APPENDIX C
WESTBAY® SUMMARY CASING LOGS

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Summary MP Casing Log

Company: Nye County
Well: EWDP-10S
Site: Amargosa Valley NV
Project: EWDP

Job No: WB740
Author: DL

Well Information

Reference Datum
Elevation of Datum 0 00 ft
MP Casing Top 0 00 ft
MP Casing Length 870 39 ft

Borehole Depth 900 00 ft
Borehole Inclination vertical
Borehole Diameter. 10 00 in

Well Description
Plastic MP55 System
Other References
In 7.0 inch OD steel casing & screens
4-inch PVC Riser above MP26
From NC Completion Diagram, 10/23/01

File Information

File Name EWDP_10S WWD
Report Date Tue Apr 30 08 55 47 2002

File Date Apr 29 17 34 15 2002

Sketch of Wellhead Completion

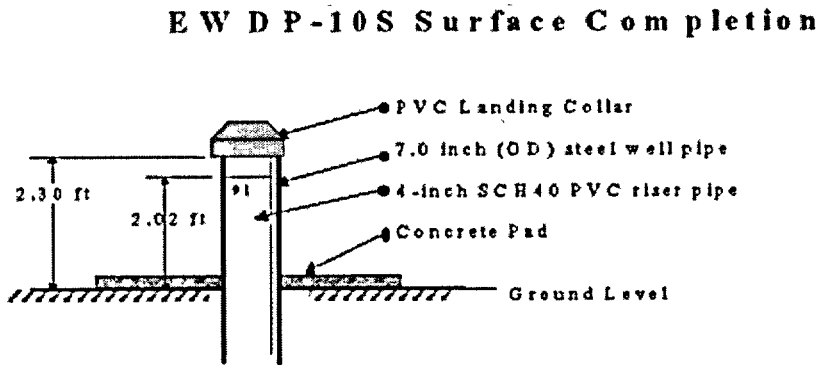

Figure C1
Westbay® Summary Casing Log for Well NC-EWDP-10S (1 of 4)

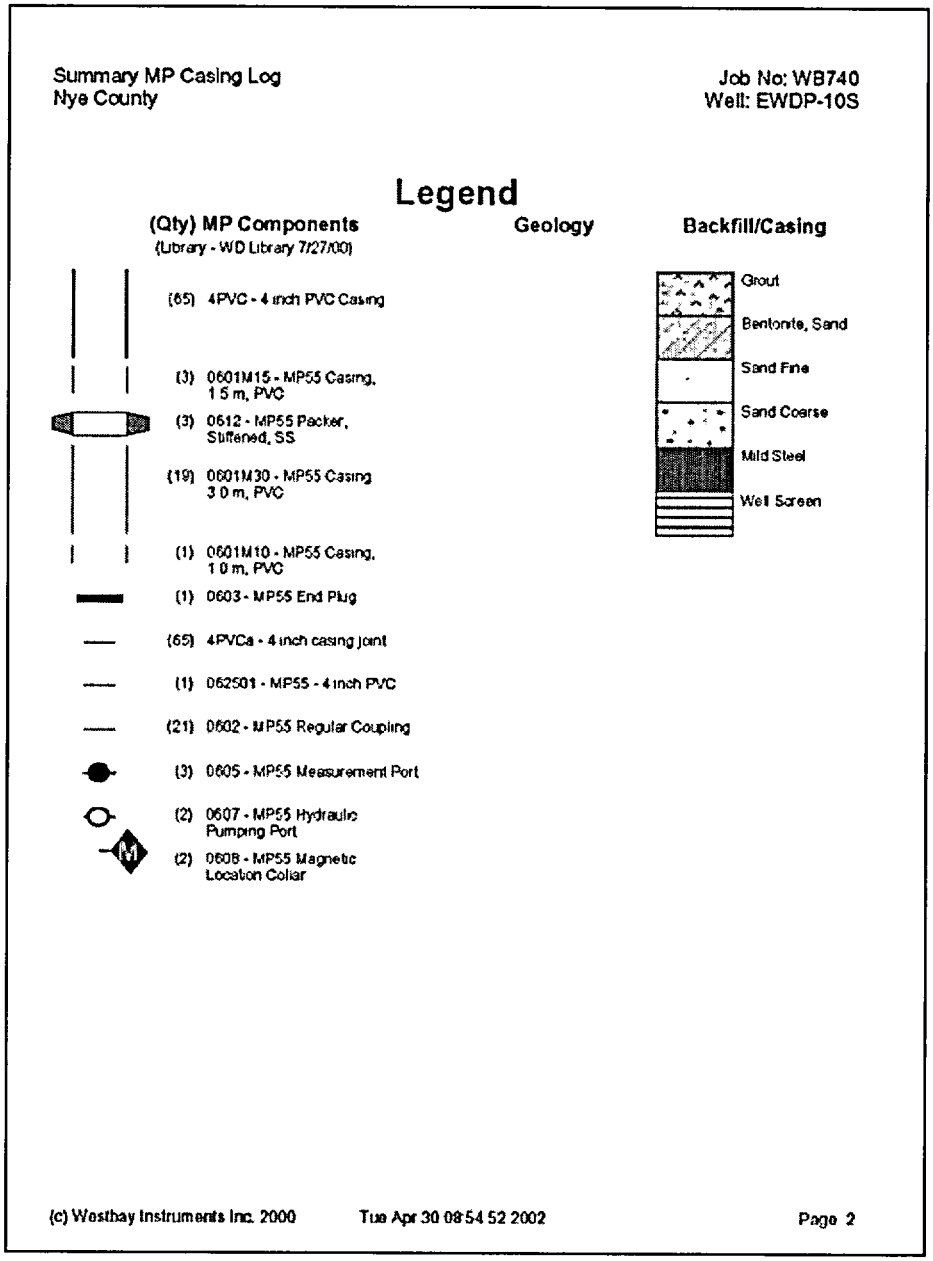

Figure C1
Westbay® Summary Casing Log for Well NC-EWDP-10S (2 of 4)

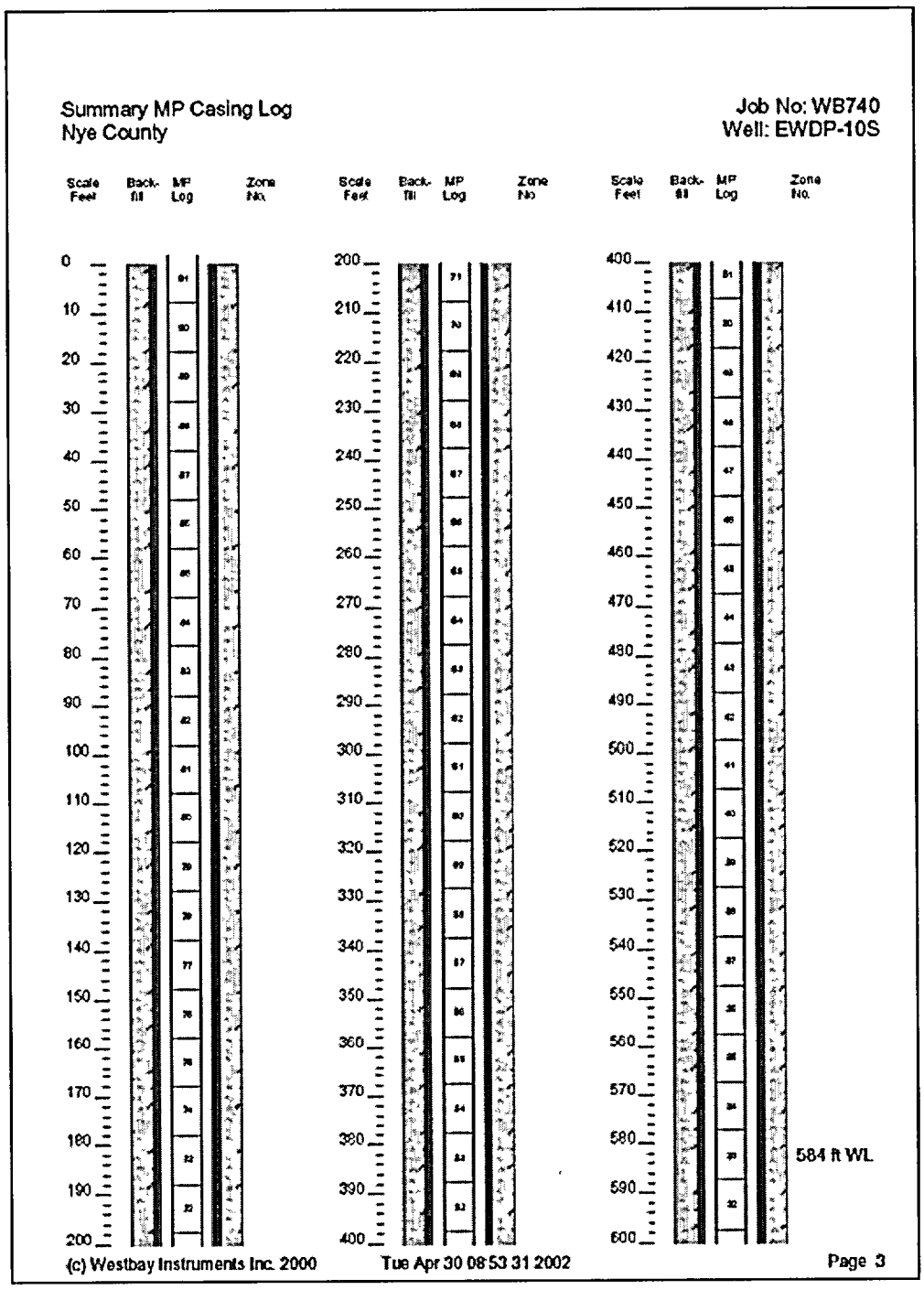

Figure C1
Westbay® Summary Casing Log for Well NC-EWDP-10S (3 of 4)

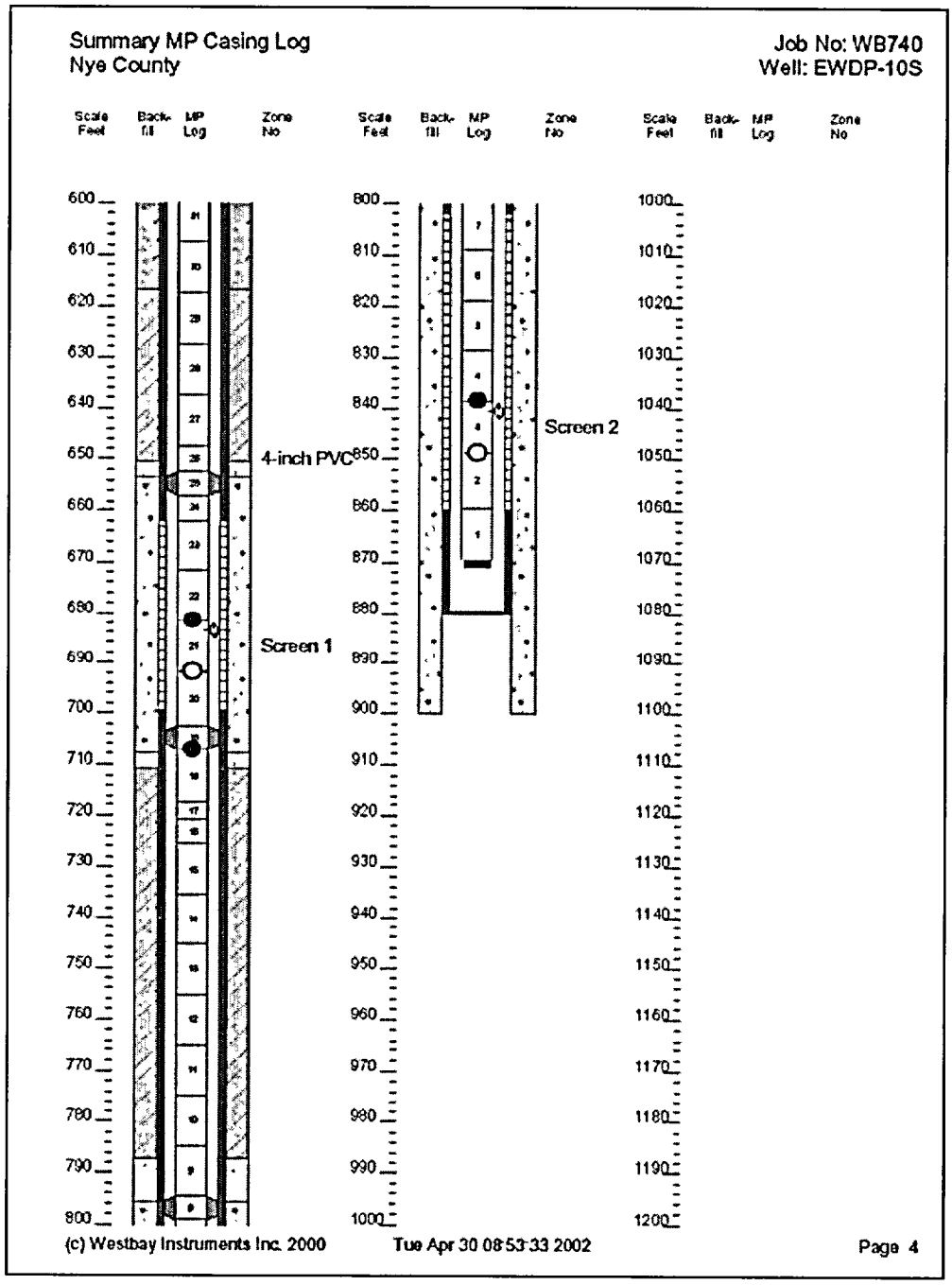

Figure C1
Westbay® Summary Casing Log for Well NC-EWDP-10S (4 of 4)

Summary MP Casing Log

Company: Nye County
Well: EWDP-191M1
Site: Amargosa Valley NV
Project: EWDP

Job No: WB740
Author: DL

Well Information

Reference Datum
Elevation of Datum 0 00 ft
MP Casing Top: 0 00 ft
MP Casing Length: 938.83 ft

Borehole Depth 1000.00 ft
Borehole Inclination: vertical
Borehole Diameter: 10.00 in

Well Description:
Plastic MP55 System
Other References:
In 6 0 inch steel well casing
Based on Nye County email Sept 6/01

File Information

File Name: 19IM1.WWD
Report Date: Tue Apr 30 13:05 58 2002

File Date. Jan 23 23.47.21 2002

Sketch of Wellhead Completion

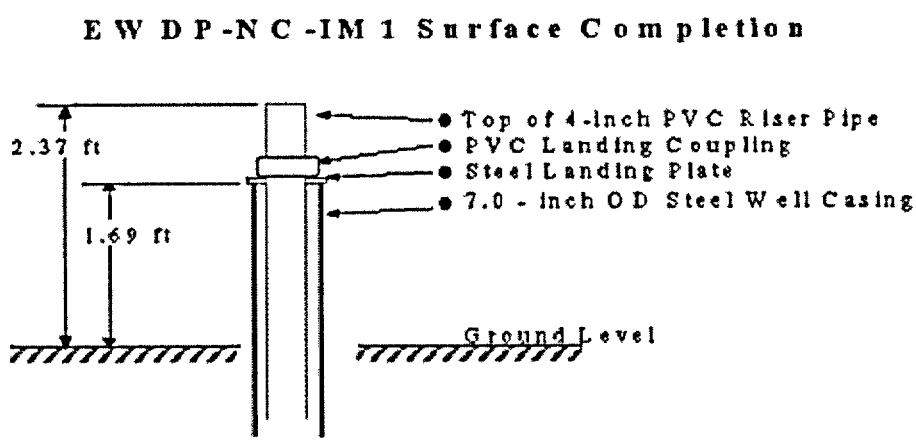

Figure C2
Westbay® Summary Casing Log for Well NC-EWDP-19IM1 (1 of 4)

Summary MP Casing Log
Nye County

Job No: WB740
Well: EWDP-191M1

Legend

(Qty) MP Components
(Library - WD Library 7/27/00)

(40) 4PVC - 4 inch PVC Casing

(4) 0601M15 - MP55 Casing, 1.5 m, PVC

(9) 0612 - MP55 Packer, Stiffened, SS

(48) 0601M30 - MP55 Casing, 3.0 m, PVC

(1) 0603 - MP55 End Plug

(40) 4PVCa - 4 inch casing joint

(1) 062501 - MP55 - 4 inch PVC

(47) 0602 - MP55 Regular Coupling

(9) 0605 - MP55 Measurement Port

(5) 0607 - MP55 Hydraulic Pumping Port

(5) 0608 - MP55 Magnetic Location Collar

Geology

Backfill/Casing

Grout

Bentonite

Sand Coarse

Mild Steel

Well Screen

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Figure C2
Westbay® Summary Casing Log for Well NC-EWDP-19IM1 (2 of 4)

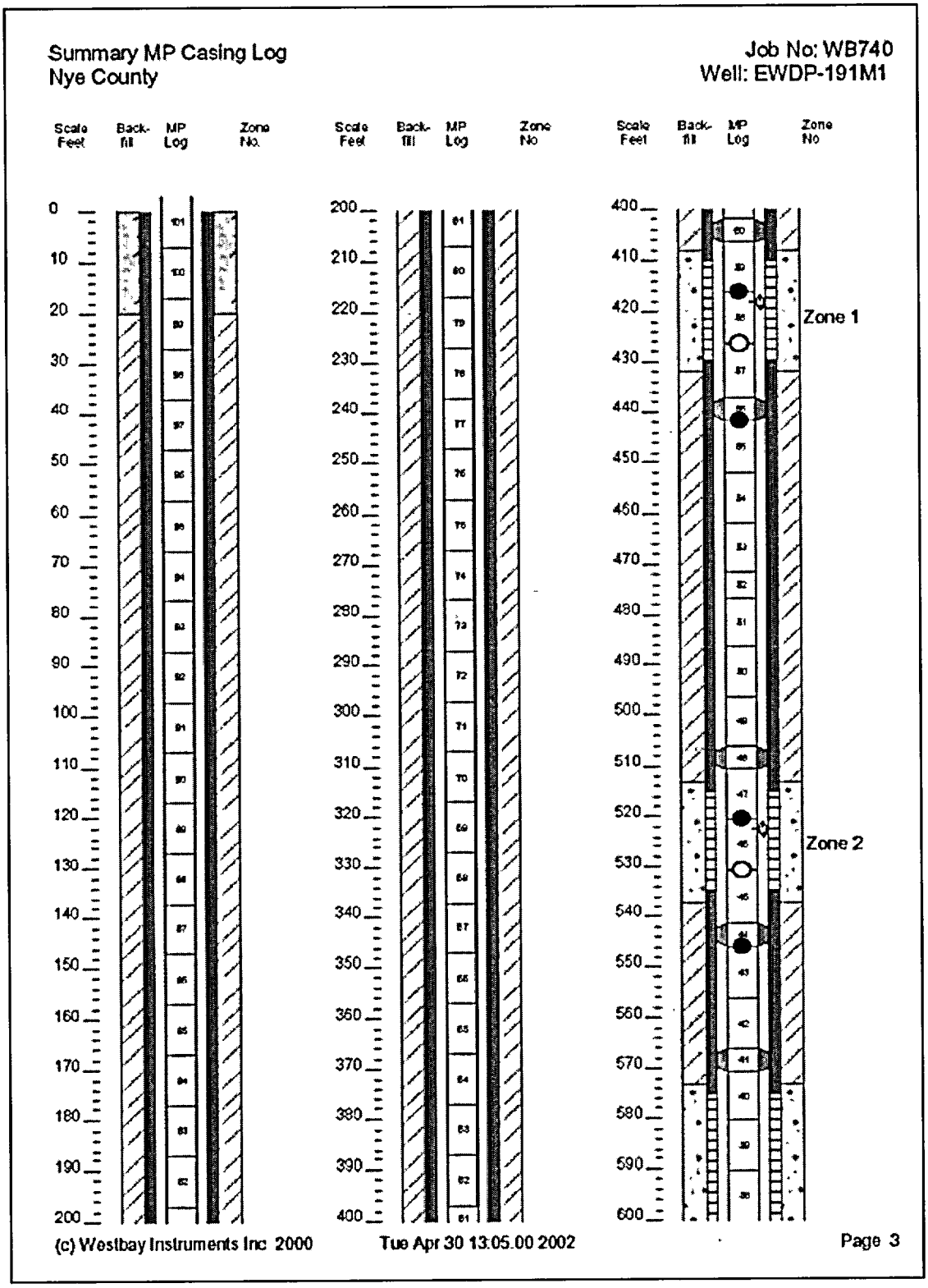

Figure C2
Westbay® Summary Casing Log for Well NC-EWDP-19IM1 (3 of 4)

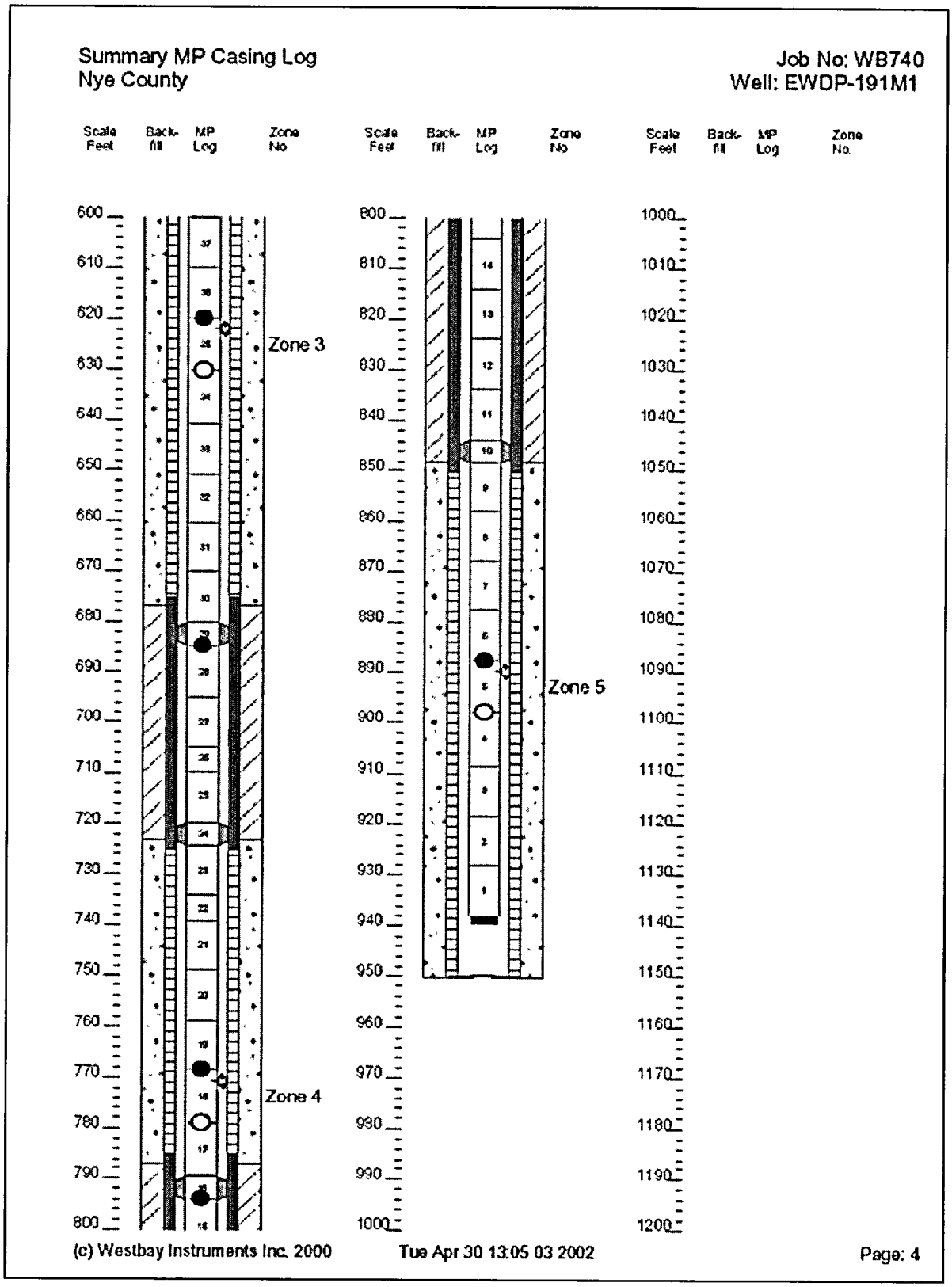

Figure C2
Westbay® Summary Casing Log for Well NC-EWDP-19IM1 (4 of 4)

Summary MP Casing Log

Company: Nye County
Well: EWDP-22S
Site: Amargosa Valley NV
Project: EWDP

Job No: WB740
Author: DL

Well Information

Reference Datum Ground Level
Elevation of Datum. 0 00 ft
MP Casing Top: 0 00 ft
MP Casing Length: 1185 48 ft

Borehole Depth: 1196.50 ft
Borehole Inclination: vertical
Borehole Diameter: 10 00 in

Well Description.
Plastic MP55 System
Other References
In 6 0 inch steel well casing
Based on Nye County
Draft Well Completion Diagram, 10/29/01

File Information

File Name. EWDP_22S WWD
Report Date Tue Apr 30 09 04 31 2002

File Date Apr 29 17:33 23 2002

Sketch of Wellhead Completion

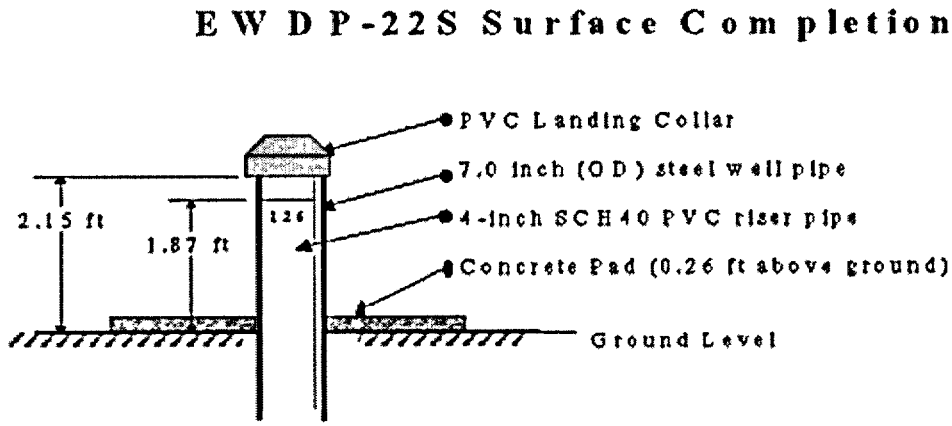

Figure C3
Westbay® Summary Casing Log for Well NC-EWDP-22S (1 of 4)

Summary MP Casing Log
Nye County

Job No: WB740
Well: EWDP-22S

Legend

(Qty) MP Components
(Library - WD Library 7/27/00)

(51) 4PVC - 4 inch PVC Casing

(5) 0601M15 - MP55 Casing, 1 5 m, PVC

(7) 0612 - MP55 Packer, Stiffened, SS

(1) 0601M10 - MP55 Casing, 1 0 m, PVC

(62) 0601M30 - MP55 Casing 3 0 m, PVC

(1) 0603 - MP55 End Plug

(51) 4PVCa - 4 inch casing joint

(1) 062501 - MP55 - 4 inch PVC

(64) 0602 - MP55 Regular Coupling

(7) 0605 - MP55 Measurement Port

(4) 0607 - MP55 Hydraulic Pumping Port

(4) 0608 - MP55 Magnetic Location Collar

Geology

Backfill/Casing

Grout

Bentonite, Sand

Sand Fine

Sand Coarse

Mild Steel

Well Screen

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Figure C3
Westbay® Summary Casing Log for Well NC-EWDP-22S (2 of 4)

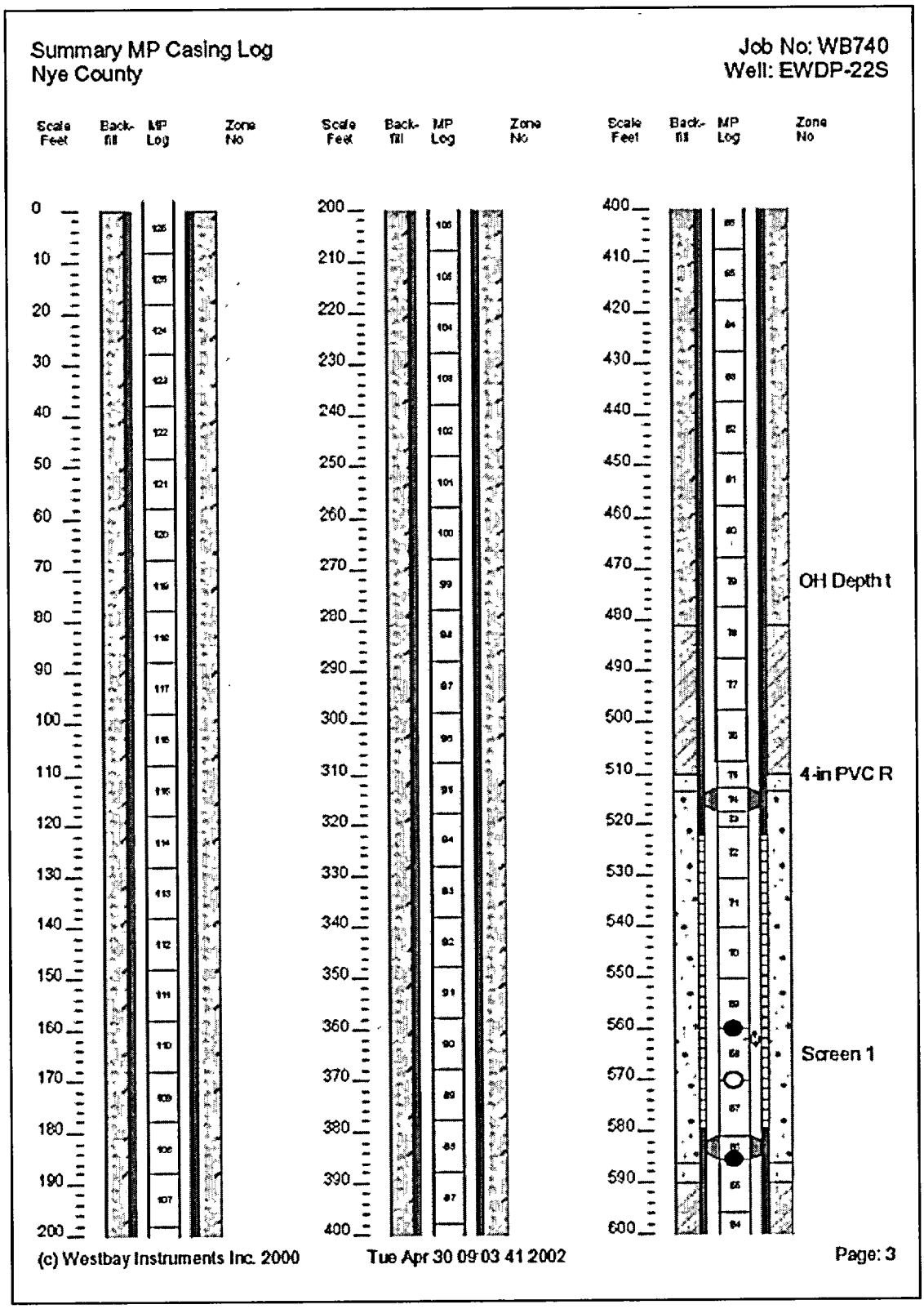

Figure C3
Westbay® Summary Casing Log for Well NC-EWDP-22S (3 of 4)

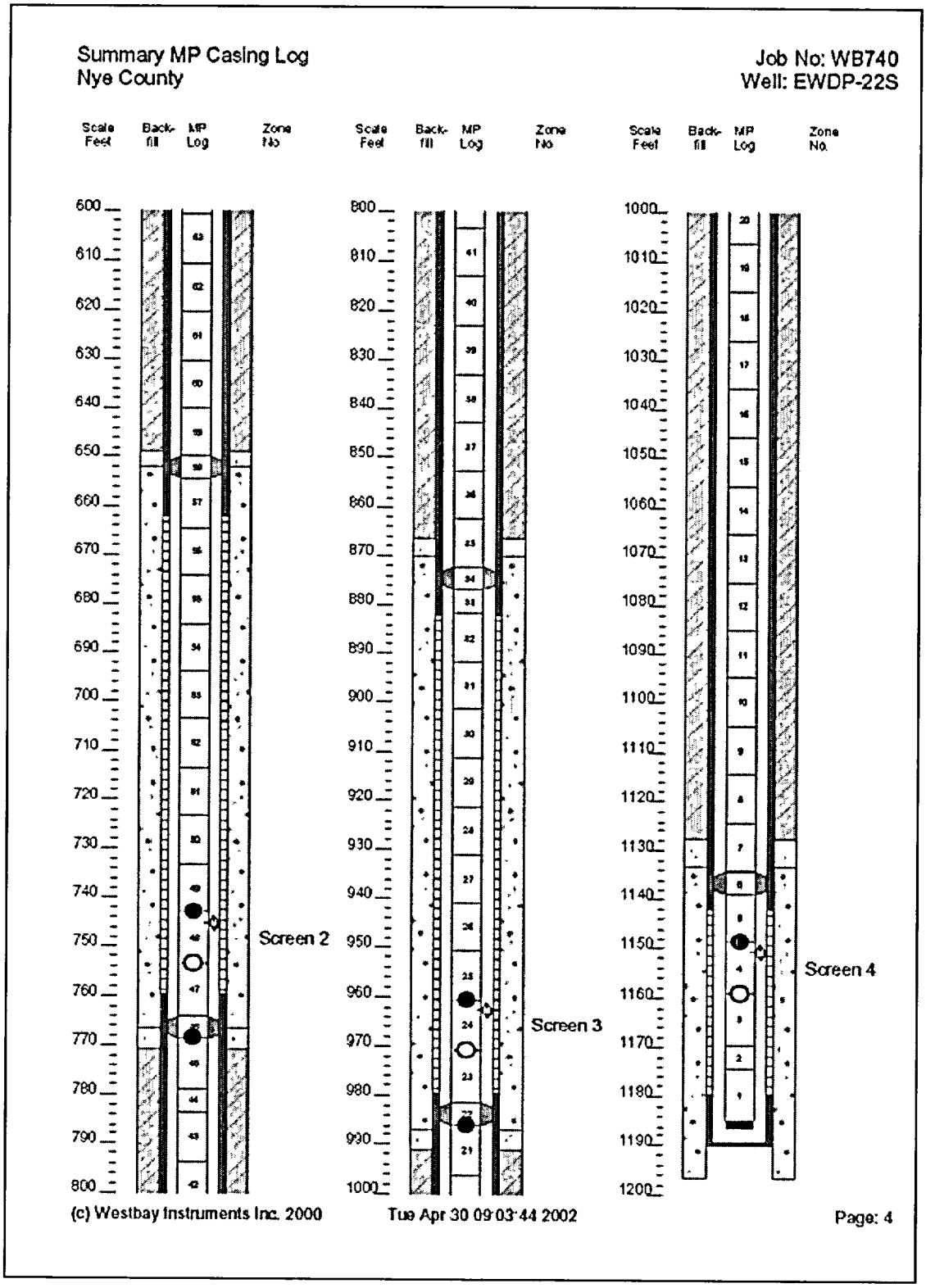

Figure C3
Westbay® Summary Casing Log for Well NC-EWDP-22S (4 of 4)

APPENDIX D
GEOLOGIC LOGGING PARAMETERS

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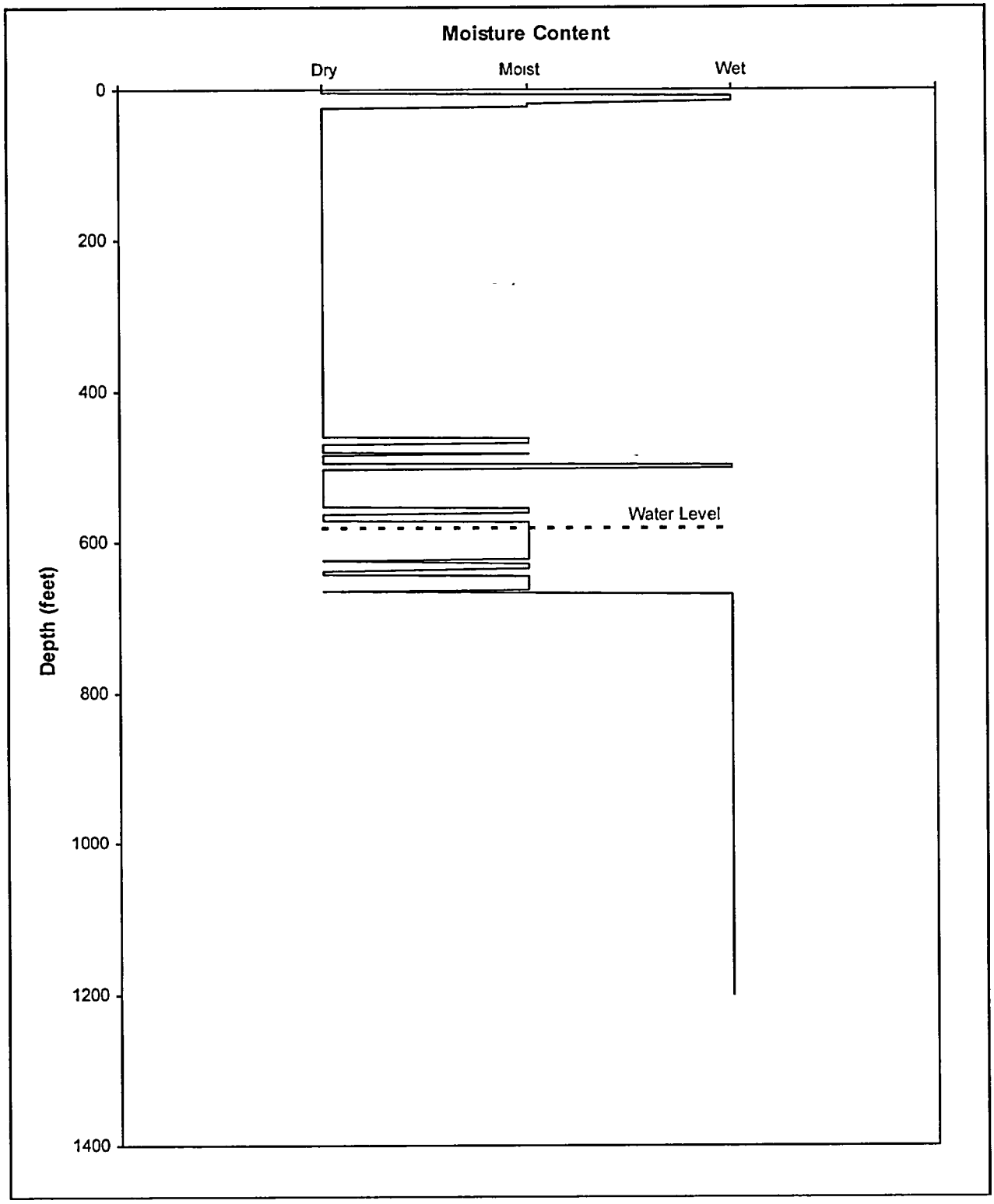

Figure D1
Moisture Content versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-10SA

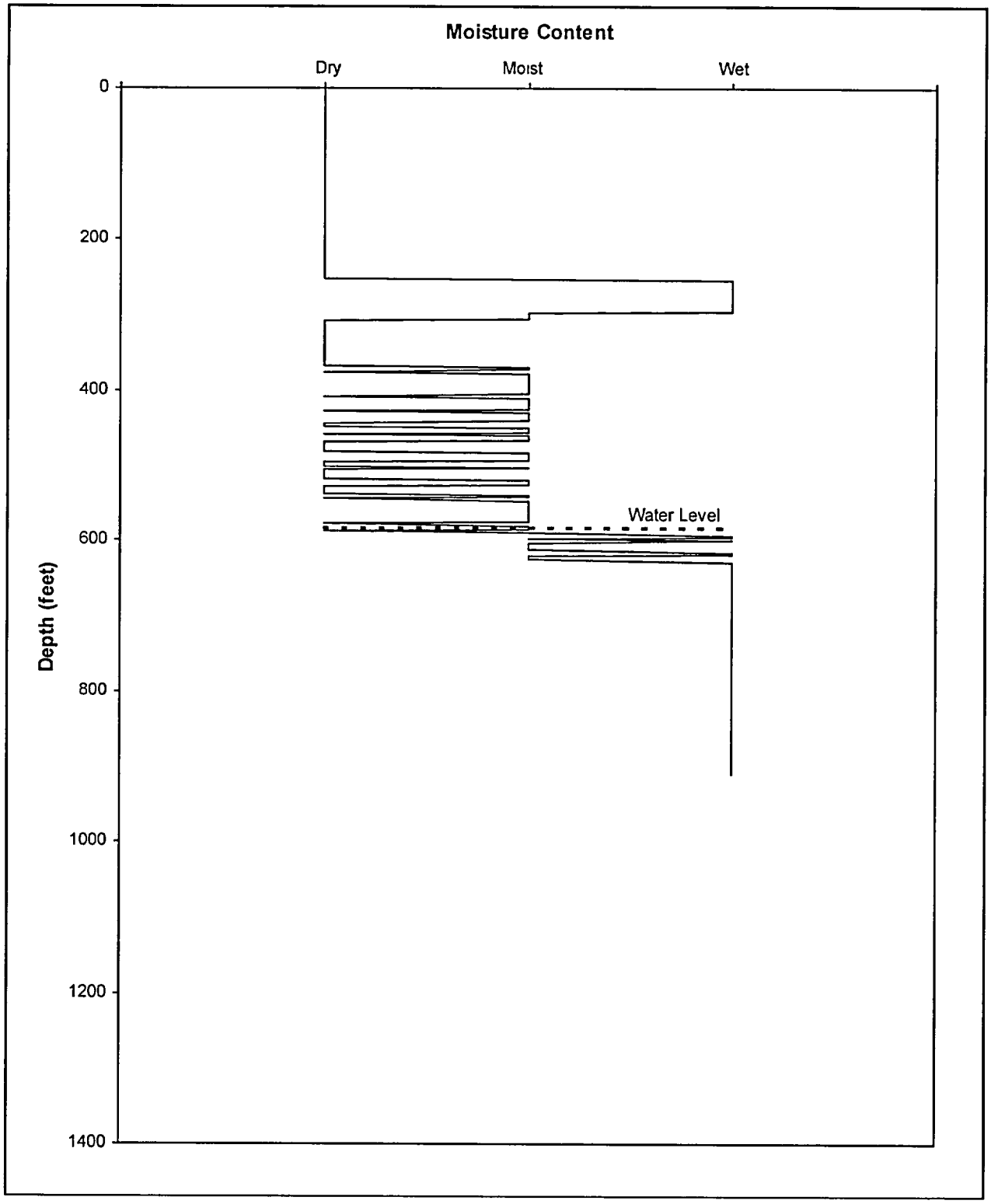

Figure D2
Moisture Content versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-10P

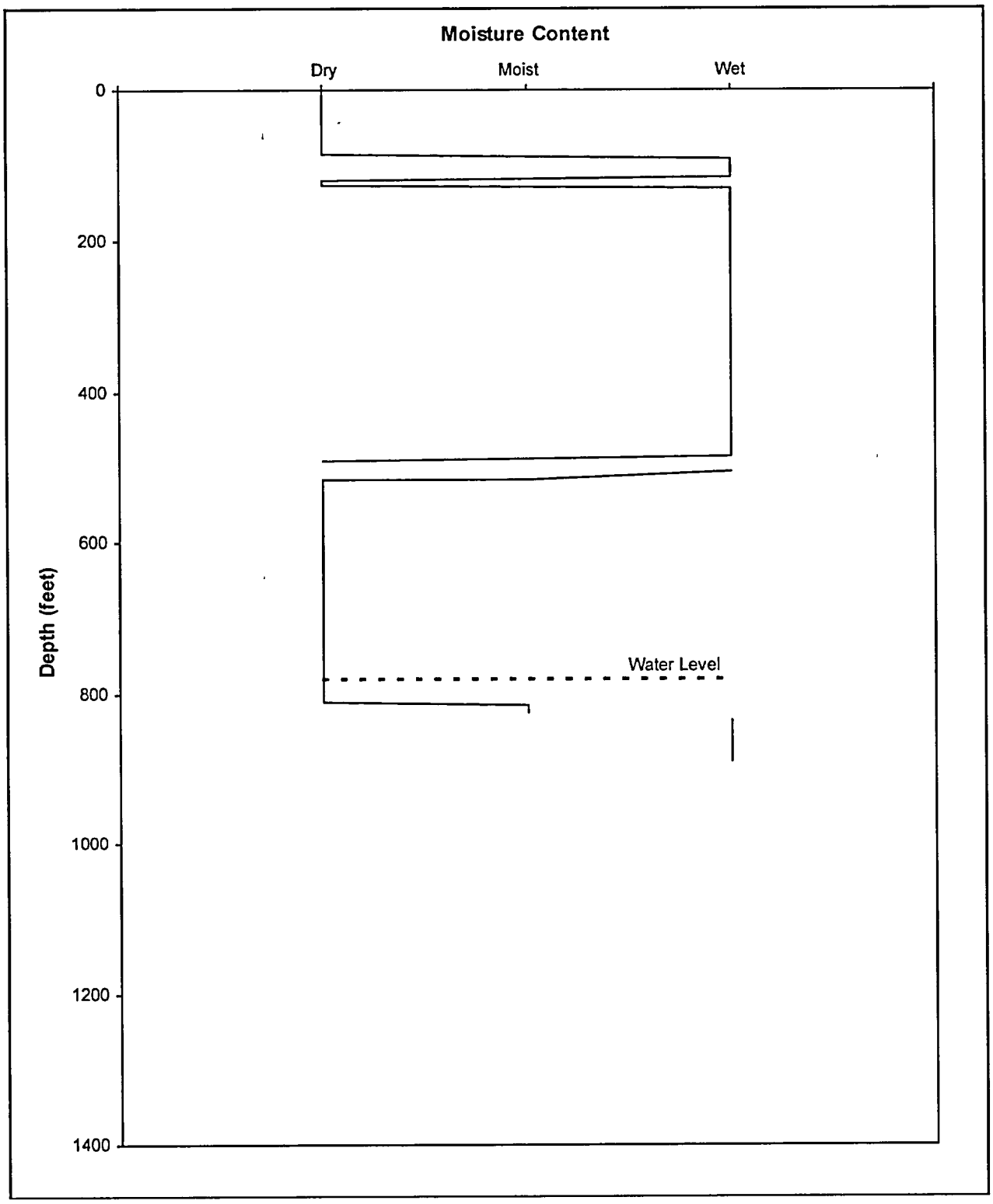

Figure D3
Moisture Content versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-18P

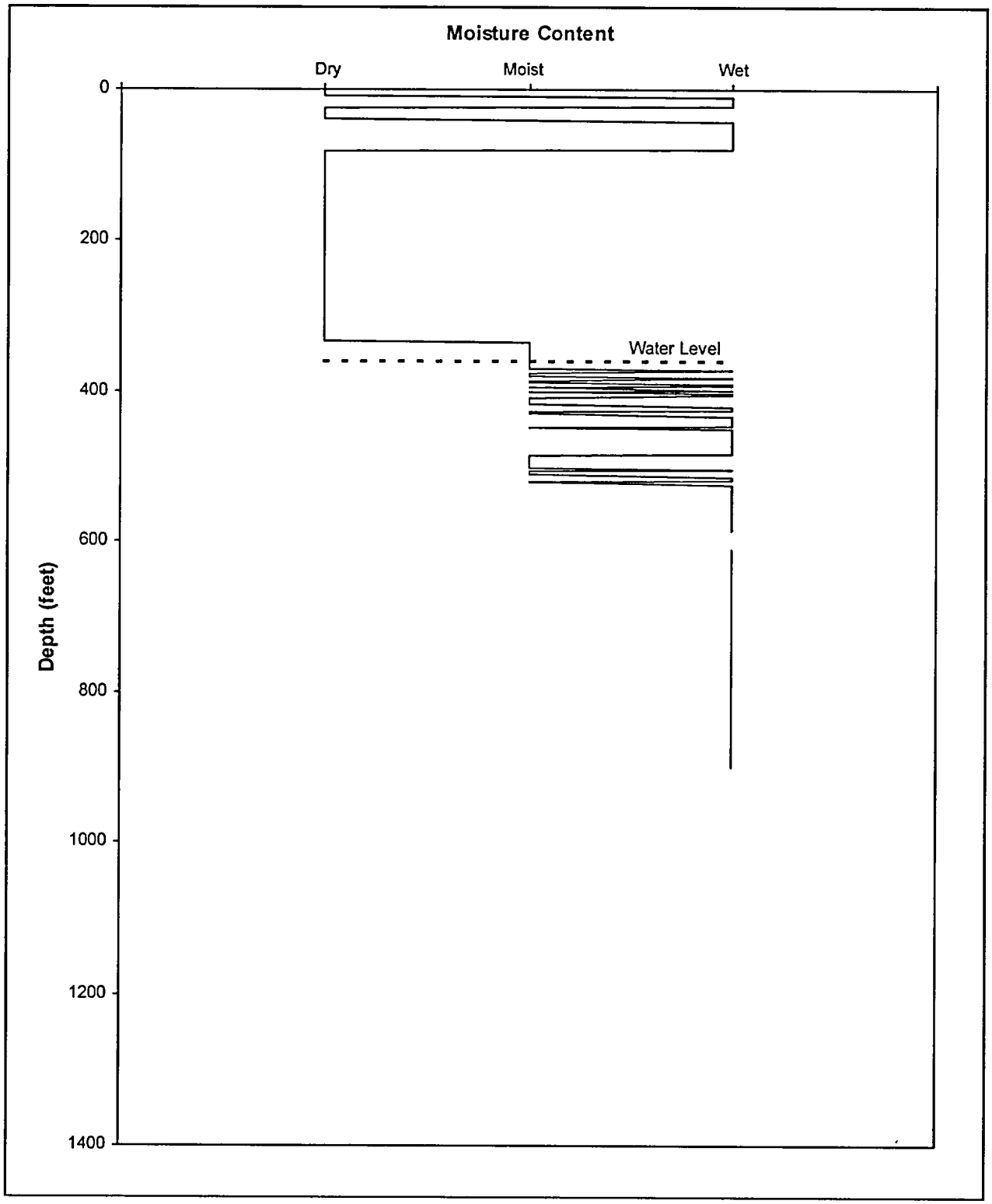

Figure D4
Moisture Content versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-19IM1A

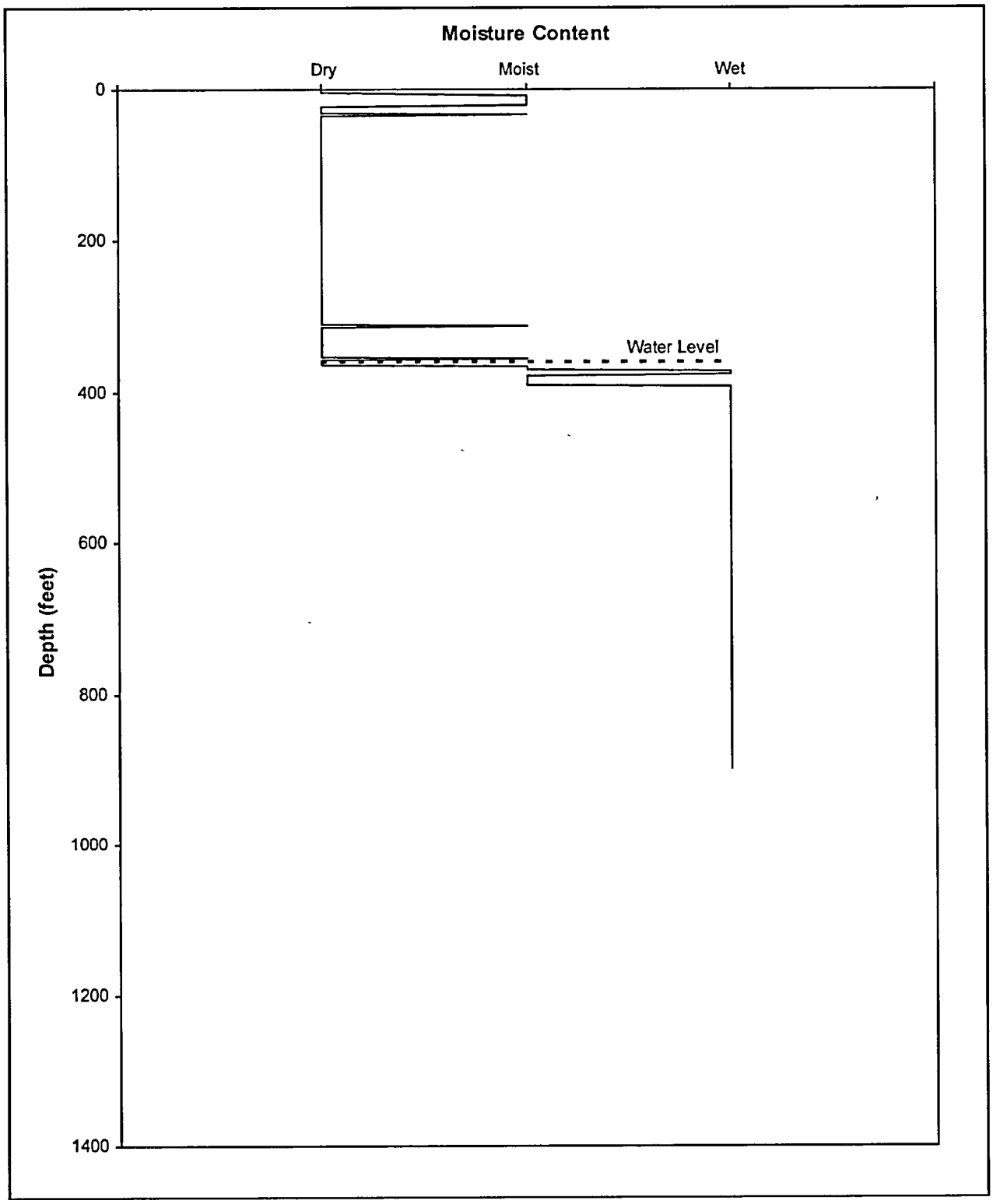

Figure D5
Moisture Content versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-19IM2A

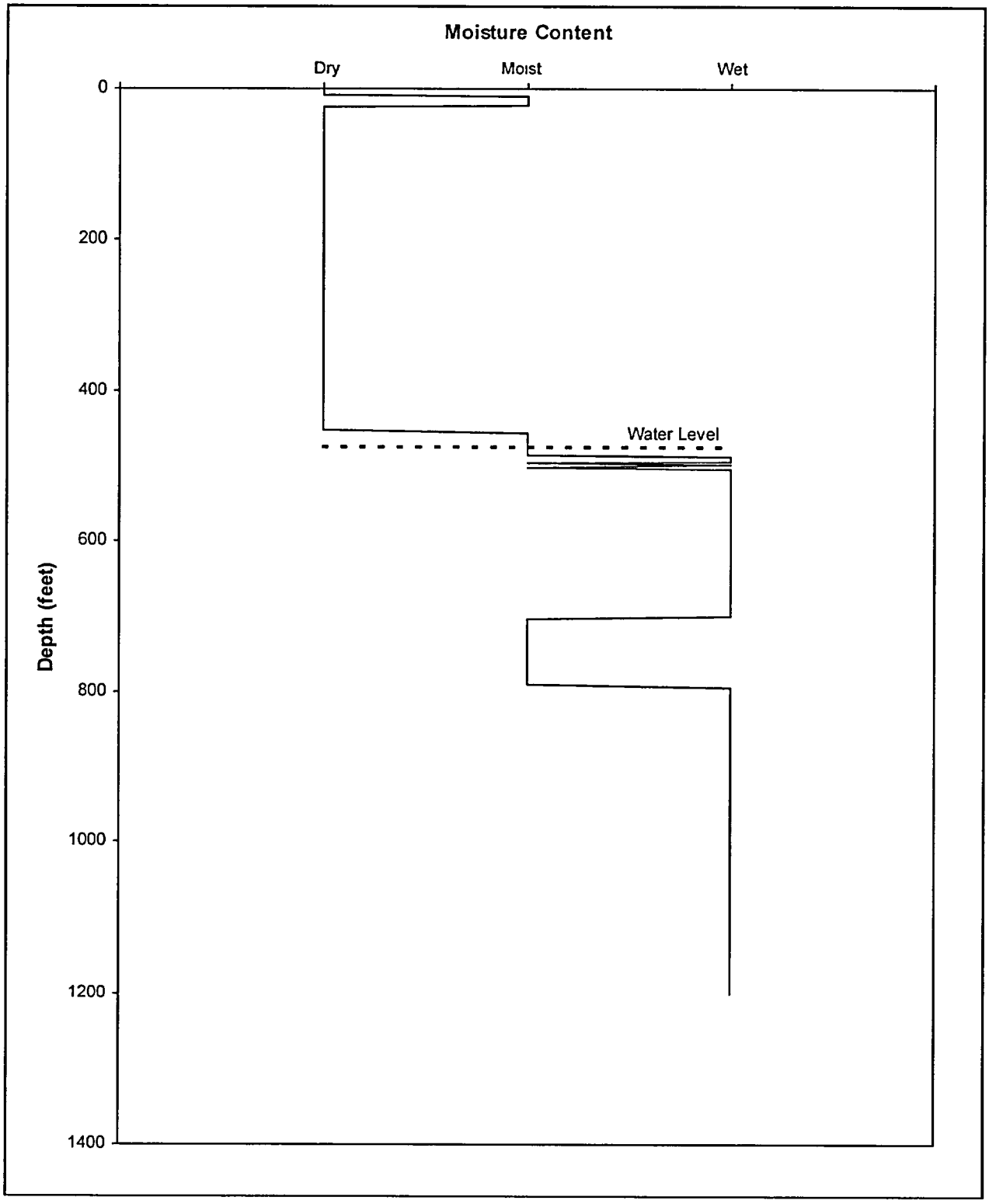

Figure D6
Moisture Content versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-22SA

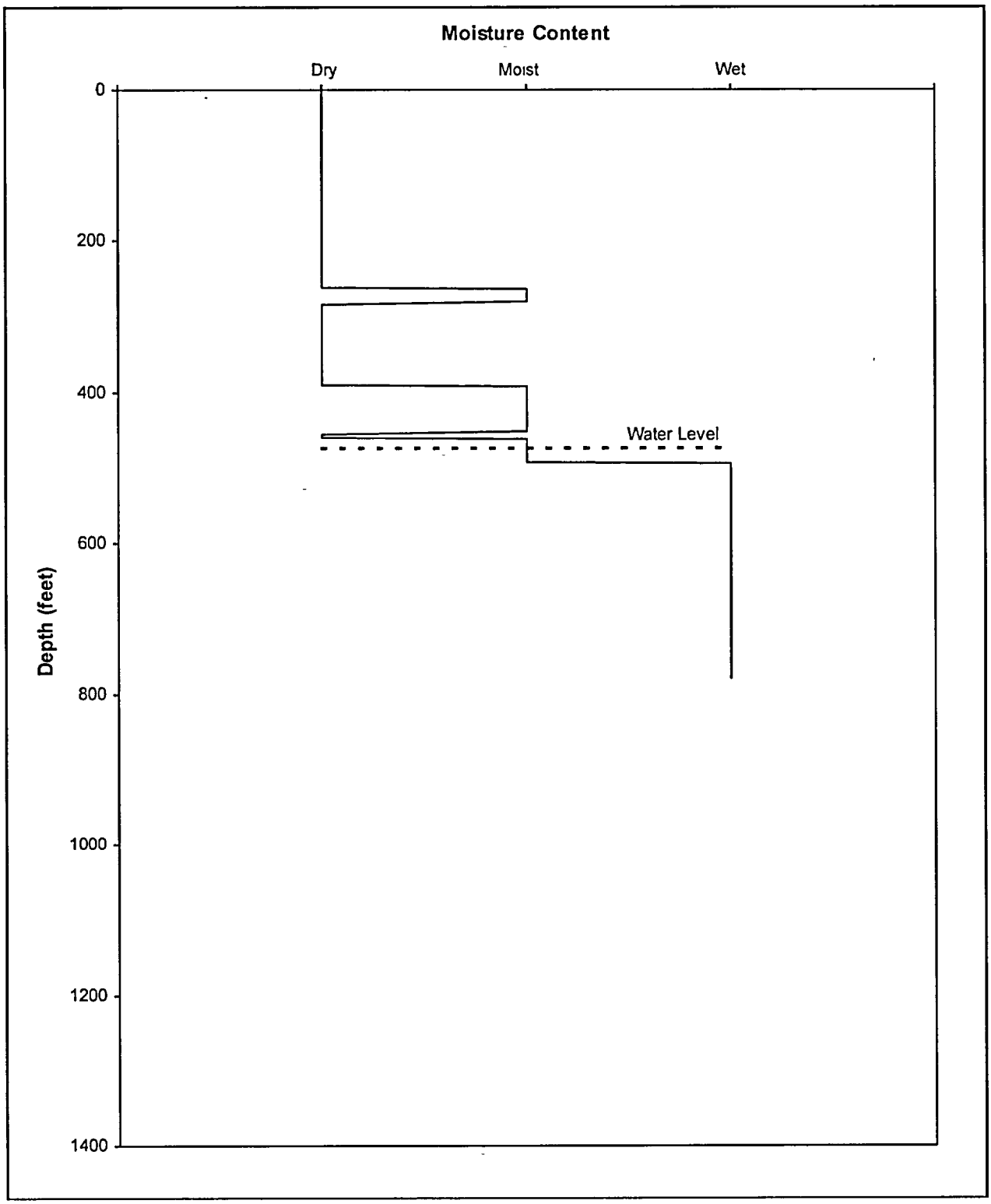

Figure D7
Moisture Content versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-22PA

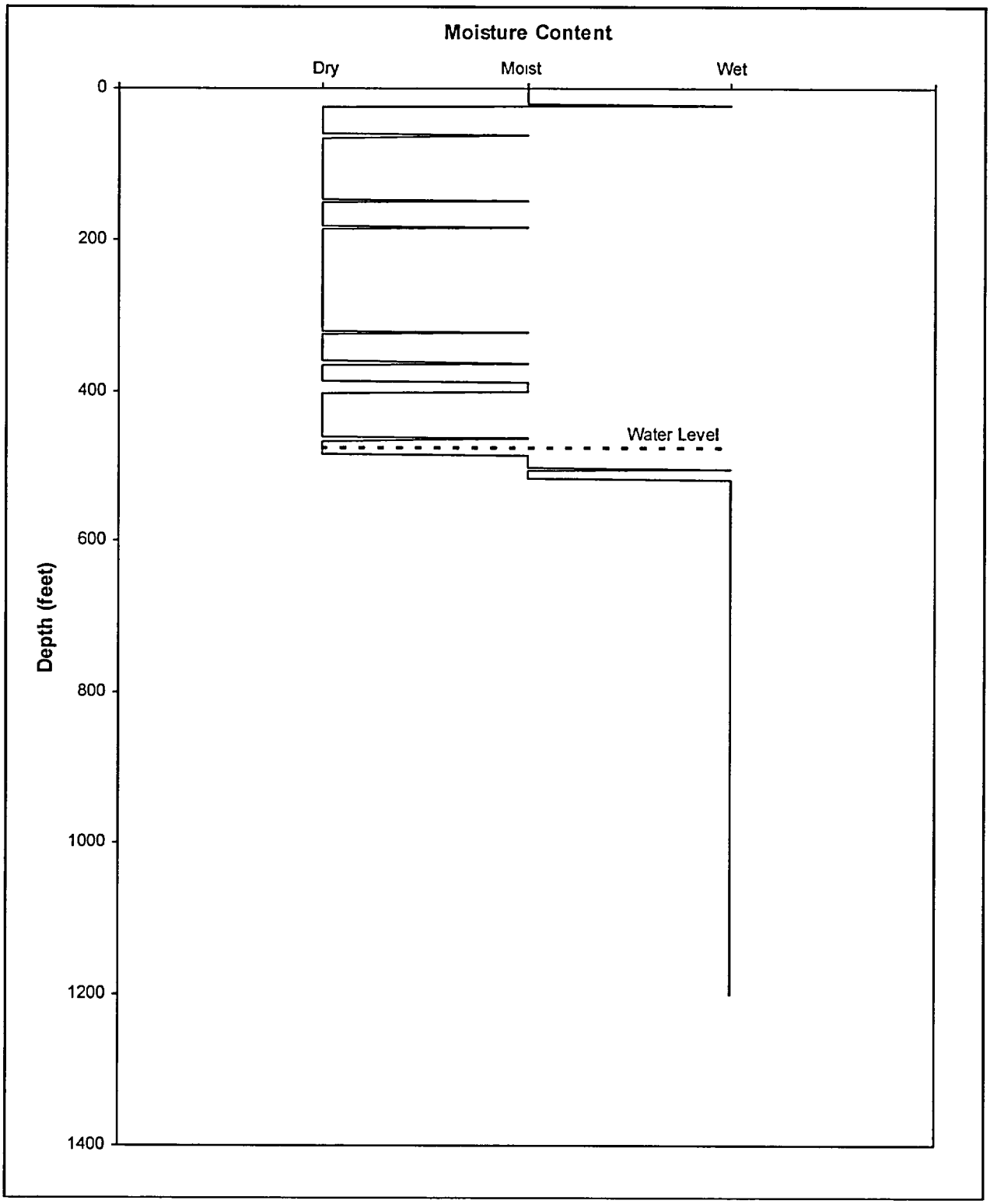

Figure D8
Moisture Content versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-22PB

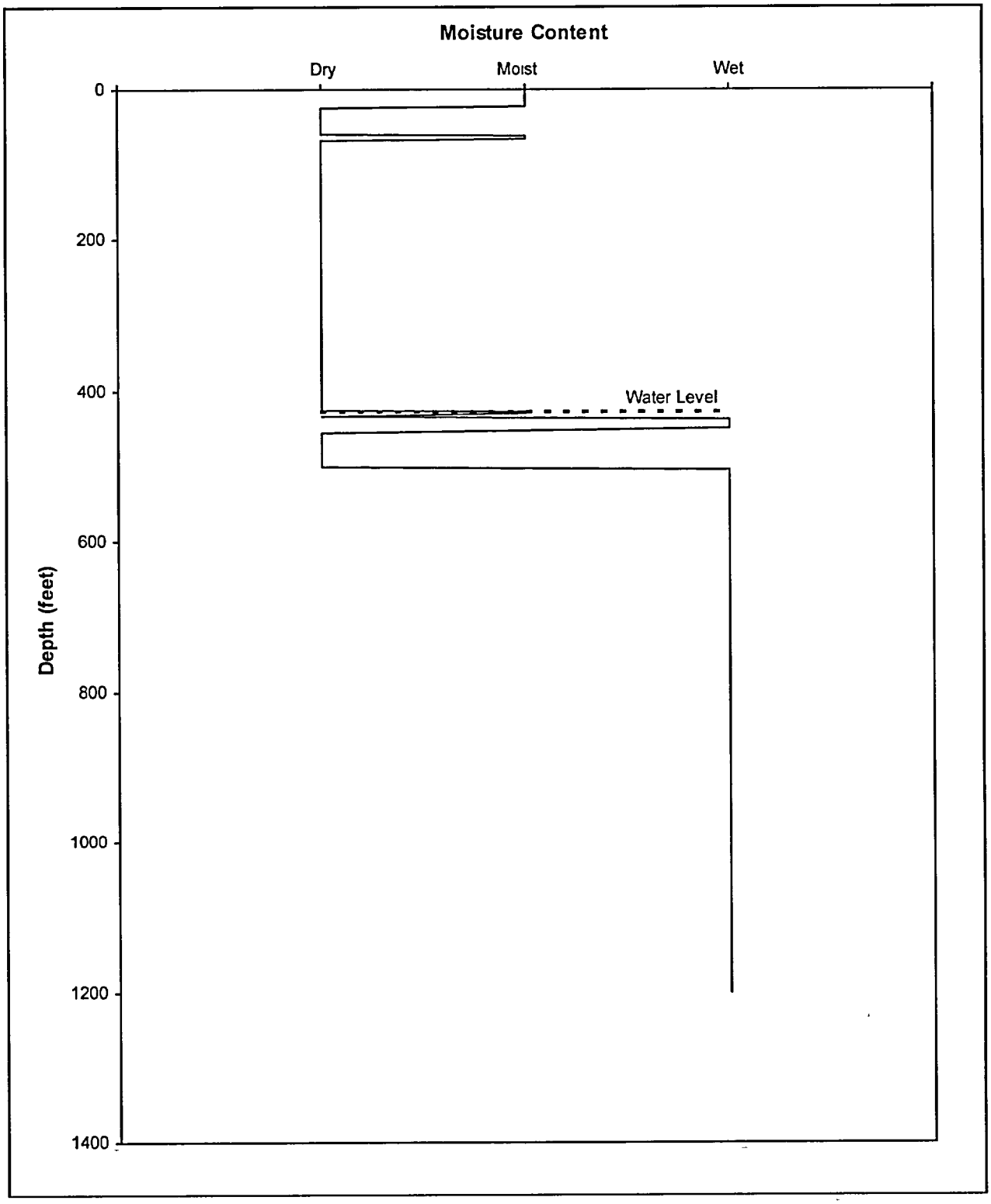

Figure D9
Moisture Content versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-23P

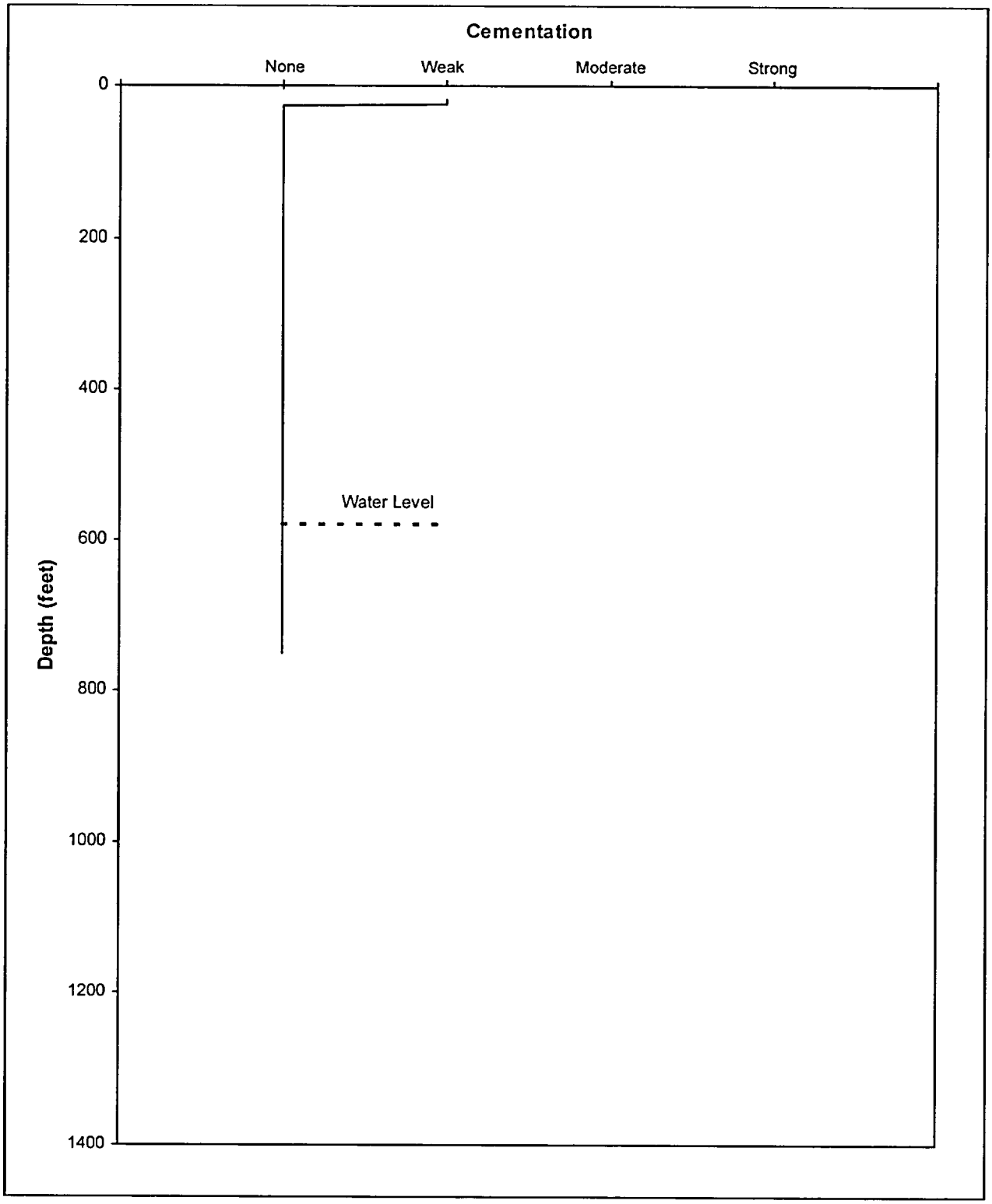

Figure D10
Cementation versus Depth in Alluvium
for Borehole NC-EWDP-10SA

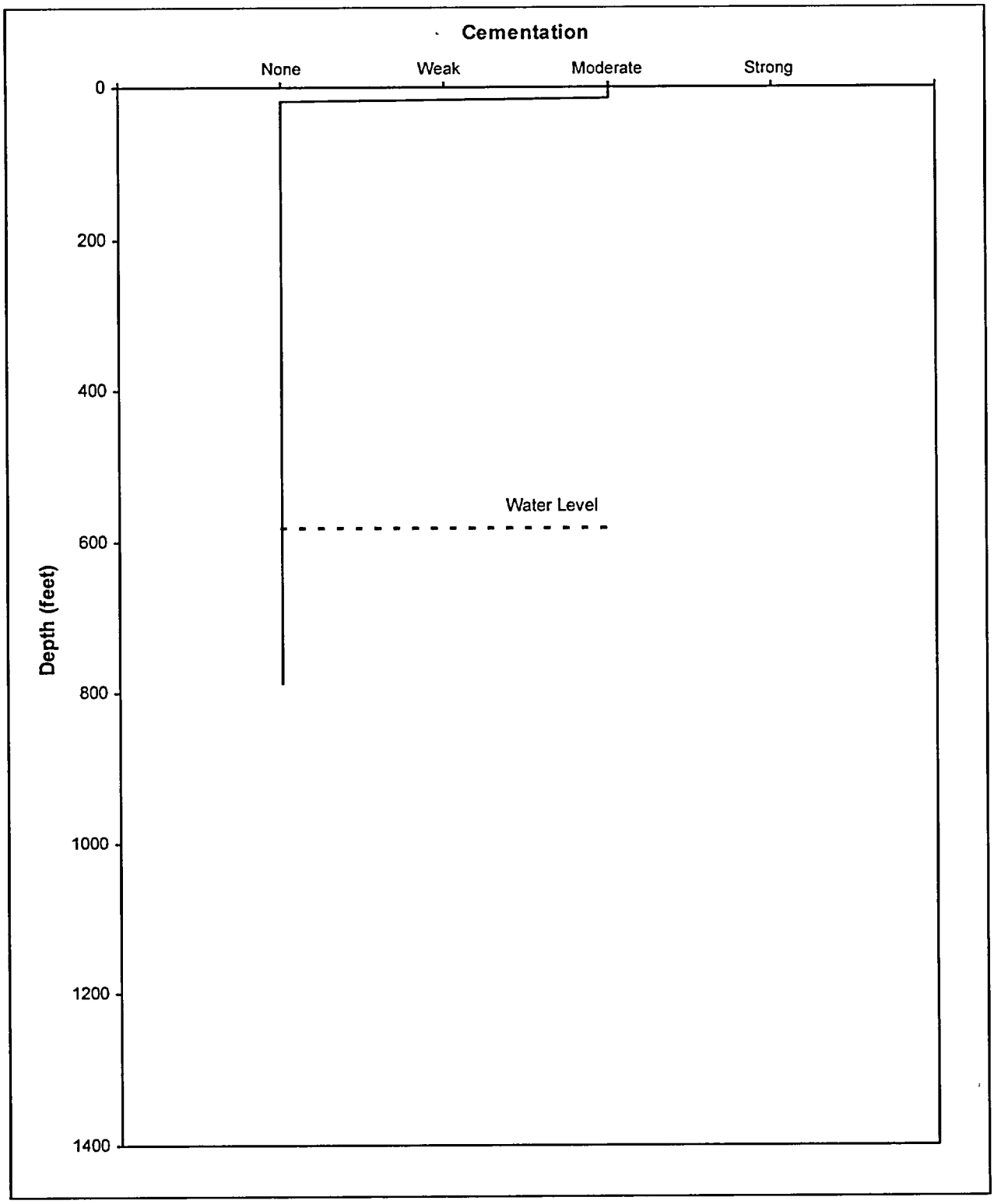

Figure D11
Cementation versus Depth in Alluvium
for Borehole NC-EWDP-10P

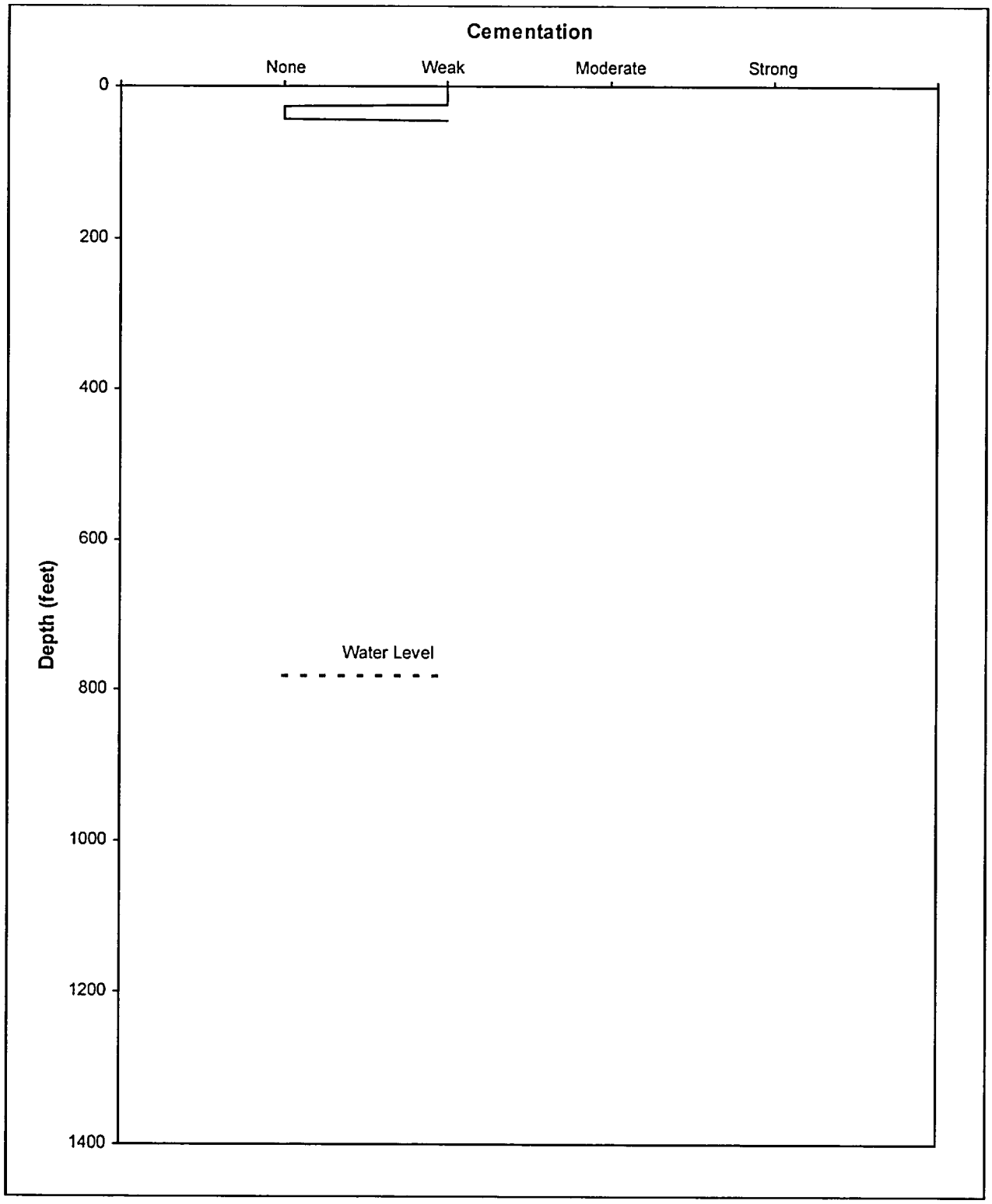

Figure D12
Cementation versus Depth in Alluvium
for Borehole NC-EWDP-18P

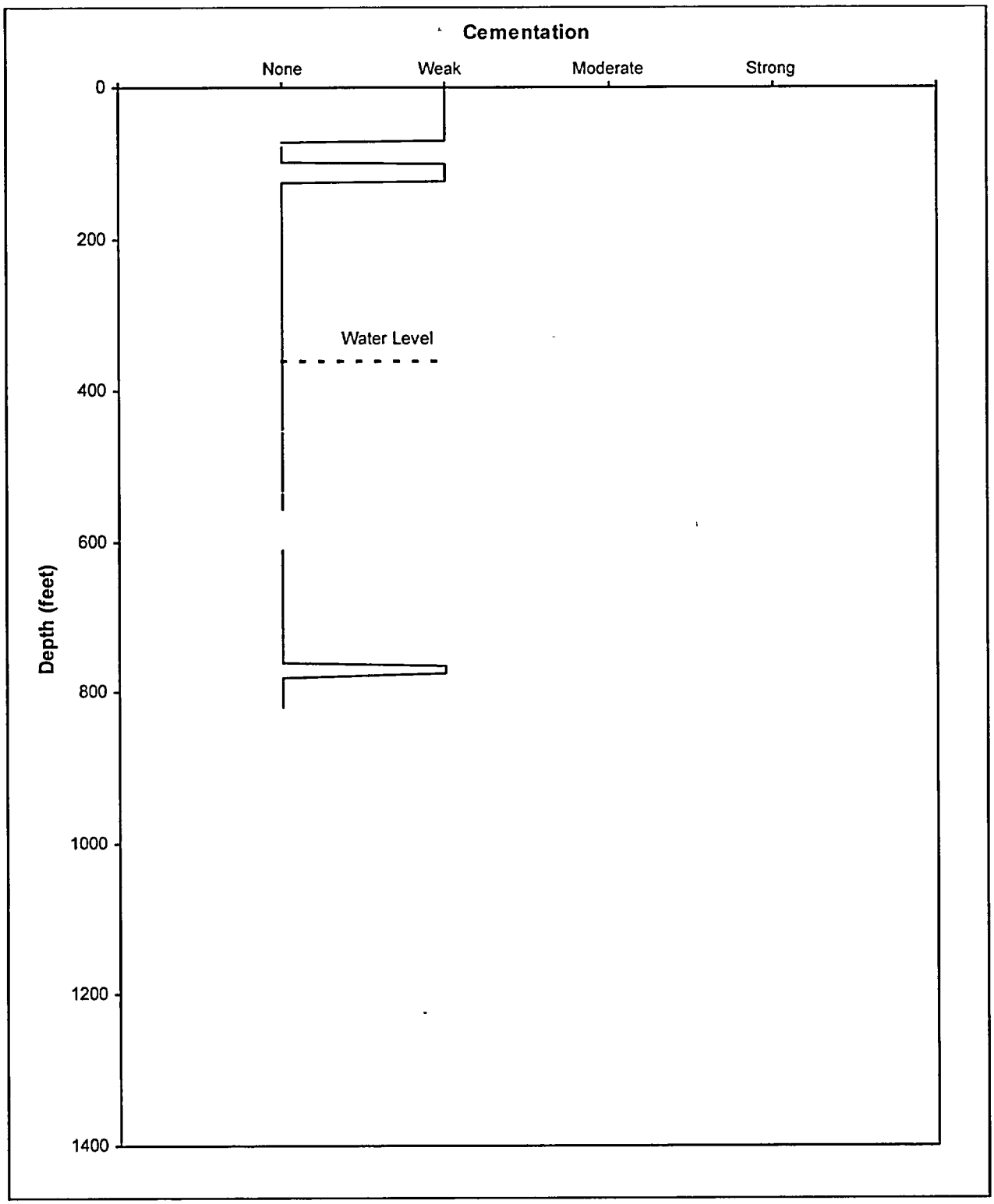

Figure D13
Cementation versus Depth in Alluvium
for Borehole NC-EWDP-19IM1A

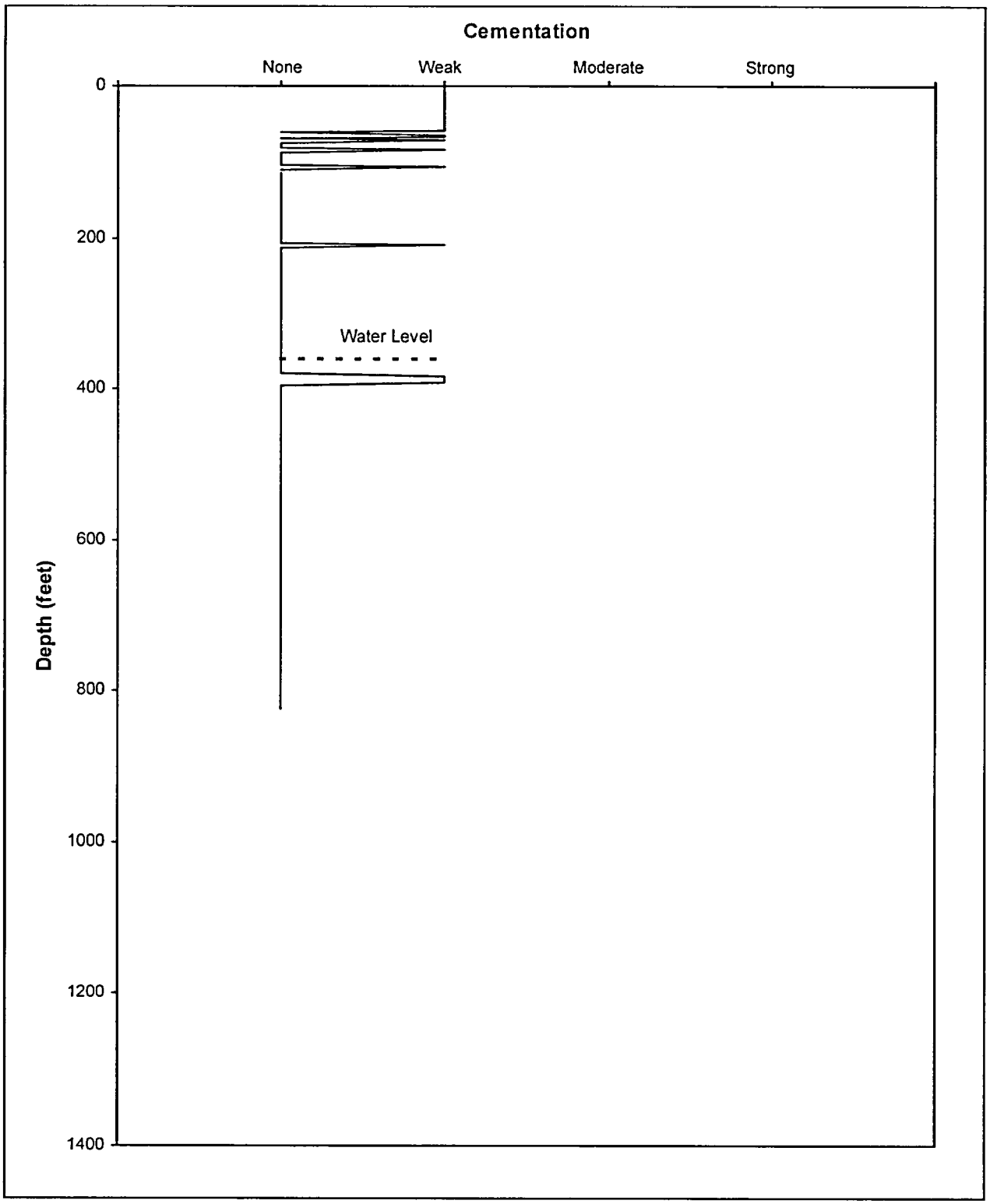

Figure D14
Cementation versus Depth in Alluvium
for Borehole NC-EWDP-19IM2A

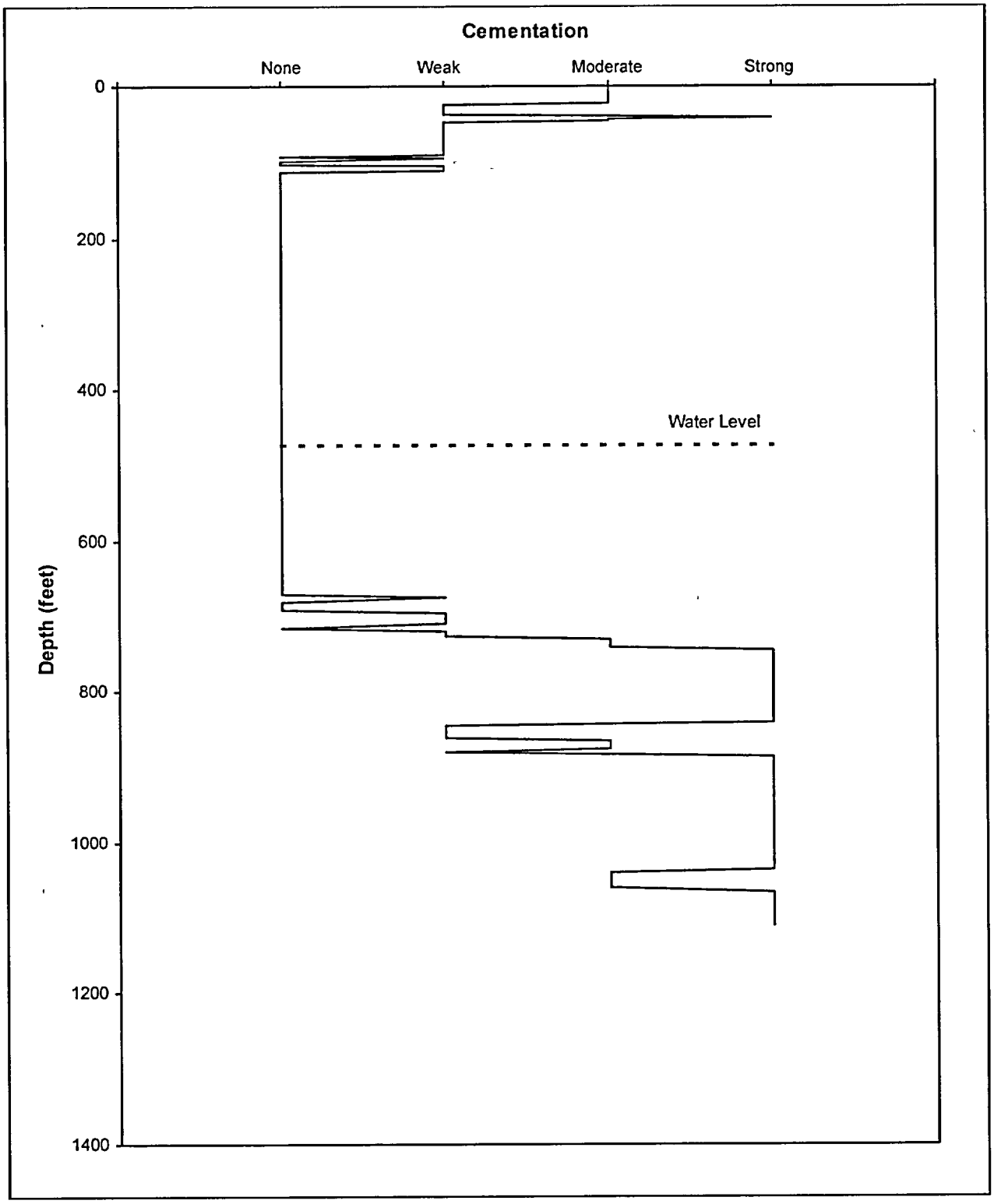

Figure D15
Cementation versus Depth in Alluvium
for Borehole NC-EWDP-22SA

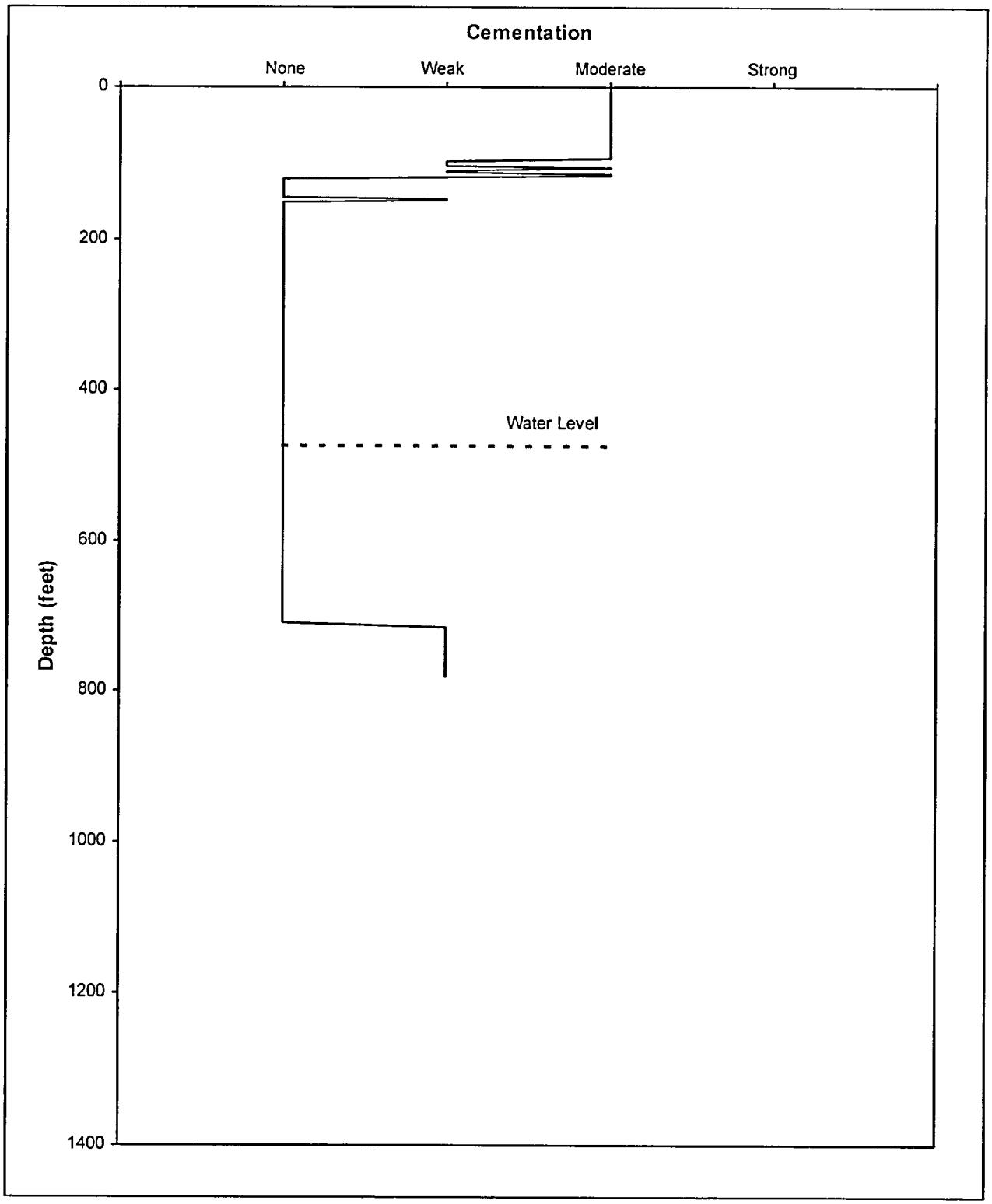

Figure D16
Cementation versus Depth in Alluvium
for Borehole NC-EWDP-22PA

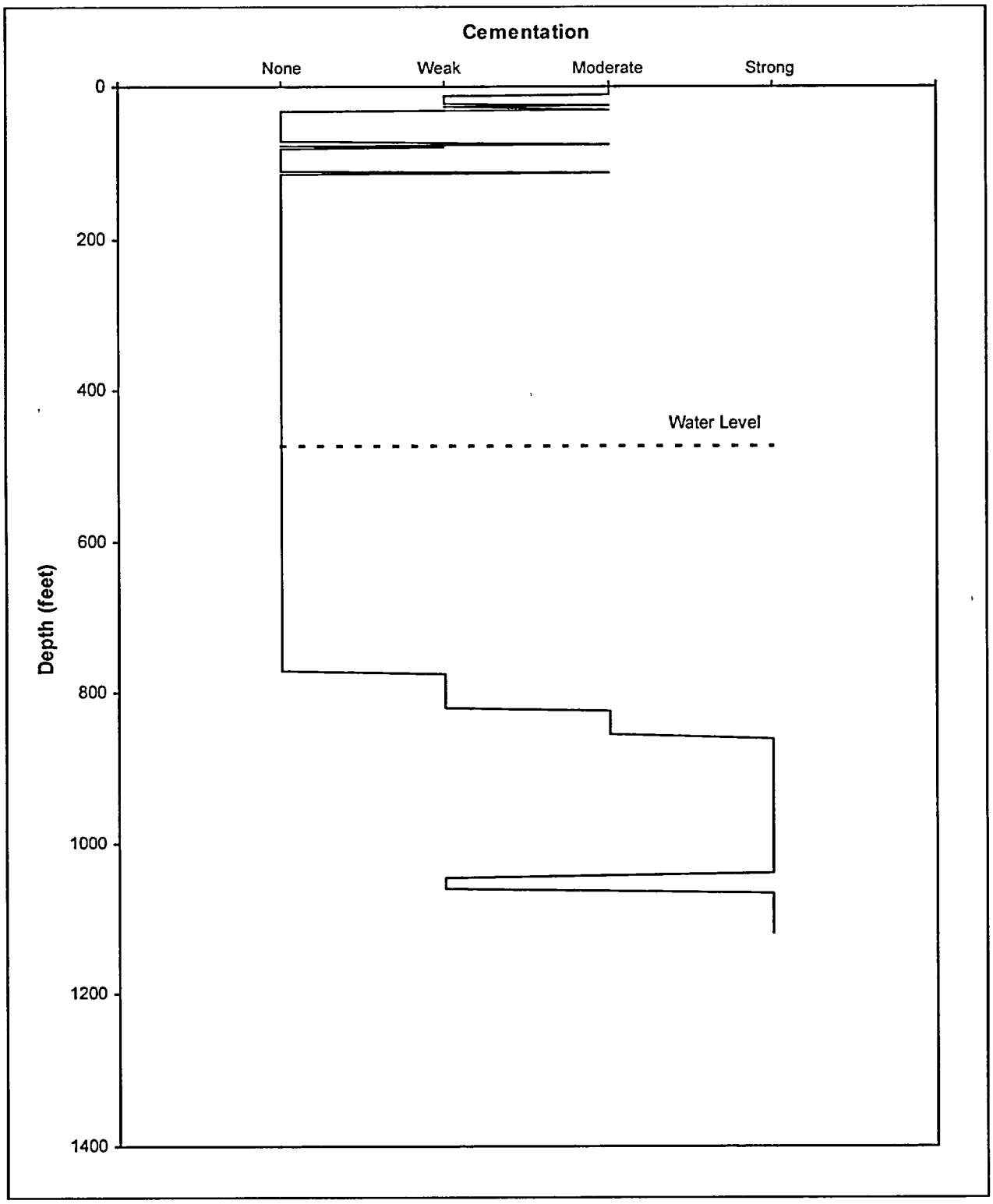

Figure D17
Cementation versus Depth in Alluvium
for Borehole NC-EWDP-22PB

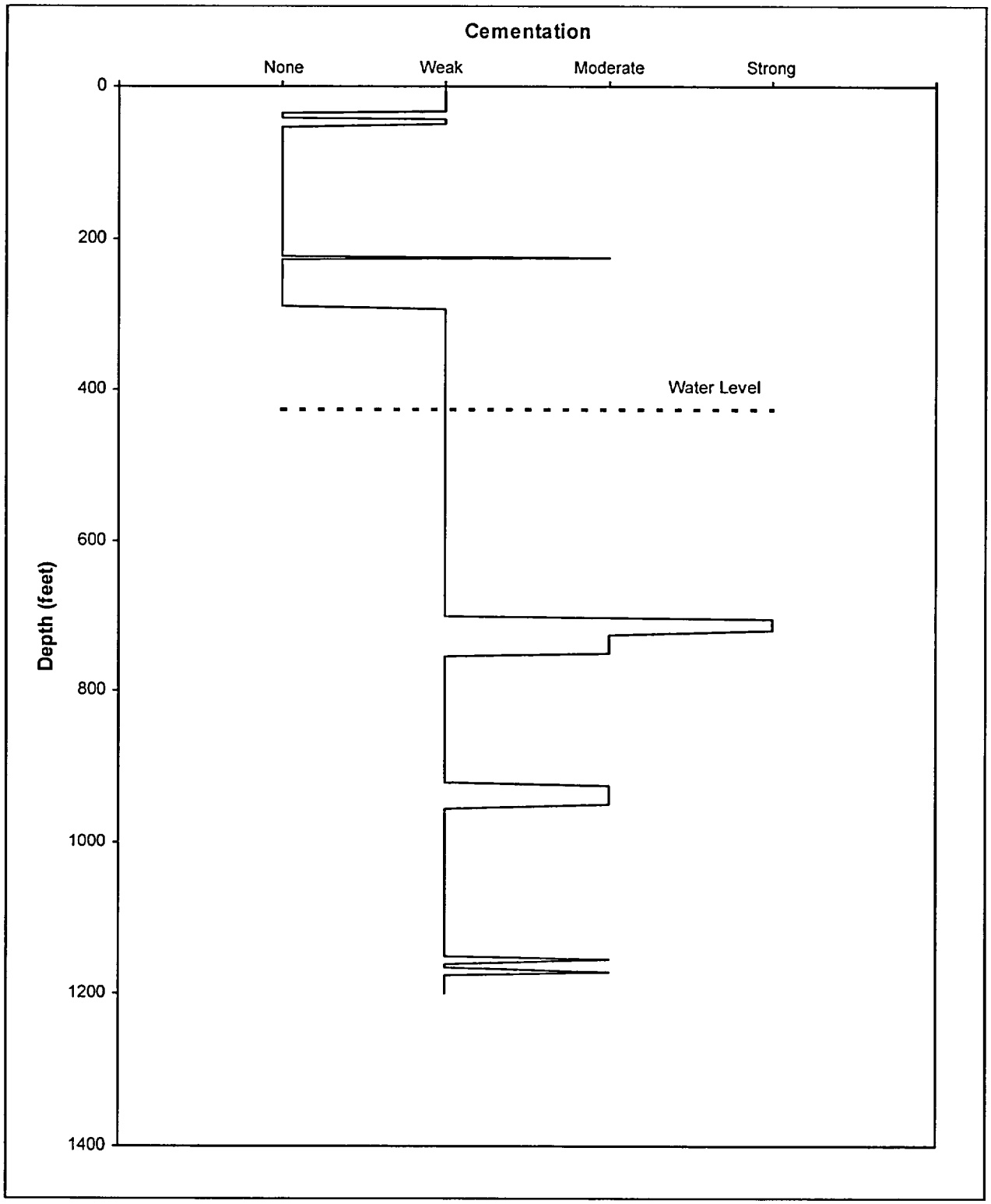

Figure D18
Cementation versus Depth in Alluvium
for Borehole NC-EWDP-23P

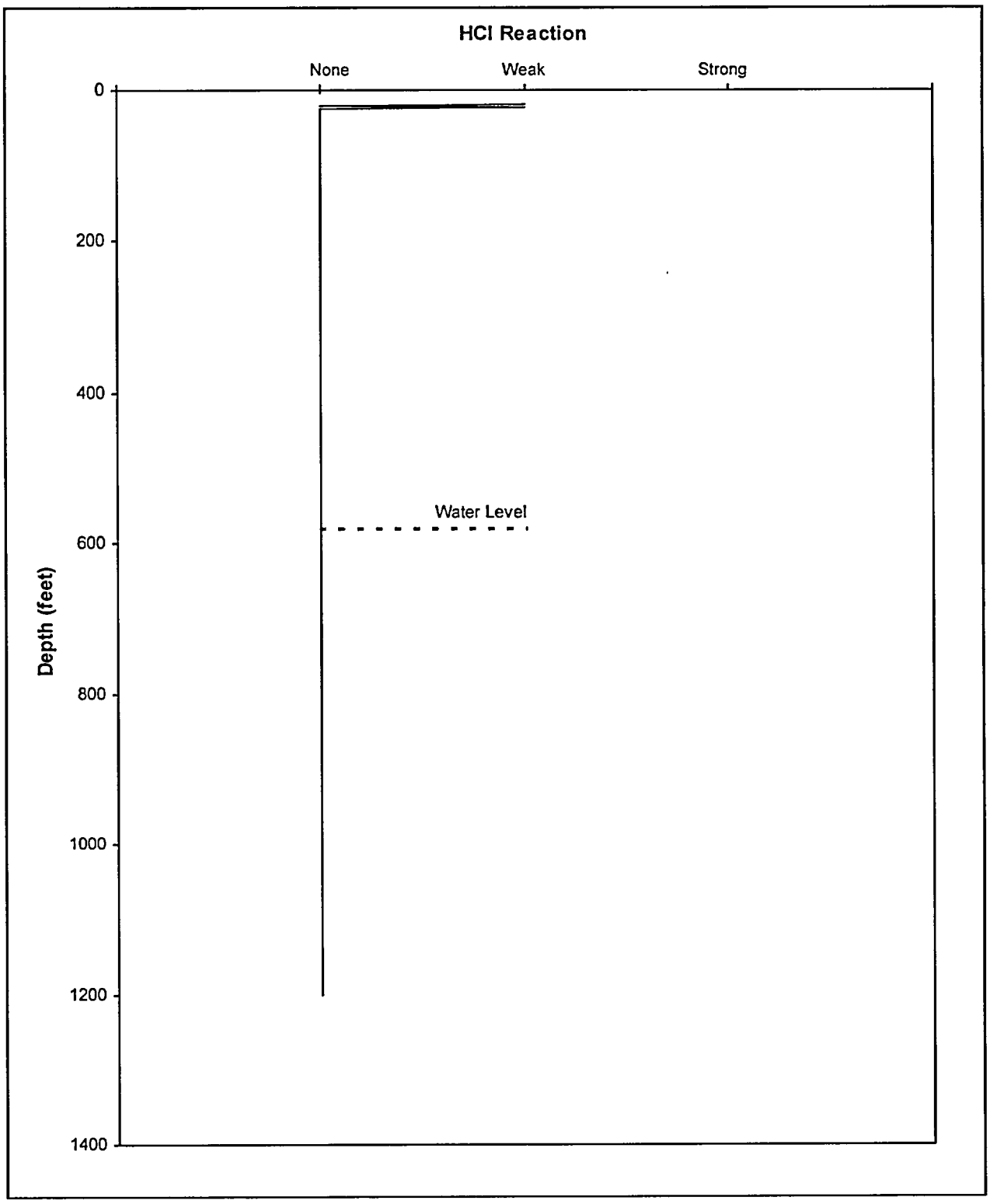

Figure D19
HCl Reaction versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-10SA

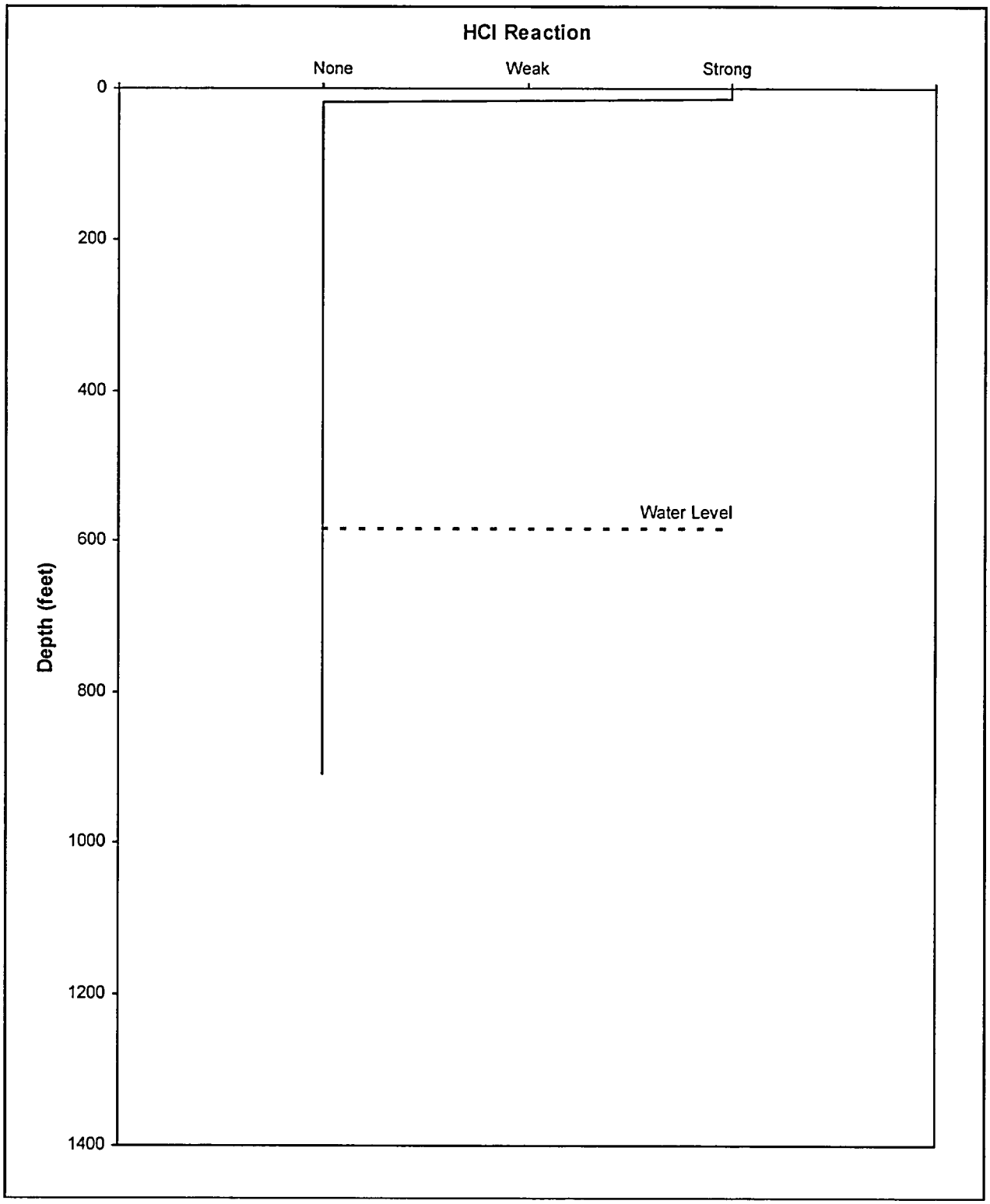

Figure D20
HCl Reaction versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-10P

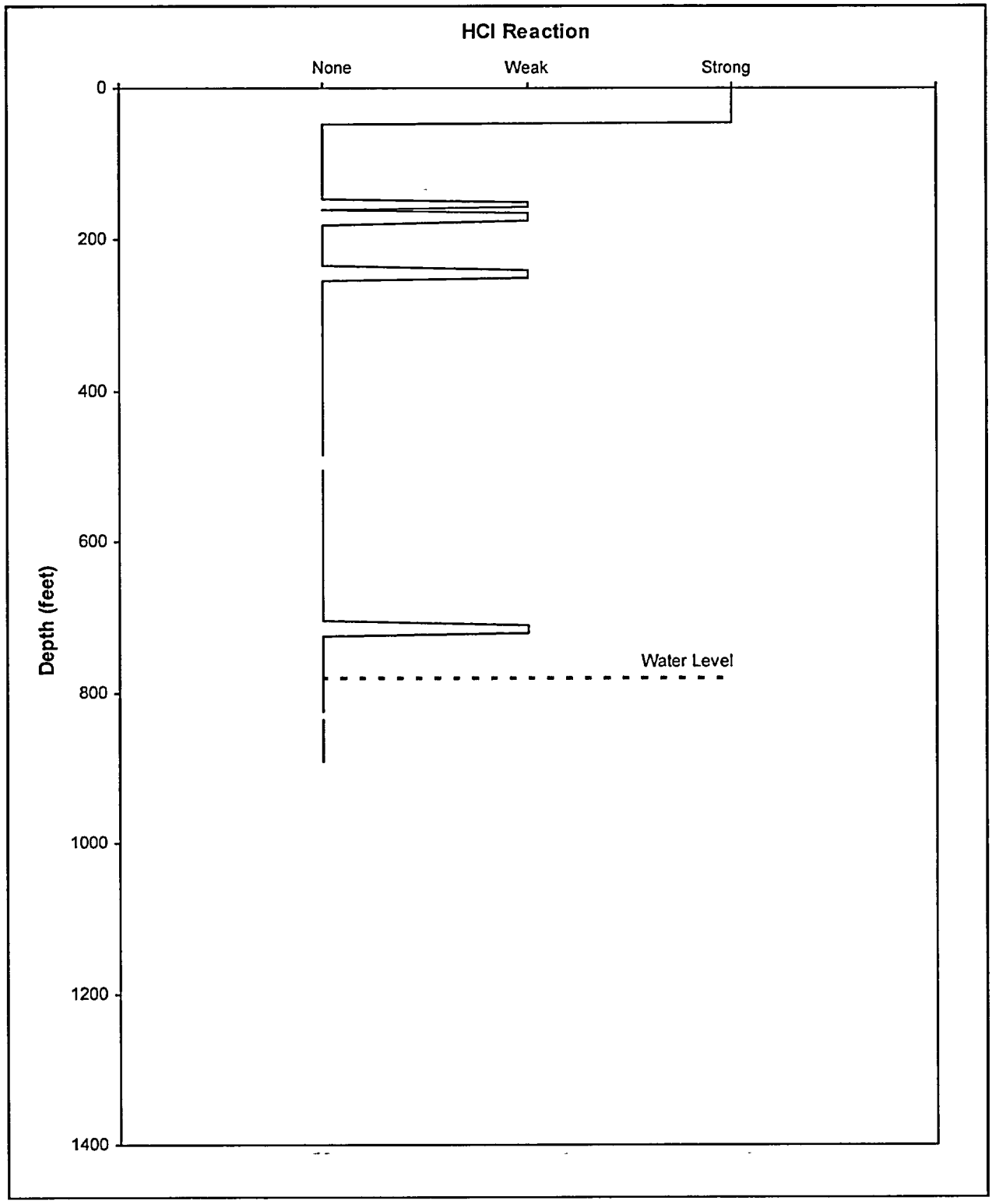

Figure D21
HCl Reaction versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-18P

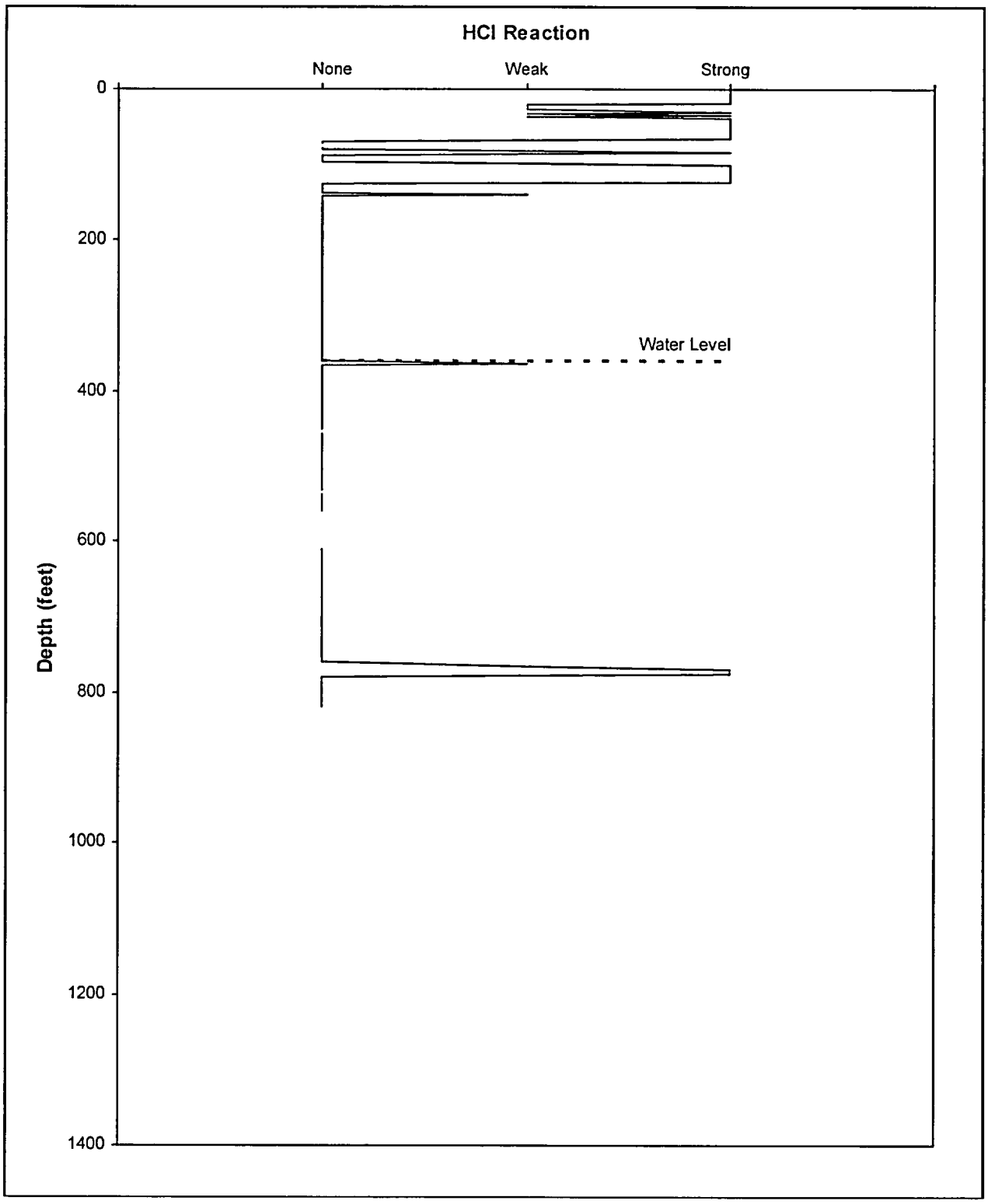

Figure D22
HCl Reaction versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-19IM1A

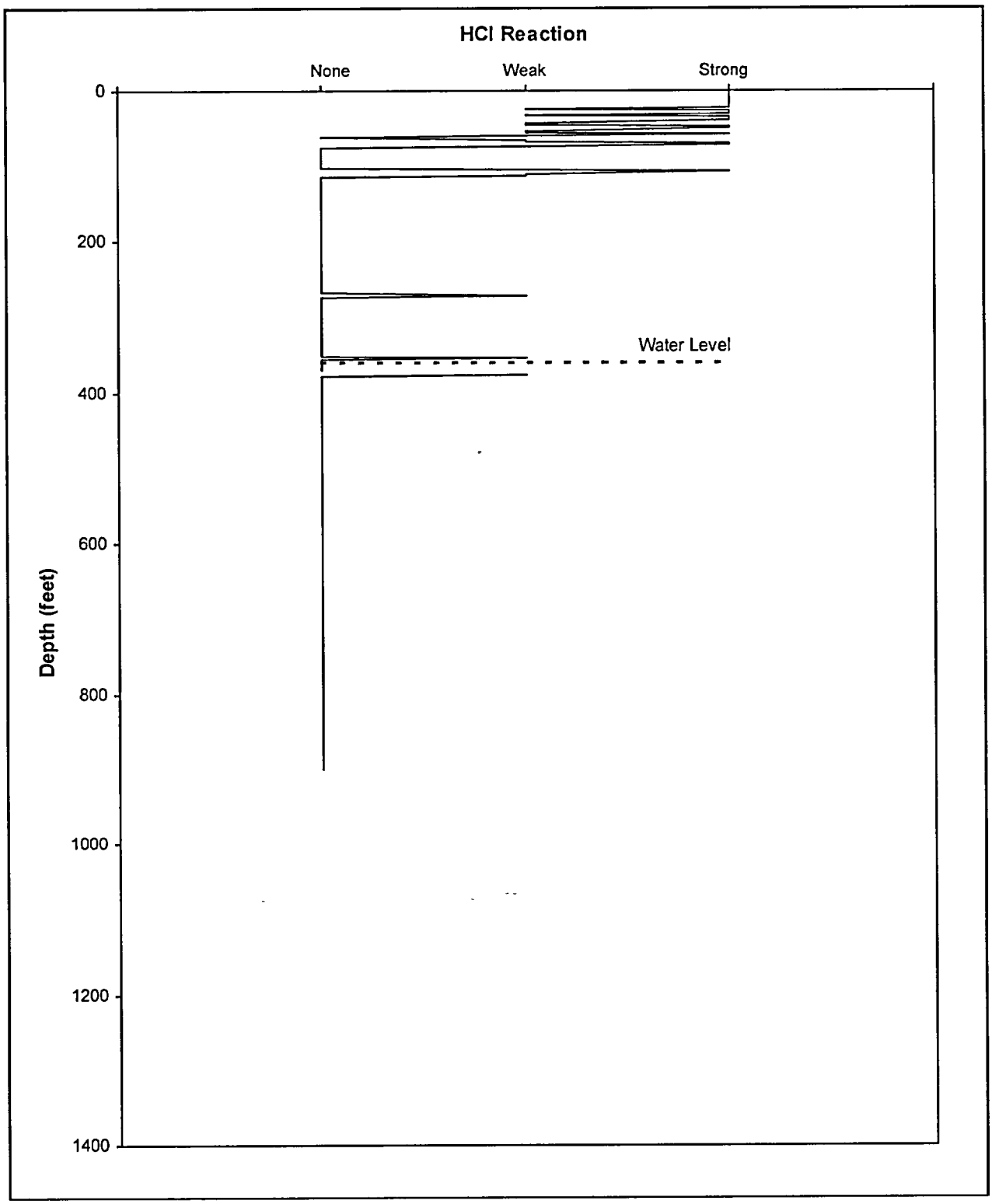

Figure D23
HCl Reaction versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-19IM2A

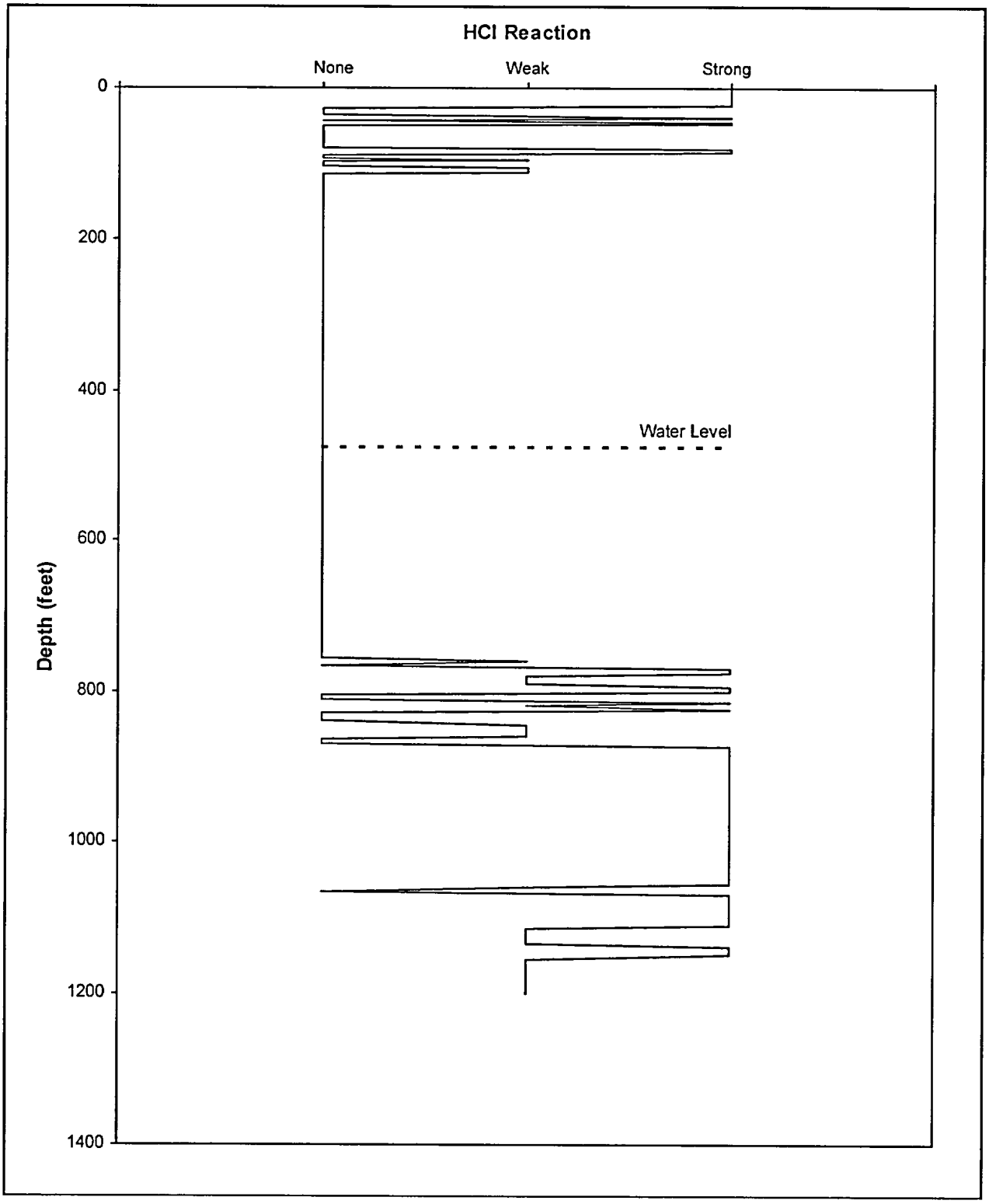

Figure D24
HCl Reaction versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-22SA

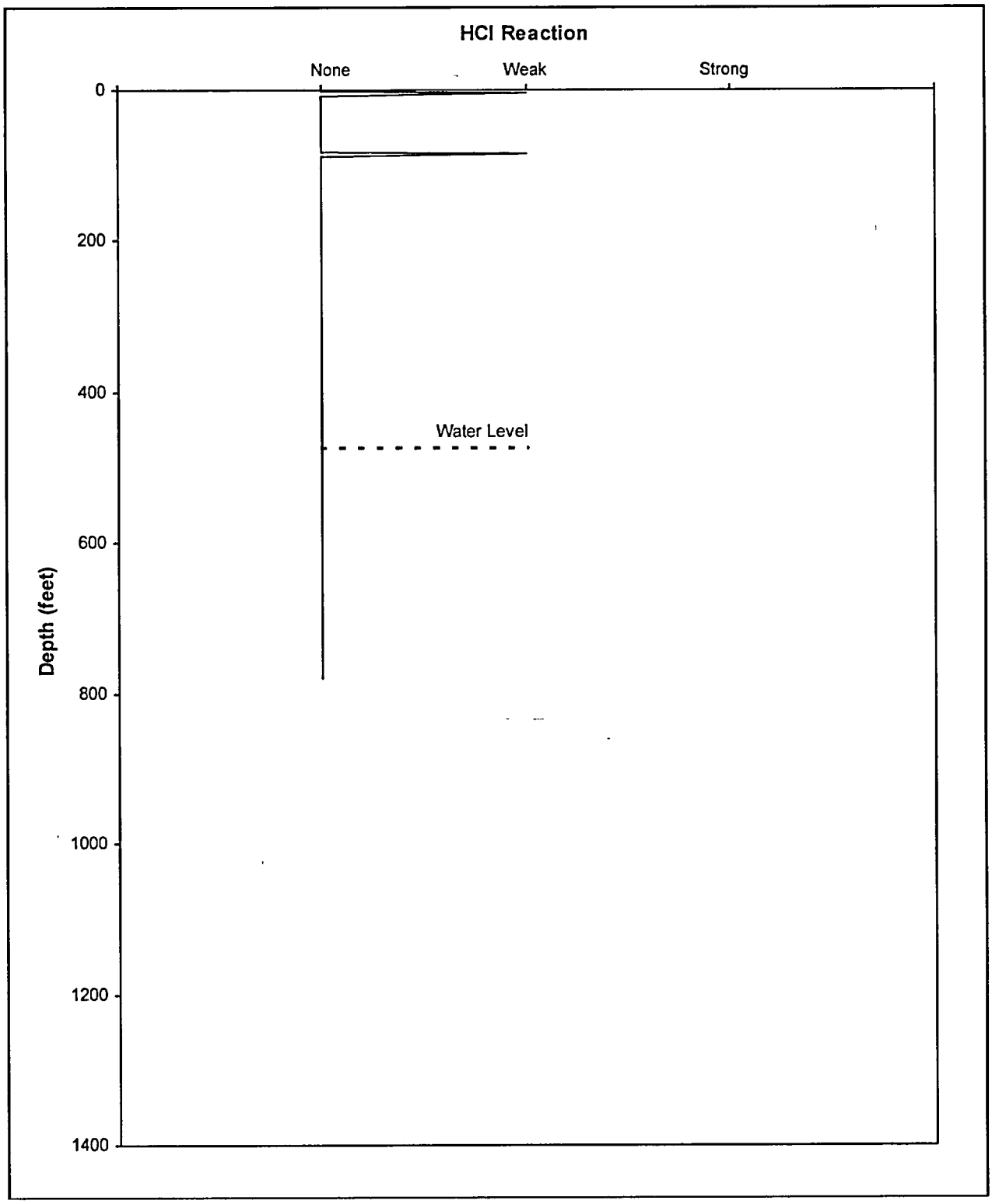

Figure D25
HCl Reaction versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-22PA

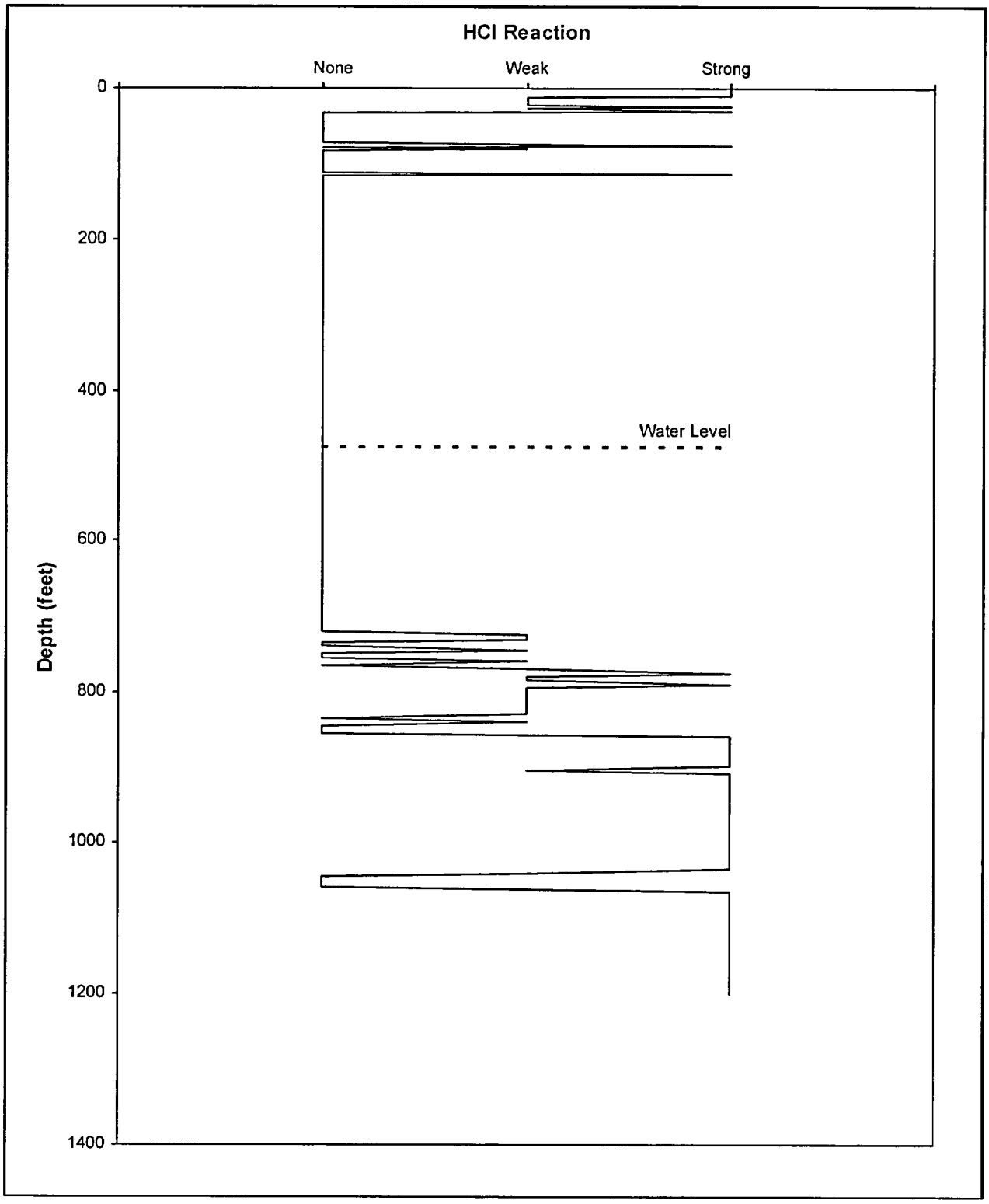

Figure D26
HCl Reaction versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-22PB

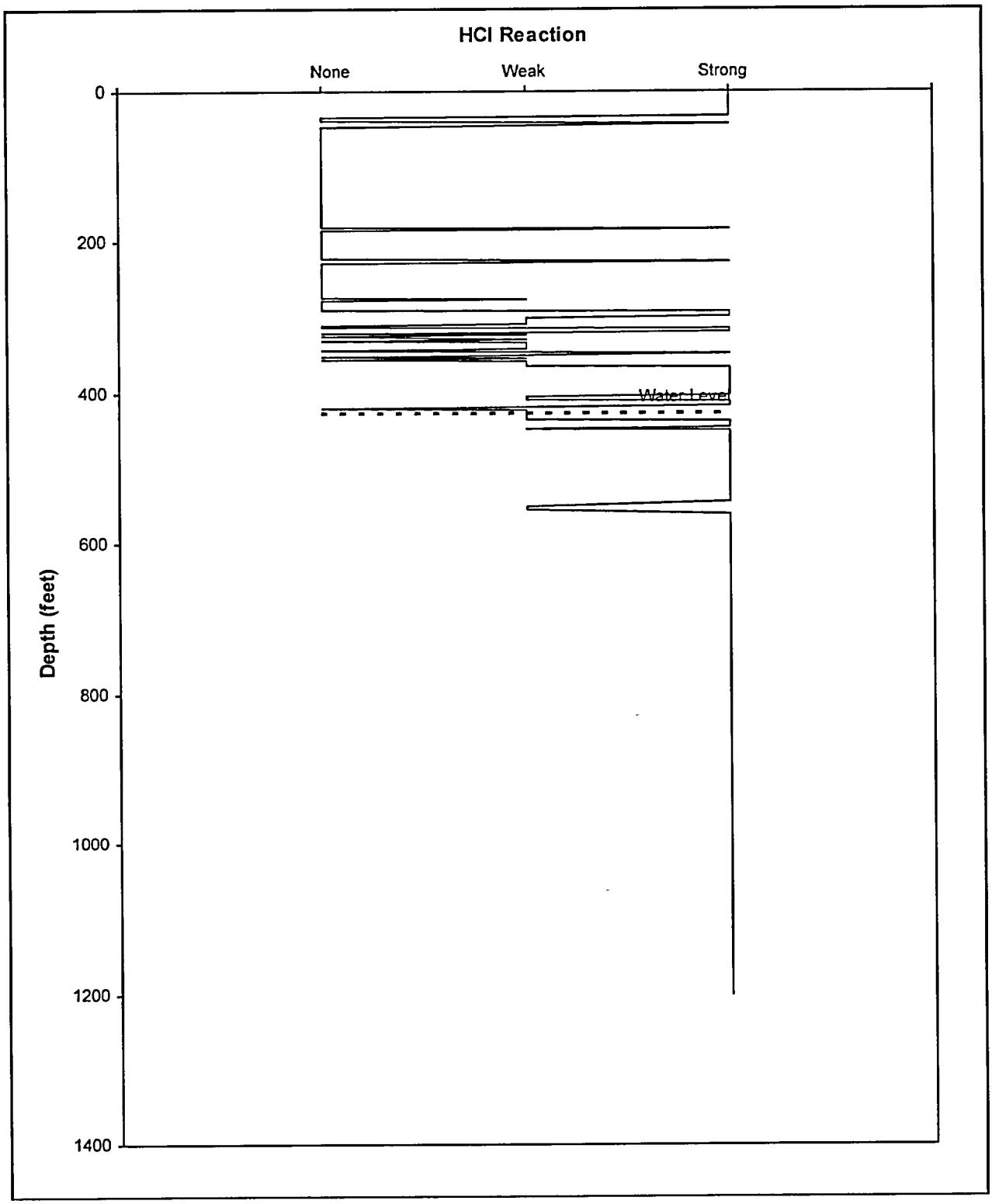

Figure D27
HCl Reaction versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-23P

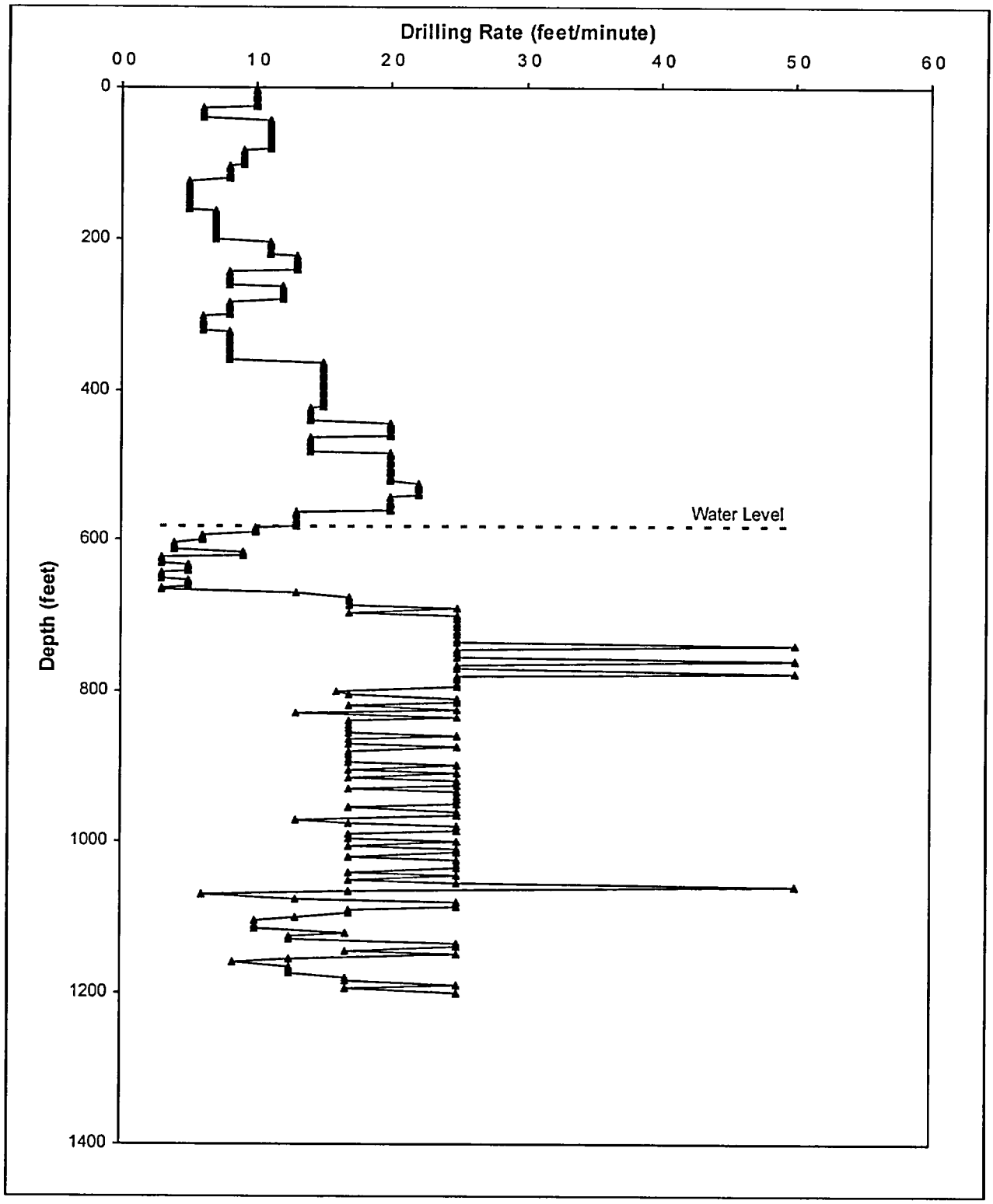

Figure D28
Drilling Rate versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-10SA

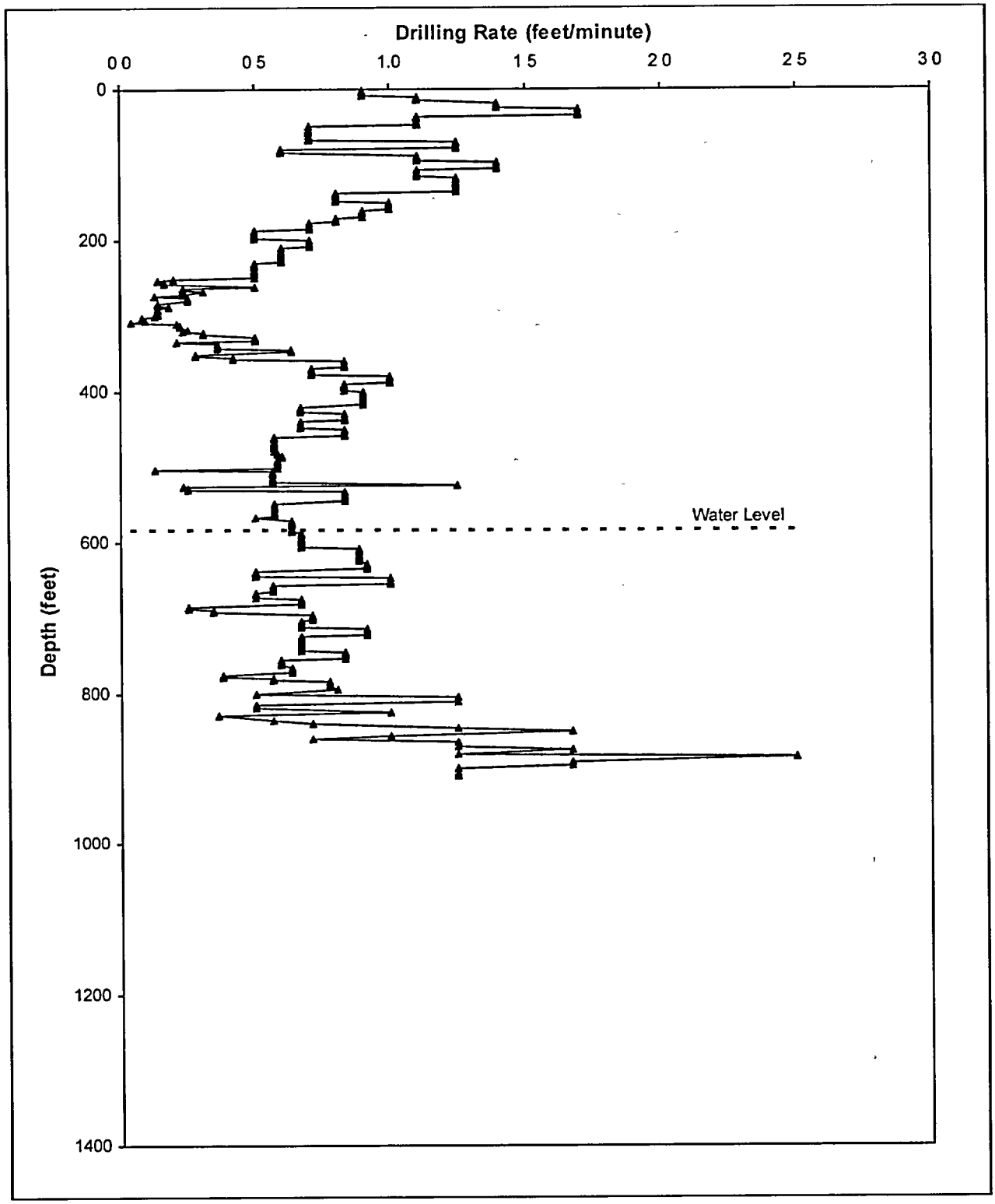

Figure D29
Drilling Rate versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-10P

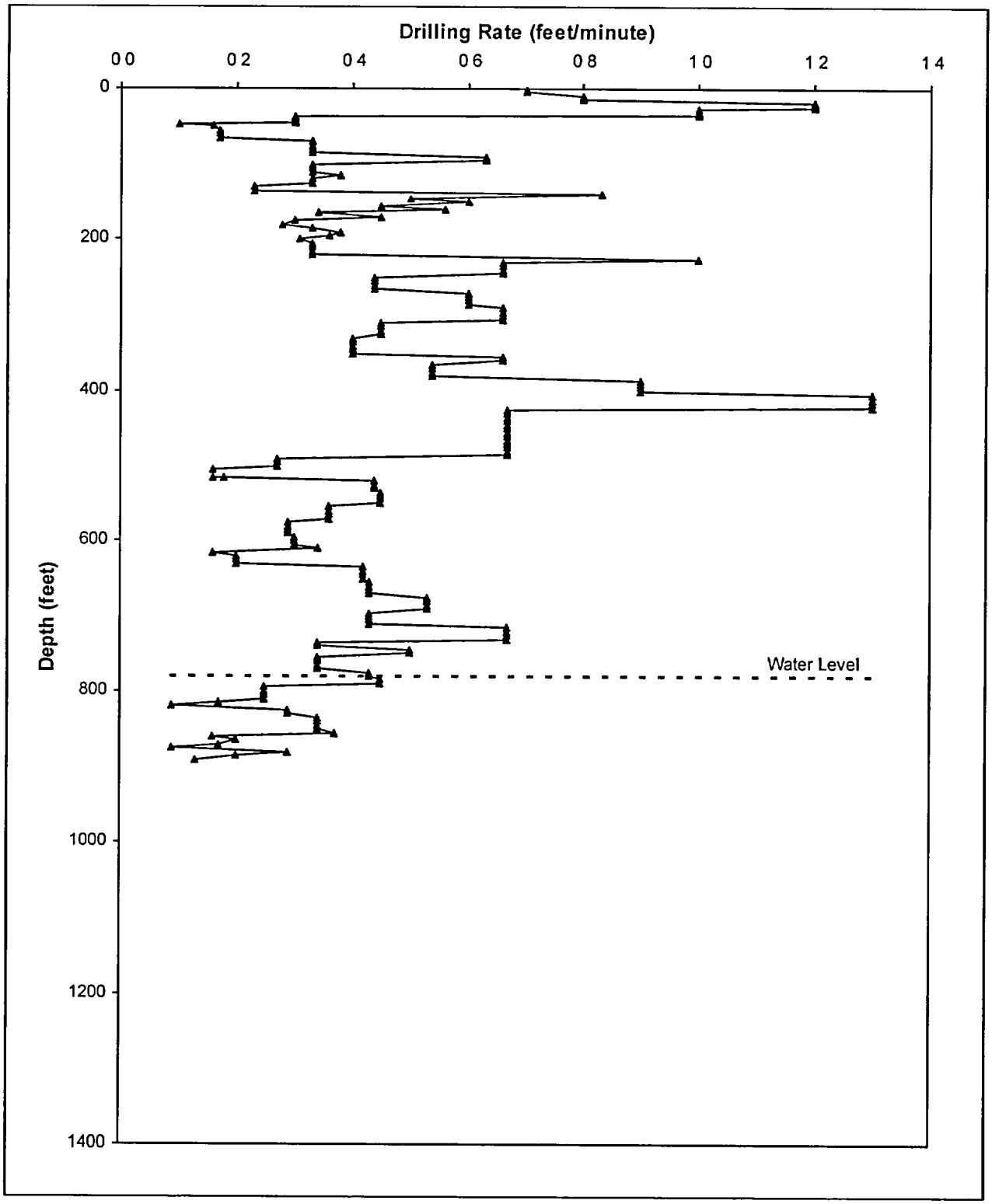

Figure D30
Drilling Rate versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-18P

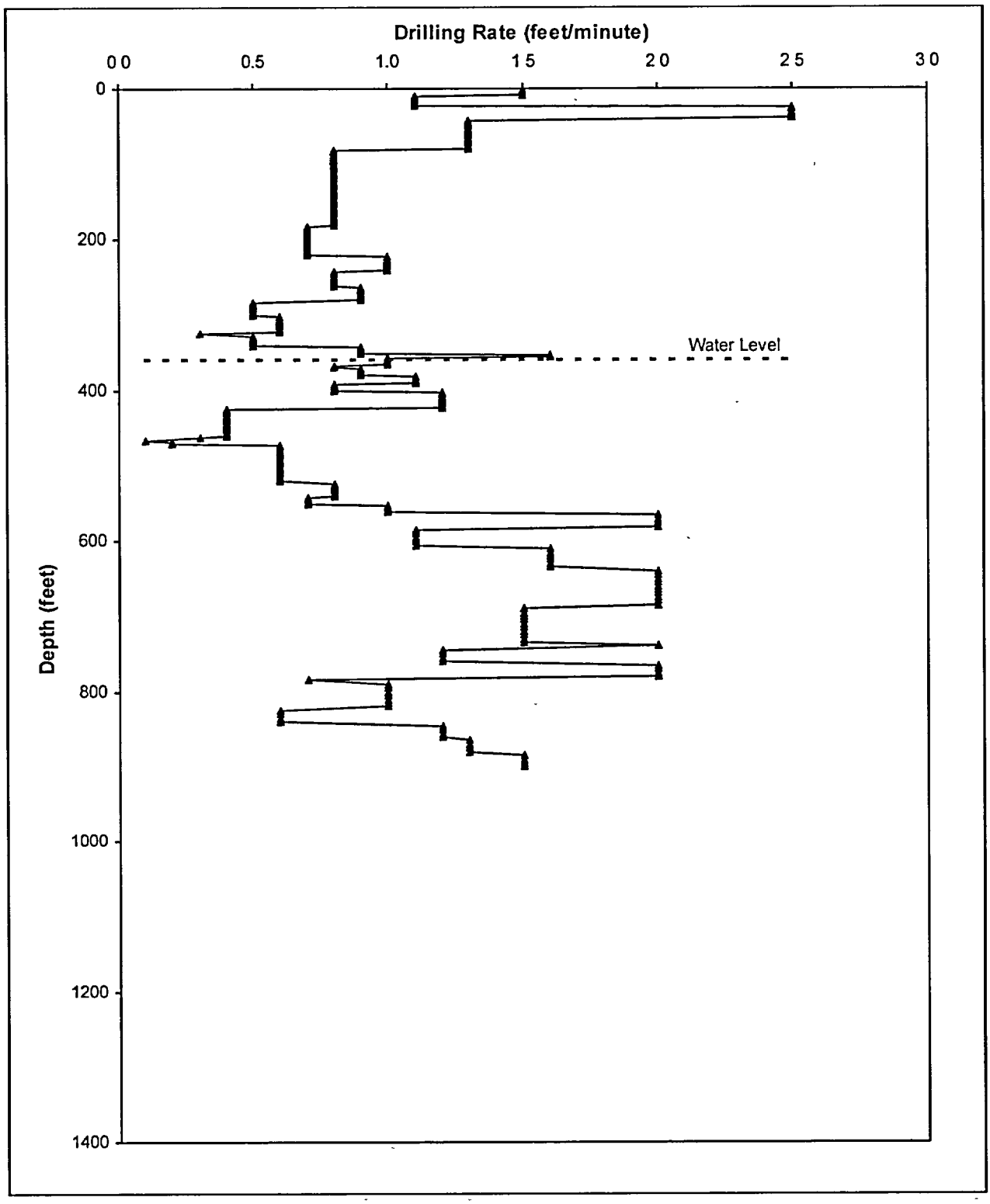

Figure D31
Drilling Rate versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-19IM1A

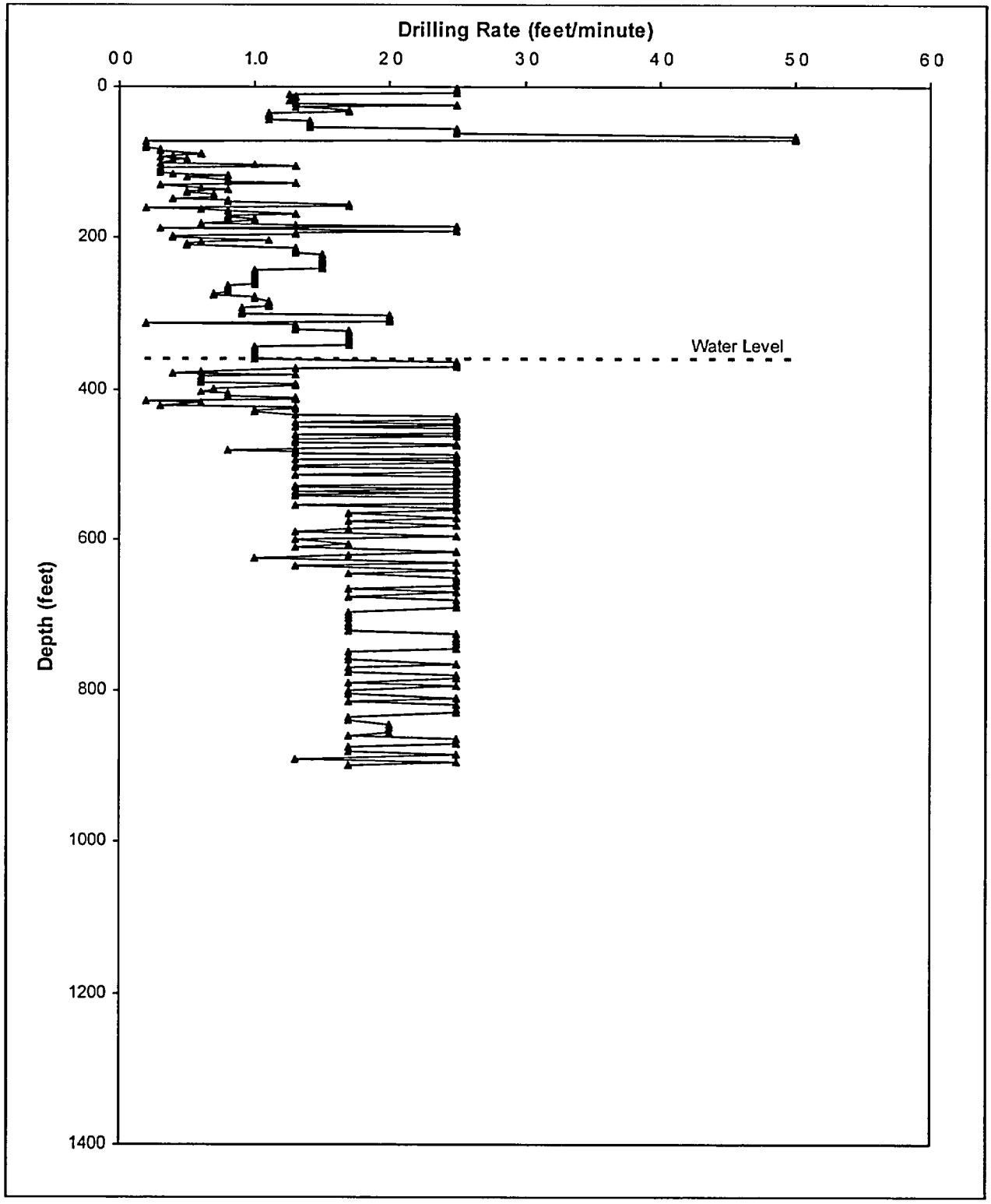

Figure D32
Drilling Rate versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-19IM2A

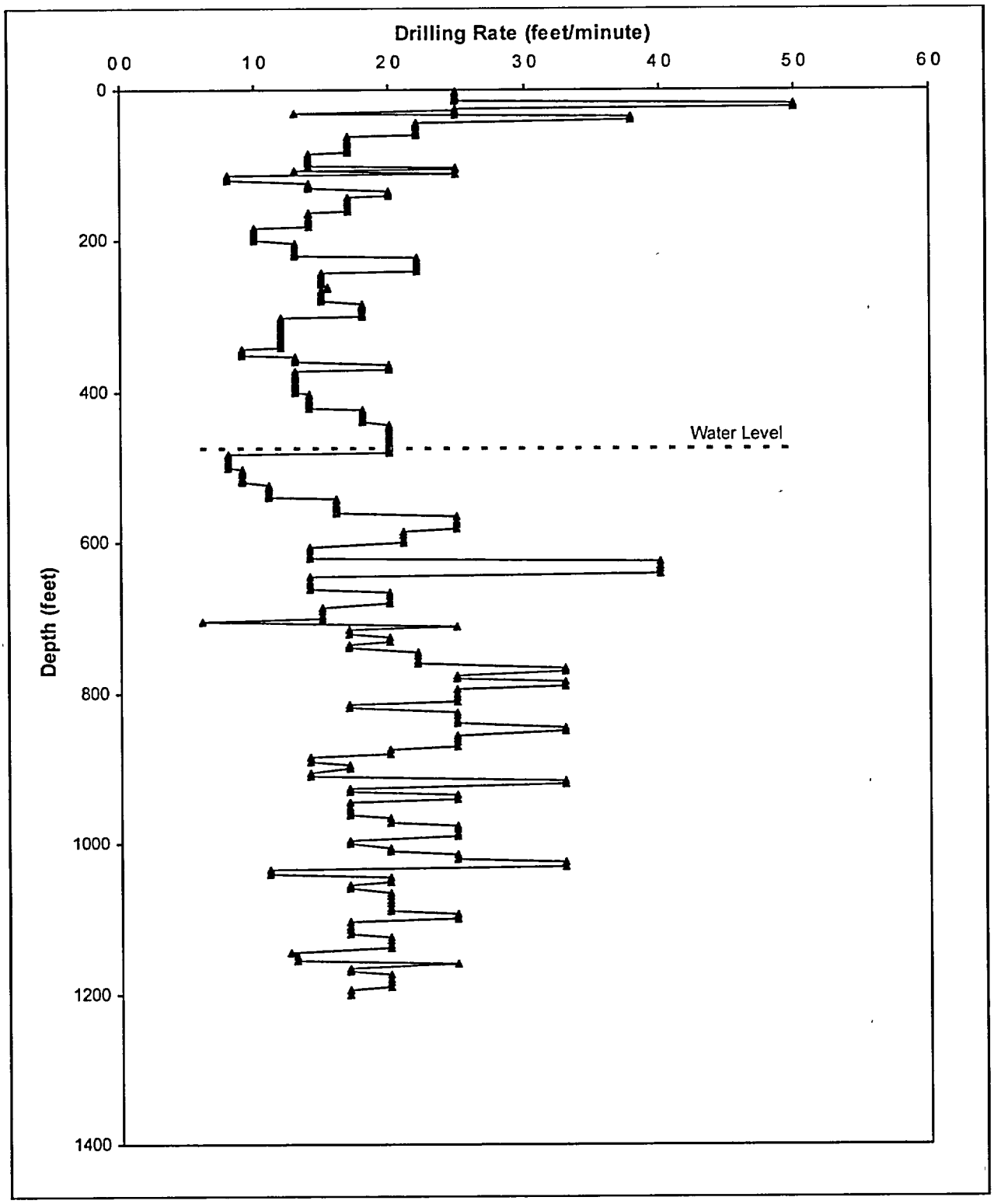

Figure D33
Drilling Rate versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-22SA

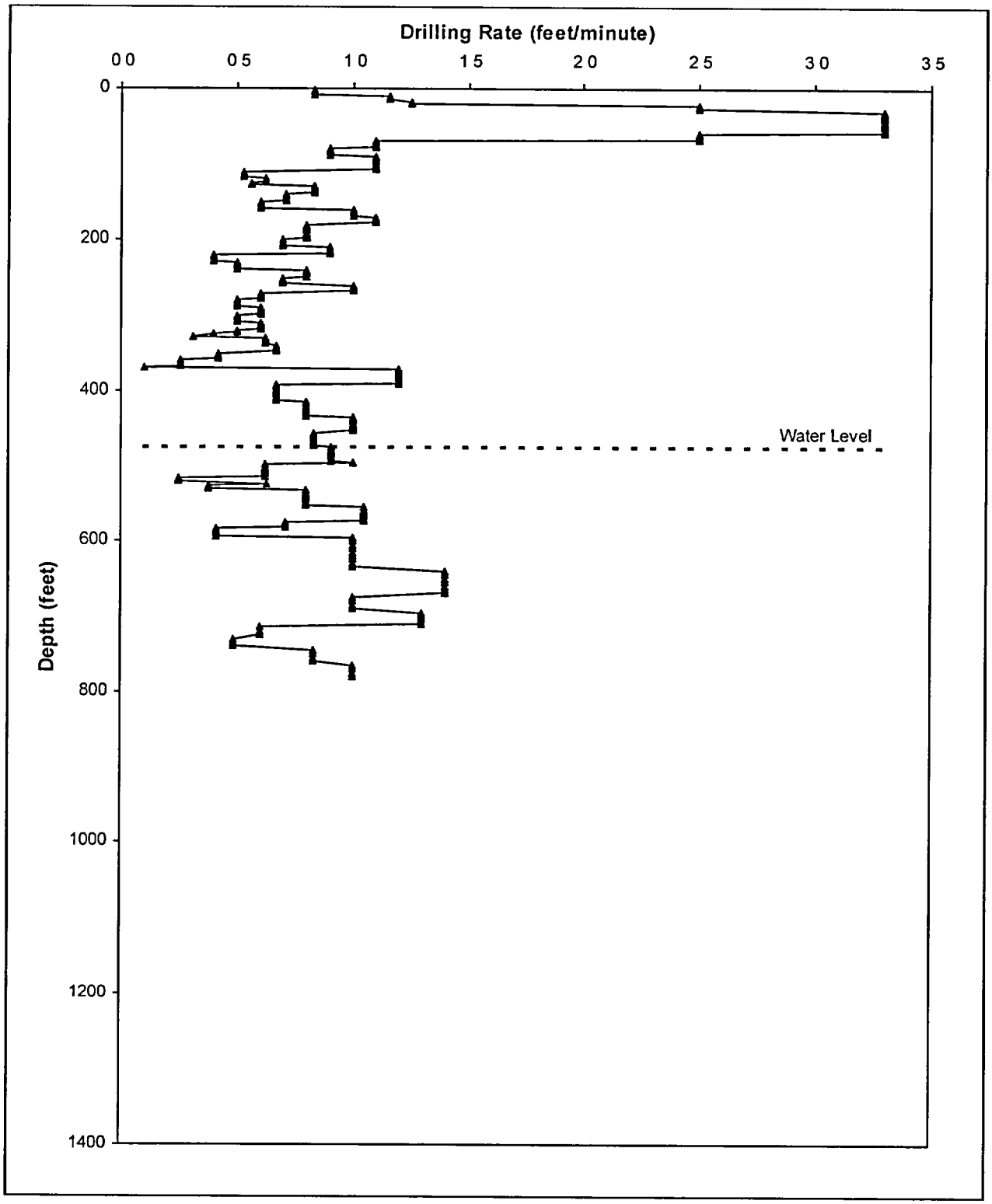

Figure D34
Drilling Rate versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-22PA

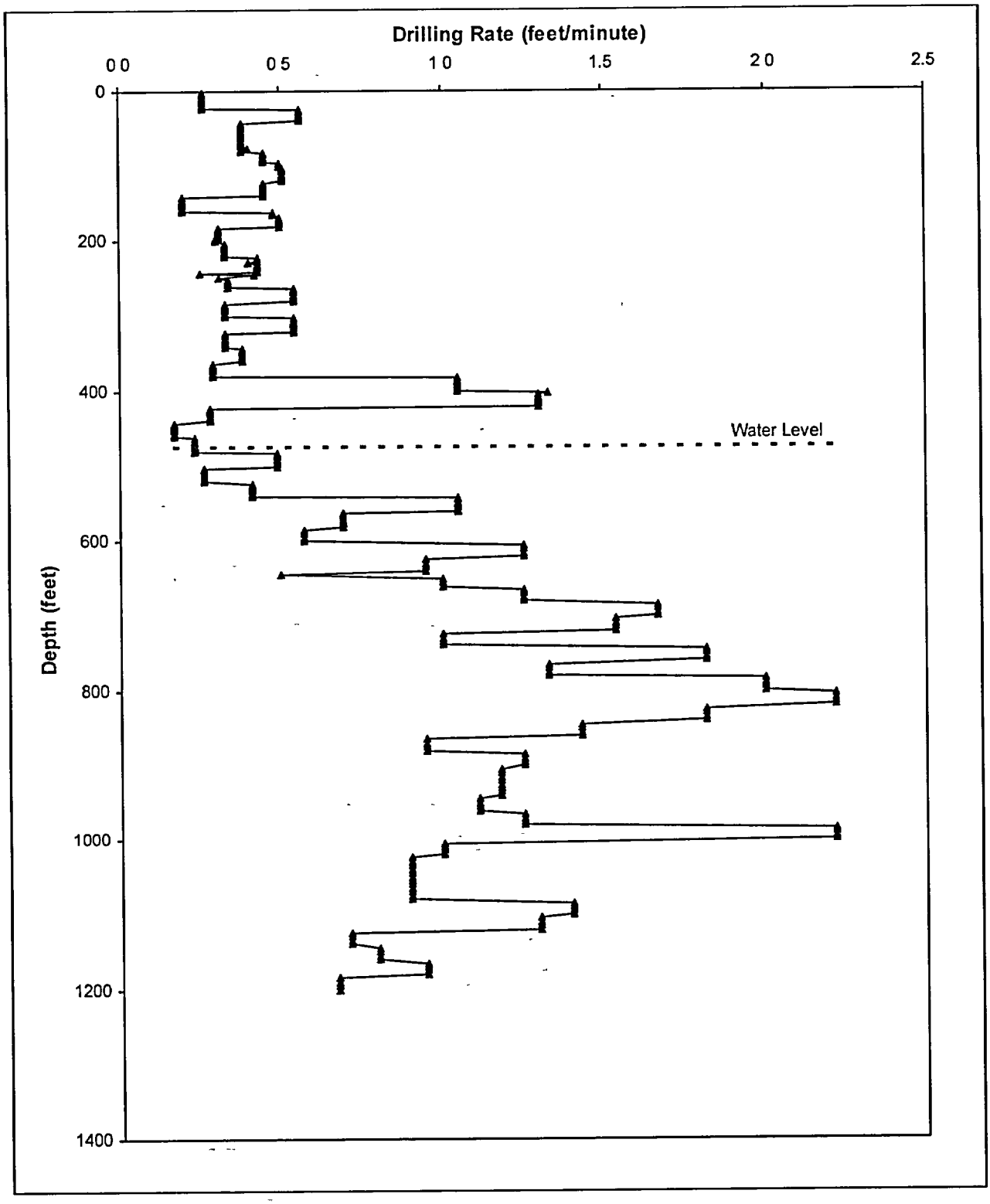

Figure D35
Drilling Rate versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-22PB

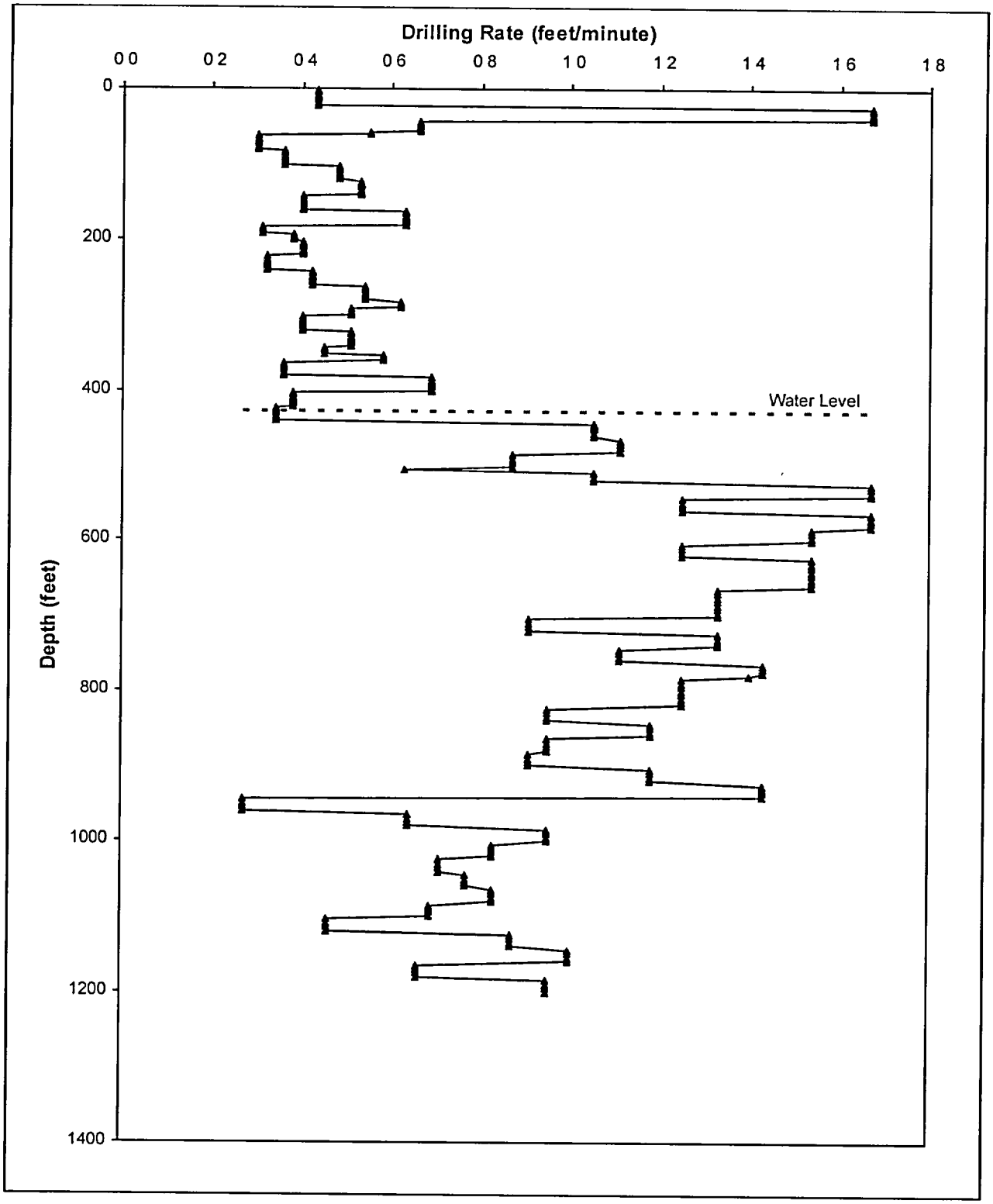

Figure D36
Drilling Rate versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-23P

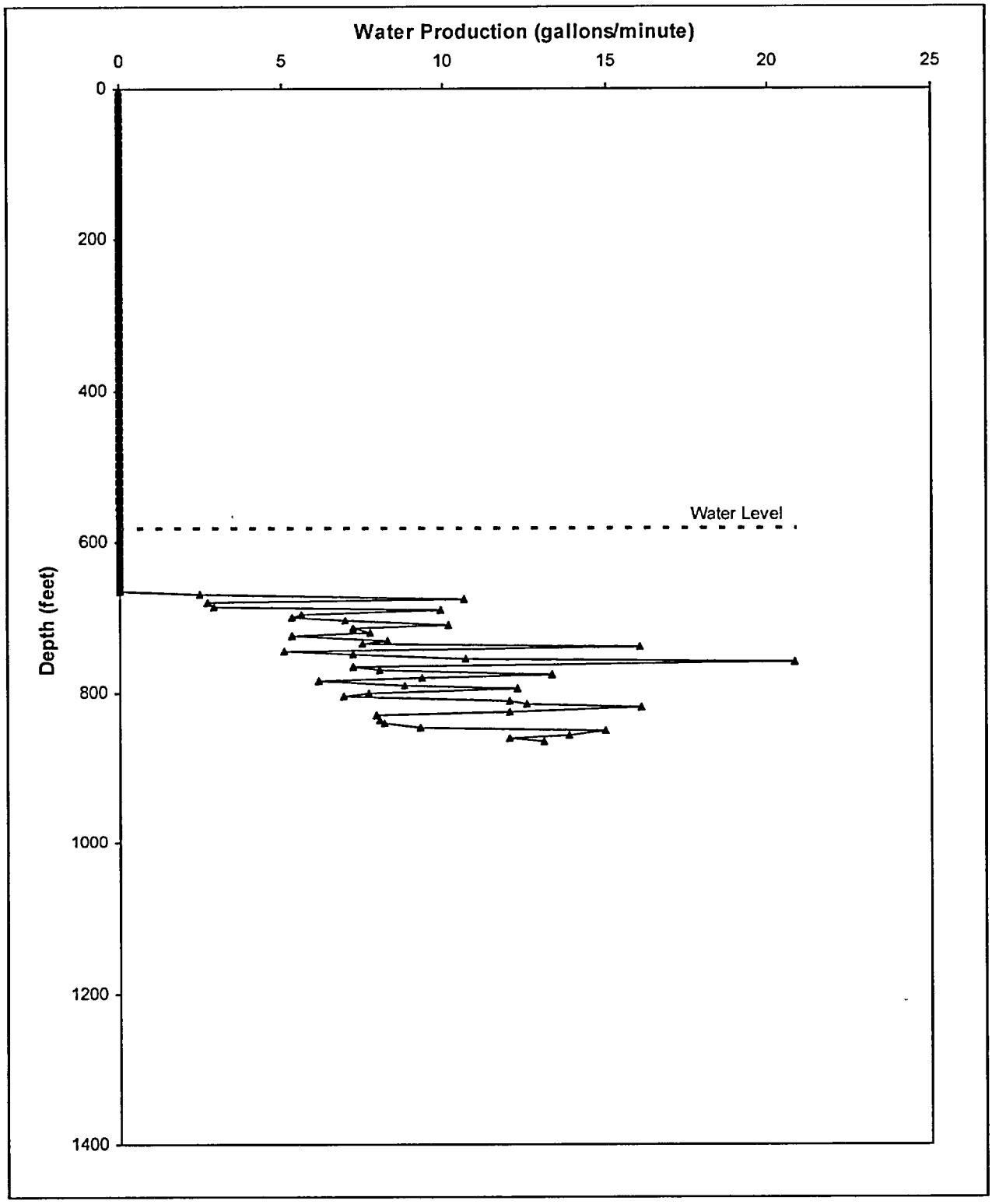

Figure D37
Water Production versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-10SA

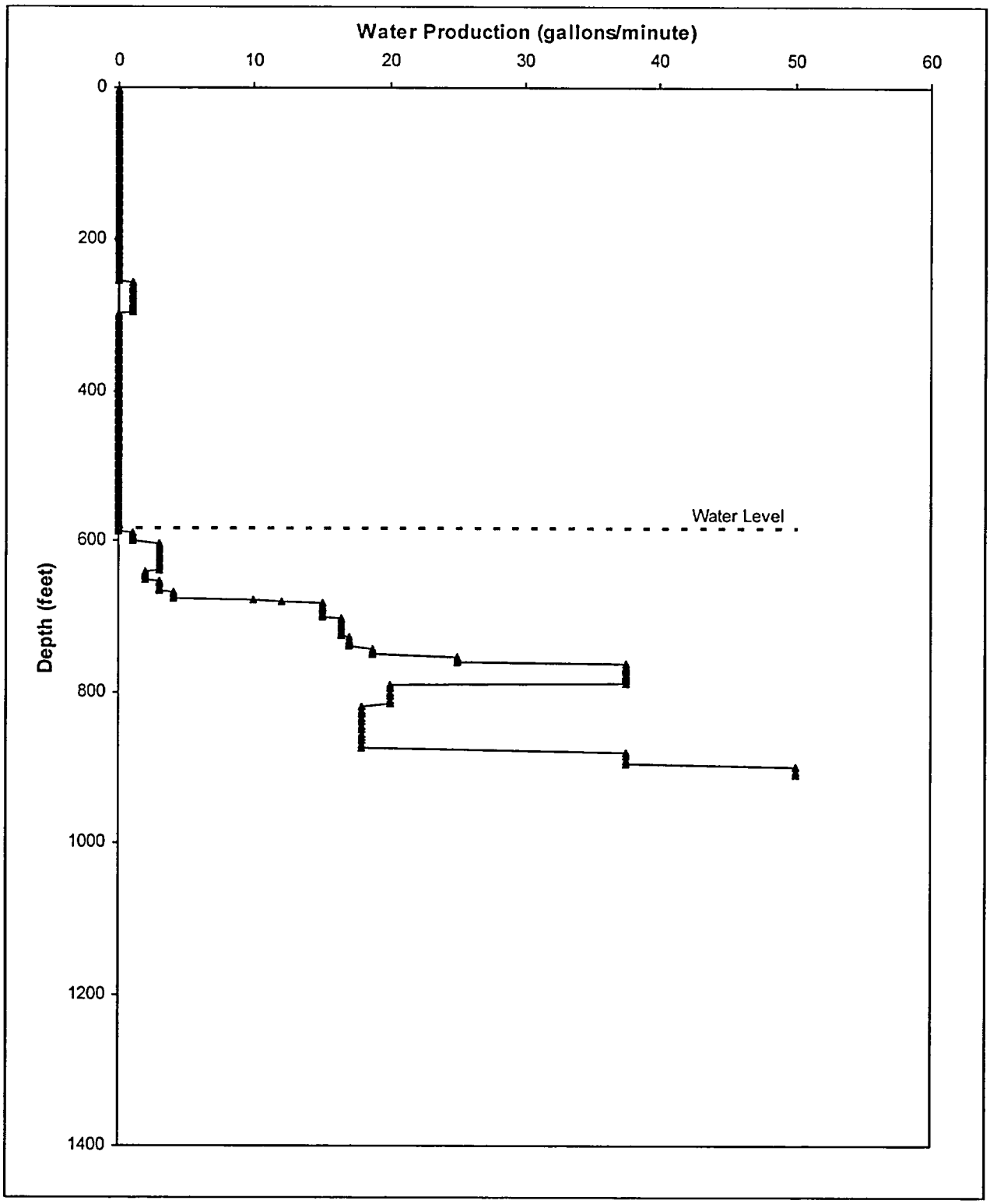

Figure D38
Water Production versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-10P

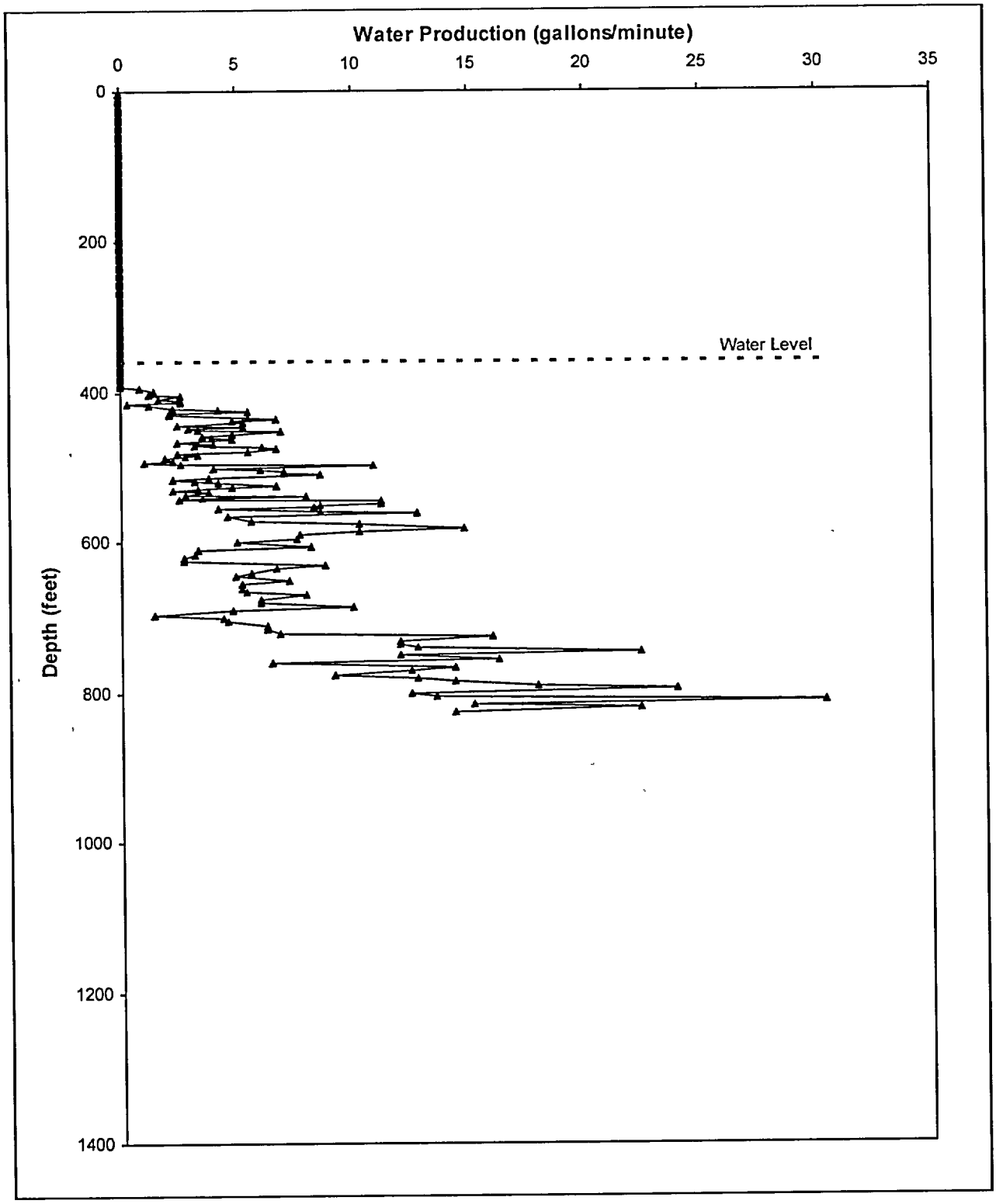

Figure D39
Water Production versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-19IM2A

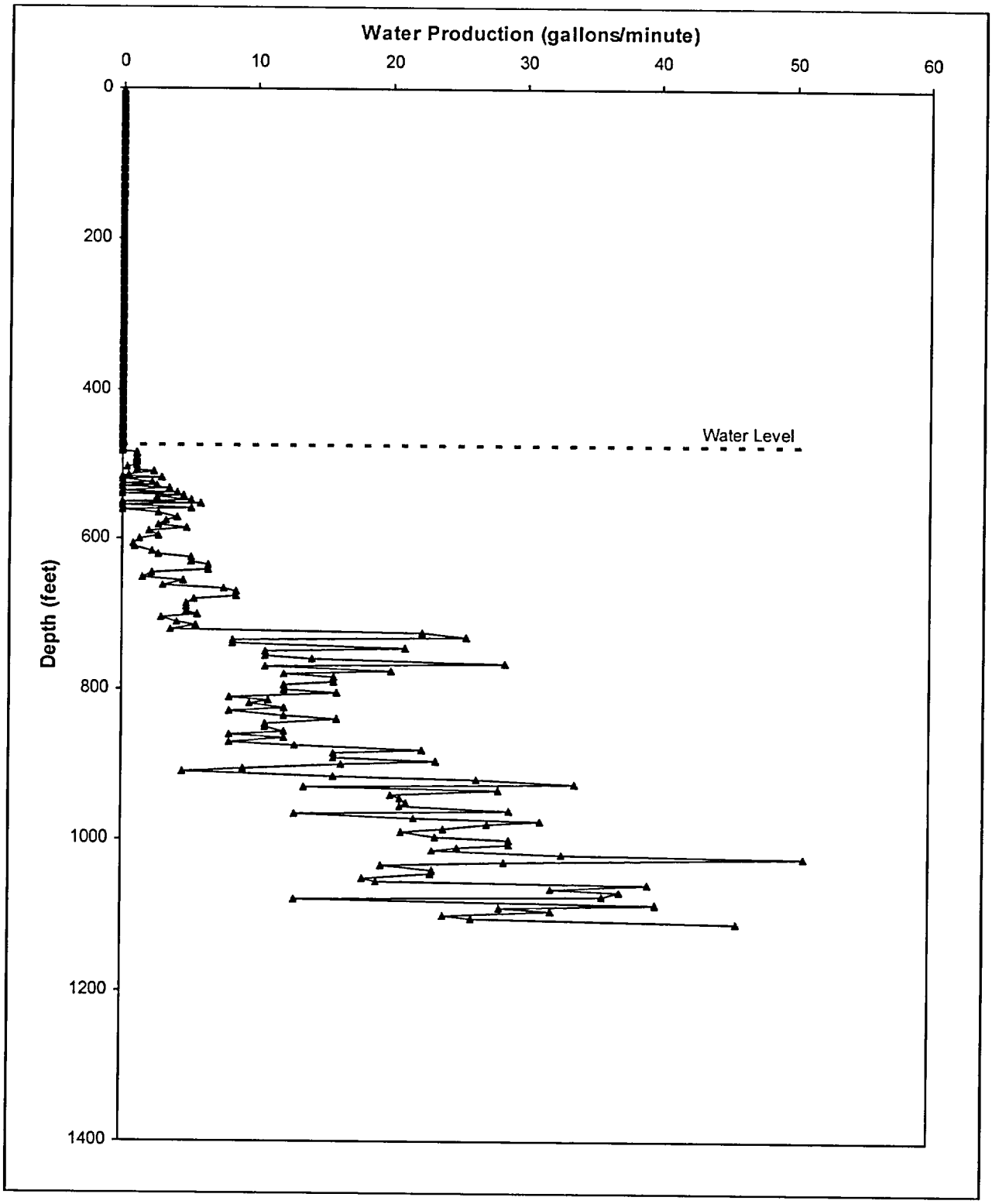

Figure D40
Water Production versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-22SA

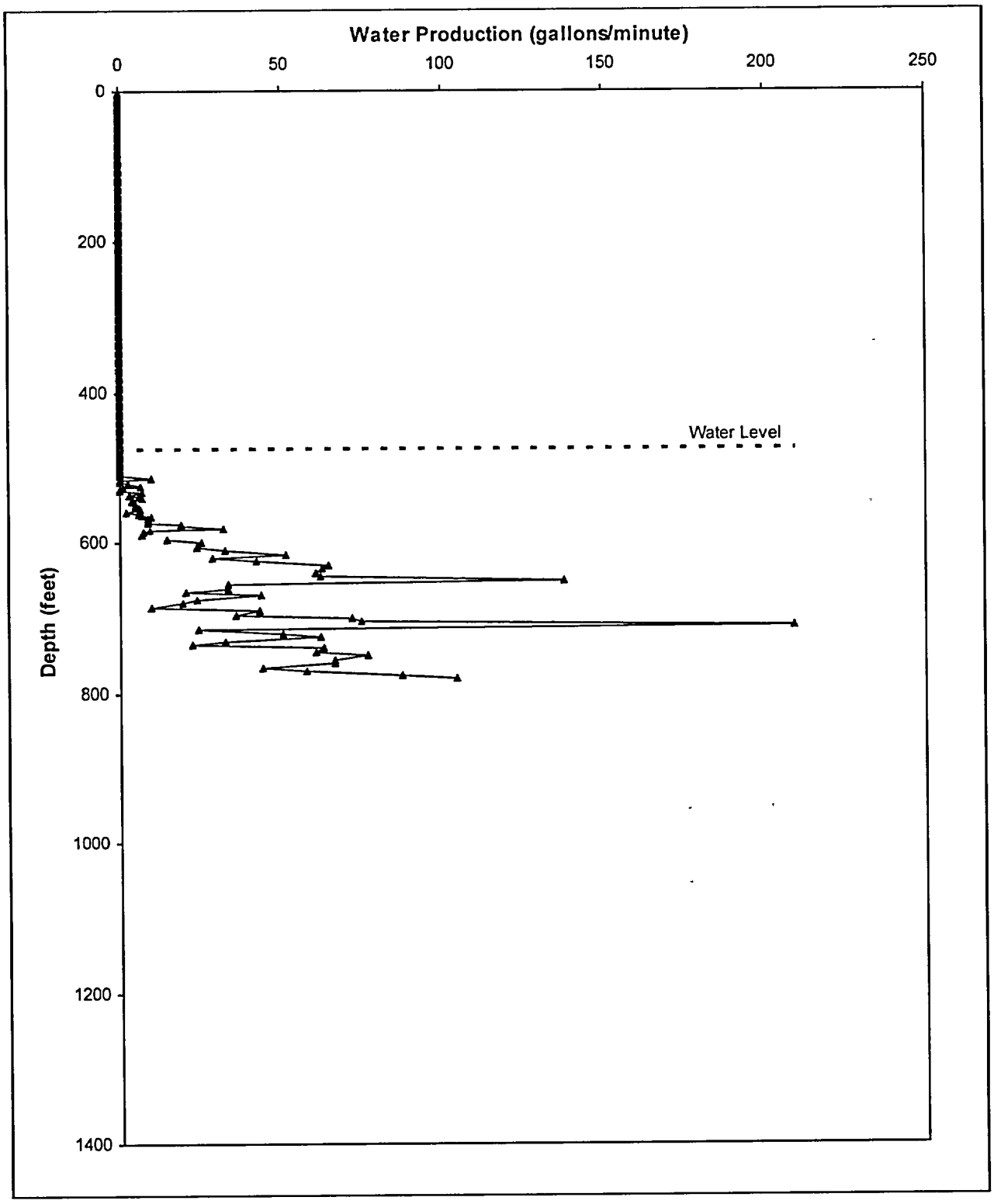

Figure D41
Water Production versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-22PA

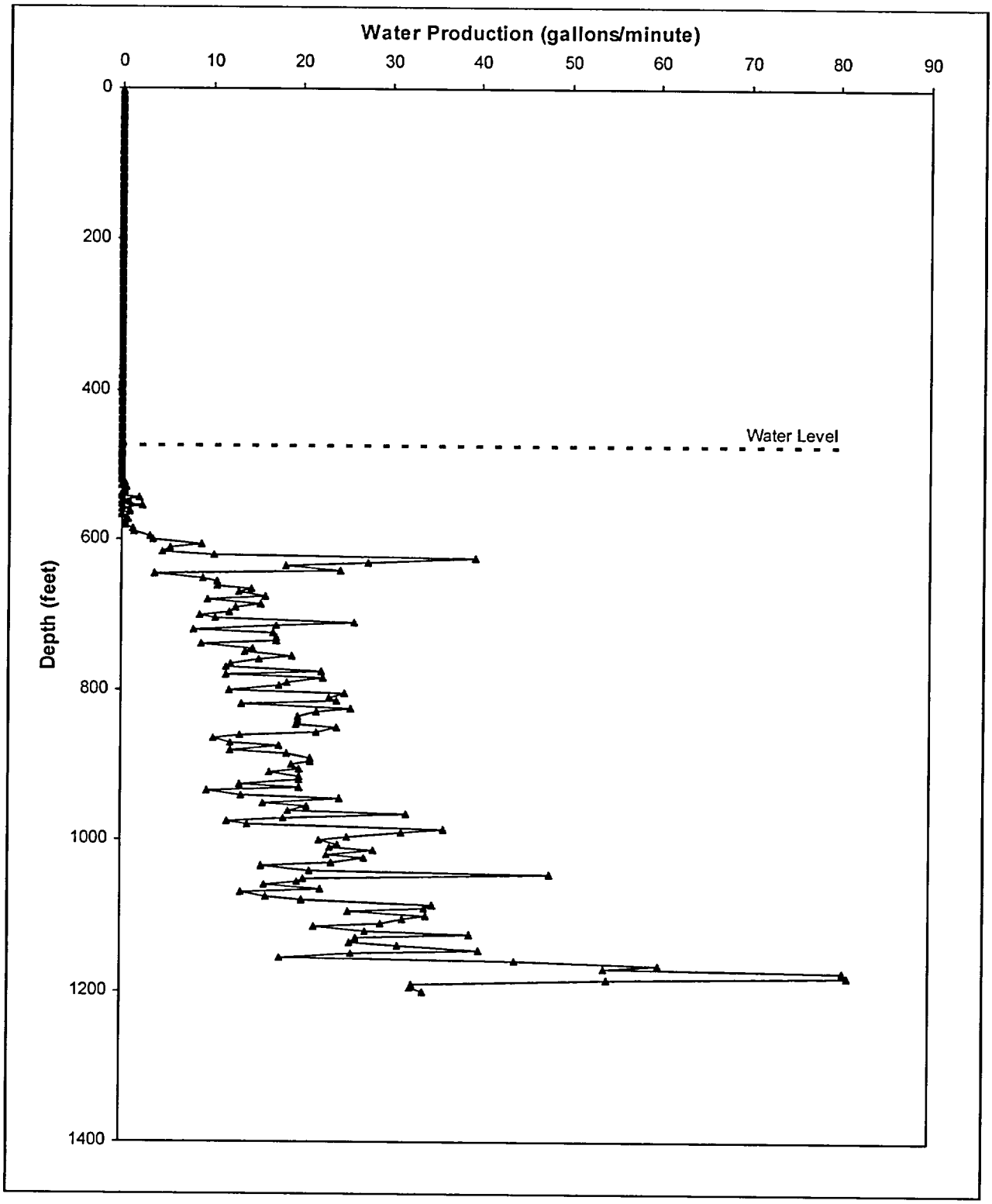

Figure D42
Water Production versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-22PB

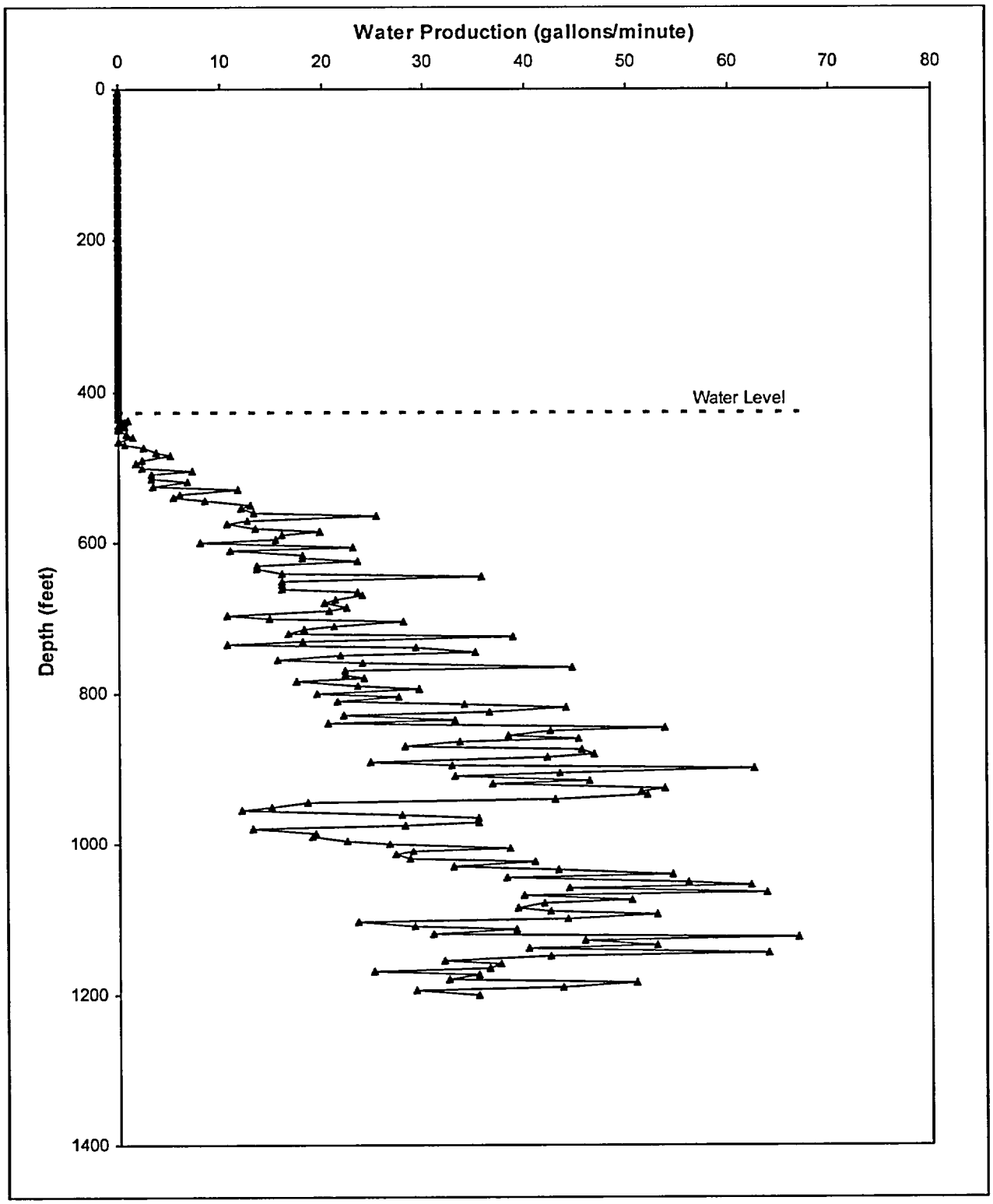

Figure D43
Water Production versus Depth in Alluvium and Non-Alluvium for Borehole NC-EWDP-23P

APPENDIX E
GEOLOGIC LOGS OF CORE SEGMENTS

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Table E1-a
Alluvium Logging Form for Borehole NC-EWDP-10P (Core)

Borehole ID NC-EWDP- 10P (Phase 3) Driller/Drilling Company: THF Drilling Method: IR75W/Casing Advance Alluvium Depth (ft bgs): 0 to 787.5 Start Date: 9/10/2001 End Date: 12/17/2001 Page 1 of 1

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Sample Type	Depth Interval (feet bgs)		Drilling/Coring Data					Sample Density Measurements			Munsell Color Symbol	Moisture Content			Particle Size Distribution (%)					Grading		Estimated Plasticity				USCS Group Symbol	Gravel/Sand GrainShape				Cementation				HCL Reaction			Major Rock Type (%)		
						From	To	Liquid Drilling Fluid Injection Rate (mm)	Drilling/Coring Rate (feet/min)	Water Production (gpm)	Sample Recovery (gallons)	Borehole/Core Diameter (inches)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)		Dry	Moist	Wet	Gravel	Sand	Silt	Clay	Fines (Silt plus Clay)	Well Graded	Poorly Graded	None	Low	Moderate	High		Angular	Subangular	Subrounded	Rounded	None	Weak	Moderate	Strong	None	Weak	Strong	Volcanics	Carbonates	Other
11/13/2002	BW	1/29/2003	JSW	DC-10P-1-4	Core	58 35	58 85	0 0	1 0			4.0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/13/2002	BW	1/29/2003	JSW	DC-10P-2-4	Core	168 22	168.72	0 0	0 8			4 0				10YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/25/2002	BW	1/29/2003	JSW	DC-10P-4-4	Core	666 47	666 97	0 0	0.5			4 0				5YR 4/4	☑	☐	☐						☑	☐	☐	☐	☑	☐		☑	☐	☐	☐	☐	☐	☐	☑	☑	☐	☐	100		
12/2/2002	BW	1/29/2003	JSW	DC-10P-4-6	Core	667 47	667 72	0 0	0 8			4 0				5YR 5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/2/2002	BW	1/29/2003	JSW	DC-10P-5-4	Core	703 16	703 66	0 0	0 3			4 0				5YR 5/3	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/2/2002	BW	1/29/2003	JSW	DC-10P-5-6	Core	704.16	704 41	0 0	0 3			4 0				5YR 5/3	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/2/2002	BW	1/29/2003	JSW	DC-10P-6-4	Core	743.11	743 61	0 0	0 5			4.0				5YR 5/3	☑	☐	☐						☐	☐	☑	☐	☐	☐		☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
12/2/2002	BW	1/29/2003	JSW	DC-10P-6-6	Core	744 11	744 36	0 0	0 5			4 0				5YR 5/3	☑	☐	☐						☑	☐	☑	☐	☐	☐		☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		

Table E1-b
Alluvium Logging Comments for Borehole NC-EWDP-10P (Core)

Borehole ID. **NC-EWDP- 10P** (Phase 3)

Date Logged	Sample Number	Depth From	Depth To	Comments
11/13/2002	DC-10P-1-4	58 35	58 85	Gravel component consists of 85% glassy densely to non-welded tuffs, 10% felsic flows and 5% vescicular basalt 100% are hard unweathered clasts. Max size = 6" Moisture content recorded as dry for all samples - samples were dry at time of logging
11/13/2002	DC-10P-2-4	168 22	168.72	Gravel component consists of predominantly glassy and densely-welded ashflow tuff, 95% are hard unweathered and 5% weakly weathered Max size = 2". Moisture content recorded as dry for all samples - samples were dry at time of logging
11/25/2002	DC-10P-4-4	666 47	666 97	Gravel component is 90% hard densely welded ashflow tuff clasts 58% are < 2", 42% are >= 2". Very hard crystalline clasts Sand component is 50% densely-welded and 50% non-welded clasts. Only 10% non-welded clasts are present in gravel faction 25% of gravel clasts have hard well-cemented grain coatings, but no indication that clasts are cemented together Moisture content recorded as dry for all samples - samples were dry at time of logging
12/2/2002	DC-10P-4-6	667 47	667.72	Gravel component is 80% > 3/4", 60% > 1.5". Clasts are 100% non-to weakly welded ashflow tuff 50% of clasts are crystal rich, and display flow banding & spherulitic texture Grain coatings on gravel clasts are absent There is no indication of cementation 5% of gravel clasts contain small (1/25" to 2/25") white, erodible pumice One large clast (1") is oxidized red and contains 80% yellowish pumice Sand component is 60-70% light colored, non-to weakly-welded clasts, 30-40% welded Moisture content recorded as dry for all samples - samples were dry at time of logging
12/2/2002	DC-10P-5-4	703 16	703 66	Gravel component is. 70% > 3/4", 50% > 1 5". 75% of clasts are non-welded, crystal and pumice poor 20% are weakly-welded, crystal rich, 5% are densely welded. The largest gravel clasts (>2") contain calcedonic quartz and display spherulitic texture These clasts are very hard. Sand component is pumice-rich and 75% non- to weakly welded ashy ground mass No densely welded clasts are present Pumic is very soft turns to mush with water. Moisture content recorded as dry for all samples - samples were dry at time of logging
12/2/2002	DC-10P-5-6	704.16	704 41	Very hard and abrasive sandy grain coatings cover 5 to 10% of the gravel clasts and may represent relic cementation. Gravel component is 50% > 3/4", 3% > 1 5" Gravel lithology is roughly equal proportions of densely, weakly, and non-welded ashflow tuffs All appear to be hard to very hard Sand component is 90% ashy, non- to weakly welded fragments of groundmass - crystal and lithic poor. Contains minor (<1%) soft white pumice that becomes mush with water. Moisture content recorded as dry for all samples - samples were dry at time of logging. Origin of clay is possibly in part the soft erodible pumice.
12/2/2002	DC-10P-6-4	743.11	743 61	Gravels are predominantly (>90%) non-welded ashflow tuff clasts All clasts are very crystal rich and 25% have numerous cavities where crystals have been plucked out Gravels are hard and pumice poor 11% of gravel > 3/4", 22% > 1". Sand component is 100% crystal poor ashy groundmass, non-welded, and is very dissimilar from hard crystal rich gravel component Moisture content recorded as dry for all samples - samples were dry at time of logging
12/2/2002	DC-10P-6-6	744.11	744 36	Gravels are non- to weakly welded, hard, pumice poor, crystal rich, 50% of gravels are > 3/4", 35% > 1 5". 25% of gravel clasts have numerous cavities where grains have been plucked out. Sand component is predominantly (95%) non-welded fragments of ashy matrix, crystal poor (as opposed to gravel component) Moisture content recorded as dry for all samples - samples were dry at time of logging

Table E2-a
Alluvium Logging Form for Borehole NC-EWDP-22PA (Core)

Borehole ID: NC-EWDP- 22PA (Phase 3) Driller/Drilling Company: THF Drilling Method: TH75W/Casing Advance Alluvium Depth (ft bgs): 0 to 780 Start Date: 1/15/2002 End Date: 2/5/2002 Page 1 of 1

Date Logged	Logged By (Initials)	Date Checked	Checked By (Initials)	Sample Number	Sample Type	Depth Interval (feet bgs)		Drilling/Coring Data					Sample Density Measurements			Munsell Color Symbol	Moisture Content			Particle Size Distribution (%)					Grading		Estimated Plasticity					USCS Group Symbol	Gravel/Sand GrainShape				Cementation				HCL Reaction			Major Rock Type (%)		
						From	To	Liquid Drilling Fluid Injection Rate (gpm)	Drilling/Coring Rate (feet/min)	Water Production (gpm)	Sample Recovery (gallons)	Borehole/Core Diameter (inches)	Tare Weight (kg)	Sample Plus Tare Weight (kg)	Sample Weight (kg)		Dry	Moist	Wet	Gravel	Sand	Silt	Clay	Fines (Silt plus Clay)	Well Graded	Poorly Graded	None	Low	Moderate	High			Angular	Subangular	Subrounded	Rounded	None	Weak	Moderate	Strong	None	Weak	Strong	Volcanics	Carbonates	Other
11/7/2002	BW	1/29/2003	JSW	DC-22PA-1-4	Core	392 25	392 75	0 0	1 5			4 0				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐			☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/7/2002	BW	1/29/2003	JSW	DC-22PA-1-6	Core	393 25	393 50	0 0	1 5			4.0				5YR 5/6	☑	☐	☐						☑	☐	☑	☐	☐	☐			☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/19/2002	BW	1/29/2003	JSW	DC-22PA-3-3	Core	553 24	553 74	0 0	1 1			4 0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐			☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/19/2002	BW	1/29/2003	JSW	DC-22PA-4-3	Core	572 64	573.14	0 0	0 7			4 0				5YR 5/2-5/4	☑	☐	☐						☑	☐	☑	☐	☐	☐			☐	☑	☐	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/19/2002	BW	1/29/2003	JSW	DC-22PA-5-3	Core	670 11	670 61	0.0	1 0			4 0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐			☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/13/2002	BW	1/29/2003	JSW	DC-22PA-6-5	Core	710 33	710 58	0 0	1.3			4 0				10YR 5 5/5	☑	☐	☐						☑	☐	☑	☐	☐	☐			☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/19/2002	BW	1/29/2003	JSW	DC-22PA-7-3	Core	740 85	741 35	0 0	0 8			4 0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐			☐	☐	☑	☐	☑	☐	☐	☐	☑	☐	☐	100		
11/25/2002	BW	1/29/2003	JSW	DC-22PA-7-5	Core	741 85	742 10	0 0	0 8			4 0				5YR 4/4	☑	☐	☐						☑	☐	☑	☐	☐	☐			☐	☑	☐	☐	☐	☐	☐	☑	☑	☐	☐	100		

Table E2-b
Alluvium Logging Comments for Borehole NC-EWDP-22PA (Core)

Borehole ID: **NC-EWDP- 22PA** (Phase 3)

Date Logged	Sample Number	Depth From	Depth To	Comments
11/7/2002	DC-22PA-1-4	392 25	392.75	A very weak cement was noted while logging sample Gravel component consists of 90% non-welded and densely welded tuffs and 10% (1 clast approx 4") that is a crystal-rich moderately welded unit: 95% are hard unweathered, 5% weakly weathered Gravel is subrounded to round, approximately 20% are > 1" Moisture content recorded as dry for all samples - samples were dry at time of logging
11/7/2002	DC-22PA-1-6	393 25	393 50	Gravel component consists of 100% non-welded and densely welded tuffs· 95% are hard unweathered, 5% weakly weathered. Approx 20% > 1", all subround to rounded A very weak cement was noted while logging sample Moisture content recorded as dry for all samples - samples were dry at time of logging
11/19/2002	DC-22PA-3-3	553 24	553.74	Gravel is 100% non-to densely welded tuff, and rare chert 100% is hard and unweathered 20% of gravels are > 3/4" Sand component is well-graded, 25% is non-welded, 5% of grains have open/porous matrix, sand contains 1-2% pumice Moisture content recorded as dry for all samples - samples were dry at time of logging
11/19/2002	DC-22PA-4-3	572 64	573.14	Gravels are approx 50% hard glassy densely to weakly welded tuff and 50% non-welded tuff All are mostly fresh, hard, and sl weathered. Well developed sand coatings are on 1% of gravel clasts Either cementation is occurring only locally, or gravels are derived from strongly cemented strata Cement is hard 33% of gravels are > 3/4". Sand component=1-3% white and greenish pumice, and only approx 15-20% hard glassy flow, 75% tuff Moisture content recorded as dry for all samples - samples were dry at time of logging.
11/19/2002	DC-22PA-5-3	670 11	670 61	Gravels are approx 50% ashflow tuff, non-to densely welded, 35% shallow intrusive clasts with primary igneous texture, 15% glassy felsic flow. Gravels are hard, unweathered. Sand component = 1-3% greenish pumice, 1-3% non-welded, white and pink ash matrix, 90% weakly to densely welded ashflow. Trace clasts of intrusives. 80% of gravel > 3/4", 45% is > 1". Moisture content recorded as dry for all samples - samples were dry at time of logging.
11/13/2002	DC-22PA-6-5	710 33	710 58	Gravel component consists of 85% partially to densely welded tuff, 10% rhyolitic clasts of glassy flow, 5% non- to weakly welded crystal rich tuff 95% hard unweathered rock Sand component is 75% non-welded tuff clasts Also pumice clasts are present in sand but not gravel component Moisture content recorded as dry for all samples - samples were dry at time of logging
11/19/2002	DC-22PA-7-3	740 85	741 35	Gravels are 100% hard, unweathered ashflow tuff 75% are densely welded, 25% partially welded. No grain coatings are present, as in sample described above. Also no intrusives Sand component = approx 60% is non-welded tuffs (much more than present in gravel component), sand contains ~ 40% welded fragments Moisture content recorded as dry for all samples - samples were dry at time of logging
11/25/2002	DC-22PA-7-5	741.85	742.10	Gravel component is predominantly densely to non-welded tuff and 1% basaltic clasts 70% are >= 3/4", 30% are > 3/4" Clasts are very hard Well developed sandy coatings are present on ~60-70% of gravel clasts Coatings are very hard and cemented Also coarse grains are cemented together. Sand component is 75% non- to weakly welded fragments of ash matrix with 5-10% of hard welded clasts Sand fraction contains fragments of soft, white, and highly clay altered fragments of porous, ashy, volcanic lithics. Resembles kaolinite Moisture content recorded as dry for all samples - samples were dry at time of logging

APPENDIX F
LABORATORY ANALYSES OF DRILL CUTTINGS

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Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
10P	2 50	5 00	BCS00011027	Cuttings	0 032	744	censored	censored	censored			
10P	7 50	10 00	BCS00011029	Cuttings	0 043	652	censored	censored	censored			
10P	12 50	15 00	BCS00011031	Cuttings	0 02	208	censored	censored	censored			
10P	17 50	20 00	BCS00011033	Cuttings	0 041	183	censored	censored	censored			
10P	22 50	25 00	BCS00011035	Cuttings	0 046	145	censored	censored	censored			
10P	27 50	30 00	BCS00011037	Cuttings	0 039	133	censored	censored	censored			
10P	32 50	35 00	BCS00011039	Cuttings	0 041	172	censored	censored	censored			
10P	37 50	40 00	BCS00011041	Cuttings	0 026	143	censored	censored	censored			
10P	42 50	45 00	BCS00011043	Cuttings	0 039	158	censored	censored	censored			
10P	47 50	50 00	BCS00011045	Cuttings	0 037	137	censored	censored	censored			
10P	52 50	55 00	BCS00011047	Cuttings	0 026	678	censored	censored	censored			
10P	62 50	65 00	BCS00011051	Cuttings	0 022	83	censored	censored	censored			
10P	67 50	70 00	BCS00011053	Cuttings	0 028	81	censored	censored	censored			
10P	72 50	75 00	BCS00011055	Cuttings	0 043	102	censored	censored	censored			
10P	77 50	80 00	BCS00011057	Cuttings	0 046	77	censored	censored	censored			
10P	82 50	85 00	BCS00011059	Cuttings	0 044	82	censored	censored	censored			
10P	87 50	90 00	BCS00011061	Cuttings	0 061	166	censored	censored	censored			
10P	92 50	95 00	BCS00011063	Cuttings	0 016	104	censored	censored	censored			
10P	97 50	100 00	BCS00011065	Cuttings	0 035	88	censored	censored	censored			
10P	102 50	105 00	BCS00011067	Cuttings	0 063	134	censored	censored	censored			
10P	107 50	110 00	BCS00011069	Cuttings	0 061	161	censored	censored	censored			
10P	112 50	115 00	BCS00011071	Cuttings	0 061	154	censored	censored	censored			
10P	117 50	120 00	BCS00011073	Cuttings	0 041	160	censored	censored	censored			
10P	122 50	125 00	BCS00011075	Cuttings	0 054	149	censored	censored	censored			
10P	127 50	130 00	BCS00011077	Cuttings	0 059	150	censored	censored	censored			
10P	132 50	135 00	BCS00011079	Cuttings	0 041	126	censored	censored	censored			
10P	137 50	140 00	BCS00011081	Cuttings	0 057	218	censored	censored	censored			
10P	142 50	145 00	BCS00011083	Cuttings	0 057	151	censored	censored	censored			
10P	147 50	150 00	BCS00011085	Cuttings	0 063	254	censored	censored	censored			
10P	152 50	155 00	BCS00011087	Cuttings	0 054	187	censored	censored	censored			
10P	157 50	160 00	BCS00011089	Cuttings	0 052	225	censored	censored	censored			
10P	162 50	165 00	BCS00011091	Cuttings	0 057	272	censored	censored	censored			
10P	172 50	175 00	BCS00011095	Cuttings	0 075	209	censored	censored	censored			
10P	177 50	180 00	BCS00011097	Cuttings	0 07	190	censored	censored	censored			
10P	182 50	185 00	BCS00011099	Cuttings	0 043	128	censored	censored	censored			
10P	187 50	190 00	BCS00011101	Cuttings	0 054	154	censored	censored	censored			
10P	192 50	195 00	BCS00011103	Cuttings	0 041	122	censored	censored	censored			
10P	197 50	200 00	BCS00011105	Cuttings	0 057	167	censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
10P	202 50	205 00	BCS00011107	Cuttings	0 059	158	censored	censored	censored			
10P	207 50	210 00	BCS00011109	Cuttings	0 075	286	censored	censored	censored			
10P	212 50	215 00	BCS00011111	Cuttings	0 043	150	censored	censored	censored			
10P	217 50	220 00	BCS00011113	Cuttings	0 063	245	censored	censored	censored			
10P	222 50	225 00	BCS00011115	Cuttings	0 068	196	censored	censored	censored			
10P	227 50	230 00	BCS00011117	Cuttings	0 052	175	censored	censored	censored			
10P	232 50	235 00	BCS00011119	Cuttings	0 068	176	censored	censored	censored			
10P	237 50	240 00	BCS00011121	Cuttings	0 052	154	censored	censored	censored			
10P	242 50	245 00	BCS00011123	Cuttings	0 037	107	censored	censored	censored			
10P	247 50	250 00	BCS00011125	Cuttings	0 025	146	censored	censored	censored			
10P	252 50	255 00	BCS00011127	Cuttings	0 072	295	censored	censored	censored			
10P	257 50	260 00	BCS00011129	Cuttings	0 066	133	censored	censored	censored			
10P	262 50	265 00	BCS00011131	Cuttings	0 219	111	censored	censored	censored			
10P	267 50	270 00	BCS00011133	Cuttings	0 103	194	censored	censored	censored			
10P	272 50	275 00	BCS00011135	Cuttings	0 235	144	censored	censored	censored			
10P	277 50	280 00	BCS00011137	Cuttings	0 147	116	censored	censored	censored			
10P	282 50	285 00	BCS00011139	Cuttings	0 197	149	censored	censored	censored			
10P	287 50	290 00	BCS00011141	Cuttings	0 256	169	censored	censored	censored			
10P	292 50	295 00	BCS00011143	Cuttings	0 272	104	censored	censored	censored			
10P	297 50	300 00	BCS00011145	Cuttings	0 151	194	censored	censored	censored	censored	censored	censored
10P	302 50	305 00	BCS00011147	Cuttings	0 038	140	censored	censored	censored			
10P	307 50	310 00	BCS00011149	Cuttings	0 02	490	censored	censored	censored			
10P	312 50	315 00	BCS00011151	Cuttings	0 016	201	censored	censored	censored			
10P	317 50	320 00	BCS00011153	Cuttings	0 041	322	censored	censored	censored			
10P	322 50	325 00	BCS00011155	Cuttings	0 049	168	censored	censored	censored			
10P	327 50	330 00	BCS00011157	Cuttings	0 051	206	censored	censored	censored			
10P	332 50	335 00	BCS00011159	Cuttings	0 059	234	censored	censored	censored			
10P	337 50	340 00	BCS00011161	Cuttings	0 07	213	censored	censored	censored			
10P	342 50	345 00	BCS00011163	Cuttings	0 079	179	censored	censored	censored			
10P	347 50	350 00	BCS00011165	Cuttings	0 063	273	censored	censored	censored			
10P	352 50	355 00	BCS00011167	Cuttings	0 056	200	censored	censored	censored			
10P	357 50	360 00	BCS00011169	Cuttings	0 076	179	censored	censored	censored			
10P	362 50	365 00	BCS00011171	Cuttings	0 063	131	censored	censored	censored			
10P	367 50	370 00	BCS00011173	Cuttings	0 119	262	censored	censored	censored	censored	censored	censored
10P	372 50	375 00	BCS00011175	Cuttings	0 076	195	censored	censored	censored			
10P	377 50	380 00	BCS00011177	Cuttings	0 093	509	censored	censored	censored			
10P	382 50	385 00	BCS00011179	Cuttings	0 092	219	censored	censored	censored			
10P	387 50	390 00	BCS00011181	Cuttings	0 105	400	censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
10P	392 50	395 00	BCS00011183	Cuttings	0 074	163	censored	censored	censored			
10P	397 50	400 00	BCS00011185	Cuttings	0 07	226	censored	censored	censored			
10P	402 50	405 00	BCS00011187	Cuttings	0 086	214	censored	censored	censored			
10P	407 50	410 00	BCS00011189	Cuttings	0 08	212	censored	censored	censored			
10P	412 50	415 00	BCS00011191	Cuttings	0 071	117	censored	censored	censored			
10P	417 50	420 00	BCS00011193	Cuttings	0 082	119	censored	censored	censored			
10P	422 50	425 00	BCS00011195	Cuttings	0 068	202	censored	censored	censored			
10P	427 50	430 00	BCS00011197	Cuttings	0 062	238	censored	censored	censored			
10P	432 50	435 00	BCS00011199	Cuttings	0 051	131	censored	censored	censored			
10P	437 50	440 00	BCS00011201	Cuttings	0 064	187	censored	censored	censored			
10P	442 50	445 00	BCS00011203	Cuttings	0 033	121	censored	censored	censored			
10P	447 50	450 00	BCS00011205	Cuttings	0 077	120	censored	censored	censored			
10P	452 50	455 00	BCS00011207	Cuttings	0 07	137	censored	censored	censored			
10P	457 50	460 00	BCS00011209	Cuttings	0 074	221	censored	censored	censored			
10P	462 50	465 00	BCS00011211	Cuttings	0 051	143	censored	censored	censored			
10P	467 50	470 00	BCS00011213	Cuttings	0 042	115	censored	censored	censored			
10P	472 50	475 00	BCS00011215	Cuttings	0 036	114	censored	censored	censored			
10P	477 50	480 00	BCS00011217	Cuttings	0 042	124	censored	censored	censored			
10P	482 50	485 00	BCS00011219	Cuttings	0 054	197	censored	censored	censored			
10P	487 50	490 00	BCS00011221	Cuttings	0 054	123	censored	censored	censored			
10P	492 50	495 00	BCS00011223	Cuttings	0 048	136	censored	censored	censored			
10P	497 50	500 00	BCS00011225	Cuttings	0 034	93	censored	censored	censored			
10P	502 50	505 00	BCS00011227	Cuttings	0 047	171	censored	censored	censored			
10P	507 50	510 00	BCS00011229	Cuttings	0 044	132	censored	censored	censored			
10P	512 50	515 00	BCS00011231	Cuttings	0 035	138	censored	censored	censored			
10P	517 50	520 00	BCS00011233	Cuttings	0 06	129	censored	censored	censored			
10P	522 50	525 00	BCS00011235	Cuttings	0 074	267	censored	censored	censored			
10P	527 50	530 00	BCS00011237	Cuttings	0 053	160	censored	censored	censored			
10P	532 50	535 00	BCS00011239	Cuttings	0 071	167	censored	censored	censored			
10P	537 50	540 00	BCS00011241	Cuttings	0 047	96	censored	censored	censored			
10P	542 50	545 00	BCS00011243	Cuttings	0 056	98	censored	censored	censored			
10P	547 50	550 00	BCS00011245	Cuttings	0 069	78	censored	censored	censored			
10P	552 50	555 00	BCS00011247	Cuttings	0 094	82	censored	censored	censored			
10P	557 50	560 00	BCS00011249	Cuttings	0 116	74	censored	censored	censored			
10P	562 50	565 00	BCS00011251	Cuttings	0 067	73	censored	censored	censored			
10P	567 50	570 00	BCS00011253	Cuttings	0 087	91	censored	censored	censored			
10P	572 50	575 00	BCS00011255	Cuttings	0 103	78	censored	censored	censored			
10P	577 50	580 00	BCS00011257	Cuttings	0 081	69	censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
10P	582 50	585 00	BCS00011259	Cuttings	censored	censored	censored	censored	censored			
10P	587 50	590 00	BCS00011261	Cuttings	censored	censored	censored	censored	censored			
10P	592 50	595 00	BCS00011263	Cuttings	censored	censored	censored	censored	censored			
10P	597 50	600 00	BCS00011265	Cuttings	censored	censored	censored	censored	censored			
10P	602 50	605 00	BCS00011267	Cuttings	censored	censored	censored	censored	censored			
10P	607 50	610 00	BCS00011269	Cuttings	censored	censored	censored	censored	censored			
10P	612 50	615 00	BCS00011271	Cuttings	censored	censored	censored	censored	censored			
10P	617 50	620 00	BCS00011273	Cuttings	censored	censored	censored	censored	censored			
10P	622 50	625 00	BCS00011275	Cuttings	censored	censored	censored	censored	censored			
10P	627 50	630 00	BCS00011277	Cuttings	censored	censored	censored	censored	censored			
10P	632 50	635 00	BCS00011279	Cuttings	censored	censored	censored	censored	censored			
10P	637 50	640 00	BCS00011281	Cuttings	censored	censored	censored	censored	censored			
10P	642 50	645 00	BCS00011283	Cuttings	censored	censored	censored	censored	censored			
10P	647 50	650 00	BCS00011285	Cuttings	censored	censored	censored	censored	censored			
10P	652 50	655 00	BCS00011287	Cuttings	censored	censored	censored	censored	censored			
10P	657 50	660 00	BCS00011289	Cuttings	censored	censored	censored	censored	censored			
10P	662 50	665 00	BCS00011291	Cuttings	censored	censored	censored	censored	censored			
10P	667 50	670 00	BCS00011293	Cuttings			censored	censored	censored			
10P	672 50	675 00	BCS00011295	Cuttings			censored	censored	censored			
10P	677 50	680 00	BCS00011297	Cuttings			censored	censored	censored			
10P	682 50	685 00	BCS00011299	Cuttings			censored	censored	censored			
10P	687 50	690 00	BCS00011301	Cuttings			censored	censored	censored			
10P	692 50	695 00	BCS00011303	Cuttings			censored	censored	censored			
10P	697 50	700 00	BCS00011305	Cuttings			censored	censored	censored			
10P	702 50	705 00	BCS00011307	Cuttings			censored	censored	censored			
10P	707 50	710 00	BCS00011309	Cuttings			censored	censored	censored			
10P	712 50	715 00	BCS00011311	Cuttings			censored	censored	censored			
10P	717 50	720 00	BCS00011313	Cuttings			censored	censored	censored			
10P	722 50	725 00	BCS00011315	Cuttings			censored	censored	censored			
10P	727 50	730 00	BCS00011317	Cuttings			censored	censored	censored			
10P	732 50	735 00	BCS00011319	Cuttings			censored	censored	censored			
10P	737 50	740 00	BCS00011321	Cuttings			censored	censored	censored			
10P	742 50	745 00	BCS00011323	Cuttings			censored	censored	censored			
10P	747 50	750 00	BCS00011325	Cuttings			censored	censored	censored			
10P	752 50	755 00	BCS00011327	Cuttings			censored	censored	censored			
10P	757 50	760 00	BCS00011329	Cuttings			censored	censored	censored			
10P	762 50	765 00	BCS00011331	Cuttings			censored	censored	censored			
10P	767 50	770 00	BCS00011333	Cuttings			censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
10P	772 50	775 00	BCS00011335	Cuttings			censored	censored	censored			
10P	777 50	780 00	BCS00011337	Cuttings			censored	censored	censored			
10P	782 50	785 00	BCS00011339	Cuttings			censored	censored	censored			
10P	787 50	790 00	BCS00011341	Cuttings			censored	censored	censored			
10SA	2 50	5 00	BCS00009402	Cuttings	0 005	462	21 7	65 4	12 9			
10SA	7 50	10 00	BCS00009404	Cuttings	0 234	626	30 6	59 3	10 1	2 2	7 6	50 4
10SA	12 50	15 00	BCS00009406	Cuttings	0 18	515	36 4	49 5	14 1	1 5	5 2	31 2
10SA	17 50	20 00	BCS00009408	Cuttings	0 09	448	44 8	48 3	6 9			
10SA	22 50	25 00	BCS00009410	Cuttings	0 048	487	21 2	71 3	7 5	1 4	7 3	47 1
10SA	27 50	30 00	BCS00009412	Cuttings	0 04	327	26 0	60 0	14 0	5 5	9 6	48 1
10SA	32 50	35 00	BCS00009414	Cuttings	0 03	239	22 6	65 0	12 4			
10SA	37 50	40 00	BCS00009416	Cuttings	0 029	204	18 7	67 6	13 7			
10SA	42 50	45 00	BCS00009418	Cuttings	0 023	242	21 1	67 4	11 5			
10SA	47 50	50 00	BCS00009420	Cuttings	0 037	132	32 5	62 6	4 9			
10SA	52 50	55 00	BCS00009422	Cuttings	0 027	101	31 8	52 7	15 5			
10SA	57 50	60 00	BCS00009424	Cuttings	0 015	191	20 5	64 2	15 3			
10SA	62 50	65 00	BCS00009426	Cuttings	0 01	99	17 6	64 3	18 1			
10SA	67 50	70 00	BCS00009428	Cuttings	0 023	95	31 3	51 9	16 8			
10SA	72 50	75 00	BCS00009430	Cuttings	0 035	80	21 7	64 1	14 2			
10SA	77 50	80 00	BCS00009432	Cuttings	0 031	73	22 3	64 9	12 8			
10SA	82 50	85 00	BCS00009434	Cuttings	0 037	856	32 2	59 6	8 2			
10SA	87 50	90 00	BCS00009436	Cuttings	0 042	105	16 0	69 9	14 1			
10SA	92 50	95 00	BCS00009438	Cuttings	0 034	76	31 3	57 5	11.2			
10SA	97.50	100 00	BCS00009440	Cuttings	0 028	79	23 6	60 7	15 6			
10SA	102 50	105 00	BCS00009442	Cuttings	0 02	111	41 8	39 7	18 5			
10SA	107 50	110 00	BCS00009444	Cuttings	0 033	126	38 8	47 7	13 5			
10SA	112 50	115 00	BCS00009446	Cuttings	0 049	110	17 4	68 7	13 9			
10SA	117 50	120 00	BCS00009448	Cuttings	0 043	68	31 9	48 9	19 2			
10SA	122 50	125 00	BCS00009450	Cuttings	0 035	106	24 5	64 0	11 5			
10SA	127 50	130 00	BCS00009452	Cuttings	0 032	82	33 8	56 3	9 9			
10SA	132 50	135 00	BCS00009454	Cuttings	0 026	719	13 8	74 6	11 6			
10SA	137 50	140 00	BCS00009456	Cuttings	0 021	116	13 7	71 3	15 0			
10SA	142 50	145 00	BCS00009458	Cuttings	0 031	86	29 7	55 3	15 0			
10SA	147 50	150 00	BCS00009460	Cuttings	0 04	107	23 0	61 9	15 1			
10SA	152 50	155 00	BCS00009462	Cuttings	0 043	105	44 0	43 0	13 0			
10SA	157 50	160 00	BCS00009464	Cuttings	0 024	152	19 8	65 3	14 8			
10SA	162 50	165 00	BCS00009466	Cuttings	0 028	198	20 5	65 8	13 7			
10SA	167 50	170 00	BCS00009468	Cuttings	0 005	276	26 4	58 5	15 1			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
10SA	172 50	175 00	BCS00009470	Cuttings	0 018	705	33 0	51 8	15 2			
10SA	177 50	180 00	BCS00009472	Cuttings	0 099	120	30 1	56 7	13 2			
10SA	182 50	185 00	BCS00009474	Cuttings	0 013	147	25 5	47 6	26 9			
10SA	187 50	190 00	BCS00009476	Cuttings	0 02	65	30 4	58 3	11 4			
10SA	192 50	195 00	BCS00009478	Cuttings	0 033	50	38 6	54 0	7 4			
10SA	197 50	200 00	BCS00009480	Cuttings	0 117	62	15 7	68 2	16 1			
10SA	202 50	205 00	BCS00009482	Cuttings	0 043	82	30 4	55 5	14 1			
10SA	207 50	210 00	BCS00009484	Cuttings	0 036	157	25 5	60 0	14 6	6 6	9 0	43 5
10SA	212 50	215 00	BCS00009486	Cuttings	0 065	102	22 4	64 9	12 6			
10SA	217 50	220 00	BCS00009488	Cuttings	0 042	40	30 2	56 0	13 8			
10SA	222 50	225 00	BCS00009490	Cuttings	0 066	193	18 0	65 5	16 5			
10SA	227 50	230 00	BCS00009492	Cuttings	0 023	123	22 5	62 5	15 0			
10SA	232 50	235 00	BCS00009494	Cuttings	0 022	142	22 9	57 9	19 2			
10SA	237 50	240 00	BCS00009496	Cuttings	0 032	70	26 0	59 5	14 5			
10SA	242 50	245 00	BCS00009498	Cuttings	0 064	81	27 5	60 2	12 3			
10SA	247 50	250 00	BCS00009500	Cuttings	0 03	65	33 2	54 2	12 6			
10SA	252 50	255 00	BCS00009502	Cuttings	0 038	80	17 8	50 7	31 5			
10SA	257 50	260 00	BCS00009504	Cuttings	0 05	68	27 2	60 2	12 6			
10SA	262 50	265 00	BCS00009506	Cuttings	0 054	368	33 2	53 5	13 3			
10SA	267 50	270 00	BCS00009508	Cuttings	0 041	260	47 5	40 6	11 9			
10SA	272 50	275 00	BCS00009510	Cuttings	0 042	212	35 6	39 6	24 8	14 6	12 9	45 3
10SA	277 50	280 00	BCS00009512	Cuttings	0 029	539	29 6	53 0	17 4			
10SA	282 50	285 00	BCS00009514	Cuttings	0 061	367	39 0	48 0	13 0			
10SA	287 50	290 00	BCS00009516	Cuttings	0 033	142	46 1	46 6	7 3			
10SA	292 50	295 00	BCS00009518	Cuttings	0 034	70	44 4	45 4	10 2			
10SA	297 50	300 00	BCS00009520	Cuttings	0 092	41	54 9	34 2	10 9			
10SA	302 50	305 00	BCS00009522	Cuttings	0 006	70	25 4	33 2	41 3	17 2	9 8	55 7
10SA	307 50	310 00	BCS00009524	Cuttings	0 052	101	31 0	54 7	14 3			
10SA	312 50	315 00	BCS00009526	Cuttings	0 047	46	36 8	50 5	12 7			
10SA	317 50	320 00	BCS00009528	Cuttings	0 035	52	16 0	65 5	18 5			
10SA	322 50	325 00	BCS00009530	Cuttings	0 054	157	31 3	55 0	13 7			
10SA	327 50	330 00	BCS00009532	Cuttings	0 048	116	25 2	58 0	16 8			
10SA	332 50	335 00	BCS00009534	Cuttings	0 048	253	32 7	49 2	18 1			
10SA	337 50	340 00	BCS00009536	Cuttings	0 037	126	32 0	54 0	14 1			
10SA	342 50	345 00	BCS00009538	Cuttings	0 053	58	24 9	51 4	23 7			
10SA	347 50	350 00	BCS00009540	Cuttings	0 048	80	26 2	61 3	12 6			
10SA	352 50	355 00	BCS00009542	Cuttings	0 035	310	25 9	51 3	22 8			
10SA	357 50	360 00	BCS00009544	Cuttings	0 056	392	35 0	50 0	15 0			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
10SA	362 50	365 00	BCS00009546	Cuttings	0 068	75	21 2	63 3	15 4			
10SA	367 50	370 00	BCS00009548	Cuttings	0 045	132	37 6	46 9	15 5			
10SA	372 50	375 00	BCS00009550	Cuttings	0 042	147	27 2	54 9	17 9			
10SA	377 50	380 00	BCS00009552	Cuttings	0 047	350	18 9	54 3	26 7			
10SA	382 50	385 00	BCS00009554	Cuttings	0 047	263	24 7	55 2	20 1			
10SA	387 50	390 00	BCS00009556	Cuttings	0 05	336	18 8	60 0	21 2			
10SA	392 50	395 00	BCS00009558	Cuttings	0 005	121	28 0	50 1	21 9			
10SA	397 50	400 00	BCS00009560	Cuttings	0 034	193	25 0	54 5	20 5			
10SA	402 50	405 00	BCS00009562	Cuttings	0 057	275	31 4	53 2	15 4			
10SA	407 50	410 00	BCS00009564	Cuttings	0 042	174	28 6	53 2	18 2			
10SA	412 50	415 00	BCS00009566	Cuttings	0 051	246	15 1	59 7	25 2			
10SA	417 50	420 00	BCS00009568	Cuttings	0 044	156	27 4	53 3	19 3			
10SA	422 50	425 00	BCS00009570	Cuttings	0 044	369	22 1	57 8	20 0			
10SA	427 50	430 00	BCS00009572	Cuttings	0 041	316	17 5	63 9	18 7			
10SA	432 50	435 00	BCS00009574	Cuttings	0 051	228	22 6	54 2	23 2			
10SA	437 50	440 00	BCS00009576	Cuttings	0 073	304	21 5	54 2	24 4			
10SA	442 50	445 00	BCS00009578	Cuttings	0 062	403	23 0	51 4	25 6			
10SA	447 50	450 00	BCS00009580	Cuttings	0 074	345	19 7	57 3	23 0			
10SA	452 50	455 00	BCS00009582	Cuttings	0 042	347	19 6	58 7	21 7			
10SA	457 50	460 00	BCS00009584	Cuttings	0 045	369	29 5	52 1	18 4			
10SA	462 50	465 00	BCS00009586	Cuttings	0 126	592	10 0	62 6	27 4			
10SA	467 50	470 00	BCS00009588	Cuttings	0 054	364	47 0	20 1	32 8			
10SA	472 50	475 00	BCS00009590	Cuttings	0 052	328	11 5	65 0	23 5			
10SA	477 50	480 00	BCS00009592	Cuttings	0 049	308	26 0	56 0	17 9			
10SA	482 50	485 00	BCS00009594	Cuttings	0 056	240	23 1	56 2	20 7			
10SA	487 50	490 00	BCS00009596	Cuttings	0 051	199	17 2	56 4	26 4			
10SA	492 50	495 00	BCS00009598	Cuttings	0 056	281	21 7	54 0	24 3			
10SA	497 50	500 00	BCS00009600	Cuttings	0 076	307	10 7	61 1	28 2			
10SA	502 50	505 00	BCS00009602	Cuttings	0 055	422	22 3	55 8	22 0			
10SA	507 50	510 00	BCS00009604	Cuttings	0 057	214	18 4	56 5	25 1			
10SA	512 50	515 00	BCS00009606	Cuttings	0 044	167	20 7	57 8	21 5			
10SA	517 50	520 00	BCS00009608	Cuttings	0 03	172	27 4	52 0	20 7			
10SA	522 50	525 00	BCS00009610	Cuttings	0 138	91	24 2	51 0	24 8			
10SA	527 50	530 00	BCS00009612	Cuttings	0 072	75	20 1	61 5	18 4			
10SA	532 50	535 00	BCS00009614	Cuttings	0 068	267	21 1	61 4	17 5			
10SA	537 50	540 00	BCS00009616	Cuttings	0 055	86	24 2	56 4	19 4			
10SA	542 50	545 00	BCS00009618	Cuttings	0 063	90	24 4	57 9	17 7			
10SA	547 50	550 00	BCS00009620	Cuttings	0 055	64	29 6	52 1	18 3			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
10SA	552 50	555 00	BCS00009622	Cuttings	0 077	74	21 3	51 0	27 7			
10SA	557 50	560 00	BCS00009624	Cuttings	0 056	69	28 3	53 9	17 8			
10SA	562 50	565 00	BCS00009626	Cuttings	0 06	69	10 8	57 0	32 2			
10SA	567 50	570 00	BCS00009628	Cuttings	0 064	104	14 9	57 6	27 5			
10SA	572 50	575 00	BCS00009630	Cuttings	0 056	86	26 3	54 2	19 5			
10SA	577 50	580 00	BCS00009632	Cuttings	0 083	67	22 6	55 3	22 1			
10SA	582 50	585 00	BCS00009634	Cuttings	censored	censored	14 2	57 6	28 2			
10SA	587 50	590 00	BCS00009636	Cuttings	censored	censored	30 3	53 9	15 8			
10SA	592 50	595 00	BCS00009638	Cuttings	censored	censored	16 1	69 4	14 6			
10SA	597 50	600 00	BCS00009640	Cuttings	censored	censored	25 0	61 8	13 2			
10SA	602 50	605 00	BCS00009642	Cuttings	censored	censored	20 8	54 7	24 5			
10SA	607 50	610 00	BCS00009644	Cuttings	censored	censored	22 1	52 0	25 9			
10SA	612 50	615 00	BCS00009646	Cuttings	censored	censored	26 7	54 3	19 0			
10SA	617 50	620 00	BCS00009648	Cuttings	censored	censored	36 9	51 9	11 2			
10SA	622 50	625 00	BCS00009650	Cuttings	censored	censored	38 0	43 1	18 8			
10SA	627 50	630 00	BCS00009652-10SA-11995	Cuttings	censored	censored	21 6	54 2	24 1			
10SA	632 50	635 00	BCS00009654-10SA-11996	Cuttings	censored	censored	21 7	59 5	18 8			
10SA	637 50	640 00	BCS00009656-10SA-11997	Cuttings	censored	censored	23 9	54 3	21 8			
10SA	642 50	645 00	BCS00009658-10SA-11998	Cuttings	censored	censored	18 8	48 5	32 7	7 7	22 7	48 8
10SA	647 50	650 00	BCS00009660-10SA-11999	Cuttings	censored	censored	20 0	44 2	35 8			
10SA	652 50	655 00	BCS00009662-10SA-12000	Cuttings	censored	censored	48 1	35 6	16 4			
10SA	657 50	660 00	BCS00009664-10SA-12001	Cuttings	censored	censored	22 4	52 7	24 9	1 7	5 8	19 7
10SA	662 50	665 00	BCS00009666-10SA-12002	Cuttings	censored	censored	19 4	66 7	13 9			
10SA	665 00	670 00	BCS00009667	Cuttings			censored	censored	censored	censored	censored	censored
10SA	670 00	675 00	BCS00009668-10SA-12004	Cuttings			censored	censored	censored			
10SA	675 00	680 00	BCS00009669	Cuttings			censored	censored	censored	censored	censored	censored
10SA	680 00	685 00	BCS00009670-10SA-12006	Cuttings			censored	censored	censored			
10SA	685 00	690 00	BCS00009671	Cuttings			censored	censored	censored	censored	censored	censored
10SA	690 00	695 00	BCS00009672-10SA-12008	Cuttings			censored	censored	censored			
10SA	695 00	700 00	BCS00009673	Cuttings			censored	censored	censored			
10SA	700 00	705 00	BCS00009674-10SA-12010	Cuttings			censored	censored	censored	censored	censored	censored
10SA	705 00	710 00	BCS00009675	Cuttings			censored	censored	censored			
10SA	710 00	715 00	BCS00009676-10SA-12012	Cuttings			censored	censored	censored			
10SA	715 00	720 00	BCS00009677	Cuttings			censored	censored	censored			
10SA	720 00	725 00	BCS00009678-10SA-12014	Cuttings			censored	censored	censored			
10SA	725 00	730 00	BCS00009679	Cuttings			censored	censored	censored	censored	censored	censored
10SA	730 00	735 00	BCS00009680-10SA-12016	Cuttings			censored	censored	censored			
10SA	735 00	740 00	BCS00009681	Cuttings			censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
10SA	740 00	745 00	BCS00009682-10SA-12018	Cuttings			censored	censored	censored			
10SA	745 00	750 00	BCS00009683	Cuttings			censored	censored	censored	censored	censored	censored
18P	2 50	5 00	BCS00011387	Cuttings	0 042	187	42 7	44 6	12 6			
18P	7 50	10 00	BCS00011389	Cuttings	0 038	176	33 8	56 4	9 8			
18P	12 50	15 00	BCS00011391	Cuttings	0 025	126	46 7	47 5	5 8			
18P	17 50	20 00	BCS00011393	Cuttings	0 031	164	27 6	67 1	5 2			
18P	22 50	25 00	BCS00011395	Cuttings	0 025	154	53 6	40 9	5 5			
18P	27 50	30 00	BCS00011397	Cuttings	0 042	155	43 7	48 9	7 4			
18P	32 50	35 00	BCS00011399	Cuttings	0 025	151	42 5	48 1	9 4			
18P	37 50	40 00	BCS00011401	Cuttings	0 042	177	46 4	44 1	9 5			
18P	42 50	45 00	BCS00011403	Cuttings	0 033	160	17 2	67 0	15 7			
18P	45 00	50 00	BCS00011405	Cuttings	0 004	censored	censored	censored	censored			
19IM1A	2 50	5 00	BCS00008902	Cuttings	0 025	609	31 0	64 0	5 0			
19IM1A	7 50	10 00	BCS00008904	Cuttings	0 091	869	49 0	43 0	8 0	1 1	2 3	25 0
19IM1A	12 50	15 00	BCS00008906	Cuttings	0 074	1180	32 0	62 0	6 0	1 2	5 2	51.3
19IM1A	17 50	20 00	BCS00008908	Cuttings	0 056	960	46 0	47 0	8 0			
19IM1A	22 50	25 00	BCS00008910	Cuttings	0 031	640	31 0	63 0	7 0	2 7	4 7	39 2
19IM1A	27 50	30 00	BCS00008912	Cuttings	0 03	490	15 0	75 0	11 0	3 6	7 4	59 0
19IM1A	32 50	35 00	BCS00008914	Cuttings	0 041	1399	22 0	66 0	12 0			
19IM1A	37 50	40 00	BCS00008916	Cuttings	0 024	227	33 0	57 0	10 0			
19IM1A	42 50	45 00	BCS00008918	Cuttings	0 233	261	15 0	71 0	14 0			
19IM1A	47 50	50 00	BCS00008920	Cuttings	0 176	170	14 0	73 0	13 0			
19IM1A	52 50	55 00	BCS00008922	Cuttings	0 13	202	14 0	79 0	8 0			
19IM1A	57 50	60 00	BCS00008924	Cuttings	0 175	189	25 0	65 0	10 0			
19IM1A	62 50	65 00	BCS00008926	Cuttings	0 171	234	14 0	74 0	12 0			
19IM1A	67 50	70 00	BCS00008928	Cuttings	0 162	222	30 0	56 0	14 0			
19IM1A	72 50	75 00	BCS00008930	Cuttings	0 01	135	45 0	47 0	8 0			
19IM1A	77 50	80 00	BCS00008932	Cuttings	0 146	253	28 0	63 0	9 0			
19IM1A	82 50	85 00	BCS00008934	Cuttings	0 019	206	16 0	74 0	10 0			
19IM1A	87 50	90 00	BCS00008936	Cuttings	0 03	264	18 0	68 0	14 0			
19IM1A	92 50	95 00	BCS00008938	Cuttings	0 035	287	29 0	62 0	9 0			
19IM1A	97 50	100 00	BCS00008940	Cuttings	0 043	376	19 0	69 0	12 0			
19IM1A	102 50	105 00	BCS00008942	Cuttings	0 026	1247	19 0	70 0	11 0			
19IM1A	107 50	110 00	BCS00008944	Cuttings	0 031	397	13 0	77 0	10 0			
19IM1A	112 50	115 00	BCS00008946	Cuttings	0 033	1265	26 0	67 0	7 0			
19IM1A	117 50	120 00	BCS00008948	Cuttings	0 034	1241	22 0	70 0	8 0			
19IM1A	122 50	125 00	BCS00008950	Cuttings	0 028	1249	33 0	60 0	6 0			
19IM1A	127 50	130 00	BCS00008952	Cuttings	0 029	280	14 0	80 0	6 0			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
19IM1A	132 50	135 00	BCS00008954	Cuttings	0 035	286	20 0	69 0	11 0			
19IM1A	137 50	140 00	BCS00008956	Cuttings	0 034	211	26 0	68 0	5 0			
19IM1A	142 50	145 00	BCS00008958	Cuttings	0 036	160	14 0	81 0	5 0			
19IM1A	147 50	150 00	BCS00008960	Cuttings	0 037	214	16 0	78 0	5 0			
19IM1A	152 50	155 00	BCS00008962	Cuttings	0 043	142	21 0	69 0	9 0			
19IM1A	157 50	160 00	BCS00008964	Cuttings	0 037	202	16 0	74 0	10 0			
19IM1A	162 50	165 00	BCS00008966	Cuttings	0 048	249	17 0	73 0	10 0			
19IM1A	167 50	170 00	BCS00008968	Cuttings	0 04	250	24 0	67 0	9 0			
19IM1A	172 50	175 00	BCS00008970	Cuttings	0 034	173	17 0	73 0	10 0			
19IM1A	177 50	180 00	BCS00008972	Cuttings	0 06	175	18 0	72 0	10 0			
19IM1A	182 50	185 00	BCS00008974	Cuttings	0 049	293	25 0	67 0	8 0			
19IM1A	187 50	190 00	BCS00008976	Cuttings	0 034	207	24 0	69 0	7 0			
19IM1A	192 50	195 00	BCS00008978	Cuttings	0 039	162	21 0	72 0	7 0			
19IM1A	197 50	200 00	BCS00008980	Cuttings	0 033	263	21 0	72 0	7 0			
19IM1A	202 50	205 00	BCS00008982	Cuttings	0 039	192	26 0	64 0	10 0			
19IM1A	207 50	210 00	BCS00008984	Cuttings	0 053	203	19 0	66 0	15 0	9 0	8 8	57 1
19IM1A	212 50	215 00	BCS00008986	Cuttings	0 034	980	22 0	68 0	10 0			
19IM1A	217 50	220 00	BCS00008988	Cuttings	0 033	165	31 0	62 0	7 0			
19IM1A	222 50	225 00	BCS00008990	Cuttings	0 033	1520	27 0	62 0	10 0			
19IM1A	227 50	230 00	BCS00008992	Cuttings	0 028	131	26 0	65 0	9 0			
19IM1A	232 50	235 00	BCS00008994	Cuttings	0 033	235	25 0	64 0	11 0			
19IM1A	237 50	240 00	BCS00008996	Cuttings	0 031	147	26 0	63 0	11 0			
19IM1A	242 50	245 00	BCS00008998	Cuttings	0 039	131	20 0	64 0	15 0			
19IM1A	247 50	250 00	BCS00009000	Cuttings	0 037	190	21 0	63 0	16 0			
19IM1A	252 50	255 00	BCS00009002	Cuttings	0 031	175	19 0	66 0	15 0			
19IM1A	257 50	260 00	BCS00009004	Cuttings	0 028	156	19 0	69 0	13 0			
19IM1A	262 50	265 00	BCS00009006	Cuttings	0 024	164	22 0	66 0	12 0			
19IM1A	267 50	270 00	BCS00009008	Cuttings	0 029	124	27 0	61 0	12 0			
19IM1A	272 50	275 00	BCS00009010	Cuttings	0 017	147	19 0	68 0	13 0			
19IM1A	277 50	280 00	BCS00009012	Cuttings	0 033	178	24 0	68 0	8 0			
19IM1A	282 50	285 00	BCS00009014	Cuttings	0 017	1280	23 0	65 0	12 0			
19IM1A	287 50	290 00	BCS00009016	Cuttings	0 026	105	28 0	60 0	12 0			
19IM1A	292 50	295 00	BCS00009018	Cuttings	0 017	160	25 0	61 0	13 0			
19IM1A	297 50	300 00	BCS00009020	Cuttings	0 026	236	19 0	62 0	19 0			
19IM1A	302 50	305 00	BCS00009022	Cuttings	0 021	301	16 0	65 0	19 0			
19IM1A	307 50	310 00	BCS00009024	Cuttings	0 028	222	25 0	60 0	15 0			
19IM1A	312 50	315 00	BCS00009026	Cuttings	0 018	281	20 0	63 0	17 0			
19IM1A	317 50	320 00	BCS00009028	Cuttings	0 037	1810	30 0	56 0	14 0			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
19IM1A	322 50	325 00	BCS00009030	Cuttings	0 018	1237	19 0	68 0	13 0			
19IM1A	327 50	330 00	BCS00009032	Cuttings	0 026	1348	17 0	66 0	17 0			
19IM1A	332 50	335 00	BCS00009034	Cuttings	0 026	201	18 0	67 0	15 0			
19IM1A	337 50	340 00	BCS00009036	Cuttings	0 02	180	20 0	67 0	14 0			
19IM1A	342 50	345 00	BCS00009038	Cuttings	0 023	108	25 0	65 0	11 0			
19IM1A	347 50	350 00	BCS00009040	Cuttings	0 022	115	18 0	64 0	18 0			
19IM1A	352 50	355 00	BCS00009042	Cuttings	0 066	144	20 0	62 0	18 0			
19IM1A	357 50	360 00	BCS00009044	Cuttings	0 043	141	28 0	63 0	8 0			
19IM1A	362 50	365 00	BCS00009046	Cuttings	censored	censored	24 0	59 0	17 0			
19IM1A	367 50	370 00	BCS00009048	Cuttings	censored	censored	35 0	56 0	9 0			
19IM1A	372 50	375 00	BCS00009050	Cuttings	censored	censored	21 0	61 0	18 0			
19IM1A	377 50	380 00	BCS00009052	Cuttings	censored	censored	18 0	62 0	20 0			
19IM1A	382 50	385 00	BCS00009054	Cuttings	censored	censored	24 0	58 0	18 0			
19IM1A	387 50	390 00	BCS00009056	Cuttings	censored	censored	25 0	64 0	12 0			
19IM1A	392 50	395 00	BCS00009058	Cuttings	censored	censored	17 0	64 0	20 0			
19IM1A	397 50	400 00	BCS00009060	Cuttings	censored	censored	16 0	63 0	21 0			
19IM1A	402 50	405 00	BCS00009062	Cuttings	censored	censored	18 0	65 0	17 0			
19IM1A	407 50	410 00	BCS00009064	Cuttings	censored	censored	15 0	67 0	18 0			
19IM1A	412 50	415 00	BCS00009066	Cuttings	censored	censored	16 0	66 0	18 0			
19IM1A	417 50	420 00	BCS00009068	Cuttings	censored	censored	16 0	72 0	12 0			
19IM1A	422 50	425 00	BCS00009070	Cuttings	censored	censored	25 0	66 0	9 0			
19IM1A	427 50	430 00	BCS00009072	Cuttings	censored	censored	10 0	69 0	21 0			
19IM1A	432 50	435 00	BCS00009074	Cuttings	censored		44 0	43 0	13 0			
19IM1A	437 50	440 00	BCS00009076	Cuttings	censored		17 0	64 0	19 0			
19IM1A	442 50	445 00	BCS00009078	Cuttings	censored		26 0	64 0	10 0			
19IM1A	447 50	450 00	BCS00009080	Cuttings	censored		14 0	75 0	11 0			
19IM1A	452 50	455 00	BCS00009082	Cuttings	censored		14 0	66 0	20 0			
19IM1A	457 50	460 00	BCS00009084	Cuttings	censored		28 0	59 0	12 0			
19IM1A	462 50	465 00	BCS00009086	Cuttings	censored		26 0	64 0	10 0			
19IM1A	467 50	470 00	BCS00009088	Cuttings	censored		24 0	65 0	12 0			
19IM1A	472 50	475 00	BCS00009090	Cuttings	censored		5 0	62 0	33 0			
19IM1A	477 50	480 00	BCS00009092	Cuttings	censored		16 0	71 0	13 0			
19IM1A	482 50	485 00	BCS00009094	Cuttings	censored		16 0	70 0	13 0			
19IM1A	487 50	490 00	BCS00009096	Cuttings	censored		13 0	73 0	14 0			
19IM1A	492 50	495 00	BCS00009098	Cuttings	censored		15 0	67 0	18 0			
19IM1A	497 50	500 00	BCS00009100	Cuttings	censored		16 0	70 0	13 0			
19IM1A	502 50	505 00	BCS00009102	Cuttings	censored		16 0	68 0	16 0			
19IM1A	507 50	510 00	BCS00009104	Cuttings	censored		20 0	70 0	10 0			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
19IM1A	512 50	515 00	BCS00009106	Cuttings	censored		19 0	63 0	18 0			
19IM1A	517 50	520 00	BCS00009108	Cuttings	censored		18 0	67 0	16 0			
19IM1A	522 50	525 00	BCS00009110	Cuttings	censored		censored	censored	censored			
19IM1A	527 50	530 00	BCS00009112	Cuttings			censored	censored	censored			
19IM1A	532 50	535 00	BCS00009114	Cuttings			censored	censored	censored			
19IM1A	537 50	540 00	BCS00009116	Cuttings			censored	censored	censored	censored	censored	censored
19IM1A	542 50	545 00	BCS00009118	Cuttings			censored	censored	censored			
19IM1A	547 50	550 00	BCS00009120	Cuttings			censored	censored	censored			
19IM1A	552 50	555 00	BCS00009122	Cuttings			censored	censored	censored			
19IM1A	605 00	610 00	BCS00009143	Cuttings			censored	censored	censored			
19IM1A	610 00	615 00	BCS00009145	Cuttings			censored	censored	censored			
19IM1A	615 00	620 00	BCS00009147	Cuttings			censored	censored	censored			
19IM1A	620 00	625 00	BCS00009149	Cuttings			censored	censored	censored	censored	censored	censored
19IM1A	625 00	630 00	BCS00009151	Cuttings			censored	censored	censored			
19IM1A	630 00	635 00	BCS00009153	Cuttings			censored	censored	censored			
19IM1A	635 00	640 00	BCS00009155	Cuttings			censored	censored	censored			
19IM1A	640 00	645 00	BCS00009157	Cuttings			censored	censored	censored			
19IM1A	645 00	650 00	BCS00009159	Cuttings			censored	censored	censored			
19IM1A	650 00	655 00	BCS00009161	Cuttings			censored	censored	censored			
19IM1A	655 00	660 00	BCS00009163	Cuttings			censored	censored	censored			
19IM1A	660 00	665 00	BCS00009165	Cuttings			censored	censored	censored			
19IM1A	665 00	670 00	BCS00009167	Cuttings			censored	censored	censored			
19IM1A	670 00	675 00	BCS00009169	Cuttings			censored	censored	censored			
19IM1A	675 00	680 00	BCS00009171	Cuttings			censored	censored	censored			
19IM1A	680 00	685 00	BCS00009173	Cuttings			censored	censored	censored			
19IM1A	685 00	690 00	BCS00009175	Cuttings			censored	censored	censored			
19IM1A	690 00	695 00	BCS00009177	Cuttings			censored	censored	censored			
19IM1A	695 00	700 00	BCS00009179	Cuttings			censored	censored	censored	censored	censored	censored
19IM1A	700 00	705 00	BCS00009181	Cuttings			censored	censored	censored			
19IM1A	705 00	710 00	BCS00009183	Cuttings			censored	censored	censored			
19IM1A	710 00	715 00	BCS00009185	Cuttings			censored	censored	censored			
19IM1A	715 00	720 00	BCS00009187	Cuttings			censored	censored	censored			
19IM1A	720 00	725 00	BCS00009189	Cuttings			censored	censored	censored			
19IM1A	725 00	730 00	BCS00009191	Cuttings			censored	censored	censored			
19IM1A	730 00	735 00	BCS00009193	Cuttings			censored	censored	censored			
19IM1A	735 00	740 00	BCS00009195	Cuttings			censored	censored	censored			
19IM1A	740 00	745 00	BCS00009197	Cuttings			censored	censored	censored			
19IM1A	745 00	750 00	BCS00009199	Cuttings			censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
19IM1A	750 00	755 00	BCS00009201	Cuttings			censored	censored	censored			
19IM1A	755 00	760 00	BCS00009203	Cuttings			censored	censored	censored			
19IM1A	760 00	765 00	BCS00009205	Cuttings			censored	censored	censored			
19IM1A	765 00	770 00	BCS00009207	Cuttings			censored	censored	censored			
19IM1A	770 00	775 00	BCS00009209	Cuttings			censored	censored	censored			
19IM1A	775 00	780 00	BCS00009211	Cuttings			censored	censored	censored			
19IM1A	780 00	785 00	BCS00009213	Cuttings			censored	censored	censored			
19IM1A	785 00	790 00	BCS00009215	Cuttings			censored	censored	censored			
19IM1A	790 00	795 00	BCS00009217	Cuttings			censored	censored	censored			
19IM1A	795 00	800 00	BCS00009219	Cuttings			censored	censored	censored			
19IM1A	800 00	805 00	BCS00009241	Cuttings			censored	censored	censored			
19IM1A	805 00	810 00	BCS00009242	Cuttings			censored	censored	censored			
19IM1A	810 00	815 00	BCS00009243	Cuttings			censored	censored	censored			
19IM1A	815 00	820 00	BCS00009244	Cuttings			censored	censored	censored			
19IM2A	2 50	5 00	BCS00008402	Cuttings	0 039	463	27 5	67 9	4 5			
19IM2A	7 50	10 00	BCS00008404	Cuttings	0 057	963	35 4	59 4	5 3	1 6	3 5	36 9
19IM2A	12 50	15 00	BCS00008406	Cuttings	0 058	546	52 6	43 7	3 8			
19IM2A	17 50	20 00	BCS00008408	Cuttings	0 113	641	50 5	41 8	7 7			
19IM2A	22 50	25 00	BCS00008410	Cuttings	0 036	650	27 5	60 0	12 5	3 1	6 6	44 2
19IM2A	27 50	30 00	BCS00008412	Cuttings	0 029	504	27 7	66 5	5 7	4 7	6 9	54 9
19IM2A	32 50	35 00	BCS00008414	Cuttings	0 05	1412	32 3	56 7	11 1			
19IM2A	37 50	40 00	BCS00008416	Cuttings	0 036	639	26 9	64 9	8 2			
19IM2A	42 50	45 00	BCS00008418	Cuttings	0 04	276	41 3	48 6	10 1			
19IM2A	47 50	50 00	BCS00008420	Cuttings	0 026	363	22 5	67 9	9 6			
19IM2A	52 50	55 00	BCS00008422	Cuttings	0 036	445	7 3	86 9	5 8			
19IM2A	57 50	60 00	BCS00008424	Cuttings	0 029	272	34 2	60 9	4 9			
19IM2A	62 50	65 00	BCS00008426	Cuttings	0 02	344	12 4	81 1	6 5			
19IM2A	67 50	70 00	BCS00008428	Cuttings	0 009	219	17 8	75 4	6 8			
19IM2A	72 50	75 00	BCS00008430	Cuttings	0 033	369	38 8	56 2	5 0			
19IM2A	77 50	80 00	BCS00008432	Cuttings	0 024	20	15 2	82 3	2 5			
19IM2A	82 50	85 00	BCS00008434	Cuttings	0 033	380	37 4	58 3	4 3			
19IM2A	87 50	90 00	BCS00008436	Cuttings	0 02	317	27 0	60 8	12 2			
19IM2A	92 50	95 00	BCS00008438	Cuttings	0 029	258	26 6	65 8	7 6			
19IM2A	97 50	100 00	BCS00008440	Cuttings	0 027	385	32 8	55 0	12 2			
19IM2A	102 50	105 00	BCS00008442	Cuttings	0 011	1320	28 3	61 9	9 8			
19IM2A	107 50	110 00	BCS00008444	Cuttings	0 016	117	9 6	82 6	7 8			
19IM2A	112 50	115 00	BCS00008446	Cuttings	0 011	1100	34 6	58 7	6 6			
19IM2A	117 50	120 00	BCS00008448	Cuttings	0 015	1160	17 4	76 3	6 4			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
19IM2A	122 50	125 00	BCS00008450	Cuttings	0 013	1581	40 9	56 0	3 1			
19IM2A	127 50	130 00	BCS00008452	Cuttings	0 01	1180	34 2	60 5	5 3			
19IM2A	132 50	135 00	BCS00008454	Cuttings	0 009	151	11 3	61 3	27 4			
19IM2A	137 50	140 00	BCS00008456	Cuttings	0 015	358	25 5	71 0	3 5			
19IM2A	142 50	145 00	BCS00008458	Cuttings	0 021	1523	32 4	62 2	5 5			
19IM2A	147 50	150 00	BCS00008460	Cuttings	0 015	272	43 7	52 8	3 5			
19IM2A	152 50	155 00	BCS00008462	Cuttings	0 016	693	19 3	71 4	9 3			
19IM2A	157 50	160 00	BCS00008464	Cuttings	0 02	175	34 2	61 7	4 0			
19IM2A	162 50	165 00	BCS00008466	Cuttings	0 023	216	35 5	59 1	5 4			
19IM2A	167 50	170 00	BCS00008468	Cuttings	0 029	136	25 6	69 7	4 7			
19IM2A	172 50	175 00	BCS00008470	Cuttings	0 025	130	25 5	68 0	6 5			
19IM2A	177 50	180 00	BCS00008472	Cuttings	0 028	115	27 6	63 6	8 9			
19IM2A	182 50	185 00	BCS00008474	Cuttings	0 019	104	22 5	67 8	9 7			
19IM2A	187 50	190 00	BCS00008476	Cuttings	0 009	83	31 2	63 8	5 0			
19IM2A	192 50	195 00	BCS00008478	Cuttings	0 029	116	28 8	63 7	7 5			
19IM2A	197 50	200 00	BCS00008480	Cuttings	0 031	108	33 2	56 8	10 0			
19IM2A	202 50	205 00	BCS00008482	Cuttings	0 035	101	26 6	63 8	9 6			
19IM2A	207 50	210 00	BCS00008484	Cuttings	0 043	153	13 8	66 1	20 1			
19IM2A	212 50	215 00	BCS00008486	Cuttings	0 028	1124	32 0	61 6	6 4			
19IM2A	217 50	220 00	BCS00008488	Cuttings	0 024	185	31 0	62 5	6 5			
19IM2A	222 50	225 00	BCS00008490	Cuttings	0 084	1487	25 7	69 5	4 9			
19IM2A	227 50	230 00	BCS00008492	Cuttings	0 023	133	29 1	62 5	8 4	4 2	8 4	43 0
19IM2A	232 50	235 00	BCS00008494	Cuttings	0 031	206	18 3	66 4	15 3			
19IM2A	237 50	240 00	BCS00008496	Cuttings	0 02	142	22 5	62 1	15 4			
19IM2A	242 50	245 00	BCS00008498	Cuttings	0 033	106	31 3	59 7	9 0			
19IM2A	247 50	250 00	BCS00008500	Cuttings	0 039	136	29 9	61 9	8 2			
19IM2A	252 50	255 00	BCS00008502	Cuttings	0 03	123	37 2	54 9	7 9			
19IM2A	257 50	260 00	BCS00008504	Cuttings	0 032	107	25 6	64 4	10 0			
19IM2A	262 50	265 00	BCS00008506	Cuttings	0 031	98	23 9	65 9	10 2			
19IM2A	267 50	270 00	BCS00008508	Cuttings	0 021	192	21 3	67 4	11 3			
19IM2A	272 50	275 00	BCS00008510	Cuttings	0 039	219	21 0	66 1	12 8			
19IM2A	277 50	280 00	BCS00008512	Cuttings	0 032	175	17 4	66 0	16 7			
19IM2A	282 50	285 00	BCS00008514	Cuttings	0 001	1482	17 0	66 0	17 0			
19IM2A	287 50	290 00	BCS00008516	Cuttings	0 016	152	24 9	62 3	12 7			
19IM2A	292 50	295 00	BCS00008518	Cuttings	0 029	160	22 4	59 9	17 8			
19IM2A	297 50	300 00	BCS00008520	Cuttings	0 035	199	16 5	63 9	19 6			
19IM2A	302 50	305 00	BCS00008522	Cuttings	0 034	1424	20 6	69 4	9 9			
19IM2A	307 50	310 00	BCS00008524	Cuttings	0 023	1533	17 0	66 9	16 0			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
19IM2A	312 50	315 00	BCS00008526	Cuttings	0 027	118	33 4	60 6	6 0			
19IM2A	317 50	320 00	BCS00008528	Cuttings	0 131	1822	34 0	59 0	7 0			
19IM2A	322 50	325 00	BCS00008530	Cuttings	0 036	1006	23 8	69 0	7 2			
19IM2A	327 50	330 00	BCS00008532	Cuttings	0 036	1226	23 9	59 8	16 3			
19IM2A	332 50	335 00	BCS00008534	Cuttings	0 058	175	11 2	68 1	20 7			
19IM2A	337 50	340 00	BCS00008536	Cuttings	0 051	221	10 0	67 0	23 0			
19IM2A	342 50	345 00	BCS00008538	Cuttings	0 064	192	14 2	68 2	17 7			
19IM2A	347 50	350 00	BCS00008540	Cuttings	0 054	145	18 3	63 9	17 8			
19IM2A	352 50	355 00	BCS00008542	Cuttings	0 064	167	19 4	67.1	13 4			
19IM2A	357 50	360 00	BCS00008544	Cuttings	0 036	145	31 7	60 5	7 9			
19IM2A	362 50	365 00	BCS00008546	Cuttings	censored	censored	26 1	69 4	4 4			
19IM2A	367 50	370 00	BCS00008548	Cuttings	censored	censored	28 7	59 9	11 4			
19IM2A	372 50	375 00	BCS00008550	Cuttings	censored	censored	censored	censored	censored			
19IM2A	377 50	380 00	BCS00008552	Cuttings	censored	censored	censored	censored	censored			
19IM2A	382 50	385 00	BCS00008554	Cuttings	censored	censored	20 6	62 9	16 5			
19IM2A	387 50	390 00	BCS00008556	Cuttings	censored	censored	10 6	63 8	25 6			
19IM2A	392 50	395 00	BCS00008558	Cuttings	censored	censored	9 0	62 0	29 0	13 9	19 4	58 3
19IM2A	397 50	400 00	BCS00008560	Cuttings			22 8	62 2	15 0			
19IM2A	402 50	405 00	BCS00008562	Cuttings			6 1	70 7	23 2			
19IM2A	407 50	410 00	BCS00008564	Cuttings			17 1	71 0	11 8			
19IM2A	412 50	415 00	BCS00008566	Cuttings			17 5	68 1	14 4			
19IM2A	417 50	420 00	BCS00008568	Cuttings			19 5	70 0	10 5			
19IM2A	422 50	425 00	BCS00008570	Cuttings			17 8	75 8	6 5			
19IM2A	427 50	430 00	BCS00008572	Cuttings			11 0	70 0	19 1			
19IM2A	432 50	435 00	BCS00008574	Cuttings			10 9	65 1	24 0			
19IM2A	437 50	440 00	BCS00008576	Cuttings			9 7	66 1	24 2			
19IM2A	442 50	445 00	BCS00008578	Cuttings			10 4	70 0	19 6			
19IM2A	447 50	450 00	BCS00008580	Cuttings			12 3	65 9	21 8			
19IM2A	452 50	455 00	BCS00008582	Cuttings			13 9	68 1	18 0			
19IM2A	457 50	460 00	BCS00008584	Cuttings			15 6	71 1	13 4	13 7	13 6	66 0
19IM2A	462 50	465 00	BCS00008586	Cuttings			8 5	71 5	20 0			
19IM2A	467 50	470 00	BCS00008588	Cuttings			10 2	72 2	17 7			
19IM2A	472 50	475 00	BCS00008590	Cuttings			13 0	67 6	19 4			
19IM2A	477 50	480 00	BCS00008592	Cuttings			7 9	68 1	24 1			
19IM2A	482 50	485 00	BCS00008594	Cuttings			9 1	63 4	27 5			
19IM2A	487 50	490 00	BCS00008596	Cuttings			11 5	63 1	25 4			
19IM2A	492 50	495 00	BCS00008598	Cuttings			7 7	62 8	29 5			
19IM2A	497 50	500 00	BCS00008600	Cuttings			11 1	66 3	22 5			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
19IM2A	502 50	505 00	BCS00008602	Cuttings			10 2	69 9	19 9			
19IM2A	507 50	510 00	BCS00008604	Cuttings			11 2	66 2	22 6			
19IM2A	512 50	515 00	BCS00008606	Cuttings			11 9	72 1	16 1			
19IM2A	517 50	520 00	BCS00008608	Cuttings			11 5	65 7	22 8			
19IM2A	522 50	525 00	BCS00008610	Cuttings			13 8	70 3	15 9			
19IM2A	527 50	530 00	BCS00008612	Cuttings			8 3	65 1	26 7			
19IM2A	532 50	535 00	BCS00008614	Cuttings			10 6	71 0	18 4			
19IM2A	537 50	540 00	BCS00008616	Cuttings			8 8	66 3	24 9			
19IM2A	542 50	545 00	BCS00008618	Cuttings		censored	21 0	63 3	15 7			
19IM2A	547 50	550 00	BCS00008620	Cuttings		censored	10 9	76 1	13 0			
19IM2A	552 50	555 00	BCS00008622	Cuttings		censored	8 8	66 6	24 6			
19IM2A	557 50	560 00	BCS00008624	Cuttings			4 5	69 4	26 1			
19IM2A	560 00	565 00	BCS00008625	Cuttings		censored	74 3	12 9	12 8			
19IM2A	565 00	570 00	BCS00008626	Cuttings			17 3	64 3	18 4			
19IM2A	570 00	575 00	BCS00008627	Cuttings			14 2	61 8	24 1			
19IM2A	575 00	580 00	BCS00008628	Cuttings		censored	15 8	62 0	22 2			
19IM2A	580 00	585 00	BCS00008629	Cuttings			14 2	79 1	6 7			
19IM2A	585 00	590 00	BCS00008630	Cuttings			10 6	61 8	27 6			
19IM2A	590 00	595 00	BCS00008631	Cuttings			15 6	76 7	7 7	7 8	11 6	65 6
19IM2A	595 00	600 00	BCS00008632	Cuttings			10 7	63 7	25 5			
19IM2A	600 00	605 00	BCS00008633	Cuttings			4 8	74 4	20 8	6 4	12 2	56 6
19IM2A	605 00	610 00	BCS00008634	Cuttings			6 5	62 9	30 6	6 2	13 1	56 4
19IM2A	610 00	615 00	BCS00008635	Cuttings			11 1	69 4	19 5			
19IM2A	615 00	620 00	BCS00008636	Cuttings			14 1	70 8	15 1			
19IM2A	620 00	625 00	BCS00008637	Cuttings			8 0	73 0	19 1			
19IM2A	625 00	630 00	BCS00008638	Cuttings			10 8	70 6	18 7			
19IM2A	630 00	635 00	BCS00008639	Cuttings			10 9	69 6	19 6			
19IM2A	635 00	640 00	BCS00008640	Cuttings			10 3	67 6	22 1			
19IM2A	640 00	645 00	BCS00008641	Cuttings			15 0	65 4	19 5			
19IM2A	645 00	650 00	BCS00008642	Cuttings			8 6	66 2	25 2			
19IM2A	650 00	655 00	BCS00008643	Cuttings			8 8	65 5	25 7			
19IM2A	655 00	660 00	BCS00008644	Cuttings			12 0	65 0	23 1			
19IM2A	660 00	665 00	BCS00008645	Cuttings			12 6	69 6	17 7			
19IM2A	665 00	670 00	BCS00008646	Cuttings			15 9	55 9	28 2			
19IM2A	670 00	675 00	BCS00008647	Cuttings			10 3	66 1	23 6			
19IM2A	675 00	680 00	BCS00008648	Cuttings			3 9	67 6	28 5			
19IM2A	680 00	685 00	BCS00008649	Cuttings			6 8	69 6	23 5			
19IM2A	685 00	690 00	BCS00008650	Cuttings			14 3	69 0	16 7			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
19IM2A	690 00	695 00	BCS00008651	Cuttings			11 6	70 4	18 0			
19IM2A	695 00	700 00	BCS00008652	Cuttings			15 8	64 2	20 0			
19IM2A	700 00	705 00	BCS00008653	Cuttings			15 9	61 2	22 9			
19IM2A	705 00	710 00	BCS00008654	Cuttings			10 3	67 3	22 3			
19IM2A	710 00	715 00	BCS00008655	Cuttings			14 3	63 6	22 1			
19IM2A	715 00	720 00	BCS00008656	Cuttings			10 1	69 5	20 4			
19IM2A	720 00	725 00	BCS00008657	Cuttings			5 1	69 4	25 5			
19IM2A	725 00	730 00	BCS00008658	Cuttings			8 3	72 9	18 8			
19IM2A	730 00	735 00	BCS00008659	Cuttings			8 4	63 4	28 2			
19IM2A	735 00	740 00	BCS00008660	Cuttings			11 3	66 2	22 5			
19IM2A	740 00	745 00	BCS00008661	Cuttings			5 6	77 2	17 2			
19IM2A	745 00	750 00	BCS00008662	Cuttings			11 4	69 2	19 5			
19IM2A	750 00	755 00	BCS00008663	Cuttings			censored	censored	censored			
19IM2A	755 00	760 00	BCS00008664	Cuttings			censored	censored	censored			
19IM2A	760 00	765 00	BCS00008665	Cuttings			censored	censored	censored			
19IM2A	765 00	770 00	BCS00008666	Cuttings			censored	censored	censored			
19IM2A	770 00	775 00	BCS00008667	Cuttings			censored	censored	censored			
19IM2A	775 00	780 00	BCS00008668	Cuttings			censored	censored	censored			
19IM2A	780 00	785 00	BCS00008669	Cuttings			censored	censored	censored			
19IM2A	785 00	790 00	BCS00008670	Cuttings			censored	censored	censored			
19IM2A	790 00	795 00	BCS00008671	Cuttings			censored	censored	censored			
19IM2A	795 00	800 00	BCS00008672	Cuttings			censored	censored	censored			
19IM2A	800 00	805 00	BCS00008673	Cuttings			censored	censored	censored			
19IM2A	805 00	810 00	BCS00008674	Cuttings			censored	censored	censored			
19IM2A	810 00	815 00	BCS00008675	Cuttings			censored	censored	censored			
19IM2A	815 00	820 00	BCS00008676	Cuttings			censored	censored	censored			
19IM2A	820 00	825 00	BCS00008677	Cuttings			censored	censored	censored			
22PA	2 50	5 00	BCS00009652-22PA-12020	Cuttings	0 026	1244	censored	censored	censored			
22PA	7 50	10 00	BCS00009654-22PA-12021	Cuttings	0 048	957	censored	censored	censored			
22PA	12 50	15 00	BCS00009656-22PA-12022	Cuttings	0 041	274	censored	censored	censored			
22PA	17 50	20 00	BCS00009658-22PA-12023	Cuttings	0 041	1051	censored	censored	censored			
22PA	22 50	25 00	BCS00009660-22PA-12024	Cuttings	0 043	463	censored	censored	censored			
22PA	27 50	30 00	BCS00009662-22PA-12025	Cuttings	0 051	445	censored	censored	censored			
22PA	32 50	35 00	BCS00009664-22PA-12026	Cuttings	0 051	386	censored	censored	censored			
22PA	37 50	40 00	BCS00009666-22PA-12027	Cuttings	0 068	503	censored	censored	censored			
22PA	42 50	45 00	BCS00009668-22PA-12028	Cuttings	0 069	348	censored	censored	censored			
22PA	47 50	50 00	BCS00009670-22PA-12029	Cuttings	0 048	294	censored	censored	censored			
22PA	52 50	55 00	BCS00009672-22PA-12030	Cuttings	0 054	212	censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
22PA	57 50	60 00	BCS00009674-22PA-12031	Cuttings	0 05	220	censored	censored	censored			
22PA	62 50	65 00	BCS00009676-22PA-12032	Cuttings	0 058	227	censored	censored	censored			
22PA	67 50	70 00	BCS00009678-22PA-12033	Cuttings	0 04	180	censored	censored	censored			
22PA	72 50	75 00	BCS00009680-22PA-12034	Cuttings	0 06	190	censored	censored	censored			
22PA	77 50	80 00	BCS00009682-22PA-12035	Cuttings	0 058	198	censored	censored	censored			
22PA	82 50	85 00	BCS00009684	Cuttings	0 037	164	censored	censored	censored			
22PA	87 50	90 00	BCS00009686	Cuttings	0 053	128	censored	censored	censored			
22PA	92 50	95 00	BCS00009688	Cuttings	0 052	166	censored	censored	censored			
22PA	97 50	100 00	BCS00009690	Cuttings	0 046	144	censored	censored	censored			
22PA	102 50	105 00	BCS00009692	Cuttings	0 04	139	censored	censored	censored			
22PA	107 50	110 00	BCS00009694	Cuttings	0 048	165	censored	censored	censored			
22PA	112 50	115 00	BCS00009696	Cuttings	0 039	161	censored	censored	censored			
22PA	117 50	120 00	BCS00009698	Cuttings	0 047	206	censored	censored	censored			
22PA	122 50	125 00	BCS00009700	Cuttings	0 048	145	censored	censored	censored			
22PA	127 50	130 00	BCS00009702	Cuttings	0 041	133	censored	censored	censored			
22PA	132 50	135 00	BCS00009704	Cuttings	0 04	72	censored	censored	censored			
22PA	137 50	140 00	BCS00009706	Cuttings	0 069	254	censored	censored	censored			
22PA	142 50	145 00	BCS00009708	Cuttings	0 069	163	censored	censored	censored			
22PA	147 50	150 00	BCS00009710	Cuttings	0 046	134	censored	censored	censored			
22PA	152 50	155 00	BCS00009712	Cuttings	0 07	580	censored	censored	censored			
22PA	157 50	160 00	BCS00009714	Cuttings	0 072	92	censored	censored	censored			
22PA	162 50	165 00	BCS00009716	Cuttings	0 052	116	censored	censored	censored			
22PA	167 50	170 00	BCS00009718	Cuttings	0 03	161	censored	censored	censored			
22PA	172 50	175 00	BCS00009720	Cuttings	0 039	181	censored	censored	censored	censored	censored	censored
22PA	177 50	180 00	BCS00009722	Cuttings	0 056	322	censored	censored	censored			
22PA	182 50	185 00	BCS00009724	Cuttings	0 057	114	censored	censored	censored			
22PA	187 50	190 00	BCS00009726	Cuttings	0 041	174	censored	censored	censored			
22PA	192 50	195 00	BCS00009728	Cuttings	0 053	229	censored	censored	censored			
22PA	197 50	200 00	BCS00009730	Cuttings	0 058	416	censored	censored	censored			
22PA	202 50	205 00	BCS00009732	Cuttings	0 061	273	censored	censored	censored			
22PA	207 50	210 00	BCS00009734	Cuttings	0 067	301	censored	censored	censored			
22PA	212 50	215 00	BCS00009736	Cuttings	0 08	266	censored	censored	censored			
22PA	217 50	220 00	BCS00009738	Cuttings	0 082	275	censored	censored	censored			
22PA	222 50	225 00	BCS00009740	Cuttings	0 042	398	censored	censored	censored			
22PA	227 50	230 00	BCS00009742	Cuttings	0 042	306	censored	censored	censored			
22PA	232 50	235 00	BCS00009744	Cuttings	0 062	324	censored	censored	censored			
22PA	237 50	240 00	BCS00009746	Cuttings	0 044	243	censored	censored	censored			
22PA	242 50	245 00	BCS00009748	Cuttings	0 038	232	censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conductivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
22PA	247 50	250 00	BCS00009750	Cuttings	0 064	228	censored	censored	censored			
22PA	252 50	255 00	BCS00009752	Cuttings	0 058	184	censored	censored	censored			
22PA	257 50	260 00	BCS00009754	Cuttings	0 077	208	censored	censored	censored			
22PA	262 50	265 00	BCS00009756	Cuttings	0 073	250	censored	censored	censored			
22PA	267 50	270 00	BCS00009758	Cuttings	0 053	216	censored	censored	censored			
22PA	272 50	275 00	BCS00009760	Cuttings	0 063	464	censored	censored	censored			
22PA	277 50	280 00	BCS00009762	Cuttings	0 064	323	censored	censored	censored			
22PA	282 50	285 00	BCS00009764	Cuttings	0 057	357	censored	censored	censored			
22PA	287 50	290 00	BCS00009766	Cuttings	0 031	355	censored	censored	censored			
22PA	292 50	295 00	BCS00009768	Cuttings	0 077	497	censored	censored	censored	censored	censored	censored
22PA	297 50	300 00	BCS00009770	Cuttings	0 084	607	censored	censored	censored			
22PA	302 50	305 00	BCS00009772	Cuttings	0 087	587	censored	censored	censored			
22PA	307 50	310 00	BCS00009774	Cuttings	0 075	394	censored	censored	censored			
22PA	312 50	315 00	BCS00009776	Cuttings	0 065	334	censored	censored	censored			
22PA	317 50	320 00	BCS00009778	Cuttings	0 053	366	censored	censored	censored			
22PA	322 50	325 00	BCS00009780	Cuttings	0 043	359	censored	censored	censored			
22PA	327 50	330 00	BCS00009782	Cuttings	0 053	400	censored	censored	censored			
22PA	332 50	335 00	BCS00009784	Cuttings	0 053	313	censored	censored	censored			
22PA	337 50	340 00	BCS00009786	Cuttings	0 085	417	censored	censored	censored			
22PA	342 50	345 00	BCS00009788	Cuttings	0 072	367	censored	censored	censored			
22PA	347 50	350 00	BCS00009790	Cuttings	0 073	441	censored	censored	censored			
22PA	352 50	355 00	BCS00009792	Cuttings	0 053	330	censored	censored	censored			
22PA	357 50	360 00	BCS00009794	Cuttings	0 051	249	censored	censored	censored			
22PA	362 50	365 00	BCS00009796	Cuttings	0 079	477	censored	censored	censored			
22PA	367 50	370 00	BCS00009798	Cuttings	0 037	372	censored	censored	censored			
22PA	372 50	375 00	BCS00009800	Cuttings	0 045	476	censored	censored	censored			
22PA	377 50	380 00	BCS00009802	Cuttings	0 049	348	censored	censored	censored			
22PA	382 50	385 00	BCS00009804	Cuttings	0 053	310	censored	censored	censored			
22PA	387 50	390 00	BCS00009806	Cuttings	0 062	357	censored	censored	censored			
22PA	392 50	395 00	BCS00009808	Cuttings	0 063	327	censored	censored	censored			
22PA	397 50	400 00	BCS00009810	Cuttings	0 063	476	censored	censored	censored			
22PA	402 50	405 00	BCS00009812	Cuttings	0 064	347	censored	censored	censored			
22PA	407 50	410 00	BCS00009814	Cuttings	0 046	420	censored	censored	censored			
22PA	412 50	415 00	BCS00009816	Cuttings	0 066	302	censored	censored	censored			
22PA	417 50	420 00	BCS00009818	Cuttings	0 041	297	censored	censored	censored			
22PA	422 50	425 00	BCS00009820	Cuttings	0 054	355	censored	censored	censored			
22PA	427 50	430 00	BCS00009822	Cuttings	0 065	287	censored	censored	censored			
22PA	432 50	435 00	BCS00009824	Cuttings	0 057	368	censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
22PA	437 50	440 00	BCS00009826	Cuttings	0 058	462	censored	censored	censored	censored	censored	censored
22PA	442 50	445 00	BCS00009828	Cuttings	0 064	498	censored	censored	censored			
22PA	447 50	450 00	BCS00009830	Cuttings	0 059	412	censored	censored	censored			
22PA	452 50	455 00	BCS00009832	Cuttings	0 065	405	censored	censored	censored			
22PA	457 50	460 00	BCS00009834	Cuttings	0 067	376	censored	censored	censored			
22PA	462 50	465 00	BCS00009836	Cuttings	0 085	373	censored	censored	censored			
22PA	467 50	470 00	BCS00009838	Cuttings	0 101	342	censored	censored	censored			
22PA	472 50	475 00	BCS00009840	Cuttings	censored	censored	censored	censored	censored			
22PA	477 50	480 00	BCS00009842	Cuttings	censored	censored	censored	censored	censored			
22PA	482 50	485 00	BCS00009844	Cuttings	censored	censored	censored	censored	censored			
22PA	487 50	490 00	BCS00009846	Cuttings	censored	censored	censored	censored	censored			
22PA	492 50	495 00	BCS00009848	Cuttings			censored	censored	censored			
22PA	497 50	500 00	BCS00009850	Cuttings			censored	censored	censored			
22PA	502 50	505 00	BCS00009852	Cuttings			censored	censored	censored			
22PA	507 50	510 00	BCS00009854	Cuttings			censored	censored	censored			
22PA	512 50	515 00	BCS00009856	Cuttings			censored	censored	censored			
22PA	517 50	520 00	BCS00009858	Cuttings			censored	censored	censored			
22PA	522 50	525 00	BCS00009860	Cuttings			censored	censored	censored			
22PA	527 50	530 00	BCS00009862	Cuttings			censored	censored	censored			
22PA	532 50	535 00	BCS00009864	Cuttings			censored	censored	censored			
22PA	537 50	540 00	BCS00009866	Cuttings			censored	censored	censored			
22PA	542 50	545 00	BCS00009868	Cuttings			censored	censored	censored			
22PA	547 50	550 00	BCS00009870	Cuttings			censored	censored	censored			
22PA	552 50	555 00	BCS00009872	Cuttings			censored	censored	censored			
22PA	557 50	560 00	BCS00009874	Cuttings			censored	censored	censored			
22PA	562 50	565 00	BCS00009876	Cuttings			censored	censored	censored			
22PA	567 50	570 00	BCS00009878	Cuttings			censored	censored	censored			
22PA	572 50	575 00	BCS00009880	Cuttings			censored	censored	censored			
22PA	577 50	580 00	BCS00009882	Cuttings			censored	censored	censored			
22PA	582 50	585 00	BCS00009884	Cuttings			censored	censored	censored			
22PA	587 50	590 00	BCS00009886	Cuttings			censored	censored	censored			
22PA	592 50	595 00	BCS00009888	Cuttings			censored	censored	censored			
22PA	595 00	600 00	BCS00009889	Cuttings			censored	censored	censored			
22PA	600 00	605 00	BCS00009890	Cuttings			censored	censored	censored			
22PA	605 00	610 00	BCS00009891	Cuttings			censored	censored	censored			
22PA	610 00	615 00	BCS00009892	Cuttings			censored	censored	censored			
22PA	615 00	620 00	BCS00009893	Cuttings			censored	censored	censored			
22PA	620 00	625 00	BCS00009894	Cuttings			censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
22PA	625 00	630 00	BCS00009895	Cuttings			censored	censored	censored			
22PA	630 00	635 00	BCS00009896	Cuttings			censored	censored	censored			
22PA	635 00	640 00	BCS00009897	Cuttings			censored	censored	censored			
22PA	640 00	645 00	BCS00009898	Cuttings			censored	censored	censored			
22PA	645 00	650 00	BCS00009899	Cuttings			censored	censored	censored			
22PA	650 00	655 00	BCS00009900	Cuttings			censored	censored	censored			
22PA	655 00	660 00	BCS00009901	Cuttings			censored	censored	censored			
22PA	660 00	665 00	BCS00009902	Cuttings			censored	censored	censored			
22PA	665 00	670 00	BCS00009903	Cuttings			censored	censored	censored			
22PA	670 00	675 00	BCS00009904	Cuttings			censored	censored	censored			
22PA	675 00	680 00	BCS00009905	Cuttings			censored	censored	censored			
22PA	680 00	685 00	BCS00009906	Cuttings			censored	censored	censored			
22PA	685 00	690 00	BCS00009907	Cuttings			censored	censored	censored			
22PA	690 00	695 00	BCS00009908	Cuttings			censored	censored	censored			
22PA	695 00	700 00	BCS00009909	Cuttings			censored	censored	censored			
22PA	700 00	705 00	BCS00009910	Cuttings			censored	censored	censored			
22PA	705 00	710 00	BCS00009911	Cuttings			censored	censored	censored			
22PA	710 00	715 00	BCS00009912	Cuttings			censored	censored	censored			
22PA	715 00	720 00	BCS00009913	Cuttings			censored	censored	censored			
22PA	720 00	725 00	BCS00009914	Cuttings			censored	censored	censored			
22PA	725 00	730 00	BCS00009915	Cuttings			censored	censored	censored			
22PA	730 00	735 00	BCS00009916	Cuttings			censored	censored	censored			
22PA	735 00	740 00	BCS00009917	Cuttings			censored	censored	censored			
22PA	740 00	745 00	BCS00009918	Cuttings			censored	censored	censored			
22PA	745 00	750 00	BCS00009919	Cuttings			censored	censored	censored			
22PA	750 00	755 00	BCS00009920	Cuttings			censored	censored	censored			
22PA	755 00	760 00	BCS00009921	Cuttings			censored	censored	censored			
22PA	760 00	765 00	BCS00009922	Cuttings			censored	censored	censored			
22PA	765 00	770 00	BCS00009923	Cuttings			censored	censored	censored			
22PA	770 00	775 00	BCS00009924	Cuttings			censored	censored	censored	censored	censored	censored
22PA	775 00	780 00	BCS00009925	Cuttings			censored	censored	censored			
22PB	2 50	5 00	BCS00010152	Cuttings	0 056	144	censored	censored	censored			
22PB	7 50	10 00	BCS00010154	Cuttings	0 058	324	censored	censored	censored			
22PB	12 50	15 00	BCS00010156	Cuttings	0 069	752	censored	censored	censored			
22PB	17 50	20 00	BCS00010158	Cuttings	0 071	500	censored	censored	censored			
22PB	22 50	25 00	BCS00010160	Cuttings	0 038	527	censored	censored	censored			
22PB	27 50	30 00	BCS00010162	Cuttings	0 029	482	censored	censored	censored			
22PB	32 50	35 00	BCS00010164	Cuttings	0 028	318	censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
22PB	37 50	40 00	BCS00010166	Cuttings	0 014	233	censored	censored	censored			
22PB	42 50	45 00	BCS00010168	Cuttings	0 014	322	censored	censored	censored			
22PB	47 50	50 00	BCS00010170	Cuttings	0 017	117	censored	censored	censored			
22PB	52 50	55 00	BCS00010172	Cuttings	0 012	148	censored	censored	censored			
22PB	57 50	60 00	BCS00010174	Cuttings	0 012	123	censored	censored	censored			
22PB	62 50	65 00	BCS00010176	Cuttings	0 039	140	censored	censored	censored			
22PB	67 50	70 00	BCS00010178	Cuttings	0 027	100	censored	censored	censored			
22PB	72 50	75 00	BCS00010180	Cuttings	0 019	138	censored	censored	censored			
22PB	77 50	80 00	BCS00010182	Cuttings	0 018	100	censored	censored	censored			
22PB	82 50	85 00	BCS00010184	Cuttings	0 017	111	censored	censored	censored			
22PB	87 50	90 00	BCS00010186	Cuttings	0 027	925	censored	censored	censored			
22PB	92 50	95 00	BCS00010188	Cuttings	0 022	767	censored	censored	censored			
22PB	97 50	100 00	BCS00010190	Cuttings	0 023	718	censored	censored	censored			
22PB	102 50	105 00	BCS00010192	Cuttings	0 029	139	censored	censored	censored			
22PB	107 50	110 00	BCS00010194	Cuttings	0 028	893	censored	censored	censored			
22PB	112 50	115 00	BCS00010196	Cuttings	0 027	121	censored	censored	censored			
22PB	117 50	120 00	BCS00010198	Cuttings	0 027	119	censored	censored	censored			
22PB	122 50	125 00	BCS00010200	Cuttings	0 023	110	censored	censored	censored			
22PB	127 50	130 00	BCS00010202	Cuttings	0 026	139	censored	censored	censored			
22PB	132 50	135 00	BCS00010204	Cuttings	0 027	169	censored	censored	censored			
22PB	137 50	140 00	BCS00010206	Cuttings	0 02	976	censored	censored	censored			
22PB	142 50	145 00	BCS00010208	Cuttings	0 055	211	censored	censored	censored			
22PB	147 50	150 00	BCS00010210	Cuttings	0 023	326	censored	censored	censored			
22PB	152 50	155 00	BCS00010212	Cuttings	0 025	243	censored	censored	censored			
22PB	157 50	160 00	BCS00010214	Cuttings	0 022	216	censored	censored	censored			
22PB	162 50	165 00	BCS00010216	Cuttings	0 037	310	censored	censored	censored			
22PB	167 50	170 00	BCS00010218	Cuttings	0 025	312	censored	censored	censored			
22PB	172 50	175 00	BCS00010220	Cuttings	0 033	321	censored	censored	censored			
22PB	177 50	180 00	BCS00010222	Cuttings	0 023	254	censored	censored	censored			
22PB	182 50	185 00	BCS00010224	Cuttings	0 029	361	censored	censored	censored			
22PB	187 50	190 00	BCS00010226	Cuttings	0 033	334	censored	censored	censored			
22PB	192 50	195 00	BCS00010228	Cuttings	0 024	333	censored	censored	censored			
22PB	197 50	200 00	BCS00010230	Cuttings	0 037	305	censored	censored	censored			
22PB	202 50	205 00	BCS00010232	Cuttings	0 031	416	censored	censored	censored			
22PB	207 50	210 00	BCS00010234	Cuttings	0 05	282	censored	censored	censored			
22PB	212 50	215 00	BCS00010236	Cuttings	0 04	285	censored	censored	censored			
22PB	217 50	220 00	BCS00010238	Cuttings	0 035	296	censored	censored	censored			
22PB	222 50	225 00	BCS00010240	Cuttings	0 029	362	censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
22PB	227 50	230 00	BCS00010242	Cuttings	0 034	326	censored	censored	censored			
22PB	232 50	235 00	BCS00010244	Cuttings	0 039	270	censored	censored	censored			
22PB	237 50	240 00	BCS00010246	Cuttings	0 028	206	censored	censored	censored			
22PB	242 50	245 00	BCS00010248	Cuttings	0 03	494	censored	censored	censored			
22PB	247 50	250 00	BCS00010250	Cuttings	0 025	336	censored	censored	censored			
22PB	252 50	255 00	BCS00010252	Cuttings	0 026	220	censored	censored	censored			
22PB	257.50	260 00	BCS00010254	Cuttings	0 037	270	censored	censored	censored			
22PB	262 50	265 00	BCS00010256	Cuttings	0 041	313	censored	censored	censored			
22PB	267 50	270 00	BCS00010258	Cuttings	0 056	376	censored	censored	censored			
22PB	272 50	275 00	BCS00010260	Cuttings	0 038	203	censored	censored	censored			
22PB	277 50	280 00	BCS00010262	Cuttings	0 036	358	censored	censored	censored			
22PB	282 50	285 00	BCS00010264	Cuttings	0 041	716	censored	censored	censored			
22PB	287 50	290 00	BCS00010266	Cuttings	0 022	344	censored	censored	censored			
22PB	292 50	295 00	BCS00010268	Cuttings	0 023	491	censored	censored	censored			
22PB	297 50	300 00	BCS00010270	Cuttings	0 026	357	censored	censored	censored			
22PB	302 50	305 00	BCS00010272	Cuttings	0 028	190	censored	censored	censored	censored	censored	censored
22PB	307 50	310 00	BCS00010274	Cuttings	0 045	347	censored	censored	censored			
22PB	312 50	315 00	BCS00010276	Cuttings	0 049	126	censored	censored	censored			
22PB	317 50	320 00	BCS00010278	Cuttings	0 035	268	censored	censored	censored			
22PB	322 50	325 00	BCS00010280	Cuttings	0 036	554	censored	censored	censored			
22PB	327 50	330 00	BCS00010282	Cuttings	0 024	324	censored	censored	censored			
22PB	332 50	335 00	BCS00010284	Cuttings	0 043	157	censored	censored	censored			
22PB	337 50	340 00	BCS00010286	Cuttings	0 04	152	censored	censored	censored			
22PB	342 50	345 00	BCS00010288	Cuttings	0 038	309	censored	censored	censored			
22PB	347 50	350 00	BCS00010290	Cuttings	0 029	109	censored	censored	censored			
22PB	352 50	355 00	BCS00010292	Cuttings	0 031	133	censored	censored	censored	censored	censored	censored
22PB	357 50	360 00	BCS00010294	Cuttings	0 037	241	censored	censored	censored			
22PB	362 50	365 00	BCS00010296	Cuttings	0 039	363	censored	censored	censored			
22PB	367 50	370 00	BCS00010298	Cuttings	0 035	228	censored	censored	censored			
22PB	372 50	375 00	BCS00010300	Cuttings	0 037	376	censored	censored	censored			
22PB	377 50	380 00	BCS00010302	Cuttings	0 034	258	censored	censored	censored			
22PB	382 50	385 00	BCS00010304	Cuttings	0 045	315	censored	censored	censored			
22PB	387 50	390 00	BCS00010306	Cuttings	0 065	337	censored	censored	censored			
22PB	392 50	395 00	BCS00010308	Cuttings	0 031	315	censored	censored	censored			
22PB	397 50	400 00	BCS00010310	Cuttings	0 074	455	censored	censored	censored			
22PB	402 50	405 00	BCS00010312	Cuttings	0 042	351	censored	censored	censored			
22PB	407 50	410 00	BCS00010314	Cuttings	0 041	402	censored	censored	censored			
22PB	412 50	415 00	BCS00010316	Cuttings	0 051	324	censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
22PB	417 50	420 00	BCS00010318	Cuttings	0 062	269	censored	censored	censored			
22PB	422 50	425 00	BCS00010320	Cuttings	0 043	351	censored	censored	censored			
22PB	427 50	430 00	BCS00010322	Cuttings	0 049	280	censored	censored	censored			
22PB	432 50	435 00	BCS00010324	Cuttings	0 036	196	censored	censored	censored			
22PB	437 50	440 00	BCS00010326	Cuttings	0 37	184	censored	censored	censored			
22PB	442 50	445 00	BCS00010328	Cuttings	0 037	398	censored	censored	censored			
22PB	447 50	450 00	BCS00010330	Cuttings	0 045	364	censored	censored	censored			
22PB	452 50	455 00	BCS00010332	Cuttings	0 034	325	censored	censored	censored			
22PB	457 50	460 00	BCS00010334	Cuttings	0 036	264	censored	censored	censored			
22PB	462 50	465 00	BCS00010336	Cuttings	0 037	361	censored	censored	censored			
22PB	467 50	470 00	BCS00010338	Cuttings	0 036	415	censored	censored	censored			
22PB	472 50	475 00	BCS00010340	Cuttings	censored	censored	censored	censored	censored			
22PB	477 50	480 00	BCS00010342	Cuttings	censored	censored	censored	censored	censored			
22PB	482 50	485 00	BCS00010344	Cuttings	censored	censored	censored	censored	censored			
22PB	487 50	490 00	BCS00010346	Cuttings	censored	censored	censored	censored	censored			
22PB	492 50	495 00	BCS00010348	Cuttings	censored	censored	censored	censored	censored			
22PB	497 50	500 00	BCS00010350	Cuttings	censored	censored	censored	censored	censored			
22PB	502 50	505 00	BCS00010352	Cuttings	censored	censored	censored	censored	censored			
22PB	507 50	510 00	BCS00010354	Cuttings	censored	censored	censored	censored	censored	censored	censored	censored
22PB	512 50	515 00	BCS00010356	Cuttings	censored	censored	censored	censored	censored			
22PB	517 50	520 00	BCS00010358	Cuttings			censored	censored	censored			
22PB	522 50	525 00	BCS00010360	Cuttings			censored	censored	censored			
22PB	527 50	530 00	BCS00010362	Cuttings			censored	censored	censored			
22PB	532 50	535 00	BCS00010364	Cuttings			censored	censored	censored			
22PB	537 50	540 00	BCS00010366	Cuttings			censored	censored	censored			
22PB	542 50	545 00	BCS00010368	Cuttings			censored	censored	censored			
22PB	547 50	550 00	BCS00010370	Cuttings			censored	censored	censored			
22PB	552 50	555 00	BCS00010372	Cuttings			censored	censored	censored			
22PB	557 50	560 00	BCS00010374	Cuttings			censored	censored	censored			
22PB	562 50	565 00	BCS00010376	Cuttings			censored	censored	censored			
22PB	567 50	570 00	BCS00010378	Cuttings			censored	censored	censored			
22PB	572 50	575 00	BCS00010380	Cuttings			censored	censored	censored			
22PB	577 50	580 00	BCS00010382	Cuttings			censored	censored	censored			
22PB	580 00	585 00	BCS00010383	Cuttings			censored	censored	censored			
22PB	585 00	590 00	BCS00010384	Cuttings			censored	censored	censored			
22PB	590 00	595 00	BCS00010385	Cuttings			censored	censored	censored			
22PB	595 00	600 00	BCS00010386	Cuttings			censored	censored	censored			
22PB	600 00	605 00	BCS00010387	Cuttings			censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
22PB	605 00	610 00	BCS00010388	Cuttings			censored	censored	censored			
22PB	610 00	615 00	BCS00010389	Cuttings			censored	censored	censored			
22PB	615 00	620 00	BCS00010390	Cuttings			censored	censored	censored			
22PB	620 00	625 00	BCS00010391	Cuttings			censored	censored	censored			
22PB	625 00	630 00	BCS00010392	Cuttings			censored	censored	censored			
22PB	630 00	635 00	BCS00010393	Cuttings			censored	censored	censored			
22PB	635 00	640 00	BCS00010394	Cuttings			censored	censored	censored			
22PB	640 00	645 00	BCS00010395	Cuttings			censored	censored	censored			
22PB	645 00	650 00	BCS00010396	Cuttings			censored	censored	censored			
22PB	650 00	655 00	BCS00010397	Cuttings			censored	censored	censored			
22PB	655 00	660 00	BCS00010398	Cuttings			censored	censored	censored			
22PB	660 00	665 00	BCS00010399	Cuttings			censored	censored	censored			
22PB	665 00	670 00	BCS00010400	Cuttings			censored	censored	censored			
22PB	670 00	675 00	BCS00010401	Cuttings			censored	censored	censored			
22PB	675 00	680 00	BCS00010402-22PB-12318	Cuttings			censored	censored	censored			
22PB	680 00	685 00	BCS00010403	Cuttings			censored	censored	censored			
22PB	685 00	690 00	BCS00010404-22PB-12320	Cuttings			censored	censored	censored			
22PB	690 00	695 00	BCS00010405	Cuttings			censored	censored	censored			
22PB	695 00	700 00	BCS00010406-22PB-12322	Cuttings			censored	censored	censored			
22PB	700 00	705 00	BCS00010407	Cuttings			censored	censored	censored			
22PB	705 00	710 00	BCS00010408-22PB-12324	Cuttings			censored	censored	censored			
22PB	710 00	715 00	BCS00010409	Cuttings			censored	censored	censored			
22PB	715 00	720 00	BCS00010410-22PB-12326	Cuttings			censored	censored	censored			
22PB	720 00	725 00	BCS00010411	Cuttings			censored	censored	censored			
22PB	725 00	730 00	BCS00010412-22PB-12328	Cuttings			censored	censored	censored			
22PB	730 00	735 00	BCS00010413	Cuttings			censored	censored	censored			
22PB	735 00	740 00	BCS00010414-22PB-12330	Cuttings			censored	censored	censored			
22PB	740 00	745 00	BCS00010415	Cuttings			censored	censored	censored			
22PB	745 00	750 00	BCS00010416-22PB-12332	Cuttings			censored	censored	censored			
22PB	750 00	755 00	BCS00010417	Cuttings			censored	censored	censored			
22PB	755 00	760 00	BCS00010418-22PB-12334	Cuttings			censored	censored	censored			
22PB	760 00	765 00	BCS00010419	Cuttings			censored	censored	censored			
22PB	765 00	770 00	BCS00010420-22PB-12336	Cuttings			censored	censored	censored	censored	censored	censored
22PB	770 00	775 00	BCS00010421	Cuttings			censored	censored	censored			
22PB	775 00	780 00	BCS00010422-22PB-12338	Cuttings			censored	censored	censored			
22PB	780 00	785 00	BCS00010423	Cuttings			censored	censored	censored			
22PB	785 00	790 00	BCS00010424-22PB-12340	Cuttings			censored	censored	censored			
22PB	790 00	795 00	BCS00010425	Cuttings			censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
22PB	795 00	800 00	BCS00010426-22PB-12342	Cuttings			censored	censored	censored			
22PB	800 00	805 00	BCS00010427	Cuttings			censored	censored	censored			
22PB	805 00	810 00	BCS00010428-22PB-12344	Cuttings			censored	censored	censored			
22PB	810 00	815 00	BCS00010429	Cuttings			censored	censored	censored			
22PB	815 00	820 00	BCS00010430-22PB-12346	Cuttings			censored	censored	censored			
22PB	820 00	825 00	BCS00010431	Cuttings			censored	censored	censored			
22PB	825 00	830 00	BCS00010432-22PB-12348	Cuttings			censored	censored	censored			
22PB	830 00	835 00	BCS00010433	Cuttings			censored	censored	censored			
22PB	835 00	840 00	BCS00010434-22PB-12350	Cuttings			censored	censored	censored			
22PB	840 00	845 00	BCS00010435	Cuttings			censored	censored	censored			
22PB	845 00	850 00	BCS00010436-22PB-12352	Cuttings			censored	censored	censored			
22PB	850 00	855 00	BCS00010437	Cuttings			censored	censored	censored			
22PB	855 00	860 00	BCS00010438-22PB-12354	Cuttings			censored	censored	censored			
22PB	860 00	865 00	BCS00010439	Cuttings			censored	censored	censored			
22PB	865 00	870 00	BCS00010440-22PB-12356	Cuttings			censored	censored	censored			
22PB	870 00	875 00	BCS00010441	Cuttings			censored	censored	censored			
22PB	875 00	880 00	BCS00010442-22PB-12358	Cuttings			censored	censored	censored			
22PB	880 00	885 00	BCS00010443	Cuttings			censored	censored	censored			
22PB	885 00	890 00	BCS00010444-22PB-12360	Cuttings			censored	censored	censored			
22PB	890 00	895 00	BCS00010445	Cuttings			censored	censored	censored			
22PB	895 00	900 00	BCS00010446-22PB-12362	Cuttings			censored	censored	censored			
22PB	900 00	905 00	BCS00010447	Cuttings			censored	censored	censored			
22PB	905 00	910 00	BCS00010448-22PB-12364	Cuttings			censored	censored	censored			
22PB	910 00	915 00	BCS00010449	Cuttings			censored	censored	censored			
22PB	915 00	920 00	BCS00010450-22PB-12366	Cuttings			censored	censored	censored			
22PB	920 00	925 00	BCS00010451	Cuttings			censored	censored	censored			
22PB	925 00	930 00	BCS00010452-22PB-12368	Cuttings			censored	censored	censored			
22PB	930 00	935 00	BCS00010453	Cuttings			censored	censored	censored			
22PB	935 00	940 00	BCS00010454-22PB-12370	Cuttings			censored	censored	censored	censored	censored	censored
22PB	940 00	945 00	BCS00010455	Cuttings			censored	censored	censored			
22PB	945 00	950 00	BCS00010456-22PB-12372	Cuttings			censored	censored	censored			
22PB	950 00	955 00	BCS00010457	Cuttings			censored	censored	censored			
22PB	955 00	960 00	BCS00010458-22PB-12374	Cuttings			censored	censored	censored			
22PB	960 00	965 00	BCS00010459	Cuttings			censored	censored	censored			
22PB	965 00	970 00	BCS00010460-22PB-12376	Cuttings			censored	censored	censored			
22PB	970 00	975 00	BCS00010461	Cuttings			censored	censored	censored			
22PB	975 00	980 00	BCS00010462-22PB-12378	Cuttings			censored	censored	censored			
22PB	980 00	985 00	BCS00010463	Cuttings			censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
22PB	985 00	990 00	BCS00010464-22PB-12380	Cuttings			censored	censored	censored			
22PB	990 00	995 00	BCS00010465	Cuttings			censored	censored	censored			
22PB	995 00	1000 00	BCS00010466-22PB-12382	Cuttings			censored	censored	censored			
22PB	1000 00	1005 00	BCS00010467	Cuttings			censored	censored	censored			
22PB	1005 00	1010 00	BCS00010468-22PB-12384	Cuttings			censored	censored	censored			
22PB	1010 00	1015 00	BCS00010469	Cuttings			censored	censored	censored			
22PB	1015 00	1020 00	BCS00010470-22PB-12386	Cuttings			censored	censored	censored			
22PB	1020 00	1025 00	BCS00010471	Cuttings			censored	censored	censored			
22PB	1025 00	1030 00	BCS00010472-22PB-12388	Cuttings			censored	censored	censored			
22PB	1030 00	1035 00	BCS00010473	Cuttings			censored	censored	censored			
22PB	1035 00	1040 00	BCS00010474-22PB-12390	Cuttings			censored	censored	censored			
22PB	1040 00	1045 00	BCS00010475	Cuttings			censored	censored	censored			
22PB	1045 00	1050 00	BCS00010476-22PB-12392	Cuttings			censored	censored	censored			
22PB	1050 00	1055 00	BCS00010477	Cuttings			censored	censored	censored			
22PB	1055 00	1060 00	BCS00010478-22PB-12394	Cuttings			censored	censored	censored			
22PB	1060 00	1065 00	BCS00010479	Cuttings			censored	censored	censored			
22PB	1065 00	1070 00	BCS00010480-22PB-12396	Cuttings			censored	censored	censored			
22PB	1070 00	1075 00	BCS00010481	Cuttings			censored	censored	censored			
22PB	1075 00	1080 00	BCS00010482-22PB-12398	Cuttings			censored	censored	censored			
22PB	1080 00	1085 00	BCS00010483	Cuttings			censored	censored	censored			
22PB	1085 00	1090 00	BCS00010484-22PB-12400	Cuttings			censored	censored	censored			
22PB	1090 00	1095 00	BCS00010485	Cuttings			censored	censored	censored			
22PB	1095 00	1100 00	BCS00010486-22PB-12402	Cuttings			censored	censored	censored			
22PB	1100 00	1105 00	BCS00010487	Cuttings			censored	censored	censored	censored	censored	censored
22PB	1105 00	1110 00	BCS00010488-22PB-12404	Cuttings			censored	censored	censored			
22PB	1110 00	1115 00	BCS00010489	Cuttings			censored	censored	censored			
22PB	1115 00	1120 00	BCS00010490-22PB-12406	Cuttings			censored	censored	censored			
22PB	1120 00	1125 00	BCS00010491	Cuttings			censored	censored	censored			
22PB	1125 00	1130 00	BCS00010492-22PB-12408	Cuttings			censored	censored	censored			
22PB	1130 00	1135 00	BCS00010493	Cuttings			censored	censored	censored			
22PB	1135 00	1140 00	BCS00010494-22PB-12410	Cuttings			censored	censored	censored			
22PB	1140 00	1145 00	BCS00010495	Cuttings			censored	censored	censored			
22PB	1145 00	1150 00	BCS00010496-22PB-12412	Cuttings			censored	censored	censored			
22PB	1150 00	1155 00	BCS00010497	Cuttings			censored	censored	censored			
22PB	1155 00	1160 00	BCS00010498-22PB-12414	Cuttings			censored	censored	censored			
22PB	1160 00	1165 00	BCS00010499	Cuttings			censored	censored	censored			
22PB	1165 00	1170 00	BCS00010500-22PB-12416	Cuttings			censored	censored	censored			
22PB	1170 00	1175 00	BCS00010501	Cuttings			censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
22PB	1175 00	1180 00	BCS00010502-22PB-12418	Cuttings			censored	censored	censored			
22PB	1180 00	1185 00	BCS00010503	Cuttings			censored	censored	censored			
22PB	1185 00	1190 00	BCS00010504-22PB-12420	Cuttings			censored	censored	censored			
22PB	1190 00	1195 00	BCS00010505	Cuttings			censored	censored	censored			
22PB	1195 00	1200 00	BCS00010506-22PB-12422	Cuttings			censored	censored	censored			
22SA	2 50	5 00	BCS00010402-22SA-11157	Cuttings			23 2	67 6	9 1			
22SA	7 50	10 00	BCS00010404-22SA-11158	Cuttings			30 4	60 5	9 1	2 3	4 5	44 1
22SA	12 50	15 00	BCS00010406-22SA-11159	Cuttings			44 3	46 3	9 4	0 6	2 6	21 2
22SA	17 50	20 00	BCS00010408-22SA-11160	Cuttings			42 6	51 0	6 4	0 7	2 9	23 9
22SA	22 50	25 00	BCS00010410-22SA-11161	Cuttings	0 062	939	24 6	61 8	13 6			
22SA	27 50	30 00	BCS00010412-22SA-11162	Cuttings	0 068	250	22 5	61 2	16 3			
22SA	32 50	35 00	BCS00010414-22SA-11163	Cuttings	0 046	66	12 7	74 7	12 5			
22SA	37 50	40 00	BCS00010416-22SA-11164	Cuttings	0 033	53	14 2	65 5	20 3	4 5	5 7	47 0
22SA	42 50	45 00	BCS00010418-22SA-11165	Cuttings	0 029	51	35 2	54 2	10 6			
22SA	47 50	50 00	BCS00010420-22SA-11166	Cuttings	0 026	47	15 5	68 2	16 3			
22SA	52 50	55 00	BCS00010422-22SA-11167	Cuttings	0 002	350	24 5	61 6	14 0			
22SA	57 50	60 00	BCS00010424-22SA-11168	Cuttings	0 033	33	13 6	74 4	12 0			
22SA	62 50	65 00	BCS00010426-22SA-11169	Cuttings	0 063	402	32 5	55 0	12 4			
22SA	67 50	70 00	BCS00010428-22SA-11170	Cuttings	0 031	357	19 4	72 6	8 0			
22SA	72 50	75 00	BCS00010430-22SA-11171	Cuttings	0 039	413	5 8	76 1	18 1			
22SA	77 50	80 00	BCS00010432-22SA-11172	Cuttings	0 031	462	19 1	73 0	7 9			
22SA	82 50	85 00	BCS00010434-22SA-11173	Cuttings	0 029	31	18 2	73 3	8 5			
22SA	87 50	90 00	BCS00010436-22SA-11174	Cuttings	0 027	28	42 3	51 0	6 7			
22SA	92 50	95 00	BCS00010438-22SA-11175	Cuttings	0 031	42	27 4	61 4	11 2			
22SA	97 50	100 00	BCS00010440-22SA-11176	Cuttings	0 022	27	26 7	64 2	9 1			
22SA	102 50	105 00	BCS00010442-22SA-11177	Cuttings	0 024	271	30 2	57 9	11 9			
22SA	107 50	110 00	BCS00010444-22SA-11178	Cuttings	0 024	345	42 1	45 2	12 7			
22SA	112 50	115 00	BCS00010446-22SA-11179	Cuttings	0 029	313	35 7	52 6	11 7			
22SA	117 50	120 00	BCS00010448-22SA-11180	Cuttings	0 036	302	51 8	36 2	12 0			
22SA	122 50	125 00	BCS00010450-22SA-11181	Cuttings	0 022	176	37 3	52 1	10 6			
22SA	127 50	130 00	BCS00010452-22SA-11182	Cuttings	0 068	23	22 8	63 9	13 3			
22SA	132 50	135 00	BCS00010454-22SA-11183	Cuttings	0 019	215	36 4	52 8	10 8			
22SA	137 50	140 00	BCS00010456-22SA-11184	Cuttings	0 027	337	34 2	52 3	13 6			
22SA	142 50	145 00	BCS00010458-22SA-11185	Cuttings	0 017	135	47 7	47 9	4 4			
22SA	147 50	150 00	BCS00010460-22SA-11186	Cuttings	0 018	103	49 7	42 6	7 7			
22SA	152 50	155 00	BCS00010462-22SA-11187	Cuttings	0 021	173	42 0	45 8	12 2			
22SA	157 50	160 00	BCS00010464-22SA-11188	Cuttings	0 017	385	29 1	50 8	20 1			
22SA	162 50	165 00	BCS00010466-22SA-11189	Cuttings	0 017	166	24 1	63 6	12 3			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conductivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
22SA	167 50	170 00	BCS00010468-22SA-11190	Cuttings	0 045	402	41 2	49 5	9 3			
22SA	172 50	175 00	BCS00010470-22SA-11191	Cuttings	0 025	195	26 1	64 2	9 7			
22SA	177 50	180 00	BCS00010472-22SA-11192	Cuttings	0 025	418	23 5	61 0	15 5			
22SA	182 50	185 00	BCS00010474-22SA-11193	Cuttings	0 031	185	42 2	46 9	10 8			
22SA	187 50	190 00	BCS00010476-22SA-11194	Cuttings	0 027	237	25 3	59 6	15 1			
22SA	192 50	195 00	BCS00010478-22SA-11195	Cuttings	0 021	193	33 7	53 3	13 0			
22SA	197 50	200 00	BCS00010480-22SA-11196	Cuttings	0 024	246	30 5	59 7	9 7			
22SA	202 50	205 00	BCS00010482-22SA-11197	Cuttings	0 024	202	46 2	41 0	12 8			
22SA	207 50	210 00	BCS00010484-22SA-11198	Cuttings	0 028	267	37 4	52 9	9 7			
22SA	212 50	215 00	BCS00010486-22SA-11199	Cuttings	0 02	176	53 3	40 1	6 6			
22SA	217 50	220 00	BCS00010488-22SA-11200	Cuttings	0 014	129	23 8	64 5	11 7			
22SA	222 50	225 00	BCS00010490-22SA-11201	Cuttings	0 026	113	36 6	53 8	9 6			
22SA	227 50	230 00	BCS00010492-22SA-11202	Cuttings	0 029	105	23 2	62 7	14 1			
22SA	232 50	235 00	BCS00010494-22SA-11203	Cuttings	0 015	104	31 6	53 2	15 1			
22SA	237 50	240 00	BCS00010496-22SA-11204	Cuttings	0 017	1270	23 9	62 2	13 8			
22SA	242 50	245 00	BCS00010498-22SA-11205	Cuttings	0 015	702	26 4	59 1	14 6			
22SA	247 50	250 00	BCS00010500-22SA-11206	Cuttings	0 021	977	33 8	52 3	13 9			
22SA	252 50	255 00	BCS00010502-22SA-11207	Cuttings	0 027	1108	42 7	45 1	12 3			
22SA	257 50	260 00	BCS00010504-22SA-11208	Cuttings	0 053	698	19 9	61 4	18 7	6 3	8 9	42 0
22SA	262 50	265 00	BCS00010506-22SA-11209	Cuttings	0 038	111	28 2	55 6	16 1			
22SA	267 50	270 00	BCS00010508	Cuttings	0 038	1325	25 2	57 9	16 9			
22SA	272 50	275 00	BCS00010510	Cuttings	0 044	1017	33 9	53 9	12 2			
22SA	277 50	280 00	BCS00010512	Cuttings	0 046	1097	35 3	49 9	14 8			
22SA	282 50	285 00	BCS00010514	Cuttings	0 035	930	36 0	55 0	9 0			
22SA	287.50	290 00	BCS00010516	Cuttings	0 025	170	46 8	42 1	11 2			
22SA	292 50	295 00	BCS00010518	Cuttings	0 035	148	30 9	53 0	16 1			
22SA	297 50	300 00	BCS00010520	Cuttings	0 041	180	39 5	39 1	21 4			
22SA	302 50	305 00	BCS00010522	Cuttings	0 023	153	34 1	55 7	10 1			
22SA	307 50	310 00	BCS00010524	Cuttings	0 041	188	28 9	50 2	20 9			
22SA	312 50	315 00	BCS00010526	Cuttings	0 066	196	24 4	53 6	22 0			
22SA	317 50	320 00	BCS00010528	Cuttings	0 037	231	19 0	61 0	20 0			
22SA	322 50	325 00	BCS00010530	Cuttings	0 048	348	26 4	58 9	14 6			
22SA	327 50	330 00	BCS00010532	Cuttings	0 032	138	33 0	59 5	7 5			
22SA	332 50	335 00	BCS00010534	Cuttings	0 047	151	28 6	60 4	11 1			
22SA	337 50	340 00	BCS00010536	Cuttings	0 028	169	26 6	52 5	20 8			
22SA	342 50	345 00	BCS00010538	Cuttings	0 029	252	25 8	60 5	13 6			
22SA	347 50	350 00	BCS00010540	Cuttings	0 037	176	21 8	61 7	16 6			
22SA	352 50	355 00	BCS00010542	Cuttings	0 032	267	18 5	89 8	14 0			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
22SA	357 50	360 00	BCS00010544	Cuttings	0 022	263	35 3	50 4	14 3			
22SA	362 50	365 00	BCS00010546	Cuttings	0 033	224	22 3	59 3	18 4			
22SA	367 50	370 00	BCS00010548	Cuttings	0 029	156	29 0	59 6	11 3			
22SA	372 50	375 00	BCS00010550	Cuttings	0 04	140	23 8	62 6	13 6			
22SA	377 50	380 00	BCS00010552	Cuttings	0 053	152	18 3	62 0	19 7			
22SA	382 50	385 00	BCS00010554	Cuttings	0 02	160	37 4	45 8	16 8			
22SA	387 50	390 00	BCS00010556	Cuttings	0 043	185	31 5	47 8	20 7			
22SA	392 50	395 00	BCS00010558	Cuttings	0 046	177	20 9	62 0	17 1			
22SA	397 50	400 00	BCS00010560	Cuttings	0 048	202	19 9	58 1	22 0	16 1	15 3	42 9
22SA	402 50	405 00	BCS00010562	Cuttings	0 04	195	39 3	45 2	15 6			
22SA	407 50	410 00	BCS00010564	Cuttings	0 058	214	20 3	60 8	19 0			
22SA	412 50	415 00	BCS00010566	Cuttings	0 062	177	15 8	62 8	21 4			
22SA	417 50	420 00	BCS00010568	Cuttings	0 055	142	32 6	47 2	20 2			
22SA	422 50	425 00	BCS00010570	Cuttings	0 066	226	16 6	61 7	21 7			
22SA	427 50	430 00	BCS00010572	Cuttings	0 001	202	16 3	62 5	21 2			
22SA	432 50	435 00	BCS00010574	Cuttings	0 058	280	12 3	66 0	21 7			
22SA	437 50	440 00	BCS00010576	Cuttings	0 066	136	23 1	63 1	13 8			
22SA	442 50	445 00	BCS00010578	Cuttings	0 168	331	25 2	51 7	23 2			
22SA	447 50	450 00	BCS00010580	Cuttings	0 061	126	16 3	63 7	20 0			
22SA	452 50	455 00	BCS00010582	Cuttings	0 067	185	20 1	56 4	23 5			
22SA	457 50	460 00	BCS00010584	Cuttings	0 067	246	19 3	58 4	22 4			
22SA	462 50	465 00	BCS00010586	Cuttings	0 066	215	19 0	56 9	24 1			
22SA	467 50	470 00	BCS00010588	Cuttings	0 078	290	18 8	60 7	20 6			
22SA	472 50	475 00	BCS00010590	Cuttings	censored	censored	23 8	58 0	18 2			
22SA	477 50	480 00	BCS00010592	Cuttings	censored	censored	19 8	59 4	20 9			
22SA	482 50	485 00	BCS00010594	Cuttings	censored	censored	13 1	60 7	26 2	9 4	9 2	34 1
22SA	487 50	490 00	BCS00010596	Cuttings			censored	censored	censored			
22SA	492 50	495 00	BCS00010598	Cuttings			censored	censored	censored			
22SA	497 50	500 00	BCS00010600	Cuttings			censored	censored	censored			
22SA	502 50	505 00	BCS00010602	Cuttings			censored	censored	censored			
22SA	507 50	510 00	BCS00010604	Cuttings			censored	censored	censored	17 1	23 7	51 4
22SA	512 50	515 00	BCS00010606	Cuttings			censored	censored	censored			
22SA	517 50	520 00	BCS00010608	Cuttings			censored	censored	censored			
22SA	522 50	525 00	BCS00010610	Cuttings			censored	censored	censored			
22SA	527 50	530 00	BCS00010612	Cuttings			censored	censored	censored			
22SA	532 50	535 00	BCS00010614	Cuttings			censored	censored	censored			
22SA	537 50	540 00	BCS00010616	Cuttings			censored	censored	censored			
22SA	542 50	545 00	BCS00010618	Cuttings			censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
22SA	547 50	550 00	BCS00010620	Cuttings			censored	censored	censored			
22SA	552 50	555 00	BCS00010622	Cuttings			censored	censored	censored			
22SA	557 50	560 00	BCS00010624	Cuttings			censored	censored	censored			
22SA	560 00	565 00	BCS00010625	Cuttings			censored	censored	censored			
22SA	565 00	570 00	BCS00010626	Cuttings			censored	censored	censored			
22SA	570 00	575 00	BCS00010627	Cuttings			censored	censored	censored			
22SA	575 00	580 00	BCS00010628	Cuttings			censored	censored	censored			
22SA	580 00	585 00	BCS00010629	Cuttings			censored	censored	censored			
22SA	585 00	590 00	BCS00010630	Cuttings			censored	censored	censored			
22SA	590 00	595 00	BCS00010631	Cuttings			13 7	37 4	48 9			
22SA	595 00	600 00	BCS00010632	Cuttings			10 1	65 4	24 4			
22SA	600 00	605 00	BCS00010633	Cuttings			13 7	64 0	22 3			
22SA	605 00	610 00	BCS00010634	Cuttings			10 8	58 5	30 6			
22SA	610 00	615 00	BCS00010635	Cuttings			6 0	60 9	33 1			
22SA	615 00	620 00	BCS00010636	Cuttings			9 8	59 5	30 8			
22SA	620 00	625 00	BCS00010637	Cuttings			17 2	69 1	13 7			
22SA	625 00	630 00	BCS00010638	Cuttings			12 5	56 1	31 3			
22SA	630 00	635 00	BCS00010639	Cuttings			10 8	60 7	28 5			
22SA	635 00	640 00	BCS00010640	Cuttings			10 1	63 7	26 2			
22SA	640 00	645 00	BCS00010641	Cuttings			10 6	67 0	22 4			
22SA	645 00	650 00	BCS00010642	Cuttings			8 9	62 5	28 6			
22SA	650 00	655 00	BCS00010643	Cuttings			10 7	60 3	29 1			
22SA	655 00	660 00	BCS00010644	Cuttings			6 0	60 5	33 5			
22SA	660 00	665 00	BCS00010645	Cuttings			7 1	64 9	28 0			
22SA	665 00	670 00	BCS00010646	Cuttings			censored	censored	censored			
22SA	670 00	675 00	BCS00010647	Cuttings			censored	censored	censored			
22SA	675 00	680 00	BCS00010648	Cuttings			censored	censored	censored			
22SA	680 00	685 00	BCS00010649	Cuttings			censored	censored	censored			
22SA	685 00	690 00	BCS00010650	Cuttings			censored	censored	censored			
22SA	690 00	695 00	BCS00010651	Cuttings			censored	censored	censored			
22SA	695 00	700 00	BCS00010652-22SA-11296	Cuttings			censored	censored	censored			
22SA	700 00	705 00	BCS00010653	Cuttings			censored	censored	censored			
22SA	705 00	710 00	BCS00010654-22SA-11298	Cuttings			censored	censored	censored			
22SA	710 00	715 00	BCS00010655	Cuttings			censored	censored	censored			
22SA	715 00	720 00	BCS00010656-22SA-11300	Cuttings			censored	censored	censored			
22SA	720 00	725 00	BCS00010657	Cuttings			censored	censored	censored			
22SA	725 00	730 00	BCS00010658-22SA-11302	Cuttings			censored	censored	censored			
22SA	730 00	735 00	BCS00010659	Cuttings			censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
22SA	735 00	740 00	BCS00010660-22SA-11304	Cuttings			censored	censored	censored			
22SA	740 00	745 00	BCS00010661	Cuttings			censored	censored	censored			
22SA	745 00	750 00	BCS00010662-22SA-11306	Cuttings			censored	censored	censored			
22SA	750 00	755 00	BCS00010663	Cuttings			censored	censored	censored	censored	censored	censored
22SA	755 00	760 00	BCS00010664-22SA-11308	Cuttings			censored	censored	censored			
22SA	760 00	765 00	BCS00010665	Cuttings			censored	censored	censored			
22SA	765 00	770 00	BCS00010666-22SA-11310	Cuttings			censored	censored	censored			
22SA	770 00	775 00	BCS00010667	Cuttings			censored	censored	censored			
22SA	775 00	780 00	BCS00010668-22SA-11312	Cuttings			censored	censored	censored			
22SA	780 00	785 00	BCS00010669	Cuttings			censored	censored	censored			
22SA	785 00	790 00	BCS00010670-22SA-11314	Cuttings			censored	censored	censored			
22SA	790 00	795 00	BCS00010671	Cuttings			censored	censored	censored			
22SA	795 00	800 00	BCS00010672-22SA-11316	Cuttings			censored	censored	censored			
22SA	800 00	805 00	BCS00010673	Cuttings			censored	censored	censored			
22SA	805 00	810 00	BCS00010674-22SA-11318	Cuttings			censored	censored	censored			
22SA	810 00	815 00	BCS00010675	Cuttings			censored	censored	censored			
22SA	815 00	820 00	BCS00010676-22SA-11320	Cuttings			censored	censored	censored			
22SA	820 00	825 00	BCS00010677	Cuttings			censored	censored	censored			
22SA	825 00	830 00	BCS00010678-22SA-11322	Cuttings			censored	censored	censored	censored	censored	censored
22SA	830 00	835 00	BCS00010679	Cuttings			censored	censored	censored			
22SA	835 00	840 00	BCS00010680-22SA-11324	Cuttings			censored	censored	censored			
22SA	840 00	845 00	BCS00010681	Cuttings			censored	censored	censored			
22SA	845 00	850 00	BCS00010682-22SA-11326	Cuttings			censored	censored	censored			
22SA	850 00	855 00	BCS00010683	Cuttings			censored	censored	censored			
22SA	855 00	860 00	BCS00010684-22SA-11328	Cuttings			censored	censored	censored			
22SA	860 00	865 00	BCS00010685	Cuttings			censored	censored	censored			
22SA	865 00	870 00	BCS00010686-22SA-11330	Cuttings			censored	censored	censored			
22SA	870 00	875 00	BCS00010687	Cuttings			censored	censored	censored			
22SA	875 00	880 00	BCS00010688-22SA-11332	Cuttings			censored	censored	censored			
22SA	880 00	885 00	BCS00010689	Cuttings			censored	censored	censored			
22SA	885 00	890 00	BCS00010690-22SA-11334	Cuttings			censored	censored	censored			
22SA	890 00	895 00	BCS00010691	Cuttings			censored	censored	censored			
22SA	895 00	900 00	BCS00010692-22SA-11336	Cuttings			censored	censored	censored			
22SA	900 00	905 00	BCS00010693	Cuttings			censored	censored	censored			
22SA	905 00	910 00	BCS00010694-22SA-11338	Cuttings			censored	censored	censored			
22SA	910 00	915 00	BCS00010695	Cuttings			censored	censored	censored			
22SA	915 00	920 00	BCS00010696-22SA-11340	Cuttings			censored	censored	censored			
22SA	920 00	925 00	BCS00010697	Cuttings			censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
22SA	925 00	930 00	BCS00010698-22SA-11342	Cuttings			censored	censored	censored			
22SA	930 00	935 00	BCS00010699	Cuttings			censored	censored	censored			
22SA	935 00	940 00	BCS00010700-22SA-11344	Cuttings			censored	censored	censored			
22SA	940 00	945 00	BCS00010701	Cuttings			censored	censored	censored			
22SA	945 00	950 00	BCS00010702-22SA-11346	Cuttings			censored	censored	censored			
22SA	950 00	955 00	BCS00010703	Cuttings			censored	censored	censored			
22SA	955 00	960 00	BCS00010704-22SA-11348	Cuttings			censored	censored	censored			
22SA	960 00	965 00	BCS00010705	Cuttings			censored	censored	censored			
22SA	965 00	970 00	BCS00010706-22SA-11350	Cuttings			censored	censored	censored			
22SA	970 00	975 00	BCS00010707	Cuttings			censored	censored	censored			
22SA	975 00	980 00	BCS00010708-22SA-11352	Cuttings			censored	censored	censored			
22SA	980 00	985 00	BCS00010709	Cuttings			censored	censored	censored			
22SA	985 00	990 00	BCS00010710-22SA-11354	Cuttings			censored	censored	censored			
22SA	990 00	995 00	BCS00010711	Cuttings			censored	censored	censored	censored	censored	censored
22SA	995 00	1000 00	BCS00010712-22SA-11356	Cuttings			censored	censored	censored			
22SA	1000 00	1005 00	BCS00010713	Cuttings			censored	censored	censored			
22SA	1005 00	1010 00	BCS00010714-22SA-11358	Cuttings			censored	censored	censored			
22SA	1010 00	1015 00	BCS00010715	Cuttings			censored	censored	censored			
22SA	1015 00	1020 00	BCS00010716-22SA-11360	Cuttings			censored	censored	censored			
22SA	1020 00	1025 00	BCS00010717	Cuttings			censored	censored	censored			
22SA	1025 00	1030 00	BCS00010718-22SA-11362	Cuttings			censored	censored	censored			
22SA	1030 00	1035 00	BCS00010719	Cuttings			censored	censored	censored			
22SA	1035 00	1040 00	BCS00010720-22SA-11364	Cuttings			censored	censored	censored			
22SA	1040 00	1045 00	BCS00010721	Cuttings			censored	censored	censored			
22SA	1045 00	1050 00	BCS00010722-22SA-11366	Cuttings			censored	censored	censored			
22SA	1050 00	1055 00	BCS00010723	Cuttings			censored	censored	censored			
22SA	1055 00	1060 00	BCS00010724-22SA-11368	Cuttings			censored	censored	censored			
22SA	1060 00	1065 00	BCS00010725	Cuttings			censored	censored	censored			
22SA	1065 00	1070 00	BCS00010726-22SA-11370	Cuttings			censored	censored	censored			
22SA	1070 00	1075 00	BCS00010727	Cuttings			censored	censored	censored			
22SA	1075 00	1080 00	BCS00010728-22SA-11372	Cuttings			censored	censored	censored			
22SA	1080 00	1085 00	BCS00010729	Cuttings			censored	censored	censored			
22SA	1085 00	1090 00	BCS00010730-22SA-11374	Cuttings			censored	censored	censored			
22SA	1090 00	1095 00	BCS00010731	Cuttings			censored	censored	censored			
22SA	1095 00	1100 00	BCS00010732-22SA-11376	Cuttings			censored	censored	censored			
22SA	1100 00	1105 00	BCS00010733	Cuttings			censored	censored	censored			
22SA	1105 00	1110 00	BCS00010734-22SA-11378	Cuttings			censored	censored	censored			
23P	2 50	5 00	BCS00010652-23P-12423	Cuttings	0 052	444	15 0	68 0	17 0			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
23P	7 50	10 00	BCS00010654-23P-12424	Cuttings	0 049	453	38 0	52 0	10 0			
23P	12 50	15 00	BCS00010656-23P-12425	Cuttings	0 064	710	46 0	43 0	11 0			
23P	17 50	20 00	BCS00010658-23P-12426	Cuttings	0 059	739	36 0	42 0	21 0			
23P	22 50	25 00	BCS00010660-23P-12427	Cuttings	0 048	557	50 0	46 0	4 0			
23P	27 50	30 00	BCS00010662-23P-12428	Cuttings	0 036	247	23 0	63 0	14 0			
23P	32 50	35 00	BCS00010664-23P-12429	Cuttings	0 022	159	24 0	61 0	15 0			
23P	37 50	40 00	BCS00010666-23P-12430	Cuttings	0 036	202	45 0	46 0	9 0			
23P	42 50	45 00	BCS00010668-23P-12431	Cuttings	0 041	235	39 0	50 0	12 0			
23P	47 50	50 00	BCS00010670-23P-12432	Cuttings	0 026	200	32 0	58 0	10 0			
23P	52 50	55 00	BCS00010672-23P-12433	Cuttings	0 025	219	25 0	67 0	8 0			
23P	57 50	60 00	BCS00010674-23P-12434	Cuttings	0 033	184	31 0	60 0	9 0			
23P	62 50	65 00	BCS00010676-23P-12435	Cuttings	0 023	187	9 0	73 0	17 0			
23P	67 50	70 00	BCS00010678-23P-12436	Cuttings	0 035	223	31 0	63 0	6 0			
23P	72 50	75 00	BCS00010680-23P-12437	Cuttings	0 031	228	18 0	72 0	10 0			
23P	77 50	80 00	BCS00010682-23P-12438	Cuttings	0 025	172	43 0	45 0	12 0			
23P	82 50	85 00	BCS00010684-23P-12439	Cuttings	0 022	118	27 0	66 0	7 0			
23P	87 50	90 00	BCS00010686-23P-12440	Cuttings	0 025	138	23 0	72 0	5 0			
23P	92 50	95 00	BCS00010688-23P-12441	Cuttings	0 028	107	13 0	64 0	24 0	2 9	3 2	58 2
23P	97 50	100 00	BCS00010690-23P-12442	Cuttings	0 025	365	22 0	71 0	6 0			
23P	102 50	105 00	BCS00010692-23P-12443	Cuttings	0 029	156	20 0	70 0	10 0			
23P	107 50	110 00	BCS00010694-23P-12444	Cuttings	0 023	116	20 0	69 0	11 0			
23P	112 50	115 00	BCS00010696-23P-12445	Cuttings	0 028	120	28 0	61 0	11 0			
23P	117 50	120 00	BCS00010698-23P-12446	Cuttings	0 03	137	15 0	78 0	7 0			
23P	122 50	125 00	BCS00010700-23P-12447	Cuttings	0 028	175	21 0	62 0	17 0			
23P	127 50	130 00	BCS00010702-23P-12448	Cuttings	0 027	109	22 0	69 0	9 0			
23P	132 50	135 00	BCS00010704-23P-12449	Cuttings	0 025	91	36 0	58 0	6 0			
23P	137 50	140 00	BCS00010706-23P-12450	Cuttings	0 02	84	21 0	68 0	11 0			
23P	142 50	145 00	BCS00010708-23P-12451	Cuttings	0 026	107	26 0	64 0	10 0			
23P	147 50	150 00	BCS00010710-23P-12452	Cuttings	0 03	101	27 0	66 0	7 0			
23P	152 50	155 00	BCS00010712-23P-12453	Cuttings	0 025	139	56 0	37 0	8 0			
23P	157 50	160 00	BCS00010714-23P-12454	Cuttings	0 04	47	30 0	61 0	9 0			
23P	162 50	165 00	BCS00010716-23P-12455	Cuttings	0 034	110	35 0	59 0	6 0			
23P	167 50	170 00	BCS00010718-23P-12456	Cuttings	0 031	109	20 0	71 0	9 0			
23P	172 50	175 00	BCS00010720-23P-12457	Cuttings	0 031	116	18 0	75 0	6 0			
23P	177 50	180 00	BCS00010722-23P-12458	Cuttings	0 053	142	32 0	56 0	12 0			
23P	182 50	185 00	BCS00010724-23P-12459	Cuttings	0 034	162	27 0	68 0	5 0			
23P	187 50	190 00	BCS00010726-23P-12460	Cuttings	0 038	145	40 0	52 0	8 0			
23P	192 50	195 00	BCS00010728-23P-12461	Cuttings	0 044	178	25 0	64 0	11 0			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
23P	197 50	200 00	BCS00010730-23P-12462	Cuttings	0 05	213	21 0	66 0	12 0			
23P	202 50	205 00	BCS00010732-23P-12463	Cuttings	0 055	187	20 0	67 0	12 0			
23P	207 50	210 00	BCS00010734-23P-12464	Cuttings	0 032	129	20 0	52 0	28 0	1 9	3 5	54 8
23P	212 50	215 00	BCS00010736	Cuttings	0 031	143	27 0	61 0	12 0			
23P	217 50	220 00	BCS00010738	Cuttings	0 022	122	31 0	62 0	8 0			
23P	222 50	225 00	BCS00010740	Cuttings	0 037	113	34 0	59 0	7 0			
23P	227 50	230 00	BCS00010742	Cuttings	0 041	156	28 0	60 0	12 0			
23P	232 50	235 00	BCS00010744	Cuttings	0 034	115	19 0	70 0	11 0			
23P	237 50	240 00	BCS00010746	Cuttings	0 03	130	20 0	69 0	11 0			
23P	242 50	245 00	BCS00010748	Cuttings	0 028	183	20 0	76 0	4 0			
23P	247 50	250 00	BCS00010750	Cuttings	0 02	158	26 0	65 0	9 0			
23P	252 50	255 00	BCS00010752	Cuttings	0 021	130	30 0	62 0	8 0			
23P	257 50	260 00	BCS00010754	Cuttings	0 018	121	24 0	70 0	6 0			
23P	262 50	265 00	BCS00010756	Cuttings	0 044	206	21 0	67 0	12 0			
23P	267 50	270 00	BCS00010758	Cuttings	0 017	118	16 0	72 0	12 0			
23P	272 50	275 00	BCS00010760	Cuttings	0 038	144	38 0	56 0	5 0			
23P	277 50	280 00	BCS00010762	Cuttings	0 026	112	26 0	69 0	5 0			
23P	282 50	285 00	BCS00010764	Cuttings	0 033	105	22 0	67 0	11 0			
23P	287 50	290 00	BCS00010766	Cuttings	0 031	136	21 0	68 0	11 0			
23P	292 50	295 00	BCS00010768	Cuttings	0 029	173	17 0	73 0	10 0			
23P	297 50	300 00	BCS00010770	Cuttings	0 039	130	13 0	74 0	12 0			
23P	302 50	305 00	BCS00010772	Cuttings	0 038	132	23 0	62 0	16 0			
23P	307 50	310 00	BCS00010774	Cuttings	0 042	163	37 0	57 0	6 0			
23P	312 50	315 00	BCS00010776	Cuttings	0 02	134	24 0	60 0	15 0			
23P	317 50	320 00	BCS00010778	Cuttings	0 033	170	24 0	64 0	12 0			
23P	322 50	325 00	BCS00010780	Cuttings	0 045	131	14 0	74 0	12 0			
23P	327 50	330 00	BCS00010782	Cuttings	0 043	160	32 0	58 0	10 0			
23P	332 50	335 00	BCS00010784	Cuttings	0 03	207	48 0	39 0	13 0			
23P	337 50	340 00	BCS00010786	Cuttings	0 053	199	46 0	42 0	12 0			
23P	342 50	345 00	BCS00010788	Cuttings	0 0304	180	58 0	32 0	10 0			
23P	347 50	350 00	BCS00010790	Cuttings	0 049	156	42 0	45 0	13 0	3 6	6 4	63 8
23P	352 50	355 00	BCS00010792	Cuttings	0 04	117	20 0	53 0	27 0			
23P	357 50	360 00	BCS00010794	Cuttings	0 033	117	10 0	85 0	6 0			
23P	362 50	365 00	BCS00010796	Cuttings	0 032	110	22 0	69 0	9 0			
23P	367 50	370 00	BCS00010798	Cuttings	0 036	164	17 0	75 0	7 0			
23P	372 50	375 00	BCS00010800	Cuttings	0 029	218	33 0	59 0	8 0			
23P	377 50	380 00	BCS00010802	Cuttings	0 039	161	31 0	62 0	7 0			
23P	382 50	385 00	BCS00010804	Cuttings	0 042	132	30 0	64 0	6 0			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
23P	387 50	390 00	BCS00010806	Cuttings	0 046	135	29 0	57 0	15 0			
23P	392 50	395 00	BCS00010808	Cuttings	0 045	142	42 0	52 0	6 0			
23P	397 50	400 00	BCS00010810	Cuttings	0 045	161	17 0	55 0	28 0			
23P	402 50	405 00	BCS00010812	Cuttings	0 02	134	36 0	57 0	7 0			
23P	407 50	410 00	BCS00010814	Cuttings	0 03	234	30 0	59 0	11 0			
23P	412 50	415 00	BCS00010816	Cuttings	0 055	152	21 0	54 0	26 0			
23P	417 50	420 00	BCS00010818	Cuttings	0 059	114	22 0	51 0	27 0			
23P	422 50	425 00	BCS00010820	Cuttings	0 054	126	31 0	64 0	5 0			
23P	427 50	430 00	BCS00010822	Cuttings	censored	censored	40 0	52 0	9 0			
23P	432 50	435 00	BCS00010824	Cuttings	censored	censored	40 0	53 0	7 0			
23P	437 50	440 00	BCS00010826	Cuttings			12 0	53 0	35 0			
23P	442 50	445 00	BCS00010828	Cuttings			35 0	56 0	9 0			
23P	447 50	450 00	BCS00010830	Cuttings			29 0	66 0	5 0			
23P	450 00	455 00	BCS00010831	Cuttings			9 0	69 0	22 0			
23P	455 00	460 00	BCS00010832	Cuttings			17 0	65 0	19 0			
23P	460 00	465 00	BCS00010833	Cuttings			9 0	70 0	21 0			
23P	465 00	470 00	BCS00010834	Cuttings			27 0	57 0	16 0			
23P	470 00	475 00	BCS00010835	Cuttings			13 0	69 0	18 0			
23P	475 00	480 00	BCS00010836	Cuttings			15 0	65 0	20 0			
23P	480 00	485 00	BCS00010837	Cuttings			15 0	66 0	18 0			
23P	485 00	490 00	BCS00010838	Cuttings			7 0	68 0	24 0	6 0	11 0	72 0
23P	490 00	495 00	BCS00010839	Cuttings			16 0	65 0	18 0			
23P	495 00	500 00	BCS00010840	Cuttings			17 0	69 0	14 0			
23P	500 00	505 00	BCS00010841	Cuttings			12 0	69 0	19 0			
23P	505 00	510 00	BCS00010842	Cuttings			19 0	66 0	15 0			
23P	510 00	515 00	BCS00010843	Cuttings			13 0	68 0	19 0			
23P	515 00	520 00	BCS00010844	Cuttings			10 0	69 0	20 0			
23P	520 00	525 00	BCS00010845	Cuttings			13 0	66 0	21 0			
23P	525 00	530 00	BCS00010846	Cuttings			6 0	71 0	23 0			
23P	530 00	535 00	BCS00010847	Cuttings			9 0	69 0	22 0			
23P	535 00	540 00	BCS00010848	Cuttings			9 0	68 0	23 0			
23P	540 00	545 00	BCS00010849	Cuttings			7 0	72 0	21 0			
23P	545 00	550 00	BCS00010850	Cuttings			9 0	66 0	25 0			
23P	550 00	555 00	BCS00010851	Cuttings			14 0	63 0	24 0			
23P	555 00	560 00	BCS00010852	Cuttings			censored	censored	censored			
23P	560 00	565 00	BCS00010853	Cuttings			censored	censored	censored			
23P	565 00	570 00	BCS00010854	Cuttings			censored	censored	censored			
23P	570 00	575 00	BCS00010855	Cuttings			censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
23P	575 00	580 00	BCS00010856	Cuttings			censored	censored	censored			
23P	580 00	585 00	BCS00010857	Cuttings			censored	censored	censored			
23P	585 00	590 00	BCS00010858	Cuttings			censored	censored	censored	censored	censored	censored
23P	590 00	595 00	BCS00010859	Cuttings			censored	censored	censored			
23P	595 00	600 00	BCS00010860	Cuttings			censored	censored	censored			
23P	600 00	605 00	BCS00010861	Cuttings			censored	censored	censored			
23P	605 00	610 00	BCS00010862	Cuttings			censored	censored	censored			
23P	610 00	615 00	BCS00010863	Cuttings			censored	censored	censored			
23P	615 00	620 00	BCS00010864	Cuttings			censored	censored	censored			
23P	620 00	625 00	BCS00010865	Cuttings			censored	censored	censored			
23P	625 00	630 00	BCS00010866	Cuttings			censored	censored	censored			
23P	630 00	635 00	BCS00010867	Cuttings			censored	censored	censored			
23P	635 00	640 00	BCS00010868	Cuttings			censored	censored	censored			
23P	640 00	645 00	BCS00010869	Cuttings			censored	censored	censored			
23P	645 00	650 00	BCS00010870	Cuttings			censored	censored	censored			
23P	650 00	655 00	BCS00010871	Cuttings			censored	censored	censored			
23P	655 00	660 00	BCS00010872	Cuttings			censored	censored	censored			
23P	660 00	665 00	BCS00010873	Cuttings			censored	censored	censored			
23P	665 00	670 00	BCS00010874	Cuttings			censored	censored	censored			
23P	670 00	675 00	BCS00010875	Cuttings			censored	censored	censored			
23P	675 00	680 00	BCS00010876	Cuttings			censored	censored	censored			
23P	680 00	685 00	BCS00010877	Cuttings			censored	censored	censored			
23P	685 00	690 00	BCS00010878	Cuttings			censored	censored	censored	censored	censored	censored
23P	690 00	695 00	BCS00010879	Cuttings			censored	censored	censored			
23P	695 00	700 00	BCS00010880	Cuttings			censored	censored	censored			
23P	700 00	705 00	BCS00010881	Cuttings			censored	censored	censored			
23P	705 00	710 00	BCS00010882	Cuttings			censored	censored	censored			
23P	710 00	715 00	BCS00010883	Cuttings			censored	censored	censored			
23P	715 00	720 00	BCS00010884	Cuttings			censored	censored	censored			
23P	720 00	725 00	BCS00010885	Cuttings			censored	censored	censored			
23P	725 00	730 00	BCS00010886	Cuttings			censored	censored	censored			
23P	730 00	735 00	BCS00010887	Cuttings			censored	censored	censored			
23P	735 00	740 00	BCS00010888	Cuttings			censored	censored	censored			
23P	740 00	745 00	BCS00010889	Cuttings			censored	censored	censored			
23P	745 00	750 00	BCS00010890	Cuttings			censored	censored	censored			
23P	750 00	755 00	BCS00010891	Cuttings			censored	censored	censored			
23P	755 00	760 00	BCS00010892	Cuttings			censored	censored	censored			
23P	760 00	765 00	BCS00010893	Cuttings			censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
23P	765 00	770 00	BCS00010894	Cuttings			censored	censored	censored			
23P	770 00	775 00	BCS00010895	Cuttings			censored	censored	censored			
23P	775 00	780 00	BCS00010896	Cuttings			censored	censored	censored			
23P	780 00	785 00	BCS00010897	Cuttings			censored	censored	censored			
23P	785 00	790 00	BCS00010898	Cuttings			censored	censored	censored			
23P	790 00	795 00	BCS00010899	Cuttings			censored	censored	censored			
23P	795 00	800 00	BCS00010900	Cuttings			censored	censored	censored			
23P	800 00	805 00	BCS00010901	Cuttings			censored	censored	censored			
23P	805 00	810 00	BCS00010902	Cuttings			censored	censored	censored			
23P	810 00	815 00	BCS00010903	Cuttings			censored	censored	censored			
23P	815 00	820 00	BCS00010904	Cuttings			censored	censored	censored	censored	censored	censored
23P	820 00	825 00	BCS00010905	Cuttings			censored	censored	censored			
23P	825 00	830 00	BCS00010906	Cuttings			censored	censored	censored			
23P	830 00	835 00	BCS00010907	Cuttings			censored	censored	censored			
23P	835 00	840 00	BCS00010908	Cuttings			censored	censored	censored			
23P	840 00	845 00	BCS00010909	Cuttings			censored	censored	censored	censored	censored	censored
23P	845 00	850 00	BCS00010910	Cuttings			censored	censored	censored			
23P	850 00	855 00	BCS00010911	Cuttings			censored	censored	censored			
23P	855 00	860 00	BCS00010912	Cuttings			censored	censored	censored			
23P	860 00	865 00	BCS00010913	Cuttings			censored	censored	censored			
23P	865 00	870 00	BCS00010914	Cuttings			censored	censored	censored			
23P	870 00	875 00	BCS00010915	Cuttings			censored	censored	censored			
23P	875 00	880 00	BCS00010916	Cuttings			censored	censored	censored			
23P	880 00	885 00	BCS00010917	Cuttings			censored	censored	censored			
23P	885 00	890 00	BCS00010918	Cuttings			censored	censored	censored			
23P	890 00	895 00	BCS00010919	Cuttings			censored	censored	censored			
23P	895 00	900 00	BCS00010920	Cuttings			censored	censored	censored			
23P	900 00	905 00	BCS00010921	Cuttings			censored	censored	censored			
23P	905 00	910 00	BCS00010922	Cuttings			censored	censored	censored			
23P	910 00	915 00	BCS00010923	Cuttings			censored	censored	censored			
23P	915 00	920 00	BCS00010924	Cuttings			censored	censored	censored			
23P	920 00	925 00	BCS00010925	Cuttings			censored	censored	censored			
23P	925 00	930 00	BCS00010926	Cuttings			censored	censored	censored			
23P	930 00	935 00	BCS00010927	Cuttings			censored	censored	censored			
23P	935 00	940 00	BCS00010928	Cuttings			censored	censored	censored			
23P	940 00	945 00	BCS00010929	Cuttings			censored	censored	censored			
23P	945 00	950 00	BCS00010930	Cuttings			censored	censored	censored			
23P	950 00	955 00	BCS00010931	Cuttings			censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
23P	955 00	960 00	BCS00010932	Cuttings			censored	censored	censored			
23P	960 00	965 00	BCS00010933	Cuttings			censored	censored	censored			
23P	965 00	970 00	BCS00010934	Cuttings			censored	censored	censored			
23P	970 00	975 00	BCS00010935	Cuttings			censored	censored	censored			
23P	975 00	980 00	BCS00010936	Cuttings			censored	censored	censored			
23P	980 00	985 00	BCS00010937	Cuttings			censored	censored	censored			
23P	985 00	990 00	BCS00010938	Cuttings			censored	censored	censored			
23P	990 00	995 00	BCS00010939	Cuttings			censored	censored	censored			
23P	995 00	1000 00	BCS00010940	Cuttings			censored	censored	censored			
23P	1000 00	1005 00	BCS00010941	Cuttings			censored	censored	censored			
23P	1005 00	1010 00	BCS00010942	Cuttings			censored	censored	censored			
23P	1010 00	1015 00	BCS00010943	Cuttings			censored	censored	censored			
23P	1015 00	1020 00	BCS00010944	Cuttings			censored	censored	censored			
23P	1020 00	1025 00	BCS00010945	Cuttings			censored	censored	censored			
23P	1025 00	1030 00	BCS00010946	Cuttings			censored	censored	censored	censored	censored	censored
23P	1030 00	1035 00	BCS00010947	Cuttings			censored	censored	censored			
23P	1035 00	1040 00	BCS00010948	Cuttings			censored	censored	censored			
23P	1040 00	1045 00	BCS00010949	Cuttings			censored	censored	censored			
23P	1045 00	1050 00	BCS00010950	Cuttings			censored	censored	censored			
23P	1050 00	1055 00	BCS00010951	Cuttings			censored	censored	censored			
23P	1055 00	1060 00	BCS00010952	Cuttings			censored	censored	censored			
23P	1060 00	1065 00	BCS00010953	Cuttings			censored	censored	censored			
23P	1065 00	1070 00	BCS00010954	Cuttings			censored	censored	censored			
23P	1070 00	1075 00	BCS00010955	Cuttings			censored	censored	censored			
23P	1075 00	1080 00	BCS00010956	Cuttings			censored	censored	censored			
23P	1080 00	1085 00	BCS00010957	Cuttings			censored	censored	censored			
23P	1085 00	1090 00	BCS00010958	Cuttings			censored	censored	censored			
23P	1090 00	1095 00	BCS00010959	Cuttings			censored	censored	censored			
23P	1095 00	1100 00	BCS00010960	Cuttings			censored	censored	censored			
23P	1100 00	1105 00	BCS00010961	Cuttings			censored	censored	censored	censored	censored	censored
23P	1105 00	1110 00	BCS00010962	Cuttings			censored	censored	censored			
23P	1110 00	1115 00	BCS00010963	Cuttings			censored	censored	censored			
23P	1115 00	1120 00	BCS00010964	Cuttings			censored	censored	censored			
23P	1120 00	1125 00	BCS00010965	Cuttings			censored	censored	censored			
23P	1125 00	1130 00	BCS00010966	Cuttings			censored	censored	censored	censored	censored	censored
23P	1130 00	1135 00	BCS00010967	Cuttings			censored	censored	censored			
23P	1135 00	1140 00	BCS00010968	Cuttings			censored	censored	censored			
23P	1140 00	1145 00	BCS00010969	Cuttings			censored	censored	censored			

Bore-hole	Depth From (ft)	Depth To (ft)	Sample Number	Sample Type	Gravimetric Water Content (g/g)	Electrical Conduc-tivity (µmhos/cm)	Wet Sieve Gravel (%)	Wet Sieve Sand (%)	Wet Sieve Fines (%)	Hydrometer Silt (%)	Hydrometer Clay (%)	Hydrometer Total Sand (%)
23P	1145 00	1150 00	BCS00010970	Cuttings			censored	censored	censored			
23P	1150 00	1155 00	BCS00010971	Cuttings			censored	censored	censored			
23P	1155 00	1160 00	BCS00010972	Cuttings			censored	censored	censored			
23P	1160 00	1165 00	BCS00010973	Cuttings			censored	censored	censored			
23P	1165 00	1170 00	BCS00010974	Cuttings			censored	censored	censored			
23P	1170 00	1175 00	BCS00010975	Cuttings			censored	censored	censored			
23P	1175 00	1180 00	BCS00010976	Cuttings			censored	censored	censored			
23P	1180 00	1185 00	BCS00010977	Cuttings			censored	censored	censored			
23P	1185 00	1190 00	BCS00010978	Cuttings			censored	censored	censored			
23P	1190 00	1195 00	BCS00010979	Cuttings			censored	censored	censored			
23P	1195 00	1200 00	BCS00010980	Cuttings			censored	censored	censored			

NOTE: Specific reasons for censoring different data types are listed in the footnotes to Table 4.0-1.

APPENDIX G
SELECTED GEOPHYSICAL LOGGING RESULTS

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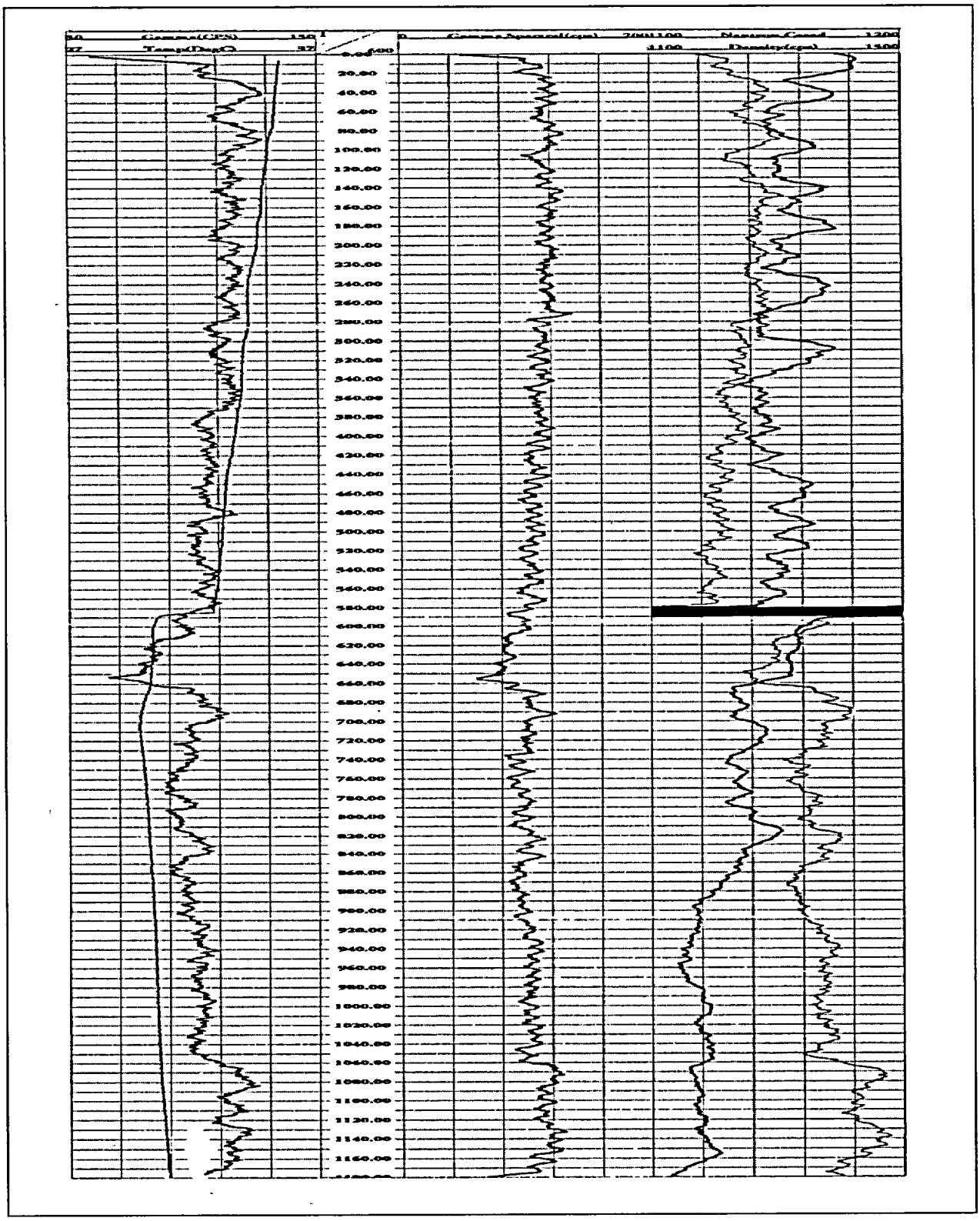

Figure G1
Drill-String Geophysical Logs for Well NC-EWDP-10SA

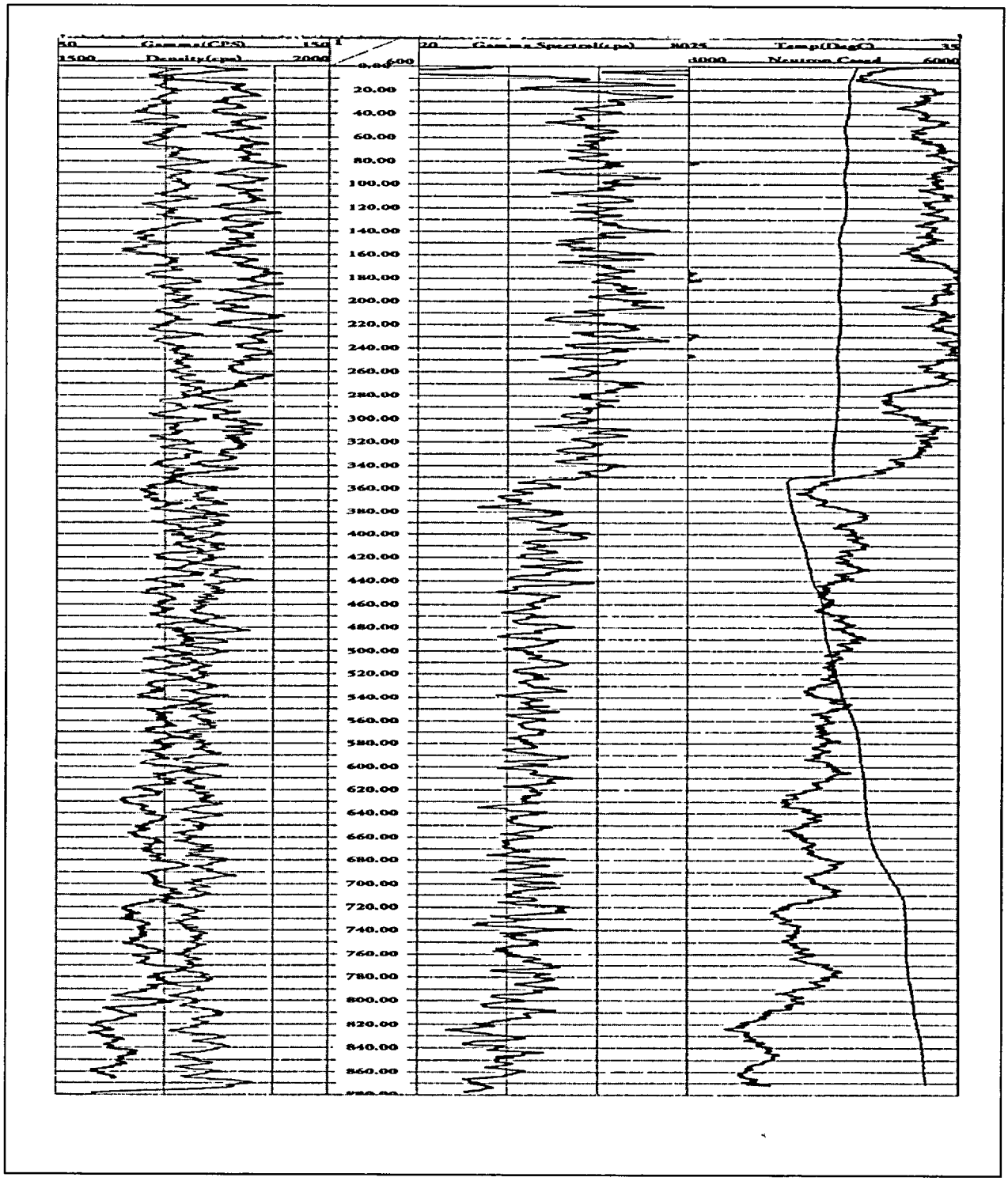

Figure G2
Drill-String Geophysical Logs for Well NC-EWDP-19IM1A

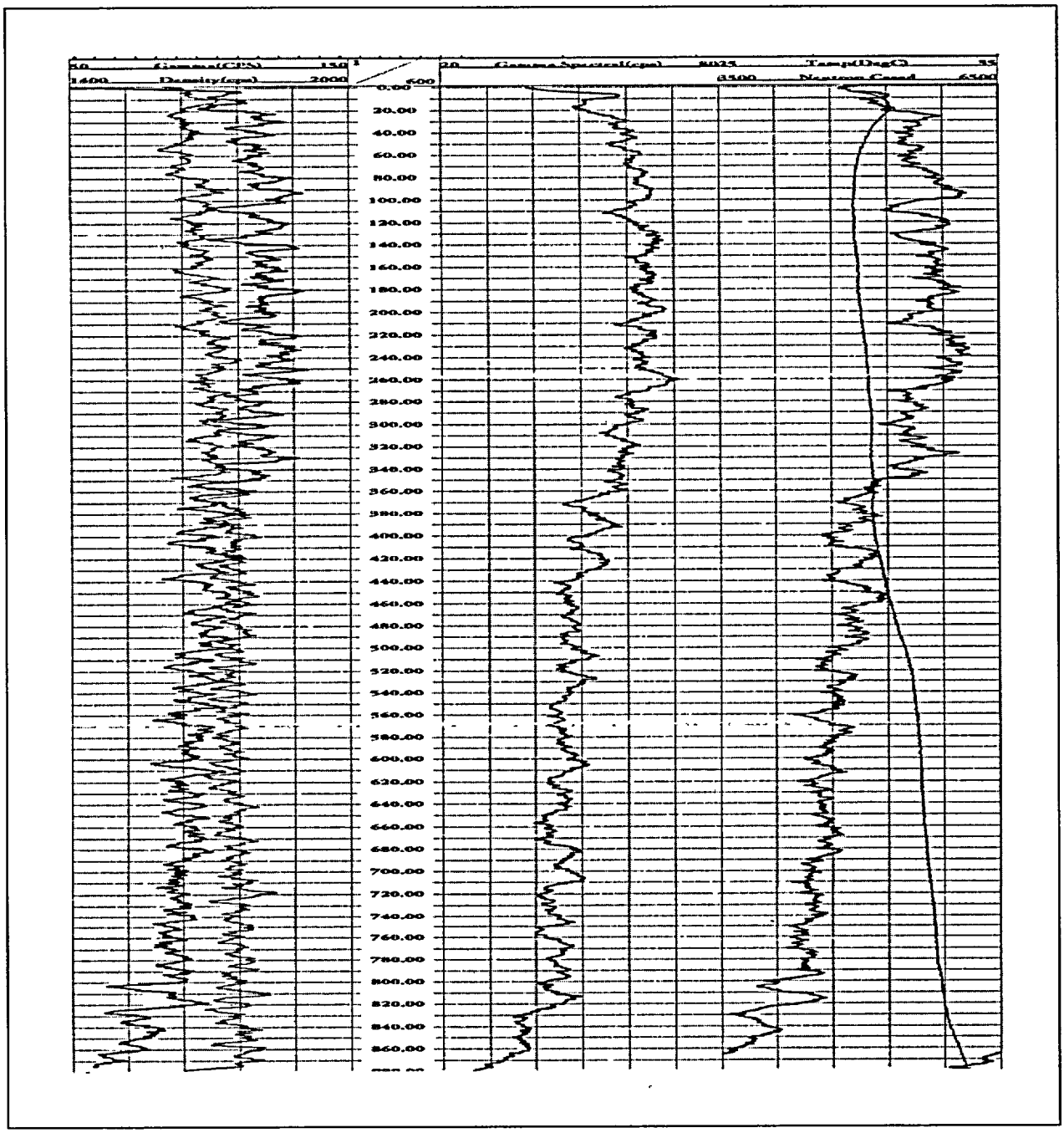

Figure G3
Drill-String Geophysical Logs for Well NC-EWDP-19IM2A

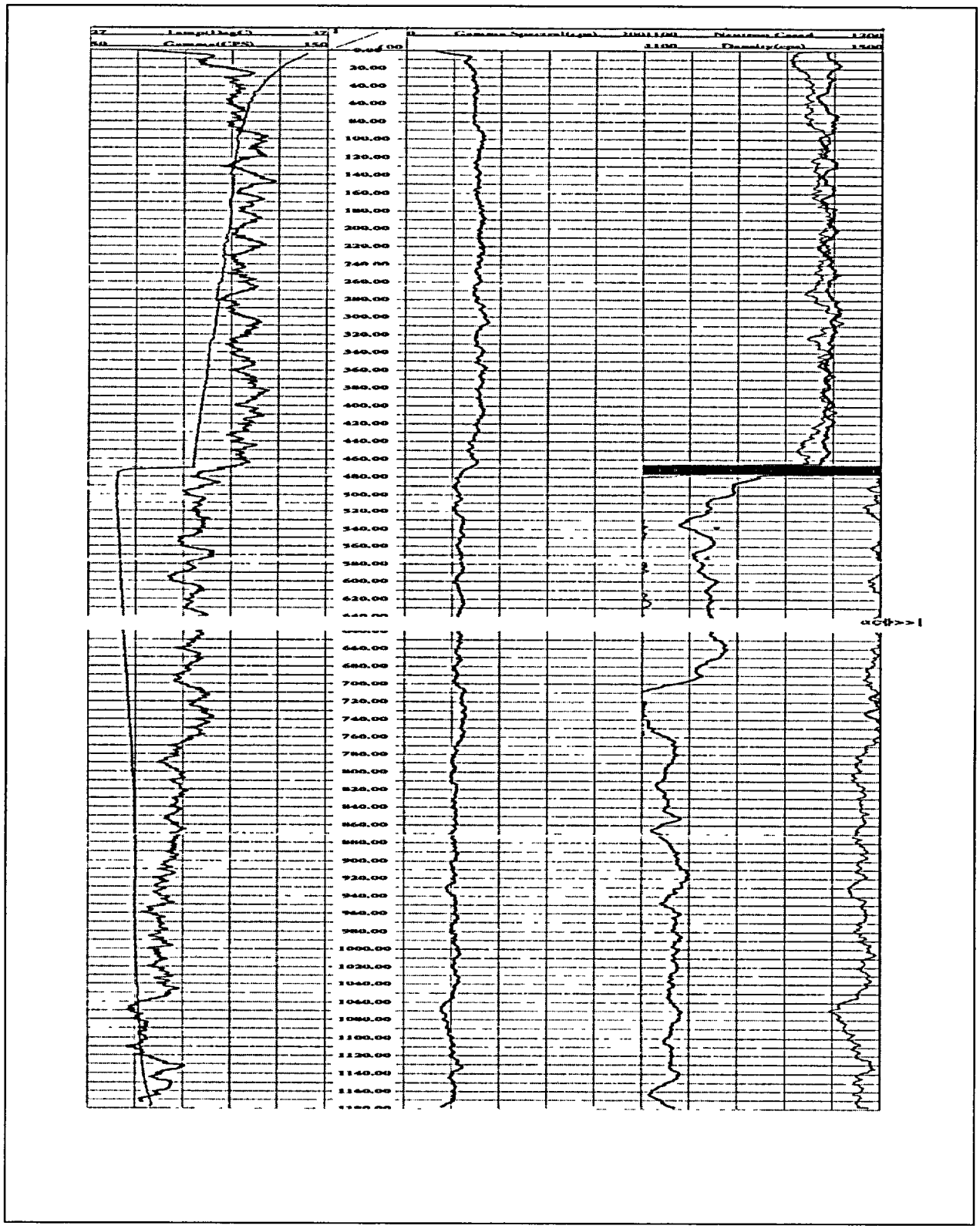

Figure G4
Drill-String Geophysical Logs for Well NC-EWDP-22SA

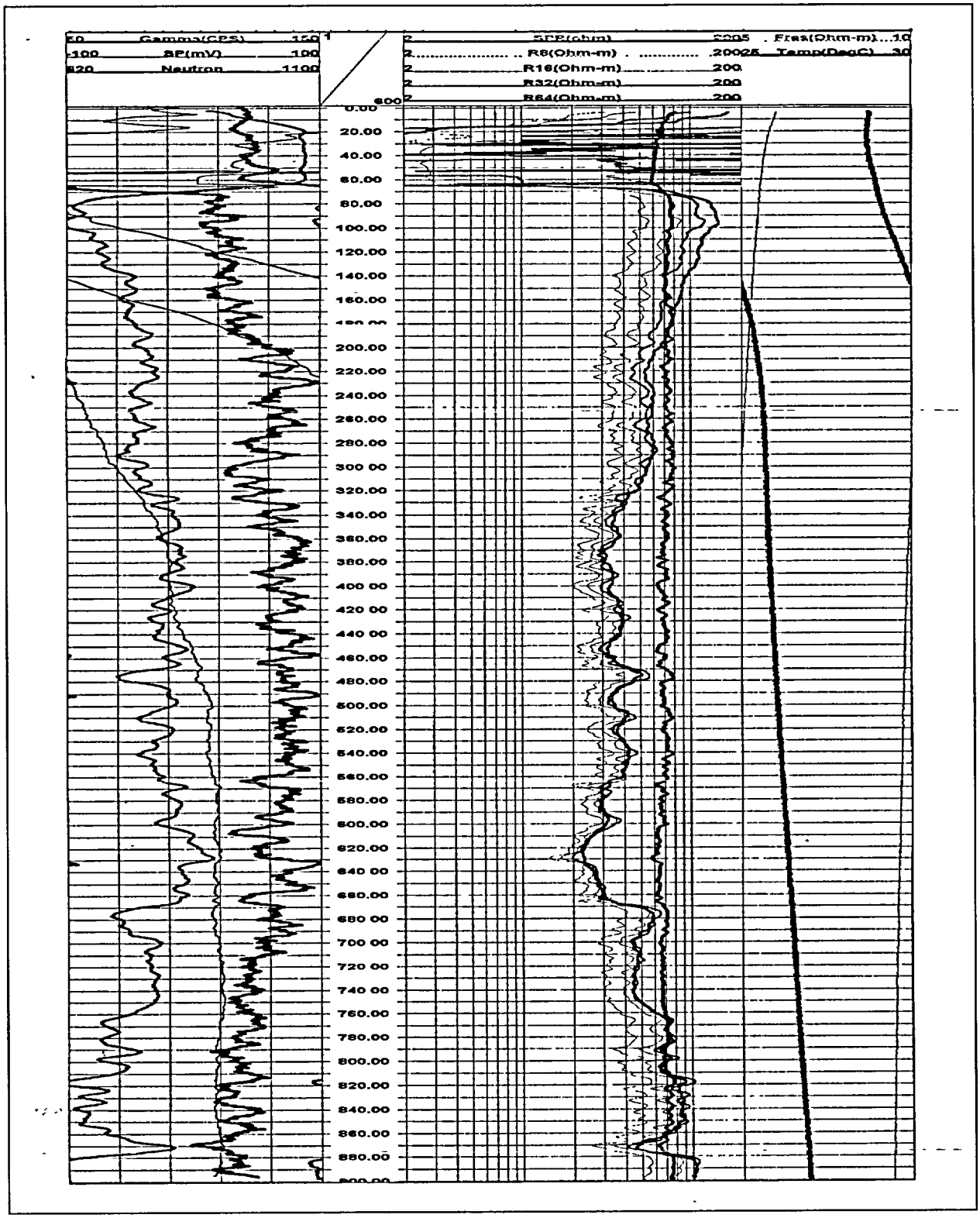

Figure G5
Open-Hole Geophysical Logs for Well NC-EWDP-10S

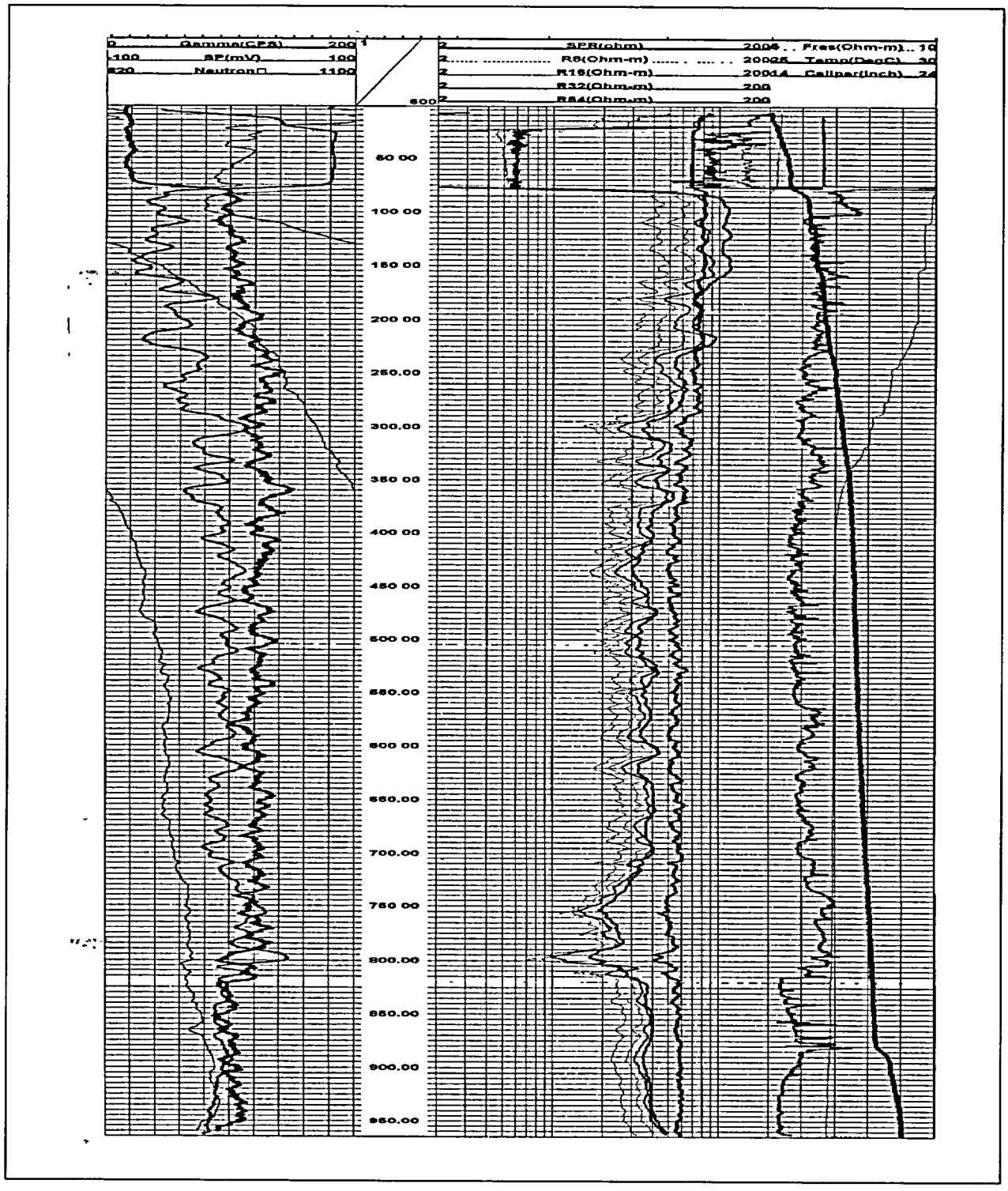

Figure G6
Open-Hole Geophysical Logs for Well NC-EWDP-19IM2

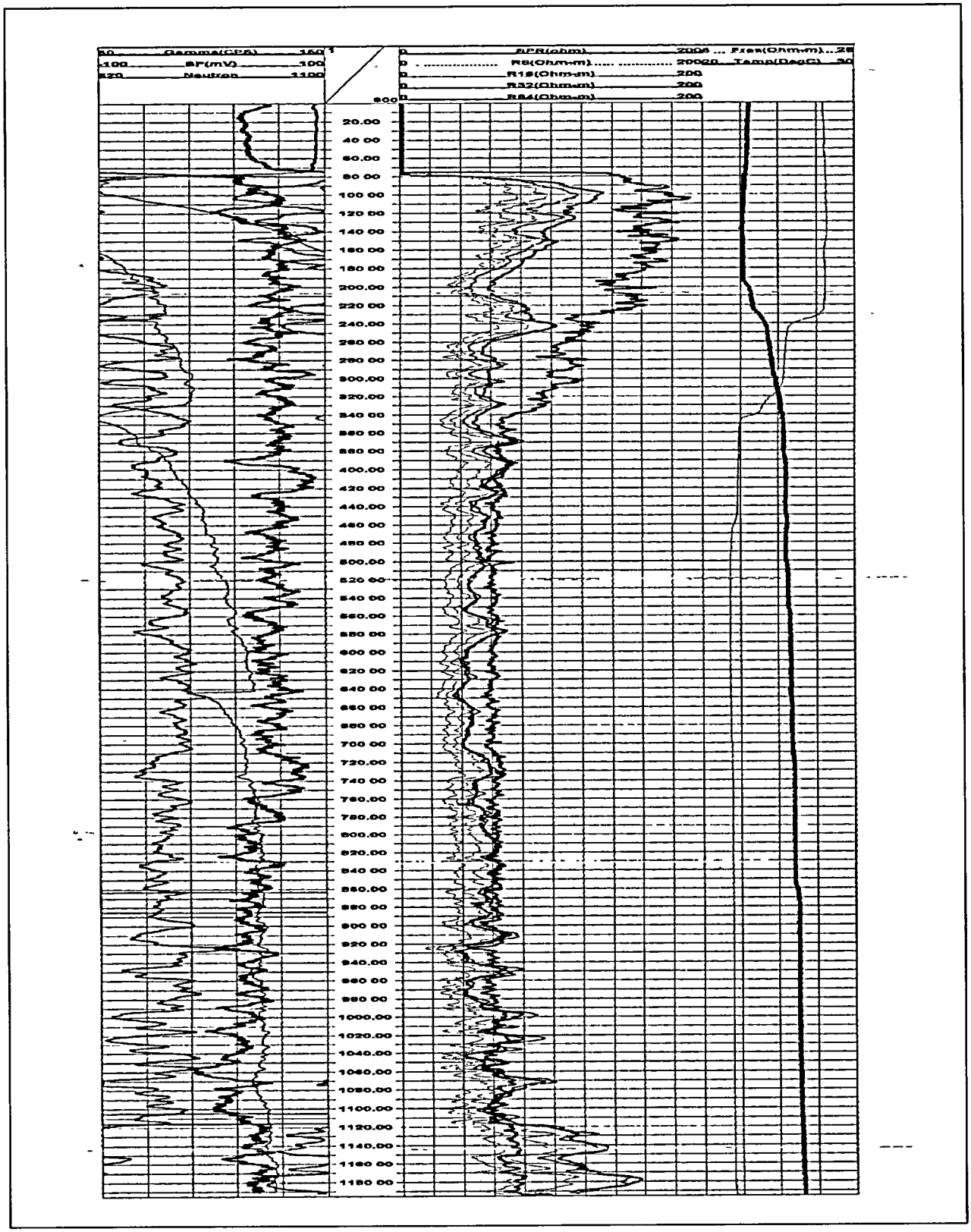

Figure G7
Open-Hole Geophysical Logs for Well NC-EWDP-22S

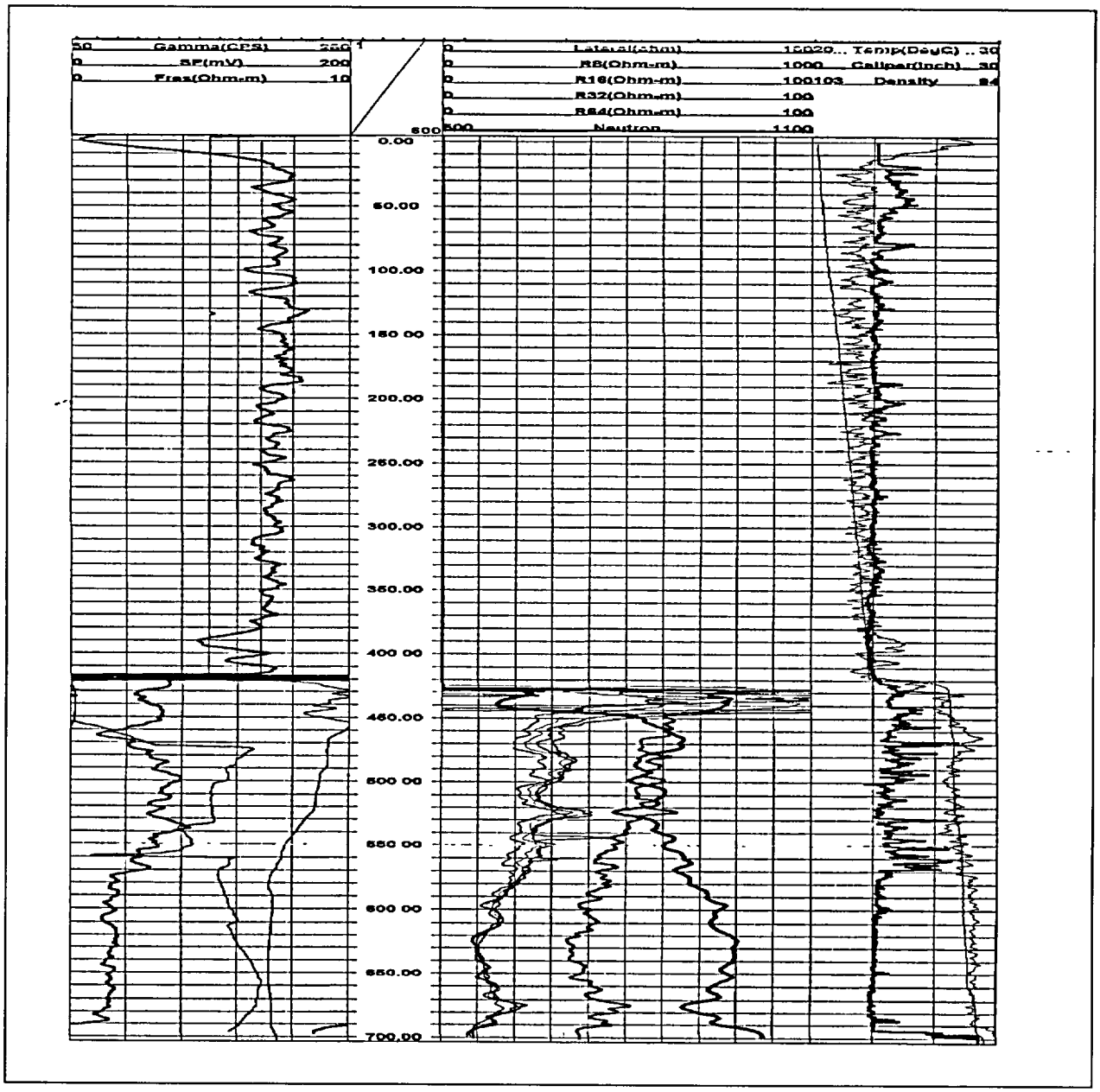

Figure G8
Open-Hole Geophysical Logs for Well NC-EWDP-23P

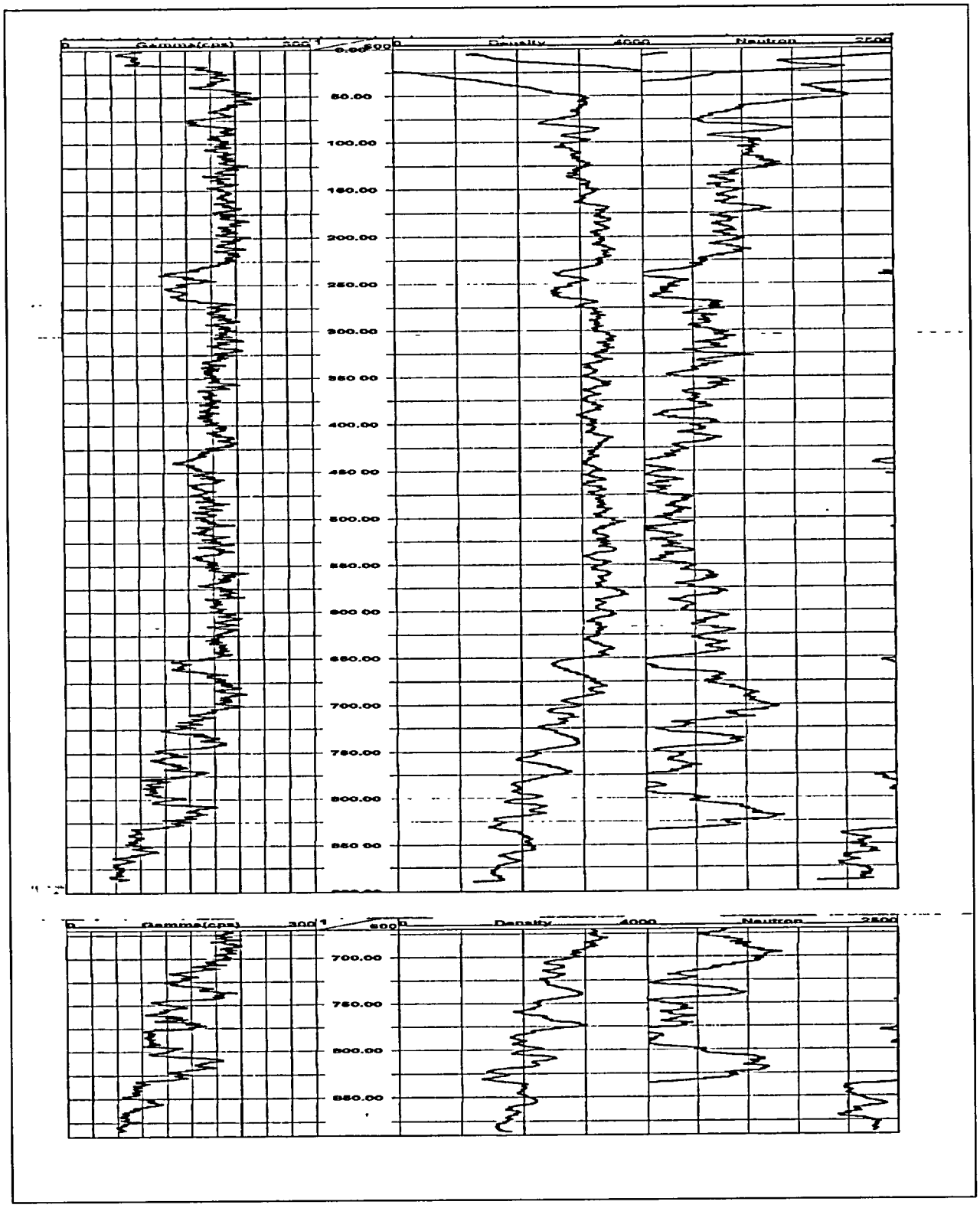

Figure G9
Well-Completion Geophysical Logs for Well NC-EWDP-18P

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APPENDIX H
SUMMARY LITHOLOGIC LOGS

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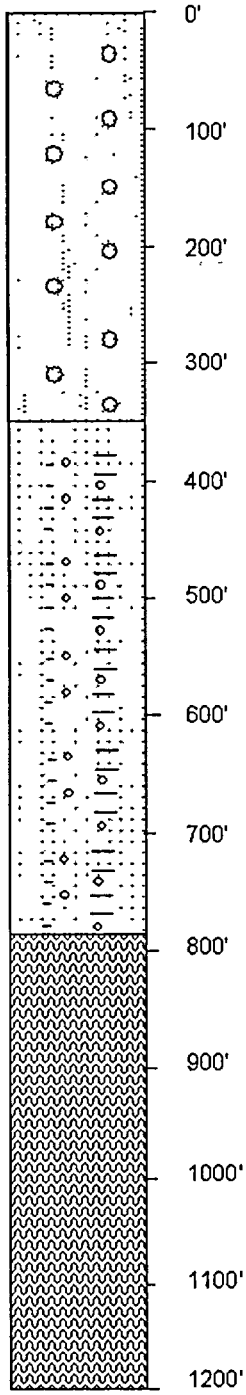


0 to 350 ft WELL-GRADED SAND with silt and gravel (SW-SM)

SW-SM layers generally less than 50 ft thick predominate Silty sand with gravel layers (SM) up to 20 ft thick are present throughout the interval Several thin layers less than 15 ft thick of well-graded gravel with silt and sand (GW-GM) are present between 100 and 300 ft Fines in SM layers are predominantly non-plastic with some occurrences of low plasticity in the interval 310 to 345 ft Gravel clasts are volcanic in origin and subangular to subrounded Sediment color ranges from moderate yellowish brown (10YR 5/4) to moderate brown (5YR 5/4) and (5YR 4/4) Clasts exhibited weak cementation from 15 to 22.5 ft A weak reaction to 10% HCl is displayed in sediments from 15 to 22 5 ft; otherwise, the sediments show no reaction All samples were dry

350 to 790 ft SILTY SAND with gravel (SM)*

A thick sequence of SM with gravel is present to 790 ft Several gravelly layers with silt (GM) are present from 460 to 655 ft Unit also contains several layers of well-graded sand with silt and gravel (SW-SM) and silty gravel (GM) less than 5 ft thick from 598 to 665 ft A 5 ft layer of sandy lean clay (CL) is present from 745 to 750 ft The plasticity of fines in SM and GM layers range from non-plastic to moderately plastic Gravel clasts are volcanic in origin and subrounded Sediment color ranges from moderate yellowish brown (10YR 5/4) to dark yellowish orange (10YR 6/6) to moderate brown (5YR 5/4) to light brown (5YR 5/6) The interval exhibited no cementation and no reaction to 10% HCl was observed All samples were moist below 570 ft and wet below 665 ft.

*USCS texture classification between 665 and 790 ft is based on drill cutting particle size distribution measurements from this borehole between 350 and 665 ft, and similar measurements on core samples from 4 core runs between 348 and 745 ft in NC-EWDP-10P.

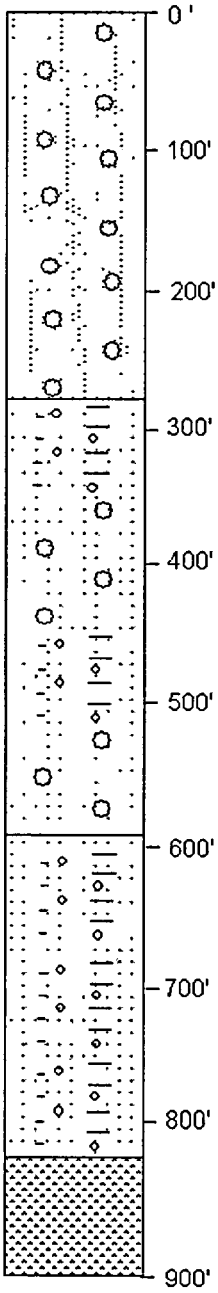
790 to 1200 ft (T.D.) VOLCANIC CONGLOMERATE

Clasts range in color from grayish brown (5YR 5/1) to dark yellowish brown (10YR 4/2) Clasts are well sorted, rounded to subrounded, and composed of welded ashflow tuff lithologies The matrix color is medium gray (N5) to light brown (5YR 6/4) and pale yellowish brown (10YR 6/2) and consists of clayey fine sand Clasts are well sorted and well rounded No reaction to HCl was observed

Nye County, Nevada Nuclear Waste Repository Project Office			
Early Warning Drilling Program Summary Lithology Log NC-EWDP-10SA			
Date	12/18/02	Geologist.	JSW
Scale	Not to scale	Drawn by	RFD

NOTE: T.D. = total depth

Figure H1
Summary Lithologic Log for Well NC-EWDP-10SA



0 to 280 ft WELL-GRADED SAND with silt and gravel (SW-SM)

SW-SM layers up to 60 ft thick predominate. Numerous thin (10 or more) well-graded sand with gravel layers (SW) up to 15 ft thick are present in the upper 225 ft. Less numerous well-graded gravels with silt layers (GW-GM) predominantly less than 5 ft thick are present in the upper 250 ft. Several widely spaced layers of silty sand with gravels (SM) less than 5 ft thick are present below 200 ft. Fines in the SM layers are non-plastic. Samples exhibited weak cementation from 0 to 70 ft and 102 5 to 112.5 ft Gravel clasts are volcanic in origin and are subangular to subrounded Sediment color ranges from moderate yellowish brown (10YR 5/4) to dark yellowish brown (10YR 4/2) A strong reaction to 10% HCl is displayed in sediments from 0 to 50 ft; moderate reaction from 50 to 70 ft and 102 5 to 112 5 ft, and no reaction in the remaining sediments All samples were dry.

280 to 595 ft ALTERNATING WELL-GRADED SAND with silt and gravel (SW-SM) and SILTY SAND with gravel (SM)*

Overall proportion of SW-SM and SM layers are approximately equal with SM layers becoming more frequent with depth. A thin well-graded gravel layer (GW) is present from 560 to 565 ft Fines in SM layers are predominantly non-plastic with minor occurrence of low plasticity Gravel clasts are predominantly volcanic in origin and range from subangular to subrounded. Sediment color ranges from moderate yellowish brown (10YR 4/4) to dark yellowish brown (10YR 4/2). No cementation was observed except a weakly cemented zone from 362 to 390 ft No reaction to 10% HCl was observed Samples were dry to 362 ft, moist and wet from 362 to 396 ft, and wet thereafter

595 to 825 ft SILTY SAND with gravel (SM)**

SM layers up to 150 ft thick predominate Several widely spaced, 5 ft thick well-graded sands with silt (SW-SM) are also present The plasticity of fines in SM layers ranges from non-plastic to low plasticity. Gravel clasts are predominantly volcanic in origin and subrounded. Sediment color ranges from moderate yellowish brown (10YR 4/4) to dark yellowish brown (10YR 4/2) and no cementation or reaction to 10% HCl was observed All samples were wet.

825 to 900 ft ASHFLOW TUFF

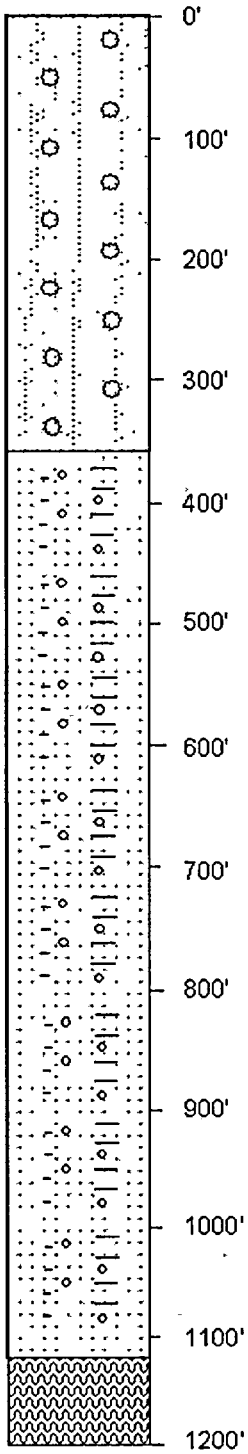
Homogeneous, dusky yellow colored (5Y 6/4), weakly welded, aphyric, unweathered tuff with an open/porous sugary texture Trace amounts of colorless quartz crystals and trace amounts of pumice are present

*Below approximately 420 ft percent fines measured in drill cuttings become markedly higher and percent gravel becomes markedly lower. It is probable that these changes are due to drilling impacts that were also observed in NC-EWDP-10SA and in -22SA Therefore, some of the SM layers identified in this log interval based on drilling cutting samples may in fact be SW-SM under in situ conditions This also is likely the case in the underlying depth interval from 595 to 825 ft

**The presence of greater than 15 percent gravel throughout this interval is assumed based on the likelihood that drilling impacts that decrease gravel percentages in drill cuttings compared to in situ conditions in NC-EWDP-10SA and in -22SA are also operative in -19IM2A

Nye County, Nevada Nuclear Waste Repository Project Office	
Early Warning Drilling Program Summary Lithology Log NC-EWDP-19IM2A	
Date: 12/20/02	Geologist: JSW
Scale Not to scale	Drawn by: RFD

Figure H2
Summary Lithologic Log for Well NC-EWDP-19IM2A



0 to 360 ft WELL-GRADED SAND with silt and gravel (SW-SM)

Thinly bedded SW-SM layers 5 to 25 ft predominate Several thin lenses of well-graded gravel with silt and sand (GW-GM) less than 5 ft thick are also present in the interval. Gravel clasts are volcanic in origin and subangular to subrounded with rare rounded clasts. Sediment color is predominantly light to moderate brown (5YR 5/4) Moderate cementation is present from 0 to 22 5 ft and locally weak cementation is present 22 5 to 105 ft. Sediments displayed strong reaction to 10% HCl from 0 to 22.5 ft and locally weak to strong reaction to 105 ft All samples were dry.

360 to 1110 ft SILTY SAND with gravel (SM)*

SM layers with gravel generally less than 80 ft thick predominate Several layers of well-graded sand with silt and gravel (SW-SM) layers less than 10 ft thick are also present above 705 ft Plasticity of fines in SM layers ranges from non-plastic to moderately plastic. Gravel clasts are volcanic in origin and subrounded to subangular Sediment color ranges from moderate yellowish brown (10YR 5/4) to light brown (5YR 5/6) to moderate brown (5YR 5/4) Weak cementation is present from 690 to 750 ft, and moderate to strong cementation is present from 750 to 1110 ft. A weak reaction to 10% HCl was observed from 755 to 880 ft and a strong reaction from 880 to 1110 ft Samples were dry to 452 ft, moist from 452 to 485 ft, and wet from 485 to 705 ft, moist from 705 to 790 ft, and wet from 790 to 1110 ft.

*USCS texture classification between 705 and 1110 ft is based on drill cuttings particle size distribution measurements from this borehole between 360 and 705 ft and on similar measurements on core samples from 7 core runs between 391 and 743 ft in NC-EWDP-22P A

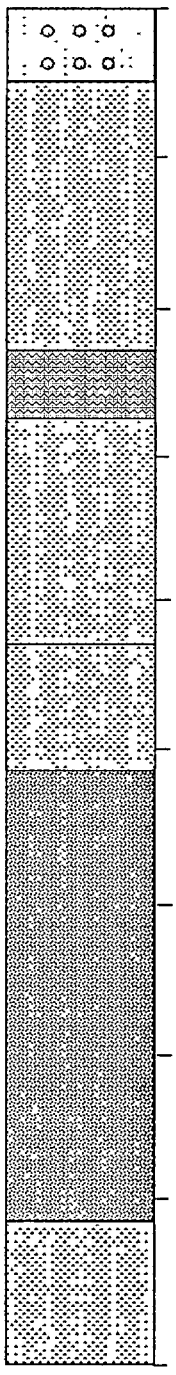
1110 to 1200 ft (T.D.) VOLCANIC CONGLOMERATE

Clasts range in color from moderate brown (5YR 4/4) to moderate yellowish brown (10YR 3/4) to dark yellowish brown (10YR 4/2) Clasts are well sorted, rounded to subrounded, and composed of welded ashflow tuff lithologies. The matrix is dark yellowish orange (10YR 6/6) clayey fine sand HCl reaction is weak to moderately strong thoughout the interval

Nye County, Nevada Nuclear Waste Repository Project Office	
Early Warning Drilling Program Summary Lithology Log NC-EWDP-22SA	
Date 12/18/02	Geologist JSW
Scale: Not to scale	Drawn by RFD

NOTE: T.D. = total depth

Figure H3
Summary Lithologic Log for Well NC-EWDP-22SA



0 to 45 ft ALTERNATING WELL-GRADED SAND with silt and gravel (SW-SM) and WELL-GRADED GRAVEL with silt and sand (GW-GM)

Alternating layers SW-SM up to 10 ft of SW-SM thick and layers of GW-GM up to 5 ft thick predominate. Sediment color ranges from very pale orange (10YR 8/2) to grayish orange (10YR 7/4). Gravel clasts are moderate brown (5YR 4/4) to pale brown (5YR 5/2), derived from underlying welded ashflow tuff (possibly Topopah Spring Tuff) and are typical of colluvium. Weak cementation and strong reaction to 10% HCl was observed thoughout the unit. All samples were dry.

45 to 230 ft ASHFLOW TUFF

Pale brown (5YR 5/2) to moderate brown (5YR 4/4), moderate to densely welded, devitrified, 5 to 10% pumice, pinkish gray (5YR 8/1); 2% lithic fragments, olive gray (5Y 4/1); 1 to 5% quartz phenocrysts, 1 to 3% mafic phenocrysts, rare feldspar phenocrysts. Contains zones of lithophysal mineralization. Vitrophyre occurs from 215 to 230 ft. Sharp contact with underlying non-welded tuff. Possibly Topopah Spring Tuff

230 to 275 ft ASHFALL TUFF

Grayish orange pink (5YR 7/2) to light brown (5YR 6/4) and moderate brown (5YR 3/4), non-welded, devitrified; 10 to 15% pumice, very light gray (N8) to medium dark gray (N4); 5 to 10% lithic fragments, medium dark gray (N4 to grayish black N2), 5% quartz phenocrysts and rare mafics are present Displays bedded tuff characteristics from 235 to 255 ft Sharp contact with underlying welded tuff. Possibly Calico Hills Formation.

275 to 425 ft ASHFLOW TUFF

Pale brown (5YR 5/2) to moderate brown (5YR 5/4), moderately welded, vitric alteration; 5% pumice, medium gray (N3), 5% lithics, grayish orange (10YR 7/4); 10 to 15% quartz phenocrysts, 2% mafics, rare feldspar. Local occurrence of chalcedony and carbonate coatings of fracture surfaces. Possibly Prow Pass Tuff.

425 to 515 ft ASHFLOW TUFF

Light brown (5YR 5/6) to moderate brown (5YR 4/6) and pale red (10R 6/2), partially welded, vitric alteration, 2% pumice, white (N9); lithic poor; 5% quartz phenocrysts, rare feldspars and mafics. Local occurrences of chalcedony. Possibly Bullfrog Tuff.

515 to 810 ft VOLCANIC SANDSTONE with weakly welded tuff horizons

Moderate orange pink (5YR 8/4) to grayish orange pink (5YR 7/2) sandstone with medium light gray (N6) tuff horizons (5 to 15 ft thick). Unit is soft and samples were ground by the drill bit Sandstone grains are well rounded and oxidized. Sharp contact with underlying welded tuff. Possibly pre-Bullfrog Tuff and sedimentary unit.

810 to 890 ft (T.D.) ASHFLOW TUFF*

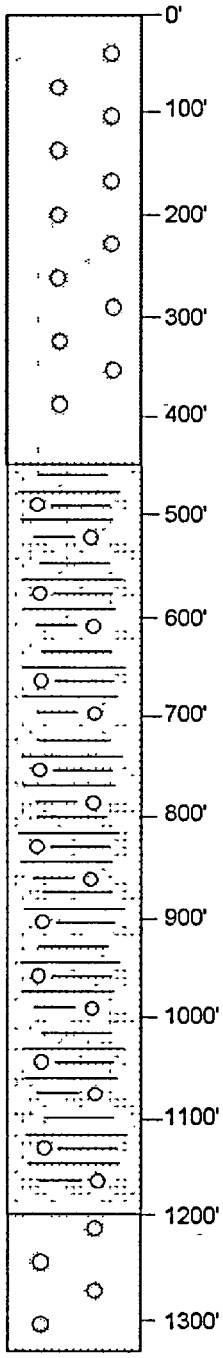
Grayish orange (10YR 7/4) to moderate yellowish brown (10YR 5/4), partially welded, vitric alteration; 1 to 5% pumice, pale yellowish orange (10YR 8/6), moderate red (5R 4/6), very light gray (N8); 1 to 5% lithics, dusky red (5R 3/4), and pale yellowish orange (10YR 8/6), 1 to 4% quartz phenocrysts, absence of feldspars and mafics. Unit contains sandstone and siltstone horizons. Stongly oxidized with orange to red hematitic staining on tuffaceous clasts. Possibly Tram Tuff.

* Sample particle size is very small and difficult to describe due to drill bit grinding of the rock

Nye County, Nevada Nuclear Waste Repository Project Office	
Early Warning Drilling Program Summary Lithology Log NC-EWDP-18P	
Date: 5/23/02	Geologist: JSW
Scale: Not to Scale	Drawn by: RFD

NOTE: T D. = total depth

Figure H4
Summary Lithologic Log for Well NC-EWDP-18P



0 to 450 ft WELL-GRADED SAND with silt and gravel (SW-SM)

Thinly bedded SW-SM layers 5 to 25 ft thick predominate Several thin lenses of well-graded gravel with silt and sand (GW-GM) ranging from 2.5 to 12.5 ft thick are present in the interval Fines are non-plastic throughout most of the interval but display low to high plasticity at the base of the unit (435 to 450 ft) Gravel clasts are volcanic in origin and subrounded to angular. Sediment color ranges predominantly from light to moderate brown (5YR 5/4, 4/4 and 3/4) Weak cementation is present from surface to 32 5 ft, and from 290 to 450 ft Sediments displayed a weak to strong reaction to 10% HCl from 0 to 45 ft and 290 to 450 ft Samples were dry throughout the interval

450 to 1200 ft CLAYEY SAND with gravel (SC)*

A very thick relatively uniform unit of SC predominates. The plasticity of fines in these layers are moderate to high Layers containing higher contents of fat clay (CH) are present from 700 to 710 ft and from 920 to 965 ft. The fines in these layers exhibit a high plasticity, high dry strength, high toughness, and no dilatency In addition, layers containing higher contents of lean clay (CL) 5 to 25 ft thick are present from 600 to 605 ft and from 965 to 1200 ft Gravel clasts are predominantly volcanic in origin and subrounded in shape. Black glassy gravel clasts are present from 620 to 625 ft, chert and siltstone chert fragments from 630 to 635 ft, laminated siltstone clasts from 670 to 675 ft, porphyritic clasts from 840 to 845 ft, and laminated siltstone clasts from 935 to 940 ft. Sediment color is variable, but primarily ranges from light to moderate brown (5YR 6/4 to 5/4) to grayish orange pink (5YR 7/2) to pale yellowish brown (10YR 6/2). All samples are weakly cemented and react strongly with 10% HCl. All samples were wet below 500 ft

1200 to 1340 ft (T.D.) WELL-GRADED SAND with silt (SW-SM)**

SW-SM layer 90 ft thick predominates interval A bed of rounded basaltic gravel, possibly cobbles and boulders, is present from 1320 to 1325 ft Fines in the SM layers are non-plastic Gravel clasts are volcanic in origin and subrounded in shape Basaltic gravel clasts contain numerous white feldspar crystals in a dark gray crystalline and vesicular groundmass Sediment color is variable and ranges from dusky brown (5YR 3/4) to grayish brown (5YR 4/2) Cementation is moderate and drill cuttings contain fragments of cemented sand grains A weak to strong reaction to 10% HCl was observed. All samples were wet

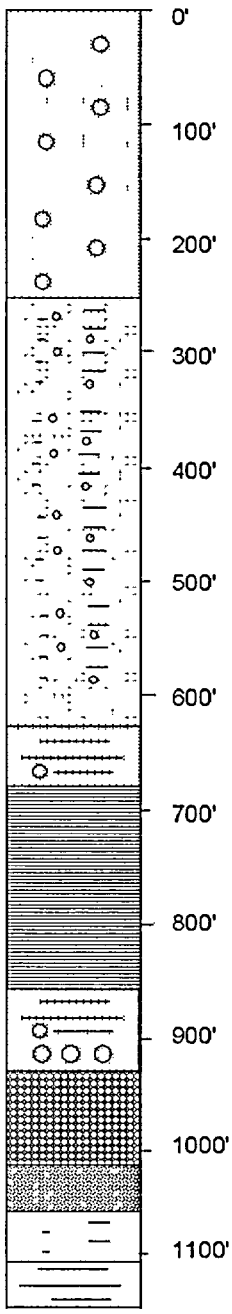
*The presence of greater than 15 percent gravel throughout this interval is assumed based on similarity of particle size distributions in this borehole and NC-EWDP-22SA, and the likelihood that the same drilling impacts on particle size distributions observed in -22SA are also operative in -23P These same drilling impacts may cause the amount of silt and clay measured in NC-EWDP-23P drill cuttings to be significantly higher than actual in situ silt and clay contents (i e CL and CH layers identified in this log may actually be SC layers)

**Samples from this interval were washed of fines content and the actual USCS classification is less certain than in above intervals.

Nye County, Nevada Nuclear Waste Repository Project Office	
Early Warning Drilling Program Summary Lithology Log NC-EWDP-23P	
Date 2/12/03	Geologist BW/JW
Scale: Not to scale	Drawn by RFD

NOTE: T.D. = total depth

Figure H5
Summary Lithologic Log for Well NC-EWDP-23P



0 to 260 ft WELL-GRADED SAND with silt and gravel (SW-SM)
A thick SW-SM sequence predominates with varying amounts of sand, silt and gravel. Layers of well-graded sand (SW) are present from 20 to 40 ft and from 160 to 180 ft, with a marked absence of gravel in the former and presence of coarse sand and gravel in the latter. Thin clayey layers (SC and CL) are present from 200 to 203 ft and from 245 to 248 ft. The plasticity of fines is moderate. Gravels are volcanic in origin and subrounded to subangular. Sediment color ranges from very pale orange to pale yellowish brown (10YR 8/2-6/2) and pale brown to moderate brown (5YR 5/2-4/4). Weak cementation is present from 135 to 140 ft and from 160 to 165 ft. No reaction to 10% HCl was observed. All samples were dry.

260 to 615 ft WELL-GRADED GRAVEL with silt and sand(GW-GM)
The interval consists primarily of a thick GW-GM sequence with varying amounts of sand and gravel Silt increases with depth. A thin layer of sandy clay (CL) is present from 531 to 535 ft A clayey gravel (GC) is present at base of unit from 601 to 615 ft Plasticity of fines is moderate to high Gravels are volcanic in origin and subrounded to subangular Sediment color ranges from grayish orange to dark yellowish brown (10YR 7/4-4/2) to grayish red (10R 4/2). No cementation and no reaction to 10% HCl was observed. Samples were wet from 350 ft

615 to 670 ft WELL-GRADED SAND with clay and gravel (SW-SC)
SW-SC layers up to 20 ft thick predominate. Three thin layers of clean poorly-graded sand (SP) from 3 to 5 ft thick are present in the unit that displays a marked absence of gravels Plasticity of fines is moderate to high Gravels are volcanic in origin and subrounded. Sediment color is primarily pale yellowish brown (10YR 6/2) with some sections of grayish red (10R 4/2) No cementation and no reaction to 10% HCl was observed All samples were wet.

670 to 860 ft LEAN CLAY (CL)
A thick massive CL unit is present with a 10 ft silty layer (SM) at top and a 20 ft layer of lean clay with sand and gravel at the base The upper 30 ft of unit from 670 to 700 ft contains fragments of well indurated, yellowish brown (10YR 5/4) siltstone The minor sand that is present in the unit is fine grained and poorly graded Fines have high plasticity. The minor gravels that are present are volcanic in origin and subrounded to subangular in shape. Sediment color ranges from pale yellowish brown (10YR 6/2) to yellowish gray (5Y 7/2) to light brown (5YR 6/4). No cementation was observed Sediments reacted strongly to 10% HCl All samples were wet

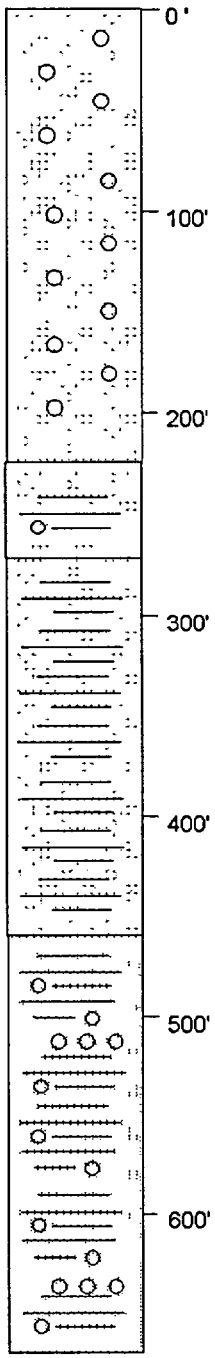
860 to 925 ft CLAYEY GRAVEL with sand (GC)
A thick GC unit predominates Gravel content increases downward and coarsens downward from 860 to 910 ft. From 910 to 925 ft there is a marked decrease in gravel content and increased clay content. Plasticity of clay is low from 860 to 910 ft, and moderate to high from 910 to 925 ft. Gravels are volcanic in origin and subrounded to subangular in shape. Sediment color ranges from pale red (10R 6/2) to moderate red (5R 5/4) to light gray (N6). No cementation was observed and sediments displayed a weak to moderate reaction to 10% HCl. All samples were wet.

925 to 1010 ft OLDER ALLUVIUM/COLLUVIUM, or VOLCANIC CONGLOMERATE
This is a coarse monolithic unit, possibly with cobble and boulder size clasts Clast content increases from 50 to 90% from top to bottom of unit Clay content increases from approximately 5 to 40 % from 925 to 1000 ft, and decreases back to approximately 5% from 1000 to 1010 ft Clasts are volcanic in origin and subrounded to subangular from 925 to 1000 ft, and become rounded in basal layer from 1000 to 1010 ft Color ranges from grayish red (10R 4/2) to moderate orange pink (10R 7/4) Induration is weak from 925 to 1000 ft and strong from 1000 to 1010 ft Reaction to 10% HCl varies from moderate to strong All samples were wet.

1010 to 1155 ft INTERBEDDED SANDSTONE/SILTSTONE/CLAYSTONE
Unit is composed of thinly bedded (5 to 10 ft thick) sandstone, siltstone and claystone. Interbedding is interrupted by 2 sandstone layers. a dark reddish brown (10R 3/4) deeply weathered conglomeratic sandstone from 1075 to 1080 ft, and a massive reddish brown (10R 4/6) sandstone containing dendritic manganese oxide from 1135 to 1155 ft Siltstone is finely laminated (2 to 5 mm). Colors alternate from moderate orange pink (10R 7/4) to grayish orange pink (10R 8/2) to pale greenish yellow (10Y 7/2). Sedimentary units are moderately to well indurated A moderate to strong reaction to 10% HCl was observed from 1080 to 1155 ft. All samples were wet.

Nye County, Nevada Nuclear Waste Repository Project Office	
Early Warning Drilling Program Summary Lithology Log NC-EWDP-2DB	
Date: 2/5/03	Geologist JSW
Scale: Not to scale	Drawn by RFD

Figure H6
Summary Lithologic Log for Well NC-EWDP-2DB



0 to 220 ft WELL-GRADED SAND with silt and gravel (SW-SM)

SW-SM layers up to 70 ft thick predominate Several layers up to 10 ft thick of well-graded sand with gravel (SW) and a 5 ft thick layer of poorly-graded sand with gravel (SP) are present A thin well-graded gravel layer with sand (GW) is present from 200 to 210 ft Gravels are volcanic in origin and rounded to subrounded. Sediment color ranges from grayish orange (10YR 7/4) to dark yellowish orange (10YR 6/6) to grayish orange pink (5YR 7/2) Weak cementation is present from 70 to 80 ft and sediments display a weak to strong reaction to 10% HCl Samples were dry.

220 to 265 ft Interbedded WELL-GRADED GRAVEL with sand (GW) and CLAYEY GRAVEL with sand (GC)

Thick unit of GW with sand predominating from 220 to 240 ft grading into GC with sand from 240 to 265 ft Gravels are volcanic in origin and subrounded Sediment color is predominantly moderate yellowish brown (10YR 5/4) No cementation was observed and sediments displayed no reaction to 10% HCl Samples were dry

265 to 460 ft CLAYEY SAND (SC)

A thick SC sequence predominates with alternating increasing and decreasing gravel content Thin laminations of dark reddish brown clay are present from 290 to 305 ft, and a clayey gravel layer (GC) is present from 310 to 320 ft Plasticity of fines ranges from moderate to high Gravels are volcanic in origin and subrounded to subangular in shape Sediment color ranges from very pale orange to moderate yellowish brown (10YR 8/2 to 5/4) to light brown (5YR 6/4) No cementation was observed and sediments displayed no reaction to 10% HCl Samples were dry

460 to 490 ft CLAYEY GRAVEL with sand (GC)

A GC sequence with variable gravel content predominates Plasticity of clay is moderate to high Gravels are volcanic in origin and subrounded Sediment color ranges from very pale orange (10YR 8/2) to moderate yellowish brown (10YR 5/4) No cementation was observed and sediments displayed no reaction to 10% HCl. Samples were dry

490 to 550 ft CLAYEY SAND with gravel (SC)

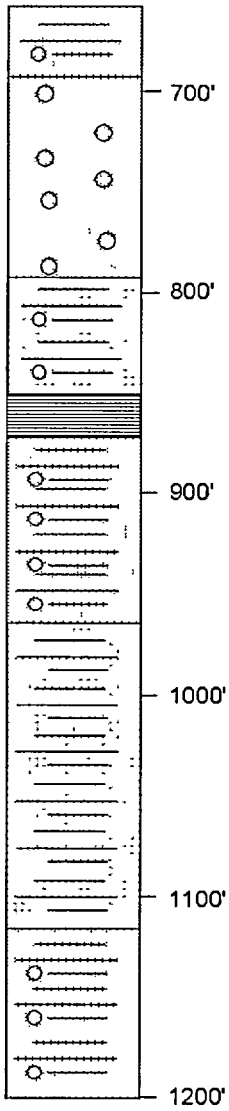
SC layers predominate with smaller size gravels from 490 to 510 ft, and larger size gravels from 510 to 550 ft. Gravels are volcanic in origin and subrounded to rounded Sediment color ranges from pale brown (5YR 5/2) to pale yellowish brown (10YR 6/2) No cementation was observed and sediments displayed no reaction to 10% HCl. Samples were wet below 500 ft

550 to 695 ft Interbedded CLAYEY SAND with gravel (SC) and WELL-GRADED SAND with gravel (SW)

Unit consists of alternating layers of clayey sand with gravel 40 to 50 ft thick and clean sand with gravel 15 to 35 ft thick Gravels are volcanic in origin and subrounded to subangular in shape. Sediment color ranges from yellowish brown (10YR 7/2) to grayish yellow (5Y 7/4) No cementation was observed and sediments displayed no reaction to 10% HCl Samples were wet

Nye County, Nevada Nuclear Waste Repository Project Office	
Early Warning Drilling Program Summary Lithology Log NC-EWDP-5S	
Date: 2/5/03	Geologist: JSW
Scale: Not to scale	Drawn by: RFD

Figure H7
Summary Lithologic Log for Well NC-EWDP-5S (0 to 695 ft)



695 to 795 ft WELL-GRADED SAND with gravel (SW)

Layers of SW with gravel 15 to 25 ft thick predominate. SW layers without gravel are present from 695 to 700 ft and 755 to 770 ft Gravels are volcanic in origin. Sediment color ranges from grayish red (10R 4/2) to yellowish brown (10YR 6/2). No cementation was observed and sediments displayed no reaction to 10% HCl. Samples were wet.

795 to 845 ft CLAYEY SAND with gravel (SC)

Clayey sand (SC) layers with gravel predominates. Gravels are volcanic in origin and subrounded to subangular in shape. Sediment color ranges from pale orange (10YR 7/2) to reddish orange (10R 6/6) No cementation was observed and sediments displayed no reaction to 10% HCl. Samples were wet.

845 to 867 ft SANDY LEAN CLAY (CL)

Interval consists of a massive CL layer with marked absence of gravel Color of clay is pale yellowish orange (10YR 7/2) No cementation was observed and sediments displayed no reaction to 10% HCl Samples were wet.

867 to 965 ft WELL-GRADED SAND with clay and gravel (SW-SC)

Layers of SW-SC with gravel predominate. Thin layers of sandy lean clay (CL) are present from 925 to 935 ft and from 955 to 965 ft. Sand content decreases at the base of unit from 960 to 965 ft Gravels are volcanic in origin and subrounded to subangular in shape Sediment color ranges from pale yellowish orange to grayish orange to moderate yellowish brown (10YR 7/2, 7/4, 5/4) to pale reddish brown (10R 5/4) No cementation was observed and sediments displayed no reaction to 10% HCl Samples were wet

965 to 1115 ft CLAYEY SAND (SC)

Thick massive sequence of SC is present. Thin layers of clayey gravel with sand (GC) are present from 1060 to 1067 ft and from 1083 to 1086 ft Gravels are volcanic in origin and subrounded Sediment color ranges from pale orange brown (10YR 7/2) to grayish orange (10YR 7/4) No cementation was observed and sediments displayed no reaction to 10% HCl All samples were wet.

1115 to 1200 ft (T.D.) WELL-GRADED SAND with clay and gravel (SW-SC)

Well-graded SW-SC layers with gravel predominate Thin layers of gravelly lean clay (CL) are present from 1123 to 1132 ft and from 1160 to 1167 ft. Gravels are volcanic in origin and subrounded in shape Sediment color is light brown (5YR 5/6) to pale reddish brown (10R 5/4) No cementation was observed and sediments displayed no reaction to 10% HCl All samples were wet

Nye County, Nevada Nuclear Waste Repository Project Office	
Early Warning Drilling Program Summary Lithology Log NC-EWDP-5S	
Date: 2/5/03	Geologist JSW
Scale: Not to scale	Drawn by: RFD

Figure H8
Summary Lithologic Log for Well NC-EWDP-5S (695 to 1,200 ft)