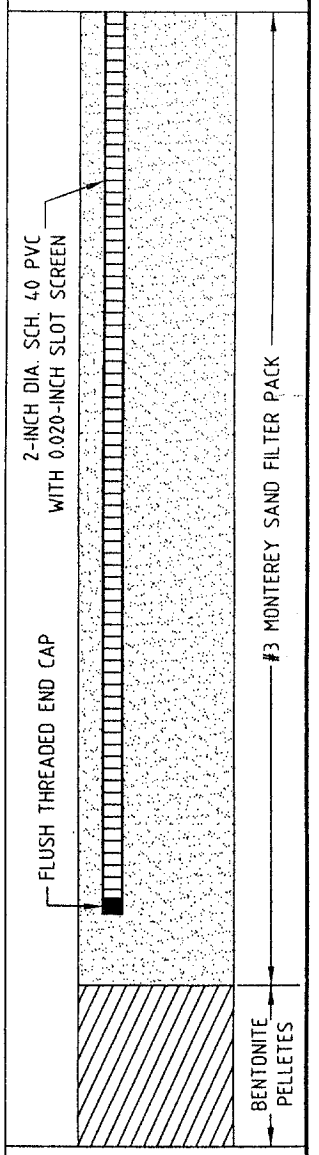
Geologic Log of Well 24-SVE 89/A/B

Project **MCAS/EL TORO** Project No. **918708**

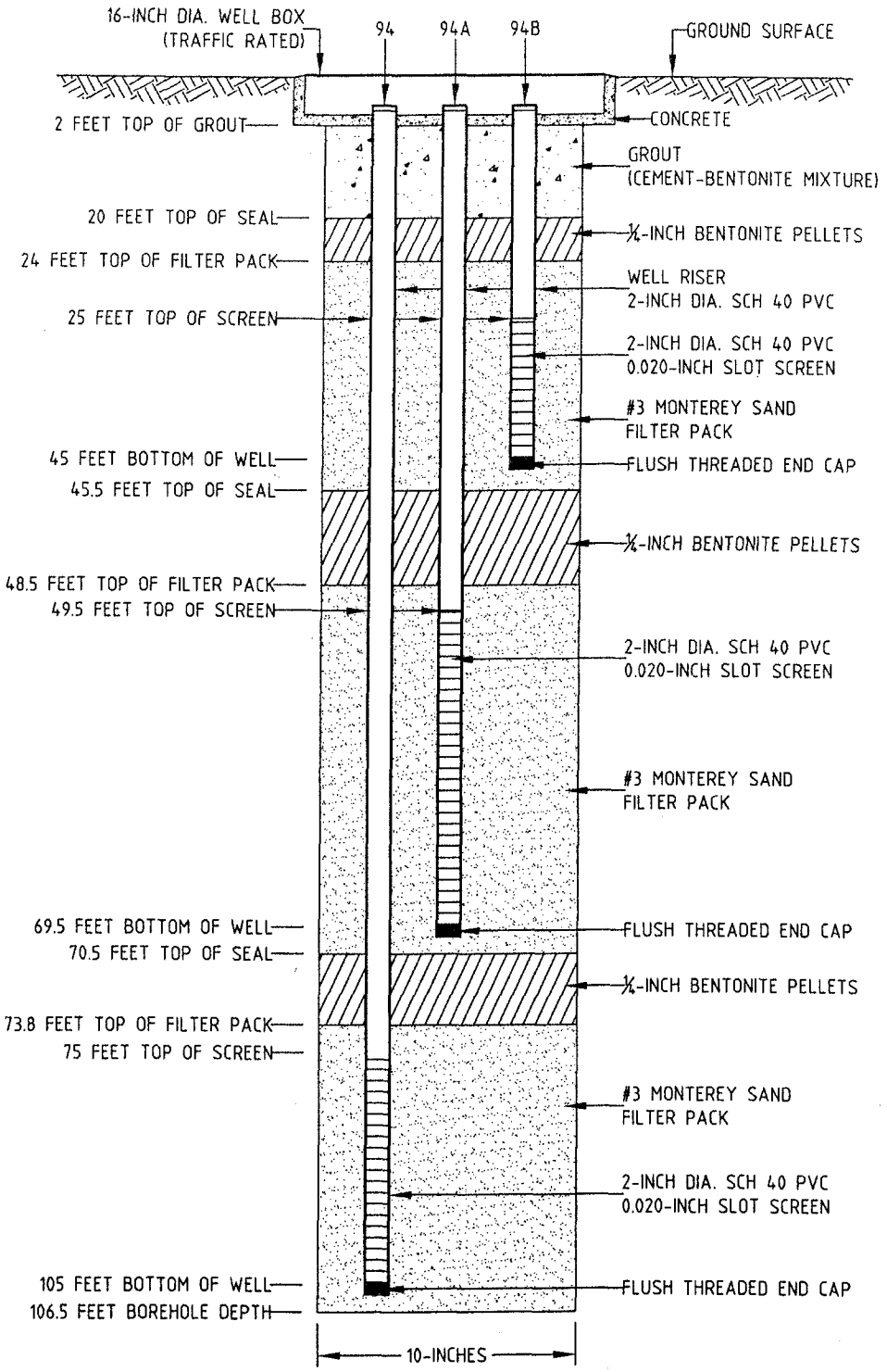
DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)
Silty Sand (SM): Same as above interbeded with sandy silt.	80					38 50/5	6 6
	82	SM					
	84						
Sandy Silt (ML): Olive brown (2.5Y 4/4), 65%non to low plastic fines, 35% very fine sand, slightly moist, hard.	86	ML				22 28 31	6 6 6
	88	SM					
Silty Sand (SM): Olive brown (2.5Y 4/4), 65% very fine sand, 35% non to low plastic fines, slightly moist, dense.	90					19 22 38	6 6 6
	92						
	94						
Silty Sand (SM): Dark yellowish brown (10YR 4/4), 70% fine sand, 30% non to low plastic fines, slightly moist, dense.	96	SM				24 37 40	3 6 6
	98						
	100					100/4"	2
From 75'-105' predominantly silty sand interbeded with sandy silt and lenses of sand with gravel places. 3" pieces of cobble in sample. No recovery based on soil cuttings. Soil consists of mainly silty sand with lenses of SP and sandy silt (ML) and minor gravel between 99'-101'.	102	SM					
	104						
Clayey Silt (ML): Dark brown (10YR 3/3), 90% medium plastic fines (silt with clay), 10% fine to medium sand, moist, very stiff.	106	ML				11 11 19	
	108						
	110						
Silty Sand (SM): Olive brown (2.5Y 4/4), 60% fine sand 40%, low plastic fines, wet, dense.		SM				19 25 25	
	112						
Total Depth= 111-1/2 feet.	114						
	116						
	118						
	120						

WELL DETAIL



Well Construction 24-SVE 94/A/B

Project **MCAS/EL TORO**	Northing 2188509.97	Drilling Company LAYNE CHRISTENSEN	
Project Number **918708**	Easting 6110542.60	Drill Rig AP 1000	Begin Drilling 6/3/99
Client SWDIV	TOC Elevation -	Driller MARTIN	End Drilling 6/3/99
Location **SITE 24**	B -	Drill Method D.W.R.C.P.H.	Well Completion Date
Geologist A. SIDDIQUI	TOP OF RIM 290.81	DIAGRAM NOT TO SCALE	6/4/99



NOTES:

DEPTHS ARE REFERENCED FROM
0 FEET GROUND SURFACE.
TOC=TOP OF CASING

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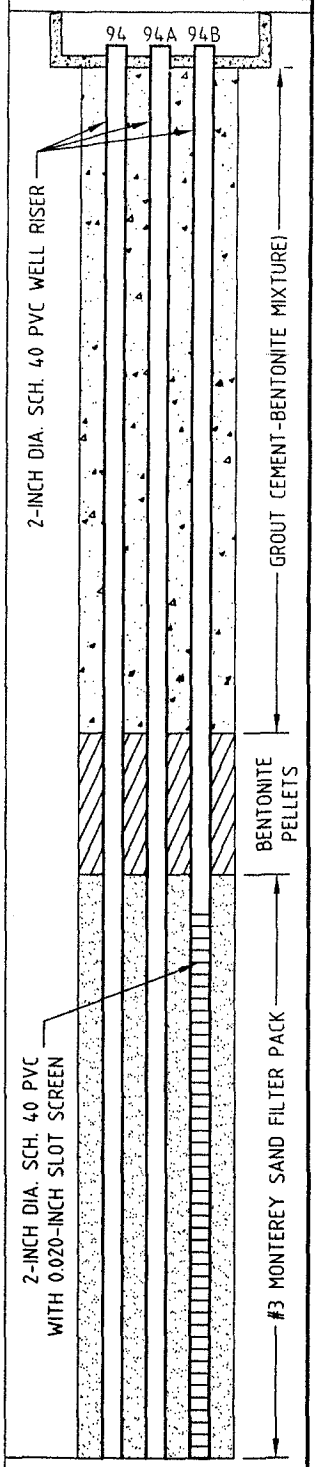
Geologic Log of Boring 24-SVE 94/A/B

Project **MCAS/EL TORO**	Northing 2188509.97	Drilling Company LAYNE CHRISTENSEN	
Project Number **918708**	Easting 6110542.60	Drill Rig AP 1000	Begin Drilling 6/3/99
Client SWDIV	TOC Elevation -	Driller MARTIN	End Drilling 6/3/99
Location **SITE 24**	B -	Drill Method DUAL WALL REVERSE	Well Completion Date
Geologist A. SIDDIQUI	TOP OF RIM 290.81	DIAGRAM NOT TO SCALE	6/4/99
Borehole Diameter 10-11 INCHES	Total Depth of Borehole 106.5 FEET	Depth to Water 105.9' FEET	

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 in.	Recovery (inches)
Top 15 feet hand augured for underground utilities clearance. 12" concrete at surface.	0, 2, 4, 6, 8, 10, 12, 14						
Silty Sand (SM): Yellowish brown (10YR 5/4), 80% fine sand, 20% non to low plastic fines, slightly moist, dense, well sorted.	16, 18	SM				13 29 32	6 6 6
Silty Sand (SM): Dark yellowish brown (10YR 3/6), 70% very fine sand, 30% low plastic fines, slightly moist, dense, amount of fines is variable 25% to 40% interbedded with sandy silty lenses.	20, 22	SM				24 32 32	3 6 6
Sandy Silt (ML): Dark yellowish brown (10YR 3/6), 70% low plastic fines, 30% very fine sand, slightly moist, very stiff, amount of sand is variable, 10% to 35% interbedded with silty sand.	24, 26, 28	ML				12 14 20	6 6 6
Poorly Graded Sand With Gravel (SP): Light yellowish brown (10YR 3/6), 80% fine to medium sand, 20% fine to coarse, sub rounded to sub angular gravel (max. 1 1/2") trace fines, slightly moist, dense.	30, 32	SP				27 45 38	5 6 6
Poorly graded Sand with Gravel (SP): Same as above.	34, 36, 38, 40	SP				13 30 38	3 6 6

BORING DETAIL



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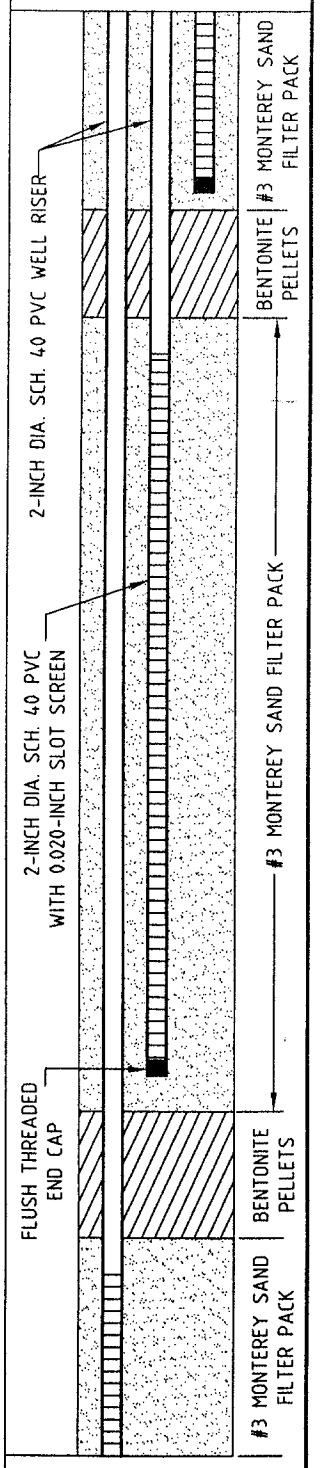
Geologic Log of Well 24-SVE 94/A/B

Project **MCAS/EL TORO** Project No. **918708**

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)
Poorly graded Sand with Gravel (SP): Not enough recovery, only fine to coarse sub rounded to sub angular gravel in sampler.	40–42	SP					0 0 4
Sandy Silt (ML): Olive brown (2.5Y 4/4), 80% low to medium plastic fines, 20% fine sand, slightly moist, very stiff.	44	ML					
Silty Sand (SM): Olive brown (2.5Y 4/4), 70% fine sand, 30% low plastic fines, slightly moist, dense.	46–48	SM				15 20 35	6 6 6
Silty Sand (SM): Yellowish brown (10YR 5/4), 75% fine to medium sand, 25% low plastic fines, trace sub angular fine gravel, trace caliche.	50–52	SM				50/4"	5
At 53' discharge hose got plugged by a 6" diameter 8" long cobble.	54						
Silty Sand (SM): Light olive brown (2.5Y 5/4), 80% very fine sand, 20% non to low plastic fines, slightly moist, very dense, micaceous, very well sorted, interbedded with sandy silt.	56–58	SM				18 50/5"	6 6
Silty Sand (SM): Light olive brown (2.5Y 4/4), 70% very fine sand, 30% low to medium plastic fines, slightly moist, dense, very well sorted.	60–62	SM				17 28 40	6 6 6
Sandy Silt (ML): Dark yellowish brown (10YR 3/6), 75% low to medium plastic fines, 25% very fine sand, slightly moist, hard, trace caliche.	64–66	ML				7 11 40	4 6 6
Silty Sand (SM): Dark yellowish brown (10YR 4/6), 70% fine (mostly) to medium sand, 30% low plastic fines, slightly moist, dense. Interbedded with sandy silt.	68–72	SM				25 37 50	6 6 6
Silty Sand (SM): Dark brown (10YR 3/3), 70% fine sand, 30% low plastic fines, slightly moist, very dense. Interbedded with sandy silt.	74–76	SM				27 50 50	6 6 6
	78–80						

WELL DETAIL



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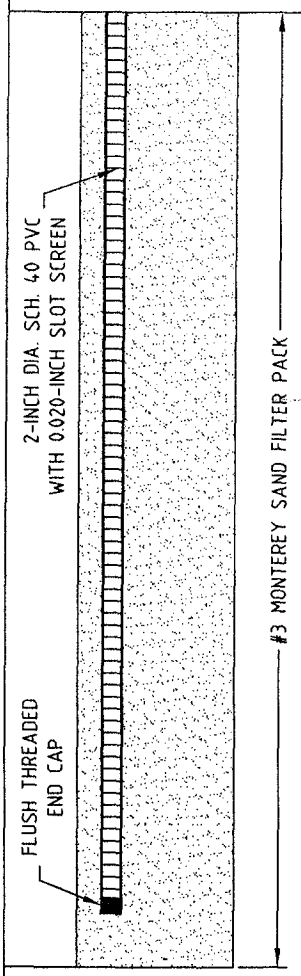
Geologic Log of Well 24-SVE 94/A/B

Project **MCAS/EL TORO** Project No. **918708**

DESCRIPTION	Depth (feet)	Soil Group	Graphic Log	Samples	PID/FID (ppm)	Blows/6 In.	Recovery (6 inches)
Silty Sand (SM): Dark yellowish brown (10YR 4/4), 85% fine sand, 15% fines, slightly moist, dense, interbedded with clear sand.	80	SM				35 55	
	82						
	84						
Sandy Silt (ML): Light olive brown (2.5Y 5/3), 80% medium plastic fines (predominantly silt with clay), 20% very fine sand, moist, stiff.	86	ML				10 8 8	0 0 6
Soil cuttings plugging inside of drive casing.	88						
Clayey Silt (ML): Olive brown (2.5 4/4), 90% medium plastic fines, 10% very fine sand, slightly moist, hard.	90	ML				10 19 32	6 6 6
Sand show up in soil cuttings at 92'.	92						
	94	SM					
Silty Sand (SM): Light olive brown (2.5Y 5/4), 70% very fine sand, 30% medium plastic fines, slightly moist, dense.	96					27 37 40	6 6 6
Clayey Silt (ML): Dark yellowish brown (10YR 3/3), 80% medium plastic fines, 20% very fine sand, slightly moist, hard.	98	ML					
Clayey Sand (SC): Olive brown (2.5Y 4/4), 65% fine sand, 35% medium plastic fines, moist to very moist, very dense. Interbedded with clayey silt.	100	SC				37 50	6 6
	102						
	104	SP/SM					
Poorly Graded Sand With Silt (SP-SM): Light olive brown (2.5Y 5/3), 90% fine to medium sand, 10% fines, wet, dense.	106					16 30 33	
Total depth = 106.5 feet.	108						
	110						
	112						
	114						
	116						
	118						
	120						

WELL DETAIL



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